Central University of Punjab

पंजाब केंद्रीय विश्वविद्यालय

SELF STUDY REPORT 2015

VOLUME-IV

Supplement Volume

THE SUPPLEMENT TO SELF STUDY REORT

NAAC steering team of the Central University of Punjab compiled the Self Study Report for first NAAC cycle and submitted the three volumes on October 9, 2015. The Central University of Punjab is a very dynamic and vibrant Campus and several new developments have taken place since then: many new faculty members joined, there were a series of lectures, workshops, seminars; all the Centres and Schools held their Board of Studies and School Boards meeting to revise the syllabus for 2016-17, many more students cleared NET projects and several new internally and externally funded grants have been sanctioned.

This fourth volume is an effort to update and supplement the information provided in the three volumes of SSR. It includes activities between October 10, 2015 to April 25, 2016 i.e. the period between submission of SSR and visit of the peer team. As before, faculty and staff of the university were very forthcoming in providing the data and the CUPB NAAC team greatly appreciates their co-operation.

SAR Volume I - Annexure 1
(Updated)

List of the faculty at CUPB

Sr. No.	**Professors**	
1.	Prof. R. K. Kohli, PhD	Centre for Environmental Science and Technology
2.	Prof. P. Ramarao, PhD	Centre for Pharmaceutical Sciences and Natural Products
3.	Prof. A. K. Jain, PhD	Centre for Computer Science and Technology
4.	Prof. R. C. Sharma, PhD	Centre for Environmental Science and Technology
5.	Prof. A. K. Dhawan, PhD	Centre for Plant Sciences
6.	Dr. Ramakrishna Wusirika, PhD	Centre for Biochemistry and Microbial Science
7.	Prof. S. K. Bawa, PhD	Centre for Education
8.	Prof. V. K. Garg, PhD	Centre for Environmental Science and Technology
Associate Professors		
1.	Dr. Anjana Munshi, PhD	Centre for Human Genetics and Molecular Medicine
2.	Dr. Tarun Arora, PhD	Centre for Environmental Law
3.	Dr. Hans Raj Arora, PhD	Centre for Environmental Law
4.	Dr. Alpna Saini, PhD	Centre for Classical and Modern Languages
5.	Dr. Pabitra Kumar Mishra, PhD	Centre for Economic Studies
6.	Dr. Vinay K. Rao, PhD	Centre for South and Central Asian Studies
7.	Dr Amandeep Kaur, PhD	Centre for Computer Science and Technology
8.	Dr. Rajesh Kumar Gupta, PhD	Centre for Mathematics and Statistics
9.	Dr. Gauree Shankar, PhD	Centre for Mathematics and Statistics
10.	Dr. Rajesh Kumar, PhD	Centre for Chemical Sciences
11.	Dr. Rupesh Shivaji Devan, PhD	Centre for Physical Sciences
12.	Dr. Santosh Kumar Mahapatra, PhD	Centre for Physical Sciences
13.	Dr. Raj Kumar, PhD	Centre for Pharmaceutical Sciences and Natural Products
14.	Dr. Sanjeev Kumar, PhD	Centre for Plant Sciences
15.	Dr. Anil K. Mantha, PhD	Centre for Animal Sciences
16.	Dr. Monisha Dhiman, PhD	Centre for Human Genetics and Molecular Medicine
17.	Dr. Zameerpal Kaur , PhD	Centre for Comparative Literature
18.	Dr. Aklank Jain, PhD	Centre for Animal Sciences

19.	Dr. Malkhey Verma, PhD	Centre for Biochemistry and Microbial Sciences
Assistant Professors		
1.	Dr. Jyoti Parkash, PhD	Centre for Animal Sciences
2.	Dr. Krishna Rapalli, PhD	Centre for Animal Sciences
3.	Dr. Shashank Kumar, PhD	Centre for Biochemistry and Microbial Sciences
4.	Dr. Somesh Baranwal, PhD	Centre for Biochemistry and Microbial Sciences
5.	Dr. Pramod Kumar Khushawaha, PhD	Centre for Biochemistry and Microbial Sciences
6.	Dr. Rakesh Kumar, PhD	Centre for Chemical Sciences
7.	Dr. Krishan Kanta Haldar, PhD	Centre for Chemical Sciences
8.	Dr. Rajendra S. Dhayal, PhD	Centre for Chemical Sciences
9.	Dr. J. Nagendra Babu, PhD	Centre for Chemical Sciences
10.	Dr. Ramanpreet Kaur, PhD	Centre for Classical and Modern Languages
11.	Dr. Dinesh Babu P., PhD	Centre for Classical and Modern Languages
12.	Dr. Shahila Zafar, PhD	Centre for Classical and Modern Languages
13.	Dr. Rajinder Kumar, PhD	Centre for Comparative Literature
14.	Dr. Amandeep Singh, PhD	Centre for Comparative Literature
15.	Dr. Kousik Giri, PhD	Centre for Computational Sciences
16.	Dr. Mahesh Kulharia, PhD	Centre for Computational Sciences
17.	Dr. Vijaykumar Yogesh Muley, PhD	Centre for Computational Sciences
18.	Er. Meenakshi Mittal, M.Tech.	Centre for Computer Science and Technology
19.	Er. Surinder S. Khurana, M. Tech.	Centre for Computer Science and Technology
20.	Dr. Satwinder Singh, PhD	Centre for Computer Science and Technology
21.	Dr. Sandeep Kaur , PhD	Centre for Economic Studies
22.	Dr. Naresh K. Singla, PhD	Centre for Economic Studies
23.	Dr. Jainendra K. Verma, PhD	Centre for Economic Studies
24.	Dr. Jajati Keshari Parida, PhD	Centre for Economic Studies
25.	Dr. S. S Dhillon, PhD	Centre for Education
26.	Dr. J. Padmanabhan, PhD	Centre for Education
27.	Dr. Sesadeba Pany, PhD	Centre for Education
28.	Dr. Sunil Mittal, PhD	Centre for Environmental Science and Technology
29.	Dr. Dhanya M.S., PhD	Centre for Environmental Science and Technology
30.	Dr. Yogalakshmi K.N., PhD	Centre for Environmental Science and Technology
31.	Dr. Puneeta Pandey, PhD	Centre for Environmental Science and

		Technology
32.	Dr. Kiran K. Singh, PhD	Centre for Geography and Geology
33.	Dr. Jitendra K. Pattanaik, PhD	Centre for Geography and Geology
34.	Dr. L.T. S. Guite, PhD	Centre for Geography and Geology
35.	Dr. K. Milankumar Sharma, PhD	Centre for Geography and Geology
36.	Dr. Preeti Khetarpal, PhD	Centre for Human Genetics and Molecular Medicine
37.	Dr. Sandeep Singh, PhD	Centre for Human Genetics and Molecular Medicine
38.	Dr. Harish Chander, PhD	Centre for Human Genetics and Molecular Medicine
39.	Dr. Sabyasachi Senapati, PhD	Centre for Human Genetics and Molecular Medicine
40.	Dr. Neeraj Kumar, PhD	Centre for Human Genetics and Molecular Medicine
41.	Dr. Deepak Kumar, PhD	Centre for Law
42.	Dr. Puneet Pathak, PhD	Centre for Law
43.	Dr. Sukhwinder Kaur, PhD	Centre for Law
44.	Dr. Surender Mehra, PhD	Centre for Law
45.	Dr. Sachin Kumar, PhD	Centre for Mathematics and Statistics
46.	Dr. Anoop Kumar, PhD	Centre for Mathematics and Statistics
47.	Dr. Harmanpreet Kapoor, PhD	Centre for Mathematics and Statistics
48.	Dr. Vinod Kumar, PhD	Centre for Pharmaceutical Sciences and Natural Products
49.	Dr. Vikas Jaitak, PhD	Centre for Pharmaceutical Sciences and Natural Products
50.	Dr. Pradeep Kumar, PhD	Centre for Pharmaceutical Sciences and Natural Products
51.	Dr. Kamlesh Yadav, PhD	Centre for Physical Sciences
52.	Dr. Achchhe Lal Sharma, PhD	Centre for Physical Sciences
53.	Dr. Ashok Kumar, PhD	Centre for Physical Sciences
54.	Dr. Felix Bast, PhD	Centre for Plant Sciences
55.	Dr. Pankaj Bhardwaj, PhD	Centre for Plant Sciences
56.	Dr. Vinay Kumar, PhD	Centre for Plant Sciences
57.	Dr. Vinod Arya, PhD	Centre for Sociology
58.	Mr. Aditya Ranjan Kapoor	Centre for Sociology
59.	Dr. Sumedha Dutta, PhD	Centre for Sociology
60.	Dr. Bawa Singh, PhD	Centre for South and Central Asian Studies
61.	Dr. Nishtha Kaushiki, PhD	Centre for South and Central Asian Studies
62.	Dr. Sudheer Singh Verma, PhD	Centre for South and Central Asian Studies
DST-SERB, Fast Track Fellow		
63.	Dr. Manju Jain, PhD	Centre for Biochemistry and Microbial Sciences

SAR Volume I - Annexure 3
(Updated)

List of non-teaching staff at CUPB

S. No.	Name	Designation
1.	Dr. Jagdeep Singh	Registrar
2.	Ms. Shweta Arora	Deputy Registrar
3.	Dr. Shushil Kumari Gupta	OSD (Academic & Administration)
4.	Dr. Jaswinder Singh Bilga	Consultant (Horticulture)
5.	Dr. Mridula Mittal	Medical Officer
6.	Er. Daljeet Singh	Executive Engineer
7.	Er. Puneet	Assistant Engineer
8.	Mr. Sweet Singh	Campus Manager
9.	Mr. Rajender Kumar	Assistant Registrar
10.	Mr. Amandeep Singh Mann	System Analyst
11.	Mr. Rajinder Singh Smagh	Liaison Officer
12.	Mr. Ranbir Singh	Section Officer
13.	Dr. Bhupinder Singh	Professional Assistant
14.	Mr. Vivek Goyal	Assistant
15.	Mr. Suresh Kumar	Assistant
16.	Mr. Sandeep Kumar	Assistant
17.	Mr. Rupinder Sharma	Hindi Translator
18.	Mr. Gurmail Singh	Accountant
19.	Dr. Gagandeep	Sports Officer
20.	Mr. Amrik Singh	Jr. Assistant
21.	Ms. Usha Sharma	Technical Assistant
22.	Mr. Nivedan Salwan	UDC
23.	Mr. Rohit Rastogi	UDC
24.	Ms. Poonam Rani	UDC
25.	Ms. Jyoti	LDC
26.	Mr. Harvinder Singh	LDC
27.	Mrs. Anupam Sharma	LDC
28.	Mr. Sachin	LDC
29.	Mr. Pawan Poonia	Laboratory Assistant
30.	Mr. Roshan Kumar	Laboratory Assistant
31.	Mr. Ravi Dutt	Laboratory Attendant
32.	Mr. Darshan Singh	Driver
33.	Mr. Balraj Singh	Driver
34.	Mr. Jyoti Singh	Cook
35.	Mr. Ravinder Singh	Library Attendant
36.	Mrs. Veerpal Kaur	Library Attendant
37.	Mr. Harvinder Singh	Office Attendant

38.	Mr. Devi Lal	Office Attendant
39.	Mr. Pawan Kumar	Office Attendant
40.	Mr. Subash Chander	Multitasking Staff
41.	Mrs. Simerjit Kaur	Medical Attendant
42.	Mr. Jatinder Pal Singh	UDC
43.	Ms. Sona Rani	JTA
44.	Mr Ashvani Kumar	JTA
45.	Mr. Rajesh Tiwari	JTA
46.	Mr. Yadvinder Singh Sodhi	JTA
47.	Mrs. Gagandeep Kaur	JTA
48.	Mr. Mandeep Singh	JTA
49.	Mr. Sukhpinder Singh	DEO
50.	Mr. Ram Kumar	DEO
51.	Mr. Ajay Kumar	DEO
52.	Mr. Bharat Bhushan	DEO
53.	Ms. Sarupinder Kaur	DEO
54.	Mr. Shiv Singh	Kitchen Attendant
55.	Mrs. Simerpreet Kaur	Library Trainee
56.	Ms. Mamta Rani	Library Trainee
57.	Mr. Lakhvir Singh	Driver
58.	Mr. Parminder Singh	Helper

Supplement to
SAR Volume I - Annexure 4

CUPB faculty's visits, training and experience abroad

Continued from 1-38 in Volume I Annexure 4

S. No.	Name of Faculty	Organisation, City, Country	Period
Centre for Mathematics and Statistics			
39.	**Dr. Rajesh Gupta**	University of British Columbia, Canada	2007-2009
		Vienna, Austria	2007
Centre for Biochemistry and Microbial Sciences			
40.	**Dr. Malkhey Verma**	Japan	March 4-16, 2004
		Japan	July 28-August 02, 2005
		USA	March 07-January 31, 2016
		UK	Nov. 14- January 31, 2007
		Germany	April 13-17, 2008
		Spain	June 30-July 03, 2008
		Austria	March 05-13, 2009
		Germany	May 16-20, 2009
		Austria	March 21-23, 2010
		Luxembourg	Sep. 08-17, 2010
		Austria	January 25-29, 2011
		Germany	March 13-16, 2011
		Netherlands	Sep. 27-29, 2011
		Ireland	April 22-24, 2012
		Switzerland	June 02-July 07, 2014
		Portugal	June 07-12, 2014
		Netherlands	Dec. 14-18, 2014
		Netherlands	January 27-30, 2015
		Netherlands	February 03-07, 2015
		Spain	October 21-24, 2016
		The University of Manchester, UK	2007-2010
		The University of Manchester, UK	2010-2016
		Okinawa University of Science & Technology, Japan	March 14-20, 2004

		FEBS Journal & Biochemical Society, *Alpbach, Austria*	March 7-13, 2009
		FEBS Journal & Biochemical Society, Austria	Feb 26 - March 4, 2011
		HES-SO Valais Sion, Switzerland	June 3-7, 2014
		Universidad de Verano de Adeje, Tenerife, Spain	July 28-31, 2008
		Fujifilm Diosynth Biotechnologies, Yarm, North Yorkshire, UK	November 6 – 11, 2011
		VU Amsterdam, Netherlands	Jan. 28-30, 2014
		Lorenz Center Leiden, Netherlands	Feb. 2-6, 2015
41.	**Ms. Manju Jain**	MD Anderson Cancer Centre, Department Molecular Carcinogenesis, Texas, USA	July 2008- Aug 2011
		ICGEB-Trieste, Italy	2006
Centre for Computational Sciences			
42.	**Dr. Vijaykumar Yogesh Muley**	The Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena, Germany	Oct-2013-De-2015
Centre for Classical and Modern Languages			
43.	**Dr. Shahila Zafar**	University of Massachusetts, Amherst	September 1, 2006-June, 2007.
Centre for Sociology			
44.	**Sumedha Dutta**	University of Kelaniya, Kelaniya, Sri Lanka	November 22-23, 2013

SAR Volume II – Table 1.4
(Updated)

Curriculum review by different Centres of CUPB

Name of the Centre	Name of the Programme	Syllabus (First approval	1st Revision/ Upgrade	2nd Revision/ Upgrade	3rd Revision / Upgrade	4th Revision/ Upgrade
Environment Science & Technology	M.Phil.	Feb, 2010.	July, 2011	Feb, 2013.	November, 2014	-
	M.Sc.	Jul, 2011.	Aug 2012	Feb, 2013.	Nov., 2014	Dec. 26, 2015
	Ph.D.	Coursework was approved in Aug 2012	November, 2014	-	-	Dec. 26, 2015 (course work)
Comparative Literature	M.Phil.-Ph.D. Integrated	December 2009	July-Aug 2011	July-Aug 2011(Course Work)	Dec. 01, 2015 (Ph.D. course work	-
	M.A. Comparative Literature	June 2012	November 2014 (changed the Nomenclature of programme as M.A. English and Comparative Literature)	Dec. 01, 2015	-	
South and Central Asian Studies	M.Phil.-Ph.D. Integrated	2009-10	-	-	-	-
	M.Phil.	November, 2014	Sep. 30, 2015	-	-	-
	M.A. International Studies	2009-10	June 5, 2012	November 2014 (changed the	-	

				Nomenclature of programmeas)		
	M.A. Political Science	Nov. 2014	Sep. 30, 2015			
	M.A. History		Sep. 30, 2015			
Economics	M.Phil. Economics	June, 2011	November 2014	Dec.12, 2015	-	
	M. A. Economics	2013	November 2014	Dec.12, 2015		
	Ph.D. (Course work)	Dec.12, 2015				
Environmental Law	LLM - Ph.D. Integrated	April, 2011	-	-	-	
	Ph.D.	Dec.2014 (Course work Approved)	Aug. 27, 2015 (Course work)			
	LLM in Environmental Law (one year)	March 2013	Dec.2014 (two year & add more specializations)	Aug. 27, 2015	-	
Physical and Mathematical Sciences	M.Sc. Physics (Nanophysics)	August, 2013	July, 2014	November, 2014 M.Sc. Physics (Specialization in Nanophysics)	Dec. 17, 2015	
	M.Phil. Physics	August, 2013	July, 2014	November, 2014	-	
	Ph.D.	November, 2014 (Course work)	Dec. 17, 2015	-	-	
Human	M.Sc.	Feb.2014	Nov. 2014	Sep. 21,	-	

Genetics	Human Genetics			2015		
Genetic Diseases and Molecular Medicine	M.Sc. in GDMM	Feb.2014	Nov. 2014	Sep. 21, 2015		
	Ph.D.	Nov. 2014 (Course work)	Sep. 21, 2015	-	-	
Bioinformatics	M.Sc. in Bioinformatics	Feb.2014	Nov. 2014	-	-	
	Ph.D	Nov. 2014	Sep.18, 2015	-		
Computer Science and Technology	M.Tech. (Computer Science and Technology)	July, 2012	Nov. 2014	Nov. 16, 2015	-	
	M.Tech. Cyber Security	Nov. 2014	Nov. 16, 2015	-		
Education	M.Ed./M.A. Education	Feb14	Nov. 2014	Sep. 28, 2015	-	
	Ph.D.	Feb14	Nov. 2014	Sep. 28, 2015		
Punjabi Language, Literature and Culture	M.A.(Hons) Punjabi and Comparative Literature	July, 2013	Nov.2014 (changed the Nomenclature)	Oct. 13, 2015	-	
	Ph.D.	Nov.2014	Oct. 13, 2015			

SAR Volume II – Table 1.4 (Contd..)
(Updated)

Curriculum review by different centres of CUPB

After the submission of NAAC documents, the following programmes have been revised by different Centres of the University for the Academic Year 2016-17.

Sr. No.	Centre	Programme	Review Date
1.	Animal Sciences	M.Sc. Life Sciences (Animal Sciences)	5-12-2015
		Ph.D. in Animal Sciences	5-12-2015
2.	Bio Chemistry and Microbial Sciences	M.Sc. Life Sciences (Microbial Sciences)	5-12-2015
		M.Sc. Life Sciences (Biochemistry)	5-12-2015
		Ph.D. Biochemistry	5-12-2015
3.	Chemical Sciences	M.Sc. Chemical Sciences	22-12-2015
		Ph.D. Chemical Sciences	22-12-2015
4.	Classical and Modern Languages	M.A. Punjabi	13-10-2015
		Ph.D. in Punjabi	13-10-2015
5.	Comparative Literature	M.A. English (Comparative Literature and Translation)	01-12-2015
		M.Phil. in Comparative Literature	01-12-2015
6.	Computational Sciences	M.Sc. in Life Sciences (Bioinformatics)	18.09-2015
		M.Sc. Chemistry (Computational Chemistry)	18.09-2015
		M.Sc. Physics (Computational Physics)	18.09-2015
7.	Computer Science and Technology	M.Tech. CST	06-11-2015
		M.Tech. CST (Cyber Security)	06-11-2015
8.	Economics	M.A. Economics	12-12-2015
		M.Phil. in Economics	12-12-2015
		Ph. D. Economics	12-12-2015
9.	Education	M.A. Education	28-09-2015
		M.Ed. Education	28-09-2015
		Ph.D. Education	28-09-2015
10.	Environmental Science and Technology	M.Sc. in EVST	26-12-2015
		Ph.D in EVST	26-12-2015
11.	Human Genetics and	M.Sc. Life Sciences (Human	21-09-2015

	Molecular Medicine	Genetics)	
		M.Sc. Life Sciences (Molecular Medicine)	21-09-2015
12.	Geography and Geology	M.A./M.Sc. Geography	16-11-2015
		M.A./M.Sc. Geology	16-11-2015
		Ph.D. in Geography/ Geology	16-11-2015
13.	Law	LL.M. (Two Year)	27-08-2015
		Ph.D.	27-08-2015
14.	Mathematics and Statistics	M.Sc. Mathematics	11-12-2015
		M.Sc. Statistics	11-12-2015
		Ph.D. Mathematics, Course Work	11-12-2015
15.	Pharmaceutical Sciences and Natural Products	M.Sc.(Medicinal Chemistry)	22-12-2015
		M.Pharm.(Medicinal Chemistry)	22-12-2015
		M.Pharm. (Pharmacognosy and Phytochemistry)	22-12-2015
		Ph.D. in Pharmaceutical Sciences	22-12-2015
16.	Physical Sciences	M.Sc. Physics	17-12-2015
		Ph. D. Physics	17-12-2015
17.	Plant Sciences	M.Sc. Life Sciences(Plant Sciences)	02-11-2015
		Ph.D. Plant Sciences	02-11-2015
18.	Sociology	M.A. Sociology	08-11-2015
		Ph.D. in Sociology	08-11-2015
19.	South and Central Asian studies	M.A. History	30-09-2015
		M.A. Political Science	30-09-2015
		M.Phil. in South and Central Asian studies	30-09-2015

Supplement to
SAR Volume II – Table 1.6

Orientation and refresher programmes attended by CUPB Faculty

Continued from 1-35 inVolume II Table 1.6

Sr. No.	Name	Designation& Centre	Type of Course	From	To	Place
36.	Dr. Dhanya M. S.	Assistant Professor, Centre for Environmental Sciences and Technology	Orientation course	16-11-2015	12-12-2015	UGC-HRDC, Guru Jambeshwar University of Sciences and Technology, Hissar
37.	Er. Meenakshi Mittal	Assistant Professor, Centre for Computer Sciences and Technology	Orientation course	16-11-2015	12-12-2015	UGC-HRDC, Guru Jambeshwar University of Sciences and Technology, Hissar
38.	Dr. Puneeta Pandey	Assistant Professor, Centre for Environmental Sciences and Technology	Orientation course	08-02-2016	04-03-2016	UGC-HRDC, JNU New Delhi
39.	Dr. Jyoti Parkash	Assistant Professor, Centre for Animal Sciences	Refresher Course	01-02-2016	15-02-2016	Central University of Punjab, Bathinda

Supplement to
SAR Volume II –Table 2.3

List of Invited Experts

Continued from 1-108 in Volume II Table 2.3

Sr.No.	Name of Experts	Date of Lecture
109.	Dr. B. S. Pathak	August, 20, 2015
110.	Dr. Agyajit Singh	August , 31, 2015
111.	Prof. Baijnath Prasad	September, 14, 2015
112.	Mr. Donald Bouchard	September 18, 2015
113.	Prof. V.K. Kapoor	October 5, 2015.
114.	Dr. B. K. Passi	October 15, 2015.
115.	Prof. Jeet Singh Joshi	October 28, 2015.
116.	Er. S. S. Gill	November 4, 2015
117.	Dr. Rama Krishna Challa	November 6, 2015
118.	Prof. Sanjeev Puri	November 9, 2015
119.	Prof. Subhash Minocha	November 16, 2015
120.	Dr. Rakesh Minocha	November 17, 2015
121.	Dr. Seema Sharma	November 17, 2015
122.	Prof. P.V. Bharatam	November 26, 2015
123.	Prof. Bijay Singh	November 26, 2015
124.	Dr. Brahma Pujala	December 22, 2015
125.	Prof. Vidhu Mohan	January 28, 2016.
126.	Er. Yashwant Singh	January 30, 2016
127.	Dr. Hemant Bhutani	February 1, 2016.
128.	Prof. M. Mehfooz Khan	February 8, 2016
129.	Prof. Parminder Singh	February 10, 2016.
130.	Prof. P. S. Ahuja	February 12, 2016
131.	Dr. J. N. Agrewala	February 12, 2016
132.	Prof. D. K. Nayak	February 16, 2016
133.	Prof. R. N. Chibbar	February 23, 2016
134.	Prof. RK Bhatnaga	February 23, 2016
135.	Prof. RS Sandhu	February 24, 2016
136.	Prof. Anil Grover	February 24, 2016
137.	Prof. R. S. Atwal	February 25, 2016
138.	Prof. Sanjay Chaurvedi	February 26, 2016
139.	Dr. Alan Hemmings	February 26, 2016.
140.	Prof. Balram Gupta	March 02, 2016
141.	Prof. D.K. Sharma	March 02, 2016
142.	Dr. Azeet Narayan	March 09, 2016
143.	Dr. Ch. Mohan Rao	March 09, 2016
144.	Prof. Debashis Banerji	March 09, 2016

145.	Dr. Inusha Panigrahi	March 12, 2016
146.	Justice K Kannan	March 12, 2016
147.	Dr. Mahesh Bhargava	March 16, 2016
148.	Dr. K. Thangraj	March 17, 2016
149.	Amb. (Retd.) Achal Malhotra	March 18, 2016
150.	Dr. Surajit Sarkar	March 21, 2016
151.	Dr. Kaustav Datta	March 21, 2016
152.	Prof Rup Lal	March 29, 2016
153.	Prof. Rajat Sandhir	March 29, 2016
154.	Prof. Rana Pratap Singh	March 29, 2016
155.	Dr. Pankaj Kumar	April 04, 2016
156.	Er Anil Kumar Singla	April 08, 2016

SAR Volume II –Table 2.9
(Updated)

Details of the Visiting/Adjunct/Honorary Professors

S. No.	Name and Affiliation
1.	Dr. Ravindra N. Chibbar, Professor and Canada Research Chair in Molecular, Biology for Crop Quality, University of Saskatchewan, Canada.
2.	Prof. R. Gadagkar, FNA, FNASc, FTWAS, President Indian National Science Academy, JC Bose National Fellow, Centre for Ecological Sciences, I.I.Sc., Banagalore-560 012.
3.	Prof. K. N. Pathak, FNA, FNASc, FASc, Former Vice Chancellor, Professor Emeritus (Life Long) and UGC Emeritus Fellow, Department of Physics, Panjab University, Chandigarh-160 014.
4.	Dr. K. K. Bhasin, FNASc, Former Professor, Department of Chemistry, Panjab University, Chandigarh-160 014.
5.	Dr. Debashish Banerji, Advisor Bioscience, Baba Amte Centre for People's Empowerment Samaj Pragati Sahayog, Bagli, Distt-Dewas, M.P.
6.	Prof. R. S. Tripathi, FNA, FNASc, Amarawati, 10/58, Sector-10, Indira Nagar, Lucknow-220 016 (U.P.)
7.	Prof. Ashok Sahni, FNA, FNASc, FASc, FTWAS, F-28, Sector 38A, Chandigarh-160 014.
8.	Prof. Veer Singh, Former Vice Chancellor, National Law University, Hyderabad, Director Academics, Chandigarh Judicial Academy, Chandigarh.
9.	Dr. Rakesh Minocha, , Senior Scientist, USDA Forest Service, Durham, NH
10.	Dr. A. P. Pathak, School of Physics, Central University of Hyderabad, Hyderabad
11.	Prof. IBS Passi, FNA, FNASc, FASc, FTWAS, 381, Sector 38A, Chandigarh-160 014 (Adjunct Professor).

Supplement to
SAR Volume II –Table 3.3

List of ongoing projects at CUPB

I. University Awarded Projects

Continued from 1-24 in Volume II Table 3.3

Sr. No.	Name of Faculty	Project title	Amount (Rs.)
Centre for Geography & Geology			
25.	Dr. K. Milan Kumar Sharma	Study of the vertebrate fossils of Miocene deposits of kutch, Gujrat with special refrence to the micro vertebrates remains and their palaeoclimatic and palaeobiogepgrapihc implications	3,00,000
26.	Dr. J. K. Pattnaik	Geochemistry of glacil lake deposits for upper alaknanda basin: Significance to paleoclimatic fluctuation	3,00,000
27.	Dr. L. T. S. Guite	Urban Spranof Mapping and Land use change Analysis using Remote sansing and GIS: A case study of Bathinda city, Punjab, India	2,40,000
28.	Dr. Kiran Kumari Singh	Urban mapping of Bathinda using geospatial techniques	2,65,000
Centre for Animal Sciences			
29.	Dr. R. K. Chaitanya	Micro RNA sequencing analyses of Plasmodium infected midgut gene expression in the mosquito vector species: Anopheles stephensi	3,00,000
30.	Dr. Jyoti Parkash	Development origins of the metabolic syndrome hormone-dependent programming of the metabolic brain in physiological and pathological conditions	3,00,000

Centre for Economics Studies			
31.	Dr. Jainendra K . Verma	Am emperiacal stdy of entrepreneurship in micro small and medium enterprises in bathinda: Challenges & opportunities	1,50,000
32.	Dr. Jajati Keshari Parida	A study of Vocational education and employability of youth in Punjab india	1,50,000
33.	Dr. Sandeep Kaur	Mapping of socio Economic Inmlications of land acquisition for development projects: A case study of mullanpur, Punjab	1,50,000
34.	Dr. Pabitra K. Mishra	A study on impact of socio economic factors on children's Educational outcomes in Bathinda district of Punjab, india	1,50,000
Centre for Human Genetics and Molecular Medicine			
35.	Dr. Neeraj Kumar	The role of histone deacetylase inhibators (HDACis) in regulating longevity and healthy aging genes	3,00,000
36.	Dr. Sabyasachi Senapati	In Silico evaluation of non coding genome involved in immune mediated dieases	3,00,000
Centre for Pharmaceutical Sciences & Natural Products			
37.	Dr. Pradeep Kumar	Syntehsis of novel quinolone derivatives as anti methicillin resistant staphylococcus aurens (MRSA) agents	3,00,000
Centre for Plant Sciences			
38.	Dr. RamaKrishna Wusirika	Microbial community structrure of agricultural and non agricultural soil of Bathinda, Punjab and growth promoting ctivity of metal resistant becteria in rice, wheat and chickpea	3,00,000
39.	Dr. Vinay Kumar	In-depth understanding f epigenetic regulation during callus formation in plants	3,00,000

Centre for Law			
40.	Dr. Tarun Arora	Staus of implecations of swachh bharat mission with special refrence of right to sanitation and drinking water in Bathinda city	1,50,000
Centre for Chemical Sciences			
41.	Dr. Rajendra Singh Dhayal	Stabilization of copper polyhybrides by dislenocarbamte ligand	3,00,000
42.	Dr. J. N. Babu	Optimization of cellulose immobilized iron nanoparticle in ionic liquid/ water system fo rdevelopment of sustainable water purification technology	3,00,000
43.	Dr. Krishna Kumar Haldar	Hetergeneous photcatalyytic degradation of organic molecular on metal-semicondutor hybrid nanomaterials	3,00,000
Centre for Mathematics & Statistics			
44.	Dr. Anoop Kumar	Solution of heatlike and wavelike equations with variable coefficients by the he's Variation Iteration method	3,00,000
45.	Dr. Sachin Kumar	Exact solutions of some scientific problems	3,00,000
Centre for Environmental Science & Technology			
46.	Dr. Sunil Mittal	Environmental baseline data monitoring (water & Soil) of central university of Punjab, main campus ghuda and its surrounding areas	3,00,000
Centre for Biochemistry & Microbial Sciences			
47.	Dr. Shashank Kumar	To study the molecular mechanism of natural compounds as Notch signaling inhibitor in cancer cell lines:in silico and in vitro investigation	3,00,000
48.	Dr. Aklank Jain	Roel of micro RNA-509 in lung cancer carinogenesis	3,00,000
49.	Dr. P.K. Kushwaha	Quantative analysis of IFN-y included GTP p-65 guanlyte binding protiem involved autonomous immunity to	3,00,000

		intracellular prarasites.	
50.	Dr. Somesh Baranwal	Role of OMPU of vibrio cholorae in intestinal epithelial barrier dsyfunction	3,00,000
51.	Dr. Malkhey Verma	Mathematical modelling in tandem with experimental approaches to create miRNA therapeutic agents and the effective use of poly-pharmaceuticals against imatinib reisstant BCR-ABL positive leukemic cells	3,00,000
Centre for Computer Science and Technology			
52.	Dr. Satwinder Singh	Cross-company threshold model for software failure	300,00

Supplement to
II. Externally funded projects

Continued from 1-60 in Volume II Table 3.3

S.No.	Principle Investigator	Name of the Project	Funding Agency	Year	Total Grant Sanctioned
61.	**Dr. Harish Chander**	Transcriptional Regulation of Formin Binding Protein 17 (FBP17) in Breast Cancer	DST-SERB	2016-19	Rs 33,10,000
62.	**Dr. Neeraj Kumar**	To study the effects of hydroxamic acid based HDAC inhibitors on the health span of *Caenorhabditis elegans*	UGC-FRPS	2016-18	10 lakh
63.	**Dr. Jyoti Parkash**	Role for Semaphorins and its Receptors in the Control of Sexual Brain Development and Adult Brain Plasticity	UGC	2015-18	10 Lacs
64.	**Dr. Jyoti Parkash**	Neural-glial-endothelial tripartite interactions: Unravel the basic cell-cell regulatory Mechanisms involved in the central control of reproduction	SERB, DST	2016-19	50 lacs

65.	**Dr. Chaitanya R.K.**	Elucidation of the role of digestive proteases during *Plasmodium* transmission in Indian malarial vector, *Anopheles stephensi*	DST-SERB	2014-17	Rs. 16,53,802/-
66.	**Dr. Pankaj Bhardwaj**	Transcriptomic investigations of active gene networks in hyper-accumulator plant species in response to heavy metal toxicity	CSIR	2015 - 2018	16 lacs
67.	**Dr. Rajendera Singh Dhayal**	Synthesis and characterization of polyhydrido Cu and Ag nanoclusters and their applications	DST-SERB	2016 - 2019	27.5 Lakh
68.	**Dr. Rajesh Kumar**	The mechanism of reductive release of iron from serum transferrin	ICMR	2015-18	40 lacs
69.	**Dr. Rajesh Kumar**	The Role of macromolecular crowding on structure, function, stability, and folding of serum transferrin	DBT	2016-19	25 lacs
70.	**Dr. Rajesh Kumar**	Kinetic and Thermodynamic Studies of the Effects of Synergistic and Nonsynergistic Anions on Blood Plasma Transferrin	DST-EMR	2015-18	52.6 lacs (to be transferred to CUPB)
71.	**Dr. Sabyasachi Senapati**	Identification of non-coding RNA in celiac disease	UGC Start-up Grant	2016-18	10 lacs
72.	**Dr. K. Milankumar Sharma**	Studies of the micro-vertebrates faunal diversity of Late Triassic Tiki Formation, Madhya Pradesh, India: An implication on global palaeobiogeography.	UGC		10 lacs

SAR Volume II –Table 3.6
(Updated)

IT Resources of CUPB

S.No.	Resources	Total
1	Computers	522
2	High end Work stations	10
3	Blade Server with capacity for 16 blades. Each blade with 16 GB RAM, 12 blades are functional	1
4	Two lease lines	40 Mbps and 1 Gbps
5	Laptops	54
6	Software	22
7	SAN Storage	30 TB (1)

SAR Volume II –Table 3.7
(Updated)

Information resources at CUPB's University Library

Library collections
The library collection consists of books, reference books, text books, print journals, newspapers, M.Phil. Dissertations, e-journals, databases, and cd rom/dvds.

Sr. No.	Resources	Total
01	Books	27,170
02	Journals and Print Format	40
03	E-Journals ,	9105
04	Thesis and Dissertation	107
05	News Papers	21
06	CD-ROM/DVD	378

Supplement to
SAR Volume II –Table 3.8

University publications from CUPB

Continued from 1-11 in Table 3.8

S. No.	Newsletters
12.	a) July 2015-October 2015 b) November 2015-February 2016

SAR Volume II –Table 3.9
(Updated)

Details of Publications by Faculty

S. No.	Name of the Centre	Name of faculty	Papers in Reviewed Journals		Monographs	Chapters in Books	Books Edited	Books with ISBN with details of publishers	Number listed in international database	Citation Index	Impact factor(range/index)	h-index
			National	International								
1	Physical Sciences	Dr. A.L. Sharma		12						39	1.3 to 3.8	04
		Dr. Kamlesh Yadav							12	26	0.449-2.999	3
		Dr. Jai Prakash		38				01 (ISBN: 978-3-659-32404-8) Lambert Academic Publishing, Germany		643	0.380-7.728	13
		Dr. Ashok Kumar		20		01				445	1.3-4.5	11
2	Computational Sciences	Dr. Kousik Giri		10						157	1.5-3.15	7
		Dr. Purshotum Sharma		31						299	1.5-9.5	10
		Dr. Mahesh Kulharia		11					11	96	2.02-12.114	4
3	Comparative Literature	Dr. Zameerpal Kaur	7	2		1		3				
		Dr. Rajinder	33	5		4	2	1		1		
		Dr. Amandeep		17						157	1.0-3.5	5
4	Animal Sciences	Dr. Anil K. Mantha	--	29	--	3	--	--	33	603	0.33-17.47	14
		Dr. Aklank Jain (joined the center on 28-12-2015)	1	18	--	--	--	--	19	558	0.83-9.12	13
		Dr. Jyoti Prakash	--	20	--	--	--	--	20	405	0.13-16.77	12
		Dr. R. Krishna Chaitanya	--	15	--	--	--	--	15	99	0.59-6.33	6
5	Classical and Modern Languages (Punjabi Language, Literature and Culture)	Dr. Alpna Saini	9	10	7	4	1	2				
		Dr. Ramanpreet	18			13	1	2				
		Dr. Dinesh Babu		6		1						
		Dr. Shahila Zafar										

6	Chemical Sciences	Dr. Rajesh Kumar		22					8	209	1.65-4.33	9
		Dr. Rakesh Kumar	1	20					21	386	0.39-33.38	11
		Dr. KK Haldar		14					14	497	2.15-8.31	11
		Dr. Rajendra S. Dhayal	1	18					19	273	0.628-22.732	10
		Dr. J. Nagendra		16					16	262	0.68-6.4	11
7	Pharmaceutical Sciences and Natural Product	Prof. P. Ramarao		118						4647	0-5.04	36
		Dr. Vinod Kumar		25					24	449	1.2-5.6	14
		Dr. Pradeep	1	48						582	0.3-3.5	13
		Dr. Vikas Jaitak		35		1			35	350	0.5-6.15	10
		Dr. Raj Kumar	1	51				1 (978-81-921432-9-3)	30	1308	1.4-6.4	21
8	Geography and Geology	Dr. Kiran Singh	3	5	1			978-36393-05753				
		Dr. JK Pathania	1	7		9		ISBN-978-81-90442-3-1 ISBN-978-81-90442-3-1 ISSN-0973-256x ISSN-0973-256x ISBN-81-8372-034-x ISBN-81-8372-020-x			16.374	3
		Dr. Sasang Guite	1	2		1		ISSN-0970-7913 ISSN-2277-6168 ISSN-2244-1522 ISBN-978-81-212-1208-3 ISBN-978-93-80036-75-5				
		Dr. Milan Kumar Sharma	9							9	2.65	2
9	Environmental Science and Technology	Prof (Dr.) R.K Kohli		281		78	12			4862		32
		Prof (Dr.) R.C. Sharma	87	10		9				8	0.355-1.119	2
		Dr. V. K. Garg	30	125	3	10	1	978-3846519622	60	4200	0-50	35
		Dr. Sunil Mittal		17		2				296	32.04	10
		Dr. Yogalakshmi		10						69	0.626-4.49	4
		Dr. Dhanya M.S	4	3		5	1	9789380428789		20	0.66-1.74	2
		Dr. Puneeta Pandey		10						26		1
10	Law	Dr. T. Arora	40		1	2	1	978-932726119-6				
		Dr. HR	7	1		2		4				

		Arora										
		Dr. Puneet Pathak	10	1		5						
		Dr. Surender Mehra	8									
		Dr. Deepak Kumar	6	2		5	1					
		Dr. Sukhwinder Kaur	5			3						
11	South and central Asian studies	Dr. Bawa Singh	8			8						
		Dr. Nishtha Kaushiki	1	2		2						
		Dr. Sudheer Singh	1			2						
		Dr. Vinay Rao	11	3	1			3				
12	Human genetics and molecular medicine	Dr. Anjana Munshi	7	76	-	13	2	DNA sequencing methods and applications, ISBN 978-953-51-0564-0(Intech, Europe)	76	1027	1-7	18
		Dr. Harish Chander		16					16	262	1-9	12
		Dr. Preeti Khetrapal	1	2		2				4	0-2	1
		Dr. Sandeep Singh		17					17	108	1.5-22.2	6
		Dr. Sabyasachi Senapati		6					6	451	3.5-29.6	7
		Dr. Neeraj Kumar		6					6	15	0.87-6.43	2
13	Education	Dr. SK Bawa	67			8	1					
		Dr. Shamshir Singh Dhillon	13	14		3		1			30.0	
		Dr. Jubilee	5	4		6	2	2			3.113	
		Dr. Pany	17	12			1	2 81-8005154-4 81-8005155-2			6.943	
14	Sociology	Dr. Vinod Arya	1			2						
		Dr. Aditya R Kapoor				2						
		Dr.Sumedha Dutta	1			1						
15	Mathematics and statistics	Dr. Rajesh Kumar Gupta		42				1		312	0.376 - 2.866	10
		Dr. Gauree Shanker	5	30				1		11	0.357-1.073	1
		Dr. Sachin		25						212	0.242 - 2.866	7

		Kumar										
		Dr. Anoop Kumar		7						23		
		Dr. Harmanpreet Singh Kapoor		5							0.413	1
16	Plant Sciences	Prof. Ashok Dhawan	121	22	9	19				838	8.0	12
		Dr. Felix Bast	11	29		3		2	40	94	0-3.7	6
		Dr. Sanjeev Kumar	1	27					28	616	0-3.5	15
		Dr. Pankaj Bhardwaj		12		1			12	198	0.45-3.94	6
		Dr. Vinay Kumar		15		6			21	167	0-5.9	8
17	Computer science and technology	Prof AK Jain		28		7				197	1-6	8
		Er. Meenakshi		6						5	3.924	1
		Er. SS Khurana		2								
		Dr. Satwinder Singh										
		Dr. Amandeep Kaur		17							1-3.5	5
18	Economics	Dr. PK Mishra	21	28		4		2		381	0.4-1.5	12
		Dr. Naresh Singla	9			6		1				2
		Dr. JK Verma		15							Not known	
		Dr. JK Parida	5	3		2				48	1.39	5
		Dr. Sandeep Kaur	2	14		2		1		3		
19	Biochemistry and microbial sciences	Prof. R. K. Wusirika		53		4	1		53	3214	0.6-33.6	26
		Dr. Monisha Dhiman		22		3			24	368	3-15	12
		Dr. Malkhey Verma		19		4	1	1	26	283	1-7	9
		Dr. Shashank Kumar	3	25					17	563	0.04-2.88	11
		Dr. Somesh Baranwal	0	27		1			27	595	2.265-16.710	10

SAR Volume II –Table 3.11
(Updated)

List of Students from CUPB who have qualified National Level Competitive Exams/ National level fellowships

S. No.	Name of Student	Batch	Achievement
Biosciences/Plant Sciences/Animal Sciences			
1.	Shweta Thakur	2010-11	ICMR JRF 2012, SET (HP)
2.	Pushpendra Singh	2010-11	CSIR NET 2013
3.	Prateek Sharma	2010-11	CSIR-NET, ICAR-NET, SLET
4.	Mohd Zahiid	2010-11	ICMR JRF 2011
5.	Devendra Meena	2010-11	CSIR JRF 2011
6.	Abhimanu Kumar	2010-11	CSIR JRF 2011
7.	Rajiv Kumar	2010-11	CSIR JRF 2011
8.	Sarabjeet Kour Sudan	2011-12	DBT JRF 2012
9.	Aijaz Ahmad John	2011-12	CSIR JRF (June 2012), CSIR NET (Dec.-2012)
10.	Navgeet	2011-12	CSIR UGC NET (Dec-2012) GATE 2012 & 2013
11.	Satej Bhushan	2011-12	CSIR UGC NET (Dec. 2012)
12.	Navrattan Kaur	2012-13	ICMR JRF (2012) GATE-2012, CSIR-NET 2013
13.	Amandeep	2012-13	DST INSPIRE 2012, GATE 2013
14.	Rashmi Saini	2012-13	GATE 2012, ICMR-JRF 2013
15.	Shishir Upadhayay	2012-13	GATE 2012 CSIR-NET 2013 ICMR-JRF 2014 (15^{th} Rank) CSIR-JRF 2014 (61^{st} rank)
16.	Balraj Singh Gill	2011-12	UGC-MANF 2011, GATE 2011, CSIR-NET 2011
17.	Richa Mehra	2012-13	GATE 2012, CSIR-NET 2013 ICMR-JRF 2014 (37^{th} Rank)
18.	Renu	2012-13	GATE 2013, ICAR-NET March 2014 ICAR-NET June 2014, CSIR-NET 2014
19.	Sapna Thakur	2012-13	GATE 2013, ICAR SRF 2012 ICMR-JRF 2013, ICAR-NET June 2014
20.	Shruti Chaudhary	2012-13	CSIR-UGC-JRF 2013
21.	Raoof Ahmad Najar	2012-13	ICAR-NET March 2014
22.	Pushpendu Kundu	2013-14	ICAR-NET March 2014

23.	Aasim Majeed	2013-14	CSIR JRF 2014 (54th Rank)
24.	Arindam Adhikary	2012-13	ICAR-NET June 2014
25.	Rashpal Kumar	2013-14	UGC-RGNF 2015
26.	Sukhchain Kaur	2013-14	UGC-RGNF 2015, ICAR-ARS, 2015
27.	Sumandeep Juneja	2013-14	UGC-MANF 2015, ICAR-NET,2015
28.	Bibekananda Sarkar	2010-11	CSIR-NET, 2012, ICMR-SRF-2016
29.	Sharanjot Kaur	2014-15	ICMR-JRF, 2015
30.	Khem Chand Saini	2013-14	CSIR-NET,2015, CSIR-JRF-Dec 2015
31.	Rubal	2014-15	UGC-RGNF 2016
32.	Ravi Prakash Cholia	2010-11	ICMR-SRF-2016
33.	Wahid Rahman	2013-14	UGC-RGNF 2016
34.	Villayat Ali	2015-16	CSIR-JRF
35.	Ankur Jairath	2015-16	French Eiffel Fellowship, 2016
Environment Sciences & Technology			
36.	Upma Vaid	2009-10	UGC NET SET (June and Dec. 2012)
37.	Gajendra Singh Viswakarma	2009-10	JRF DST (Project) UGC NET (June. 2012)
38.	Anamika Das	2009-10	UGC NET Dec. 2012, UGC-RGNF
39.	Jaskiran Kaur	2010-11	UGC-MANF
40.	Gurpreet Kaur	2010-11	UGC NET June 2012, UGC-MANF
41.	Nandini Gautum	2010-11	UGC NET Dec. 2012
42.	Amita Bhatti	2011-12	CSIR-UGC NET June 2012 UGC-RGNF 2012, GATE 2012
43.	Navneet Kaur	2011-12	UGC Dec.2012
44.	Annu Sharma	2011-12	UGC-NET 2012, CSIR-NET
45.	Disha Mishra	2011-12	UGC JRF Dec. 2011
46.	Rishikesh Singh	2011-12	UGC JRF June 2012
47.	Harmandeep	2012-13	DST Inspire 2012-13
48.	Gulam Nazar	2011-12	ICAR-ARS-NET 2013
49.	Amit Kumar	2012-13	ICAR-ARS-NET 2013, UGC-JRF 2013
50.	Shashi Ranjan	2013-14	UGC-JRF December, 2013
51.	Vijay Jaswal	2013-14	ICAR-ARS-NET 2014, UGC_NET 2015
52.	Radhe Shyam Yadav	2013-14	UGC_NET 2014, CSIR JRF, 2015
53.	Gini Rani	2013-14	UGC-NET, UGC-RGNF 2015
54.	Sangita Singh	2014-15	GATE
55.	Ranjit Kumar	2015-16	UGC-JRF
56.	Shilpa Sharma	2013-14	ICMR JRF-2015
57.	Arun Kalia	2013-14	UGC-NET-2015, ARS-NET
58.	Mudassir Youssef	2013-14	ARS-NET
59.	Rakesh Gupta	2014-15	ARS-NET

60.	Gursharan Kaur	2012-13	UGC-NET Dec 2015
61.	Akanksha	2013-14	UGC-NET Dec 2015, ARS-NET
South Central Asian Studies			
62.	Gurpreet Kaur	2009-10	UGC-RGNF
63.	Maninderjit Singh	2010-11	UGC NET (Dec-2012), ICSSR Doctoral Fellowship
64.	Anu Sonia	2010-11	UGC-RGNF
65.	Kovid Kumar	2010-11	UGC-JRF, 2011
66.	Mohammad Arif	2011-12	UGC NET ,June 2012
67.	Sandeep Singh	2012-13	UGC JRF June 2015, RGNF 2015, UGC-JRF-December 2015
68.	Manpreet Kaur	2012-13	UGC-MANF
69.	Amritpal Singh	2014-15	UGC-NET , RGNF 2016
70.	Bilal Ahmad	2014-15	UGC-NET- June 2014
71.	Gopale Amarnath	2013-14	UGC-NET- June 2011
72.	Meenakshi	2014-15	UGC-RGNF 2015
73.	Davinderpal Singh	2015-16	UGC-JRF Dec 2013
74.	Rajendra Prasad	2015-16	UGC-NET
Comparative Literature			
75.	Yeshpal	2009-10	UGC NET June 2012
76.	Kamaljeet Kaur	2009-10	UGC-NET 2011
77.	Barjinder Singh	2010-11	UGC-JRF(June 2012, Dec-2012)
78.	Chitra	2011-12	UGC NET Dec. 2013
79.	Pradeep Kaur	2010-11	UGC NET June 2014
80.	Vandana Bathla	2011-12	UGC NET Dec. 2012
81.	Rajpal	2011-12	UGC NET Dec. 2012
82.	Amandeep Kaur	2010-11	UGC-NET June 2014
83.	Disha	2011-12	UGC-NET 2011
84.	Devendra Gora	2012-13	UGC-RGNF 2013
85.	Rakesh Kumar	2013-14	UGC-RGNF 2014
Economic Studies			
86.	Amandeep Kaur	2011-12	UGC JRF
87.	Mumtaz Ahmed	2012-13	UGC-RGNF 2012
88.	Munish Kumar	2011-12	UGC NET 2011, 2012
89.	Neha Jindal	2011-12	UGC NET 2011
90.	Ramandeep Kaur	2013-14	UGC-NET 2014
91.	J Vineesh Prakash	2013-14	UGC-NET 2014
92.	Nadeem	2013-14	UGC-NET 2014
93.	Mohammad Fayaz	2013-14	UGC-NET 2014
94.	Javaid	2013-14	UGC NET 2014
95.	Noushaad A.P.	2013-14	UGC-NET 2014
96.	Bishwajeet Pakash	2013-14	UGC-NET 2014

97.	Harpreet Kaur	2013-14	UGC-NET 2014
98.	Paramjeet Kaur	2013-14	UGC-RGNF 2015
99.	Manpreet Kaur	2013-14	UGC-RGNF 2015
100.	Harmeet Kaur	2014-15	UGC-JRF 2014
101.	Ramun Prasad	2015-16	UGC-NET
102.	Pushp Kumar	2015-16	UGC-NET
103.	Ajay Kumar Sahu	2015-16	UGC-NET, RGNF
104.	Tariq Munshi	2015-16	UGC-RGNF
105.	Shiba Shanhar Pattayat	2015-16	UGC-RGNF
106.	Mandeep Kaur	2015-16	UGC-NET
Law			
107.	Ramandeep	2011-12	UGC NET, Dec 2012
108.	Abhishek	2011-12	UGC NET, Dec 2012
109.	Kamalpreet Singh Dhillon	2011-12	PPSC-2014
110.	Nishant Kumar	2013-14	UGC-NET 2015
111.	Tripta	2015-16	UGC-NET
Pharmaceutical Sciences and Natural Products			
112.	Arvind Negi	2011-12	GPAT, 2011,GATE2013, Irish Government Doctoral Fellowship, 2014
113.	Ramit Singla	2011-12	GPAT 2011
114.	Monika Chouhan	2011-12	GPAT 2011
115.	Yashika Bhalla	2011-12	GPAT 2011
116.	Jimi Marin Alex	2011-12	GPAT 2011, UGC-MANF
117.	Prakriti Monga	2011-12	GPAT 2011
118.	Deependra Kumar	2011-12	GPAT 2011
119.	Vinay Kumar Gupta	2011-12	GPAT 2011
120.	Archna Kashyap	2013-14	GPAT 2013
121.	Shivani Sharma	2013-14	GPAT 2013
122.	Jagpreet Singh	2013-14	GPAT 2013
123.	Sapna Kumari	2013-14	GPAT 2013
124.	Bhupender Kumar	2013-14	GPAT 2013
125.	Vivek Parkash Gupta	2013-14	GPAT 2013
126.	Pankaj Kumar Singh	2013-14	GPAT 2013
127.	Jyoti Dandriyal	2014-15	GPAT 2014
128.	Manavendra Kumar	2014-15	GPAT 2014
129.	Harmeet Kaur	2014-15	GPAT 2014
130.	Gaurav Sharma	2014-15	GPAT 2014
131.	Gaurav Joshi	2012-13	GPAT 2012
132.	Ashish Ranjan Dwivedi	2012-13	GPAT 2012

133.	Sheetal	2012-13	GPAT 2012
134.	Vijayinder Saini	2012-13	GPAT 2012
135.	Mayank	2012-13	GPAT 2012
136.	Gagandeep Kaur	2012-13	GPAT 2012
137.	Anil Rana		GPAT 2012
138.	Akansha Sharma		GPAT 2011
139.	Kunal Prakash		GPAT 2015
140.	Ankush Thakur		GPAT 2015
141.	Subhajit Makar		GPAT 2015
142.	Rohit Kumar		GPAT 2015
Computer Sciences			
143.	Deepika Dhiman	2012-13	GATE 2013
144.	Khushmeet Singh	2012-13	GATE 2012, 2013
145.	Amandeep Kaur	2012-13	GATE 2012
146.	Ruby Goel	2012-13	GATE 2012
147.	Kanika	2012-13	GATE 2012, 2014
148.	Shifali Hans	2012-13	GATE 2012
149.	Mandeep Singh	2012-13	GATE 2012
150.	Amandeep Kaur		GATE-2014
151.	Siddharth Kumar		GATE-2014
152.	Rinku		GATE-2014,
153.	Amita Get	2013-14	GATE-2013, UGC-NET 2014
154.	Dharamveer	2013-14	GATE-2013, UGC-NET 2014
155.	Gaurav Kumar	2013-14	GATE-2013
156.	Pankaj Kumar	2013-14	GATE-2013
157.	Saurav Kr. Gupta	2013-14	GATE-2013
158.	Komal Rani	2013-14	GATE-2013
159.	Rohit Goyal	2013-14	GATE-2013
160.	Meenu Singh	2013-14	GATE-2013
161.	Rajshree Purohit	2013-14	GATE-2013
162.	Rajiv Kumar	2013-14	GATE-2013
163.	Shrikant Saini	2013-14	GATE-2013
164.	Shailesh Kumar	2014-15	GATE 2014
165.	Marut Jindal	2014-15	GATE 2014
166.	Ankit Padhak	2014-15	GATE 2014
167.	Gursewek Singh	2014-15	GATE 2014, 2016
168.	Siddharth	2014-15	GATE 2014
169.	Sukhwinder Singh	2014-15	GATE 2015
170.	Amita	2014-15	GATE 2014
171.	Shweta Sharma	2014-15	GATE 2015, 2016
172.	Jaskaran Singh	2014-15	GATE 2015, 2016

173.	Sajja Hari Krishna	2014-15	GATE 2014
174.	Srishti Yadav		GATE 2015
175.	Harsh Kishore Mishra		GATE 2015
176.	Rekha Kumari Yadav		GATE 2015
177.	Anubha		GATE 2015
178.	Amarpreet Kaur		GATE 2015
179.	Anshu Malik		GATE 2015
180.	Junaid Ali Reshi		GATE 2015
181.	Gajendra Singh Rathore		GATE 2015
182.	Arvind Kumar		GATE 2015
183.	Kumari Deepika		GATE 2015
184.	Akansha Priya	2015-16	GATE 2016
185.	Sangeeta Yadav	2015-16	GATE 2016
186.	Manpreet Kaur	2015-16	GATE 2016
187.	Nisha Kundu	2015-16	GATE 2016
188.	Shruti Bhardwaj	2015-16	GATE 2016
189.	Harinder Kaur	2015-16	GATE 2016
Geography and Geology			
190.	Amanpreet Singh	2015-16	UGC-NET- June 2013, December 2013, June 2014, UGC-NET/JRF December 2014 and June 2015
191.	Virendra	2015-16	UGC-JRF 2013
192.	Amandeep Kaur	2012-13	UGC-MANF (2012), UGC NET, June 2014, Dec 2014, June 2015
193.	Mohd. Hussain Naik	2012-13	UGC-NET December, 2013.
194.	Gaurav Kumar	2012-13	UGC-NET June 2014 Dec 2014 , UGC JRF June 2015
195.	Kuldip Singh	2013-14	UGC-NET-June 2014, June 2015, December-2015, RGNF-2015
Centre for Education			
196.	Richa Arora	2015-16	UGC-JRF
197.	Kiranjit Kaur	2015-16	UGC-JRF
198.	Igona	2015-16	UGC-JRF
199.	Sushma Kumari	2015-16	UGC-JRF
200.	Amandeep Kaur	2016-16	UGC-JRF
201.	Narinder Singh	2015-16	UGC-RGNF
202.	Sandeep	2015-16	UGC-JRF
203.	Joginder	2015-16	UGC-JRF

Centre for Physical Science			
204.	Anil Arya	2015-16	CSIR-NET, GATE
205.	Mohd. Sadiq	2013-14	CSIR-NET
206.	Gaurav Kumar Yogesh	2013-14	GATE
Mathematics and Statistics			
207.	Sonu Ram	2015-16	CSIR-JRF
Human Genetics and Molecular Medicine			
208.	Karamjot Kaur	2015-16	DBT-JRF
209.	Parveen Sharma	2015-16	CSIR NET
210.	Prabhat Suman	2015-16	UGC-RGNF 2015
211.	Sourav Kalra	2015-16	GPAT
212.	Ramanpreet Kaur	2016	UGC-NET
Centre for Classical & Modern Languages			
213.	Gurpreet Kaur	2015-16	UGC-NET
Centre for Computational Sciences			
214.	Preetleen	2015-16	CSIR-JRF
215.	Vicky Kumar	2013-14	GATE-2013, ICMR-JRF, UGC-JRF-2015, UGC-RGNF-2015
216.	Suchismita Mahato	2013-14	GATE-2012, 2013, 2016, UGC-NET-2015 (June& Dec)
Centre for Biochemistry and Microbial Sciences			
217.	Kunj Bihari Gupta	2013-14	CSIR-NET 2014, ICMR JRF- 2015
218.	Radhey Shyam Yadav	2015-16	UGC-NET-December 2015, CSIR-JRF, 2015
219.	Prem Prakash Kushwaha	2015-16	CSIR-UGC-JRF

CSIR = Council of Scientific and Industrial Research
UGC = University Grants Commission
RGNF = Rajiv Gandhi National Fellowship
MANF = Maulana Azad National Fellowship
GATE = Graduate Aptitude Test
SET-State Eligibility Test
GPAT = Graduate Pharmacy Aptitude Test
ICSSR= Indian Council of Social Science Research
ICAR-ARS= Indian Council for Agricultural Research- Agricultural Research Services

SAR Volume II –Table 3.14
(Updated)

List of MoUs signed by CUPB

I. For Academic Collaborations

S.No.	Name of organisation	Date
1.	CSIR-Institute of Himalayan Bioresource Technology, Palampur	8.3.2013
2.	National Agri-Food Biotechnology Institute, Mohali	28.3.2013
3.	National Academy of Medical Sciences, New Delhi	19.8.2013
4.	Punjab Agricultural University, Ludhiana	20.9.2013
5.	Baba Farid University of Health Sciences, Faridkot	17.10.2013
6.	Centre of Innovative and Applied Bioprocessing, Mohali	17.1.2014
7.	Punjab Biotechnology Incubator, Mohali	3.2.2014
8.	Department of Plant Sciences, University of Saskatchewan, Canada	12.6.2015
9.	Centre for Research in Rural and Industrial Development, Chandigarh	26.6.2015
10.	Adesh University, Bathinda	18.04.2016

SAR Volume II –Annexure 3.5
(Updated)

Details of the Instruments available with Central Instrumentation Laboratory

S. No.	Instruments	Make and Model No.	Instrument Cost	Date of Installation	Accessories / Capabilities	Applied Area
1.	Fluorescence Microscope	Olympus, FSX-100	26,53,000/-	10/06/2010	NA	Brightfield, Phase Contrast and Fluorescence Imaging
2.	Ultra High Performance Liquid Chromatography	Thermofischer Scientific Pvt. Ltd., Dionex Ultimate-3000	11,07,536/- + 10,64,000/-	11/11/2011	C-18 and C-8 Column Diode Array Detector Fluorescence Detector	Reverse Phase Chromatography
3.	UV-Visible Spectrophotometer	Shimadzu Pvt Ltd., UV-2450	12,36,123/-	03/04/2012	PMT Detector, Flow Cell Unit,	Absorbance and Spectral measurement in UV and Visible

					Peltier Thermostat, Multiple Cuvette Holder	region (200-900 nm)
4.	Fourier Transform Infrared Spectrometer	Bruker Inc., Tensor-27	17,02,500/-	05/09/2012	ZnSe Beamsplitter, PMT Detector, ATR Cell, Drift Cell, Hydraulic Press	Transmission, Attenuated Transmitted Reflectance (ATR) and Diffused Reflectance (DR) Infrared Spectra (4000-600 cm^{-1})
5.	Atomic Absorption Spectrometer	Shimadzu AA-7000	26,14,000/-	26/12/2012	Na, Cr, Mg, Mn, Co, Fe, Cu, As, Se, Hg Lamps GF-7000, HVG-1, Autosampler ASC-7000	Graphite Furnace Analysis Cold Vapour and Hydride Generator Analysis Flame Analysis
6.	Gas Chromatography Mass Spectrometry	Shimadzu QP2010 Ultra Plus	78,00,000/-	20/01/2014	DI Probe, CI/EI mode Teledyne TEKMAR HT3 Headspace Auto Sampler	Mass Spectroscopy, Headspace Analysis, Pesticide Residue analysis
7.	Confocal Laser Scanning Microscope with FCS	Olympus Pvt. Ltd., FV-1200	2,82,00,000/-	28/05/2014	Picoquant Picoharp 300 SPAD Detection Unit Live Cell Imaging setup (OKO Lab)	Laser imaging with six laser lines 405, 635, 488, 515, 543 and 559 nm. Differential Interference Contrast Live Cell Imaging and Fluorescence Correlation Spectroscopy
8.	Field Emission Scanning Electron Microscope	Carl Zeiss Pvt Ltd, Germany,	2,64,00,000/-	28/07/2014	Quorum-Q150R ES Sputter Coater Oxford Instruments EDX Analysis Probe Model	Resolution up to 0.8 nm. With Six detectors for Imaging SE, In lens, BSD, EDX and STEM

					XMax^{n}, Detectors SE, BSC, InLens, STEM	
9.	Gas Chromatography	Nucon Pvt. Ltd., New Delhi NUCON-5765	5,88,000/-	02/09/2013	TCD and FID Detectors With 3 Wide Bore columns	Biogas and Producer gas analysis
10.	FACS	BD Accuni C6: Bench top flow Cytometer with Autosampler	40,87,757/-	29/07/2015	Magnetic Cell Sorter	Analysis of cell in flow including fluorescent studies
11.	ICPMS	ThermoicAP 6300	81,00,000/-	Under installation		
12.	96 Capillary Automated DNA analyzer	Applied Biosystem Inc USA and Hitachi Corporation Japan/Model 6250020	2,00,67,917/-	08-07-2011		

Supplement to
SAR Volume II –Table 4.4

List of Library Committee meetings

Continued from 1-18 in Table 4.4

S.No.	Library Committee meeting	Date of Meeting	Chairperson and Members of committee
19	19th Library Committee meeting	08-Sep-2015	Prof. S.K. Bawa (Chairperson) Dr. Sanjeev Thakur, Dr. Felix Bast, Dr. Anil Kumar Mantha, Dr. Deepak Kumar, Dr. Kiran K Singh
20	20th Library Committee meeting	29-Sep-2015	Prof. S.K. Bawa (Chairperson) Dr. Sanjeev Thakur, Dr. Felix Bast, Dr. Anil Kumar Mantha, Dr. Deepak Kumar, Dr. Kiran K Singh
21	21st Library Committee meeting	03-Nov-2015	Prof. S.K. Bawa (Chairperson) Dr. Sanjeev Thakur, Dr. Felix Bast, Dr. Anil Kumar Mantha, Dr. Deepak Kumar, Dr. Kiran K Singh, Dr. Bhupinder Singh
22	22nd Library Committee meeting	01-Dec-2015	Prof. S.K. Bawa (Chairperson) Dr. Sanjeev Thakur, Dr. Felix Bast, Dr. Anil Kumar Mantha, Dr. Deepak Kumar, Dr. Kiran K Singh, Dr. Bhupinder Singh
23	23rd Library Committee meeting	29-Jan-2016	Prof. S.K. Bawa (Chairperson) Dr. Sanjeev Thakur, Dr. Felix Bast, Dr. Anil Kumar Mantha, Dr. Deepak Kumar, Dr. Kiran K Singh, Dr. Bhupinder Singh
24	24th Library Committee meeting	10-March-2016	Prof. S.K. Bawa (Chairperson) Dr. Sanjeev Thakur, Dr. Felix Bast, Dr. Anil Kumar Mantha, Dr. Deepak Kumar, Dr. Kiran K Singh, Dr. Bhupinder Singh

SAR Volume II –Table 5.1
(Updated)

Number of applications and students given financial assistance under CUPB Financial Assistance Scheme

Year	No. of applications received	Number of students recommended	Total amount disbursed from student aid
2013-14	42	29	2,31,970/-
2014-15	116	63	3,95,850/-
2015-16	116	76	2,01,500/-

SAR Volume II –Table 5.2
(Updated)

Number of M.Phil. and Ph.D. fellowships disbursed since 2009

S.No.	Year	University Scholarships /Fellowships	
		M.Phil.	Ph.D.
1	2009-10	10	NIL
2	2010-11	38	NIL
3	2011-12	58	NIL
4	2012-13	70	21
5	2013-14	117	34
6	2014-15	135	55
7	2015-16	33	105

Supplement to
SAR Volume II –Table 6.1

Meetings of the University Court

Continued from 1-2 in Table 6.1

S.No.	Meeting	Date	Place	Members
3.	**Third Court**	07.11.2015	CUPB	13+1 Chancellor
4.	**Fourth Court**	29.02.2016	CUPB	11+1 Chancellor

Supplement to
SAR Volume II –Table 6.2

Meetings of the Executive Council

Continued from 1-17 in Table 6.2

S.No.	Meeting	Date	Place	Members
18.	**18th Executive Council**	31.10.2015	CUPB	05+1 VC
19.	**19th Executive Council**	15.12.2015	CUPB	06+1 VC
20.	**20th Executive Council**	10.03.2016	IISER, Mohali	04+1 VC

Supplement to
SAR Volume II –Table 6.3

Meetings of the Academic Council

Continued from 1-8 in Table 6.3

S.No.	Meeting	Date	Place	Members
9.	**9th Academic Council**	14.12.2015	CUPB	07+1VC
10.	**10th Academic Council**	27.02.2016	CUPB	10+1VC

Supplement to
SAR Volume II –Table 6.4

Meetings of the Finance Committee

Continued from 1-10 in Table 6.4

S.No.	Meeting	Date	Place	Members
11.	**11th Finance Committee**	31.10.2015	CUPB	05+1VC
12.	**12th Finance Committee**	14.12.2015	CUPB	05+1VC
13.	**13th Finnance Committee**	10.03.2016	IISER, Mohali	07+1VC

SAR Volume II –Table 6.8
(Updated)

Number of males and females in teaching and non-teaching staff

Year	Non-Teaching Staff									Teaching								
	GP A			GP B			GP C			Prof.			Assoc. Prof.			Asst. Prof.		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
2012	04	02	06	05	-	05	17	07	24	04	-	04	02	-	02	20	14	34
2012	07	02	09	06	-	06	21	09	30	03	-	03	02	-	02	30	15	45
2014	08	01	09	09	-	09	32	11	43	06	01	07	02	01	03	28	16	44
2015	08	03	11	10	-	10	35	15	50	06	01	07	05	04	09	53	15	68
2016	05	03	08	11	-	11	28	11	39	06	01	07	14	05	19	50	12	62

FOUNDATION WEEK CELEBRATION 2016

Rangoli Competition

On 22 February 2016, a Rangoli Making competition was organized. In this competition 25 groups participated and they designed Rangolies on different themes.

Essay Writing Competition

Essay writing competition was held on 22 Feb. 2016 in three languages; English, Hindi and Punjabi. The topic of the essay writing competition was "The Relevance of Academic Autonomy to the Knowledge Formulation and Nation Building Process". 43 Students participated in the competition.

Best out of Waste

On 23 February 2016, Best out of Waste competition was organized. 21 groups participated in the competition with their innovative ideas of reuses of waste material.

Documentary Making

On 24 February 2016 documentary competition was held. In this competition 8 groups participated.

Food Carnival

- On 25 February 2016, Food Carnival competition was organized. The competition was the main attraction of the entire cultural week celebration.

Flower Arrangement

A flower arrangement competition was organized on 26 February 2016 to enhance the creativity of the students.

Solo Song

- To explore the hidden talent of the students the university organized a solo song competition on 26 February 2016. In this competition 17 participants participated.

Traditional Dress Competition

A traditional dress competition was organized on 27 February 2016. In this competition 16 individual and 12 groups participated.

ACTIVITIES OF CENTRES

Centre for Animal Sciences

Invited Lectures on Feb. 26, 2016 as a part of 7th CUPB Foundation Week Celebrations

1. **Prof. Sanjay Chaurvedi**, Dept. of Political Science, Punjab University, Chandigarh

Tile: Arctic Geopolitics in the Era of Climate Change: Routes and Resources.

2. **Dr. Alan Hemmings**, University of Canterbury, Australia

Tile: The Transforming Antarctic Geopolitics of the Age of Globalism and Climate Change.

Centre for Classical and Modern Languages

1. An interaction on Research Methods in Literatures and Languages with Prof. Rajesh Kumar Sharma, Head, Department of English, Punjabi University, Patiala on October 13, 2015.
2. A lecture on How to Read a Text by Prof. Parminder Singh, Former Professor, Department of English, Guru Nanak Dev University, Amritsar on February 10, 2016.
3. Essay Writing Competition to mark the Foundation Day Celebrations under the auspices of the university on February 22, 2016. The topic was "The Relevance of Academic Autonomy in Knowledge Formation and Nation Building Process".
4. International Mother Language Day on March 3, 2016. Students and Faculty members from different linguistic backgrounds celebrated their mother languages with poems, songs and speeches.

Mother Language Day

Prof. P. Ramarao during Mother Language Day Address

Prof. Parminder Singh during his lecture

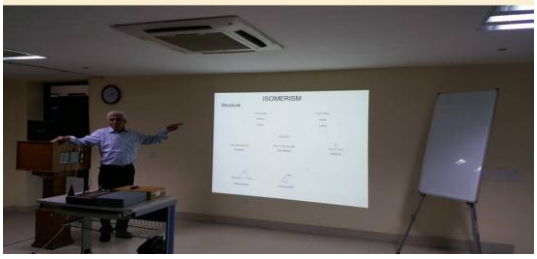
Students performing in their mother tongue

A lecture by Dr. Jaswinder Singh, Former Head and Professor, Department of Punjabi, Punjabi University, Patiala on Cultural Transformation

On March 23, 2016 at 10 am, the lecture was followed by special talk by Prof. Dhanwant Kaur, Department of Punjabi, Punjabi University, Patiala.

Centre for Pharmaceutical Sciences & Natural Products

Lecture by Prof. V.K. Kapoor, former Chairman, UIPS, Panjab University Chandigarh on "Understanding stereochemistry at grass root level" on 05-10-2015.



Workshop Organised

The Centre organized a three day workshop on "Drug Design, Molecular Docking, Virtual Screening and Pharmacoinformatics" in association with Schrödinger INC. USA on 26-11-2015 to 28-11-2015. Fourty participants from 14 different Universities/Institutes of north India were selected out of 64 applications received.

Lecture by Dr. Brahmam Pujala, Integral Biosciences on "Small Molecule Kinase Inhibitors: Challenges and Opportunities" on 22-12-2015.

Lecture by Dr. Hemant Bhutani, Biocon Bristol-Myers Squibb R&D Centre (BBRC), Bangalore on "Analytical Sciences in Drug Discovery and Development" on 01-02-2016.

Lecture by Mr. Sharad Mishra, Thermo Fisher Scientific India Pvt. Ltd., Noida on "Advancements and applications of HR-MS" on 08-02-2016.

A glimpse of various activities during workshop.

Centre for Computer Science and Technology

Dr. Rama Krishna Challa, Professor, Dept. of Computer Science & Engineering, NITTTR, Chandigarh delivered a lecture on Issues in Mobile Adhoc Networks dated 06-11-2015.

CENTRE FOR EDUCATION

❖ **A Virtual Lecture on Futuristic Education**

On 15th October, 2015, a lecture on 'Futuristic Education' was delivered by Dr. B. K. Passi.

❖ **A Lecture on Stress Management**

On 17th November, 2015, a lecture on 'Stress Management' was delivered by Dr. Seema, Associate Professor, GHGH College of Education for Women, Sidhwan Khurd.

❖ **An interaction of Prof. Vidhu Mohan with students on Coping with Sexual Harassment**

On 28th January, 2016: A lecture on 'Coping with Sexual Harassment' was delivered by Dr. Vidhu Mohan (Retd. Prof. Panjab University, Chandigarh).

❖ **Deliberation on Applications of Counselling**

On 29th January, 2016, a lecture on 'Applications of Counselling' was delivered by Dr. Vidhu Mohan. She focussed on the variety of applications of counselling at various stages of life.

❖ **ICSSR sponsored National Conference on Education for Sustainable Development**

ICSSR sponsored National Conference on 'Education for Sustainable Development' was organised by Centre for Education on 4th & 5th February, 2016 in which 121 delegates from nine states participated and 66 presentations were made.

A special lecture by Dr. Mahesh Bhargava on Testing techniques on March 16, 2016.

Centre for Geography and Geology

Workshop -cum- special lectures on, 'GIS and Its Application: Recent Trend in Geography and Geology' from 15th – 19th February 2016. While the practical class was conducted at cyber security lab, special lecture was conducted at seminar hall on 16th February 2016.

Following resource persons were invited;

Prof. D.K. Nayak, Department of Geography, NEHU, Shillong (for special lecture on "Changing Fields in Geography")

Prof. Rajeev Patnaik, Department of Geology, PU, Chandigarh (for special lecture "High Resolution Climatic Record Entombed in Fossil Mammalian Dental Enamel")

Ms. Amritee Bora, Project scientist, SAC, Ahmedabad (for GIS hands on practical class)

Total participant: 33

Group Photo Centre for Geography and Geology

Prof. Rajeev Patnaik

Prof. D. K. Nayak

Centre for Human Genetics

- **Title of the training course: "Training course in Medical Genetics and Bioinformatics"**
- **Sponsored by**: DBT, New Delhi
- **Duration of the course:** 15 days (9th -23rd of March, 2016)
- **No. of Participants:** 21 participants

Inaugural function

Human Genetics

Dr. Ch. Mohan Rao, Former Director, CCMB, Hyderabad

Dr. K. Thangaraj, Senior Scientist, CCMB

Participants of the workshop

Type of Program	: Hands-on Workshop
Name of the Program	: Model Organisms in Molecular Genetic Research
Date of the program	: 21st March 2016
Organized by	: Centre for Human Genetics and Molecular Biology
Number of participants	: 30
Invited Guests	: Dr. Surajit Sarkar and Dr. Kaustav Datta, Assistant Professor, Department of Genetics, University of Delhi South Campus, New Delhi.

Dr. Surajit Sarkar delivering the invited lecture

Memento being handed over to Dr. Kaustav Datta

Centre for Plant Sciences

Conferences / Workshops / Seminars Organized by the Centre:

Three Science Academies of India i.e. IASc, INSA, and NASI jointly sponsored two academic programmes at CUPB. First one was Refresher course on "Environmental Biology" from 1st to 15th Feb, 2016 in which 30 candidates participated mostly faculty and PhD scholars from different colleges and universities.

Participants of refresher course along with Prof. R. K. Kohli, Prof. Raghvendra, Prof. Paramjit Khurana, Prof. J. P. Khurana

Second one was three days Lecture Workshop on "Recent Breakthroughs in Plant Sciences" from 22nd to 24th Feb, 2016 targeted for students from local colleges and universities. More than 130 students participated in the workshop.

Prof. R. K. Kohli delivering lecture during workshop

Ongoing lecture by Prof. A. K. Dhawan

Center for Animal Sciences

The Center for Animal Sciences, organized one-day symposium "Recent Trends in Biological Sciences" on 29th March, 2016 at city campus, CUPB.
Prof. Rup Lal, University of Delhi, New Delhi
Prof. Rana P. Singh, School of Life Sciences, Jawaharlal Nehru University, New Delhi
Prof. Rajat Sandhir, Panjab University, Chandigarh

Centre for Economics

- Invited Talk by Dr. Pralok Gupta, Assistant Professor, Indian Institute of Foreign Trade, NewDelhi on Indian Services Trade, 10th April, 2015.
- On 10 March, 2016, the Centre for Economic Studies organized an Educational Trip for all students of the Centre (M.A. / M.Phil. / Ph.D) and faculty members.
- A total of 45 people visited Guru Nanak Dev Thermal Plant, Bathinda and Guru Hargovind Thermal Plant, Bathinda.

Centre for Mathematics and Statistics

- Guest lectures by **Dr. Inder Bir Singh Passi, Honorary Professor, Department of Mathematics, IISER, Mohali** on the topic "**Galois Theory**" from 5th March-6th March, 2016.
- Guest lectures by **Dr. A. N. Gill, Professor, Department of Statistics, Panjab University, Chandigarh** on the topic "**Reliability Theory, Estimation and Testing of Hypothesis**" from 5th March-8th March, 2016.

Centre for Comparative Literature

- **An extension lecture by Prof. Ahmad Mahfooz, Professor, department of Urdu, Jamia Millia Islamia University, New Delhi, entitled Classical Urdu Poetry with Special Reference to Mir Taqi Mir was organised by the Centre for Comparative Literature in February 8, 2016.**

Centre for Biochemistry and Microbial Sciences

Seminars organized by the centre

- Invited talk "Holistic watershed development paradigm for rural development: a Samaj Pragati Sahayog endeavour" by Prof. Debashis Banerji on 09/03/2016
- Liquid biopsy to help guide cancer treatment" by Dr. Azeet Narayan, Associate Research Scientist, Department of Therapeutic Radiology, Yale University School of Medicine, USA on 08/03/2016

Centre for Law

Hon'ble VC felicitating S. Bhupinder Singh, DSP, Vigilance

Vigilance Awareness Week, 2015

Theme
Preventive Vigilance as a tool of Good Governance

S. Gurmeet Singh, SSP, Vigilance and Sh. Sumeet Jarangal, IAS addressing the gathering

Human Rights Awareness Programme, November 22, 2015

An awareness Programme was organized on Human Rights on Nov. 22, 2015 to sensitize the students about Human Rights.

Constitution Day, 2015

National Youth Day January 12, 2016

Prof. R.K. Mahajan, Swami Vivekanand Study Circle, Bathinda addressing the gathering on the occasion of Birth Anniversary of Swami Vivekanand on the topic 'Relevance of Swami Vivekanand's Philosophy in cotemporary World. Prof. P.Ramarao, Dean Academic Affairs also spoke on the occasion.

National Voters Day, January 25, 2016

Learning Beyond Syllabus Through Extension Activities

Democracy is best available form of govt, say scholars

INT'L DAY FOR DEMOCRACY

TRIBUNE NEWS SERVICE

BATHINDA, SEPTEMBER 15

The Central University of Punjab celebrated International Day for Democracy under the guidance of Vice Chancellor Prof RK Kohli.

In the beginning, Dr Puneet Pathak, assistant professor, Centre for Law, while introducing the students with the reasons of celebrating the day, said September 15 had been declared as International Day for Democracy by the United Nations with the objective to create awareness among the people around the world to imbibe democratic values in their life.

Dr Deepak Kumar Chauhan shared his ideas on transformation from monarchy to republic and democratic form of government.

He said democracy was the best available form of government in which the people get a fair opportunity to participate in the process of governance, provided they use their power to vote cautiously.

The basic tenets of democracy — liberty and equality — enrich the life of an individual and promote brotherhood. Dr HK Arora expressed his concern over the present state of awareness among the masses while appreciating democracy as the best system.

He referred to the idea that the people in a nation get the government they deserve.

The students raised their queries about the methods for improving the state of affairs and strengthen democracy.

Dr Tarun Arora also expressed his views on the functioning of democracy.

The Tribune 16/9/15 P(ii)

National Seminar on 'Social Justice: Politico Legal Milieu' March 2, 2015 (Inaugural Session)

Prof. (Dr.) Balram Gupta, Director, Chandigarh Judicial Academy, Chief Guest (R) of Inaugural Session.

Total Registered Participants: 152

Paper Presentations: 20

Poster Presentation: 16

Prof. D.K. Sharma, Dean, Law, BHU, Keynote Speaker.

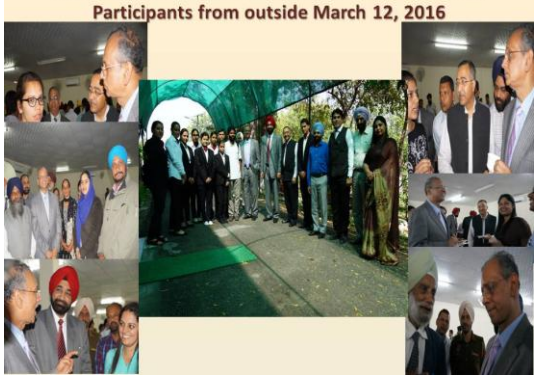
National Seminar on 'Social Justice: Politico Legal Milieu'

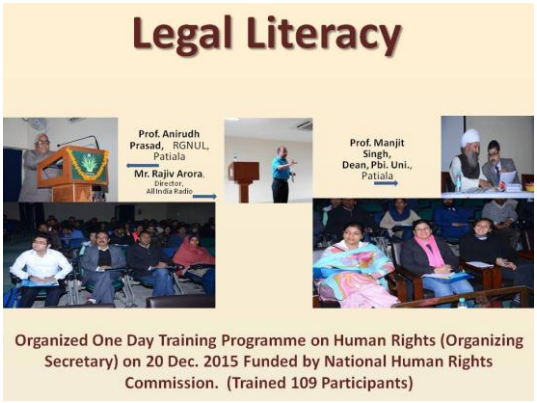
National Seminar on 'Social Justice: Politico Legal Milieu'

Exchanging Ideas and Live Interactions

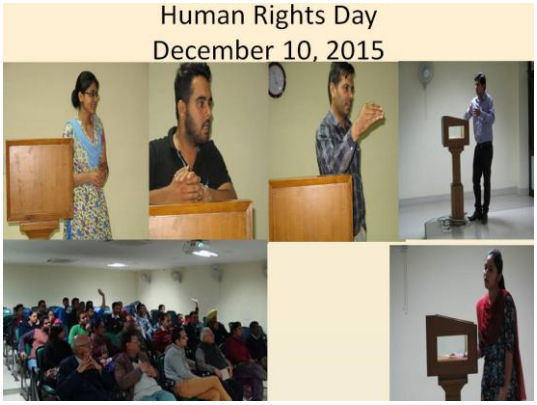
'Understanding Reservation: Empowerment of the Deprived' special Lecture by Hon'ble Mr. Justice K. Kannan March 12, 2016 :

Hon'ble Mr. Justice K. Kannan Interacting with the Participants from outside March 12, 2016




Legal Literacy
Prof. Anirudh Prasad, RGNUL, Patiala
Mr. Rajiv Arora, Director, All India Radio
Prof. Manjit Singh, Dean, Pbi. Uni., Patiala
Organized One Day Training Programme on Human Rights (Organizing Secretary) on 20 Dec. 2015 Funded by National Human Rights Commission. (Trained 109 Participants)


Consultancy and Legal Literacy


Human Rights Day
December 10, 2015


Legal Literacy Through Extension Activities of the Centre
Recently the Centre for Law received the grant of Rs. 4 Lakh from National Commission for Women for conducting three Training Programme.
Dr. Puneet Pathak has organized an Awareness Progamme under this Grant on March 8-9, 2016 wherein approximate 105 participants participated.
महिलाओं के लिए कानून कई पर होता कुछ नहीं
Scholars focus on dignity of life, equality before law

Annexure 1

PUBLICATIONS BY CUPB FACULTY IN JOURNALS OF IMPACT FACTOR

Centre for Chemical Sciences

Dr. Rajesh Kumar

S. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Jain, R., Kumar, R., Kumar, S., Chhabra, R., Agarwal, M. , and Kumar, R. (2015) Analysis of the pH-Dependent Stability and Millisecond Folding Kinetics of Horse Cytochrome *c*. *Archive of Biochemistry and Biophysics* 585, 52-63	3.02
2.	Kumar, R., Sharma, D., Jain, R., Kumar, S., and Kumar, R. (2015) Role of macromolecular crowding and salt ions on the structural-fluctuation of a highly compact configuration of carbonmonoxycytochrome c. *Biophysical Chemistry* 207, 61-73.	2.0
3.	Jain, R. Sharma, D., Kumar, S., and Kumar, R. (2014) Factor defining the effects of glycine betaine on the thermodynamic stability and internal dynamics of horse cytochrome c, *Biochemistry* 53(32) (2014) 5221-5235.	3.02
4.	Kumar, S., Sharma, D., Kumar, R. and Kumar, R., (2014) Electrostatic effects controls the stability and iron release kinetics of ovotransferrin, *J. Biol. Inorg. Chem.*, 19(6) 1009-1024.	2.54
5.	Kumar, S., Sharma, D., and Kumar, R. (2014) Effect of urea and alkylureas on the stability and structural fluctuation of the M80-containing ω-loop of horse cytochrome *c*", Biochimica et Biophysica Acta, 1844(3) 641–655.	2.75
6.	Jain, R., Kaur, S., and Kumar, R. (2013) Guanidine hydrochloride-induced alkali-molten globule model of horse ferrocytochrome c, *Journal of Biochemistry*, 153(2) 161-177.	2.58
7.	Jain, R., Sharma, D., and Kumar, R. (2013) Effects of Alcohols on the Stability and Low-Frequency Local Motions that Control the Slow Changes in Structural Dynamics of Ferrocytochrome c, *Journal of Biochemistry*, 154 (4)	2.58
8.	Kumar,R., Jain, R., and Kumar, R. (2013) Viscosity-Dependent Structural Fluctuation of the M80-Containing Ω-Loop of Horse Ferrocytochrome c, *Chemical Physics*, 418 57-64.	1.65
9.	Kumar, R., and Mauk, G. A. (2012) Protonation and Anion Binding Control the Kinetics of Iron Release from Human	3.3

	Transferrin, *J. Phys. Chem. B*, 116(12) 3795-3807.	
10.	Kumar, R., and Mauk, G. A. (2009) Atypical Effects of Salts on the Stability and Irons Release Kinetics of Human Serum Transferrin, *J. Phys. Chem. B.*, 113(36)12400-12409.	3.3
11.	Kumar, R., and Mauk, G. A. (2009) Iron Release from Human Transferrin in the Absence of Chelators Involves Five Kinetic Steps at Acidic pH, J. Biol. Inorg. Chem.14, S185-S224.	2.54
12.	Kumar, R., and Bhuyan, A.K. (2009) Entropic Stabilization of Myoglobin by Subdenaturing Concentrations of Guanidine Hydrochloride, *J. Biol. Inorg. Chem.*, 14(1) 11-21.	2.54
13.	Kumar, R., and Bhuyan, A.K. (2008) Viscosity Scaling for the Glassy Phase of Protein Folding, *J. Phys. Chem. B* 112(39) 12549-12554.	3.3
14.	Yadaiah, M. Kumar, R., and Bhuyan, A.K (2007) Glassy dynamics in the folding landscape of cytochrome c: Detected by laser photolysis, *Biochemistry*, 46(9) 2545-2551.	3.02
15.	Kumar, R., and Bhuyan, A.K. (2007) Effect of guanidine hydrochloride on stability and dynamics of myoglobin, *J. Biol. Inorg. Chem.*, 112, S223-S230.	2.54
16.	Kumar, R., Prabhu, N.P., Rao, D. K., Bhuyan, A.K., (2006) The Alkali Molten Globule State of Horse Fericytochonne c: Observation of Cold Denaturation, *J. Mol. Biol.*, 364(3) 483-495.	4.33
17.	Rao, D. K., Kumar, R., Yadaiah, M., and Bhuyan, A.K., (2006) *The Alkali Molten Globule State of Ferrocytochrome c: Extraordinary Stability, Persistent Structure, and Constrained Overall Dynamics*, *Biochemistry*, 45(10), 3412-3420.	3.02
18.	Kumar, R., Prabhu, N.P., and Bhuyan, A. K., (2005) Ultrafast Events in the Folding of Ferrocytochrome c, *Biochemistry*, 44 (26) 9359-9367.	3.02
19.	Kumar, R., and Bhuyan, A.K. (2005) Two-state Folding of Horse Ferrocytochrome c: Analyses of Linear Free Energy Relationship, Chevron Curvature, and Stopped-Flow Burst Relaxation Kinetics, *Biochemistry*, 44(8) 3024-3033.	3.02
20.	Prabhu, N.P., Kumar, R., and Bhuyan, A.K. (2004) Folding barrier in horse cytochrome c: support for a classical folding pathway, *J. Mol. Biol.*, 337(1) 195-208.	4.33
21.	Kumar, R.,, N. Prabhu, N.P Yadaiah, M., and Bhuyan, A.K. (2004) Protein stiffening and entropic stabilization in the subdenaturing limit of guanidine hydrochloride", *Biophysical J.*, 87(4) 2656- 2662.	3.97
22.	Bhuyan, A.K., and Kumar, R. (2002) Kinetic barriers to the folding of horse cytochrome c in the reduced state, *Biochemistry*, 41(42) 12821-12834.	3.02

Centre for Pharmaceutical Sciences & Natural Products

Dr. Rupesh S. Devan

S. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Devan, R. S. Patil, R. A. Lin, J. H. and Ma, Y. R. (2012). One-dimensional metal-oxide nanostructures: Recent developments in synthesis, characterzations and applications. *Adv. Funct. Mater.* 22(16), 3326-3370.	11.805
2.	Dalavi, D. S. Devan, R. S. Patil, R. S. Ma, Y. R. Kang, M. G. Kim, J. H. and Patil, P. S. (2013). Electrochromic properties of dandelion flower like nickel oxide thin films. *J. Mater. Chem. A.* 1(4), 1035-1039.	7.443
3.	Devan, R. S. Lin, J. H. Y. J. Huang, C. C. Yang, Liou, Y. and Ma, Y. R. (2011). Two-dimensional single-crystalline Zn hexagonal nanoplates: a size-controllable synthesis and x-ray diffraction study. *Nanoscale.* 3(10), 4339-4345.	7.394
4.	Lin, J. H. Patil, R. A. Devan, R. S. Liu, Z. A. Wang, Y. P. Ho, C. H. Liou, Y. and Ma, Y. R. (2014). Photoluminescence mechanisms of metallic Zn nanospheres, semiconducting ZnO nanoballoons, and metal-semiconductor Zn/ZnO nanospheres. *Sci. Rep.* 4, 6967.	5.578
5.	Patil, R. A. Devan, R. S. Lin, J. H. Liou, Y. and Ma, Y. R. (2013). An efficient methodology for measurement of the average electrical properties of single one-dimensional NiO nanorods. *Sci. Rep.* 3, 3070.	5.578
6.	Patil, R. A. Devan*, R. S. Liou, Y. and Ma*, Y. R. (2016) Efficient electrochromic smart windows of one-dimensional pure brookite TiO_2 nanoneedles. *Sol. Energy Mater. Solar Cells* 147, 240-245.	5.337
7.	Patil, R. A. Devan, R. S. Lin, J. H. Ma, Y. R. Patil, P. S. and Liou, Y. (2013). Efficient electrochromic properties of high-density and large-area arrays of one-dimensional NiO nanorods. *Sol. Energy Mater. Solar Cells* 112, 91-96.	5.337
8.	Devan, R. S. Ho, W. D. Lin, J. H. Wu, S. Y. Ma, Y. R. Lee, P. C. and Liou, Y. (2008). X-ray diffraction study of a large-scale and high-density array of one-dimensional crystalline tantalum pentoxide nanorods. *Cryst. Growth Design* 8(12), 4465-4468.	4.891
9.	Kakade, S. G. Ma, Y. R. Devan, R. S. Kolekar, Y. D. and Ramana, C. V (2016). Dielectric, Complex Impedance and Electrical Transport Properties of Erbium (Er^{3+}) Ion Substituted Nanocrystalline, Cobalt-Rich Ferrite (Co1.1Fe1.9-xErxO4). *J. Phys. Chem. C.* Accepted.	4.772
10.	Lin, J. H. Patil, R. A. Wu, M. A. Yu, L. G. Liu, K. D. Gao, W. T. Devan, R. S. Ho, C. H. Liou, Y. and Ma, Y. R. (2014). Large-area nanoscale farmland-like surfaces of onedimensional NbO_2 nanobuds	4.696

	with multi-growth directions: Studies on the purple-blue photoluminescence and low-field electron emissions. *J. Mater Chem C.* 2, 8667-8672.	
11.	Dalavi, D. S. Devan, R. S. Patil, Patil, R. A. R. S. Ma, Y. R. Sadale, S. B. Kim, I. Y. Kim, J. H. and Patil, P. S. (2013). Efficient electrochromic performance of nanoparticulate WO_3 thin films. *J. Mater. Chem. C.* 1(23), 3722-3728.	4.696
12.	Pawar, S. A. Devan, R. S. Patil, D. S. Burungale, V. V. Bhat, T. S. Mali, S. S. Shin, S. W. Ae, J. E. Hong, C. K. Ma, Y. R. Kim, J. H. and Patil, P. S. (2014). Hydrothermal growth of photoelectrochemically active titanium dioxide cauliflower-like nanostructures. *Electrochim. Acta* 117, 470-479.	4.504
13.	Pawar, S. A. Patil, D. S. Patil, S. K. Awale, D. V. Devan, R. S. Ma, Y. R. Kolekar, S. S. Kim, J. H. and Patil, P. S. (2014). Thiocyanate functionalized ionic liquid electrolyte for photoelectrochemical study of cadmium selenide pebbles. *Electrochim. Acta* 148, 310-316.	4.504
14.	Pawar, S. A. Devan, R. S. Patil, D. S. Moholkar, A. V. Gang, M. G. Ma, Y. R. Kim, J. H. and Patil, P. S. (2013). Improved solar cell performance of chemo-synthesized cadmium selenide pebbles. *Electrochim. Acta* 98, 244-254.	4.504
15.	Mali, S. S. Devan, R. S. Ma, Y. R. Betty, C. A. Bhosale, P. N. Panmand, R. P. Kale, B. B. Jadkar, S. R. and Patil, P. S. (2013). Effective light harvesting in CdS nanoparticle sensitized rutile TiO_2 microspheres. *Electrochim. Acta* 90. 666-672.	4.504
16.	Patil, D. S. Pawar, S. A. Devan, R. S. Ma, Y. R. Gang, M. G. Kim, J. H. and Patil, P. S. (2013). Electrochemical supercapacitor electrode material based on polyacrylic acid/poly-pyrrole/silver composite. *Electrochim. Acta* 105, 569-577.	4.504
17.	Tarwal, N. L. Devan, R. S. Ma, Y. R. Patil, R. S. Karanjkar, M. M. and Patil, P. S. (2012). Spray deposited localized surface plasmonic Au-ZnO nanocomposites for solar cell application. *Electrochim. Acta* 72, 32-39.	4.504
18.	Mali, S. S. Patil, B. M. Betty, C. A. Bhosale, P. N. Oh, Y. W. Jadkar, S. R. Devan, R. S. Ma, Y. R. and Patil, P. S. (2012). Novel synthesis of kesterite Cu_2ZnSnS_4 nanoflakes by successive ionic layer adsorption and reaction technique: characterization and application. *Electrochim. Acta* 66, 216-221.	4.504
19.	Shaikh, J. S. Pawar, R. C. Devan, R. S. Ma, Y. R. Salvi, P. P. Kolekar, S. S. and Patil, P. S. (2011). Synthesis and characterization of Ru doped CuO thin films for supercapacitor based on Bronsted acidic ionic liquid. *Electrochim. Acta* 56, 2127-2134.	4.504
20.	Devan, R. S. Lin, C. L. Gao, S. Y. Cheng, C. L. Liou, Y. and Ma, Y. R. (2011). Enhancement of green-light photoluminescence of Ta_2O_5 nanoblock stacks. *Phys. Chem. Chem. Phys.* 13(29). 13441-13446.	4.493

21.	Patil, D. S. Shaikh, J. S. Pawar, S. A. Devan, R. S. Ma, Y. R. Moholkar, A. V. Kim, J. H. Kalubarme, R. S. Park, C. J. and Patil, P. S. (2012). Investigation on silver/polyaniline electrodes for electrochemical supercapacitor. *Phys. Chem. Chem. Phys.* 14(34), 11886–11895.	4.493
22.	Mali, S. S. Desai, S. K. Kalagi, S. S. Betty, C. A. Bhosale, P. N. Devan, R. S. Ma, Y. R. and Patil, P. S. (2012). PbS quantum dot sensitized anatase TiO_2 nanocorals for quantum dot-sensitized solar cell applications. *Dalton Transact.* 41(20), 6130-6136.	4.197
23.	Mali, S. S. Betty, C. A. Bhosale, P. N. Devan, R. S. Ma, Y. R. Kolekar, S. S. and Patil, P. S. (2012). Hydrothermal synthesis of rutile TiO_2 nanoflowers using Bronsted Acidic Ionic Liquid [BAIL]: Synthesis, characterization and growth mechanism. *Cryst. Eng. Comm.* 14(6), 1920-1924.	4.034
24.	Lin, J. H. Huang, Y. J. Su, Y. P. Liu, C. A. Devan, R. S. Ho, C. H. Wang, Y. P. Lee, H. W. Chang, C. M. Liou, Y. and Ma, Y. R. (2012). Room-temperature wide-range photoluminescence and semiconducting characteristics of two-dimensional pure metallic Zn nanoplates. *RSC Adv.* 2(5), 2123-2127.	3.840
25.	Devan, R. S. Ho, W. D. Chen, C. H. Shiu, H. W. Ho, C. H. Cheng, C. L. Wu, S. Y. Liou, Y. and Ma, Y. R. (2009). High room-temperature photoluminescence of one-dimensional Ta_2O_5 nanorod arrays. *Nanotechnology* 20(44), 445708.	3.821
26.	Devan, R. S. Lin, J. H. Ho, W. D. Wu, S. Y. Liou, Y. and Ma, Y. R. (2010). Investigation of high-temperature phase transformation in one-dimensional Ta_2O_5 nanorods. *J. Appl. Crystallograp.* 43(5), 1062-1067.	3.720
27.	Devan, R. S. Ho, W. D. Wu, S. Y. and Ma, Y. R. (2010). Low-temperature phase transformation and phonon confinement in 1D Ta_2O_5 nanorod. *J. Appl. Crystallograp.* 43(3), 498-503.	3.720
28.	Devan, R. S. Gao, S. Y. Ho, W. D. Lin, J. H. Ma, Y. R. Patil, P. S. and Liou, Y. (2011). Electrochromic properties of large-area and high-density arrays of transparent one-dimensional β-Ta_2O_5 nanorods on indium-tin-oxide thin-films. *Appl. Phys. Lett.* 98, 133117.	3.302
29.	Lin, J. H. Chiu, H. C. Lin, Y. R. Wen, T. K. Patil, R. A. Devan, R. S. Chen, C. H. Shiu, H. W. Liou, Y. and Ma, Y. R. (2013). Electrical and chemical characteristics of probe-induced two-dimensional SiO_x protrusion layers. *Appl. Phys. Lett.* 102(3), 031603.	3.302
30.	Patil, D. S. Shaikh, J. S. Dalavi, D. S. Karanjkar, M. M. Devan, R. S. Ma, Y. R. and Patil, P. S. (2011). An Mn doped polyaniline electrode for electrochemical supercapacitor. *J. Electrochem. Soc.* 158(6), A653-A657.	3.266
31.	Devan, R. S. Kolekar, Y. D. and Chougule, B. K. (2008).	2.999

	Magnetoelectric effect and electrical properties in BTO + $Ni_{0.93}Co_{0.02}Cu_{0.05}Fe_2O_4$ particulate composites. *J. Alloys Comp.* 461(1-2), 678-683.	
32.	Patil, D. S. Pawar, S. A. Patil, S. K. Salavi, P. P. Kolekar, S. S. Devan, R. S. Ma, Y. R. Kim, J. H. Shin, J. C. and Patil, P. S. (2015). Electrochemical performance of potentiodynamically deposited polyaniline electrodes in ionic liquid. *J. Alloys Comp.* 646, 1089-1095.	2.999
33.	Burange, N. M. Chougule, S. S. Patil, D. R. Devan, R. S. Kolekar, Y. D. and Chougule, B. K. (2009). Studies on structural, electrical and magnetic properties of (y)$Ni_{0.5}Zn_{0.3}Co_{0.2}Fe_2O_4$ + (1-y) $BaTiO_3$ composites. *J. Alloys Comp.* 479(1-2), 569-573.	2.999
34.	Kharabe, R. G. Devan, R. S. and Chougule, B. K. (2008). Structural and electrical properties of Cd substituted Li-Ni ferrites. *J. Alloys Comp.* 463, 67-72.	2.999
35.	Kulkarni, S. R. Devan, R. S. and Chougule, B. K. (2008). Electrical and magnetoelectric properties of $Ni_{0.8}Co_{0.1}Cu_{0.1}Fe_2O_4$ + $PbZr_{0.5}Ti_{0.5}O_3$ composites. *J. Alloys Comp.* 455, 336-339.	2.999
36.	Lokare, S. A. Devan, R. S. and Chougule, B. K. (2008) . Structural analysis and electrical properties of ME composites. *J. Alloys Comp.* 454, 471-475.	2.999
37.	Patil, D. S. Pawar, S. A. Devan, R. S. Mali, S. S. Gang, M. G. Ma, Y. R. Hong, C. K. Kim, J. H. and Patil, P. S. (2014). Polyaniline based electrodes for electrochemical supercapacitor: Synergistic effect of silver, activated carbon and polyaniline. *J. Electroanalyt. Chem.* 724, 21–28.	2.729
38.	Devan, R. S. Dhakras, D. R. Vichare, T. G.. Joshi, A. S Jigajeni, S. R. Ma, Y. R. and Chougule, B. K. (2008). $Li_{0.5}Co_{0.75}Fe_2O_4$ + $BaTiO_3$ particulate composites with coupled electromagnetic properties. *J. Phys. D:Appl. Phys.* 41, 105010.	2.721
39.	Devan, R. S. Deshpande, S. B. and Chougule, B. K. (2007). Ferromagnetic and ferroelectric properties of (x)$BaTiO_3$ + (1-x)$Ni_{0.94}Co_{0.01}Cu_{0.05}Fe_2O_4$ composite. *J. Phys. D: Appl. Phys.* 40 1864-1868.	2.721
40.	Patil, R. B. Jatratkar, A. A. Devan, R. S. Ma, Y. R. Puri, R. K. Puri, V. Yadav, J. B. (2015). Effect of pH on the properties of chemical bath deposited polyaniline thin film. *Appl. Surf. Sci.* 327, 201-204.	2.711
41.	Pawar, S. B. Shaikh, J. S. Devan, R. S. Ma, Y. R. Harnath, D. Bhosale, P. N. and Patil, P. S. (2011). Facile and low cost chemosynthesis of nanostructured PbS with tunable optical properties. *Appl. Surf. Sci.* 258(5), 1869-1875.	2.711
42.	Devan, R. S. Kanamadi, C. M. Lokare, S. A. and Chougule, B. K. (2006). Electrical properties and magnetoelectric effect measurement in (x)$Ni_{0.8}Co_{0.2}Fe_2O_4$ + (1-x)$Ba_{0.9}Pb_{0.1}Ti_{0.9}Zr_{0.1}O_3$ ME composites. *Smart Mater. Struct.* 15, 1877-1881.	2.502

43.	Deshpande, N. G. Gudage, Y. G. Devan, R. S. Ma, Y. R. Lee, Y. P. and Sharma R. (2009). Room-temperature gas sensing studies of polyaniline thin films deposited on different substrates. *Smart Mater. Struct.* 18, 095010.	2.502
44.	Kharabe, R. G. Devan, R. S. Kanamadi, C. M. and Chougule, B. K. (2006). Dielectric properties of mixed Li-Ni-Cd ferrites. *Smart Mater. Struct.* 15, N36-N39.	2.502
45.	Patil, D. S. Pawar, S. A. Devan, R. S. Ma, Y. R. Bae, W. R. Kim, J. H. and Patil, P. S. (2014) . Improved electrochemical performance of activated carbon/polyaniline composite electrode. *Mater. Lett.* 117, 248-251.	2.489
46.	Dalavi, D. S. Devan, R. S. Patil, R. S. Ma, Y. R. and Patil, P. S. (2013). Electrochromic performance of sol-gel deposited NiO thin film. *Mater. Lett.* 90(1), 60-63.	2.489
47.	Lokare, S. A. Devan, R. S. Patil, D. R. Kolekar, Y. D. Patankar, K. K. and Chougule, B. K. (2007). Electrical properties of $Ni_{0.93}Co_{0.02}Mn_{0.05}Fe_2O_4$ + $BaTiO_3$ ME Composites. *J. Mater. Sci.* 42, 10250-10253.	2.371
48.	Devan, R. S. Kolekar, Y. D. and Chougule, B. K. (2006). Effect of cobalt substitution on the properties of nickel-copper ferrite. *J. Phys. Condens. Matt.* 18, 9809-9821.	2.346
49.	Pawbake, A. Mayabadi, A. Waykar, R. Kulkarni, R. Jadhavar, A. Waman, V. Parmar, J. Bhattacharyya, S. Ma, Y. R. Devan, R. S. Pathan, H. and Jadkar, S. (2016). Growth of boron doped hydrogenated nanocrystalline cubic silicon carbide (3C-SiC) films by Hot Wire-CVD. *Mater. Res. Bull.* 76, 205-215.	2.288
50.	Lokare, S. A. Patil, D. R. Devan, R. S. Chougule, S. S. Kolekar, Y. D. and Chougule, B. K. (2008). Electrical conduction, dielectric behaviour and magnetoelectric effect in (x)$BaTiO_3$ + (x)$Ni_{0.94}Co_{0.01}Mn_{0.05}Fe_2O_4$ ME composites. *Mater. Res. Bull.* 43, 326-332.	2.288
51.	Devan, R. S. Ma, Y. R. and Chougule, B. K. (2009). Effective dielectric and magnetic properties of (Ni-Co-Cu)ferrite/BTO composites. *Mater. Chem. Phys.* 115(1), 263-268.	2.259
52.	Patil, D. R. Lokare, S. A. Devan, R. S. Chougule, S. S. Kanamadi, C. M. Kolekar, Y. D. and Chougule, B. K. (2007). Studies on electrical and dielectric properties of $Ba_xSr_{1-x}TiO_3$. *Mater. Chem. Phys.* 104(2-3), 254-257.	2.259
53.	Devan, R. S. and Chougule, B. K. (2007). Effect of composition on coupled electric, magnetic and dielectric properties of two phase particulate magnetoelectric composite. *J. Appl. Phys.* 101, 014109	2.183
54.	Tarwal, N. L. Rajgure, A. V. Inamdar, A. I. Devan, R. S. Kim, I. Y. Suryavanshi, S. S. Ma, Y. R. Kim, J. H. and Patil, P. S. (2013) . Growth of multifunctional ZnO thin films by spray pyrolysis technique. *Sens. Actuat. A* 199, 67-73.	1.903

55.	Devan, R. S. Gao, S. Y. Lin, Y. R. Cheng, S. R. Hsu, C. E. Chen, C. H. Shiu, H. W. Liou, Y. and Ma, Y. R. (2011). Scanning photoemission spectromicroscopic study of 4-nm ultrathin $SiO_{3.4}$ protrusions probe-induced on the native SiO_2 layer. *Micro. Microanal.* 17(6), 944-949.	1.877
56.	Devan, R. S. Lokare, S. A. Patil, D. R. Chougule, S. S. Kolekar, Y. D. and Chougule, B. K. (2006). Electrical conduction and magnetoelectric effect of (x)$BaTiO_3$ + (1-x)$Ni_{0.92}Co_{0.03}Cu_{0.05}Fe_2O_4$ composites in ferroelectric rich region. *J. Phys. Chem. Solids* 67(7), 1524-1530.	1.853
57.	Jadhav, P. A. Devan, R. S. Kolekar, Y. D. and Chougule, B. K. (2009). Structural, electrical and magnetic characterization of Ni-Cu-Zn ferrite synthesized by citrate precursor method. *J. Phys. Chem. Solids* 70, 396-400.	1.853
58.	Patil, D. R. Lokare, S. A. Devan, R. S. Chougule, S. S. Kolekar, Y. D. and Chougule, B. K. (2007). Dielectric properties and magnetoelectric effect of (x)$NiFe_2O_4$ +(1-x)$Ba_{0.8}Sr_{0.2}TiO_3$ composites. *J. Phys. Chem. Solids* 68(8), 1522-1526.	1.853
59.	Devan*, R. S. Ma, Y. R. Kim, J. H. Bhattacharya, R. N. Ghosh, K. C. (2015). Editorial: Functional Nanomaterials for Energy Applications. *J. Nanomater.* 501, 131965.	1.644
60.	Pawar, S. A. Patil, D. S. Pawar, U. T. Devan, R. S. Karanjkar, M. M. Ma, Y. R. Shin, S. W. Kim, J. H. and Patil, P. S. (2015). Photoelectrochemical solar cell based on surfactant mediated rutile TiO_2 nanorods. *J. Mater. Sci.: Mater. Electron.* 26, 2595-2604.	1.569
61.	Bhat, T. S. Devan, R. S. Mali, S. S. Kamble, A. S. Pawar, S. A. Kim, I. Y. Ma, Y. R. Hong, C. K. Kim, J. H. and Patil, P. S. (2014). Photoelectrochemically active surfactant free single step hydrothermal mediated titanium dioxide nanorods. *J. Mater. Sci.: Mater. Electron.* 25, 4501-4511.	1.569
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Centre for Animal Sciences

Dr. Jyoti Parkash

S. No	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Andrea Messina, Fanny Langlet, Konstantina Chachlaki, Juan Roa, S Rasika, Nathalie Jouy, Sarah Gallet, Francisco Gaytan, **Jyoti Parkash**, Manuel Tena-Sempere, Paolo Giacobini, Vincent Prevot **2016** MicroRNAs regulate production of hypothalamic GnRH before puberty. **Accepted in in Nature Neuroscience**.	16.09
2.	Irene Cimino, Filippo Casoni, Andrea Messina, Jyoti Parkash, Soazik P Jamin, Sophie Catteau-Jonard, Francis Collier, Marc Baroncini, Didier Dewailly, Pascal Pigny, Mel Prescott, Rebecca Campbell, Allan Herbison, Vincent Prévot, and Paolo Giacobini 2016: Novel Role for Anti-Müllerian Hormone in the Regulation of GnRH Neuron Excitability and Hormone Secretion. **Nature Comm. 12; 7: 10055.**	11.77

Dr. R.K. Chaitanya

S. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Venkat Rao, V., Jacob T.N., **^Chaitanya, R.K.**, Senthilkumaran, B., Aparna Dutta-Gupta. Cloning and characterization of a riboflavin-binding hexamerin from the larval fat body of a lepidopteran stored grain pest, Corcyra cephalonica. Comparative Biochemistry and Physiology: B Biochemistry & Molecular Biology (1096-4959) (Accepted, In press) 2016	1.55
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Dr. Sanjeev Kumar

S.No	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
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Centre for Biochemistry & Microbial Sciences

Prof. Ramakrishna Wusirika

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Pidatala VR, Li K, Sarkar D, **Ramakrishna W**, Datta R. (2016) Identification of biochemical pathways associated with lead tolerance and detoxification in *Chrysopogon zizanioides* L. Nash (Vetiver) by metabolic profiling. Environmental Science and Technology 50:2530-2537	5.5
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Dr. Monisha Dhiman

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
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Dr. Malkhey Verma

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Dr. Pramod Kumar Kushawaha

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
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4	Gupta R *, **Kushawaha PK ***, Samant M, Jaiswal AK, Baharia AK, Dube A (2012). Treatment of *Leishmania donovani*- infected hamsters with miltefosine: analysis of cytokine mRNA expression by real- time PCR, lymphoproliferation, nitrite production and antibody response. **J Antimicrob Chemother**. 2012 Feb;67(2):440-*3.** **Equally contributed**.	5.33
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Dr. Manju Jain, DST-SERB, Fast Track Fellow

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
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Centre for Computational Sciences

Dr. Vijaykumar Yogesh Muley

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
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3	Muley V.Y. and Ranjan A. Evaluation of Physical and Functional Protein-Protein Interaction Prediction Methods for Detecting Biological Pathways, PLoS ONE, 8(1):e54325	3.23
4	Muley V.Y. and Ranjan A. Effect of Reference Genome Selection on the Performance of Computational Methods for Genome-Wide Protein-Protein Interaction Prediction, PLoS ONE 7(7): e42057.7	3.23
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Centre for Mathematics and Statistics

Dr. Gauree Shankar

S. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
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2.	Gauree Shanker, On the Conformal Change of a Five-dimensional Finsler Space, *Differential Geometry - Dynamical Systems*, Vol. **15** (2013), 79-92.	1.073
3.	Gauree Shanker and Ravindra Yadav, On the Randers change of Exponential Metric, *Applied Sciences*, Vol. **15** (2013), 94-103	0.765
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Dr. Rajesh Kumar Gupta

S. No.	**Authors Name, Title, Journal Name, Volume, line number**	**Impact Factor**
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26.	Rajeev, Gupta, R.K. and Bhatia, S. S. (2015), Symmetry Analysis and Some Solutions of Gowdy Equation. Romanian Journal of Physics 60, 15 – 21	0.924
27.	Gupta, R. K., Vikas Kumar and Ram Jiwari (2015), Exact and	2.849

	Numerical Solutions of Coupled Short Pulse Equation with Time Dependent Coefficients. *Nonlinear Dynamic* 79, 455 – 464	
28.	Rajeev, Gupta, R.K. and Bhatia, S. S. (2015), Painlevé Analysis and Some Solutions of Variable Coefficients Benny Equation. *Parmana-Journal of Physics* 85, 1111-1122	0.649
29.	Nisha Goyal, A.M. Wazwaz and **R. K. Gupta,** "Applications of MAPLE Software to Derive Exact Solutions of Generalized Fifth – Order Korteweg – De Vries Equation with Time- Dependant Coefficients", *Romanian Reports in Physics* 68 (2016) 99-111 **(SCI, Publishing House of the Romanian Academy)**	1.517
30.	Rajeev, **R.K. Gupta** and S. S. Bhatia, "Invariant Solutions of Variable Coefficients Generalized Gardner Equation" *Nonlinear Dynamic* 83 (2016) 2103-2111 **(SCI, Springer)**	2.849
31.	Manjit Singh and **R. K. Gupta**, "Bäcklund transformations, Lax system, conservation laws and multisoliton solutions for Jimbo–Miwa equation with Bell-polynomials", *Communications in Nonlinear Science and Numerical Simulation* 37 (2016) 362-373. **(SCI, Elsevier)**	2.866

Dr. Sachin Kumar

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1	Sachin Kumar, "Painleve analysis and invariant solutions of Vakhnenko-Parkes (VP) equation with power law nonlinearity", Nonlinear dynamics. (2016) (Accepted)	2.849

Centre for Environmental Science and Technology

Prof. V. K. Garg

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Devi, P., Bajala, V., **Garg, V.K.,** Mor, S. and Ravindra, K. (2016). Heavy metal content in various types of candies and their daily dietary intake by children. **Environmental Monitoring and Assessment**; 188(2,): Article number 86, Pages 1-8 **[Springer]**	1.679
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3.	Yadav, Anoop and **Garg, V.K.** (2016). Influence of stocking density on the vermicomposting of an effluent treatment plant	2.828

	sludge amended with cow dung. **Environmental Science and Pollution Research** (In press, available online.) **[Springer].**	
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9.	Singh, Manbir, **Garg, V.K.,** Gautam, Y.P. and Kumar, A. (2015). Soil to rice grain transfer factor and radiological dose of 137Cs and 90Sr around NAPS, Narora, India. **J Radioanal Nucl Chem.,** 304(3): 1275-1283 **[Springer]**	1.03
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13.	**Garg, V.K.,** Yadav, P., Mor, S., Singh, B. and Pulhani, V. (2014).	1.748

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40.	Meena, A.K., Bansal, P., Kumar, S, Rao, M.M. and **Garg, V.K.** (2010). Estimation of heavy metals in commonly used medicinal plants: a market basket survey. **Environmental Monitoring and Assessment**: 170(1-4): 657-660. **(Springer)**	1.679
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51.	Gupta, Renuka and **Garg, V.K**. (2008). Stabilization of primary sewage sludge by vermicomposting**. Journal of Hazardous Materials.** 153 (3): 1023-1030 **[Elsevier].**	4.529
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88.	Kaushik, Priya and **Garg, V. K.** (2003). Vermicomposting of mixed textile mill sludge and cow dung with epigeic earthworm *Eisenia foetida*. **Bioresource Technology.** 90(3): 311 – 316. **[Elsevier]**	4.494
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Centre for Human Genetics and Molecular Medicine

Dr. Anjana Munshi

S. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1.	Das S, Roy S, Kaul S Jyothy A and **Munshi A** (2015) MTHFR Gene (C677t) Polymorphism in Ischemic Stroke, its Subtypes and Hemorrhagic Stroke in a South Indian Population ***Acta Medica International* 2(2):**28-33.	3.4

Centre for Law

Sr. No.	Authors Name, Title, Journal Name, Volume, line number	Impact Factor
1	Research Paper entitled "Impact of Laws for Prevention of Pollution from Crop Residue Burning: In Context to the State of Punjab" published in IRJMSH Vol 6 Issue 3 [Year 2015] ISSN 2277 – 9809 (0nline), 2348–9359 (Print)	0.98

Annexure 2

Publications of CUPB Faculty in Indexed Journals

Centre for Pharmaceutical Sciences & Natural Products

Dr. Pradeep Kumar

1. Selvam C, Thilagavathi R, Narasimhan B, Kumar P, Jordan BC, Ranganna K (2016). Computer-aided design of negative allosteric modulators of metabotropic glutamate receptor 5 (mGluR5): Comparative molecular field analysis of aryl ether derivatives. *Bioorganic & Medicinal Chemistry Letters*, 26(04), 1140-1144.
2. Deep A, Kumar P, Narasimhan B, Lim SM, Ramasamy K, Mishra RK, Mani V (2016) 2-Azetidinone derivatives: synthesis, antimicrobial, anticancer evaluation and QSAR studies. *Acta Poloniae Pharmaceutica - Drug Research*, 73(1), 65-78.
3. Deep A, Kumar P, Narasimhan B, Ramasamy K, Lim SM, Mani V, Mishra RK (2016). Synthesis, antimicrobial, anticancer evaluation and QSAR studies of thiazolidin-4-one derivatives. *Acta Poloniae Pharmaceutica - Drug Research*, 73(1), 93-106.

Centre for Animal Sciences

Dr. Anil K. Mantha

1. Bhakat, K., Sengupta, S., Adeniyi, V., Roychoudhury, S., Nath, S., Bellot, L., Feng, D., Mantha, A., Sinha, M., Qiu, S., & Luxon, B. (2016). Regulation of limited N-terminal proteolysis of APE1 in tumor via acetylation and its role in cell proliferation. *Oncotarget, 5*.

Centre for Plant Sciences

Dr. Felix Bast

1. BHUSHAN, S., MEHRA, R., RANI, P. AND BAST, F (2016)"DbIndAlgae: Online resource of Seaweeds of Indian coasts". Current Science (Accepted)
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Dr. Yogalakshmi K. N.

1. Anamika Das, Jatinder Randhawa and Yogalakshmi. K.N. (2016), "Comparative analysis of Laccase immobilization on magnetic iron nanoparticles using two activating agents: EDAC and Cyanuric Chloride". Indian Journal of Natural Sciences, Vol 6, Issue 35 Pp 10608-10615.
2. Leena, Yogalakshmi K N and Mahesh Kulharia. (2015) Phylogenetic analysis of viral protein 2 of blue tongue virus. International Journal of Bioinformatics and Biological Sciences (In Press)

Centre for Human Genetics and Molecular Medicine

Dr. Anjana Munshi

1. Panigrahia I, Kalra J, Goyada P, Khetarpal P and **Munshi A** (2016) Mutational analysis in Gaucher disease: implications in Genetic counseling and Management **. Accepted for Publication *Journal of Genetic Disorders & Genetic Reports.***

Centre for Classical and Modern Languages

Dr. Dinesh Babu P.

Babu P., Dinesh. "I was nothing but a slave whose will must and should surrender to his.": The Southern Slave Speaks in Harriet A. Jacobs' *Incidents in the Life of a Slave Girl, Written by Herself."* ***Research and Criticism*** (Journal of the Department of English, Banaras Hindu University.) 6 **(**2015):95-109 (ISSN 2229 – 3639).

Centre for Computer Science and Technology

Dr. Satwinder Singh

1. Singh Satvinder, Kaushal M.P. & Singh Satwinder. (2006), Reclamation and Management of Alkali Soils-A Decision Support System, Journal of Soil and water Conservation, Soil Conversation Society of India, Vol. 7 No. 2, pp. 25-32
2. Singh Satvinder, Kaushal M.P. & Singh Satwinder. (2006) Augmenting Ground Water Recharge Through Surface Drain, Journal Of Agricultural Engineering, Vol 43 No. 2
3. Mundra Tanvir, Singh Satwinder & Kahlon K.S. (2006), Microcontroller Based Power Supply, Journal Of Computer Science, New York, Vol. 2 No. 8 pp. 607-61.
4. Sharma Vandna, Singh Satwinder, Kahlon K.S. (2009), Comparative Performance Study of Improved Heap Sort Algorithm on Different Hardware, Journal of Computer Science Vol. 5. No. 7 pp. 476-478.
5. Singh, Satwinder, Kahlon, K.S. & Sandhu, Parvinder S. (2010), Re-engineering to analyze and measure object oriented paradigms, Information Management and Engineering (ICIME), 2010 The 2nd IEEE conference, pp. 472-478
6. Singh Satwinder, Mittal Punnet, Kahlon K.S. (2012), Empirical Model for Predicting High, Medium and Low Severity Faults using Object Oriented Metrics in Mozilla Firefox special issue Advanced Software Engineering and

Its Applications, IJCAT, Inderscience Publication , Vol 47, No. 2, pp. 110-124.

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9. Sharma Vandna, Singh Satwinder & Kahlon K.S. (2009), Performance Study of Improved Heap Sort Algorithm and Other Sorting Algorithms on Different Platforms, International Journal of computer Science and Network Secuity, Vol. 8 No. 4 pp. 101-105
10. Kaur, Jaswinder, Singh Satwinder; Kahlon K.S. & Bassi, Pourush. (2010), Neural Network-A Novel Technique for Software Effort Estimation, International Journal of Computer Theory and Engineering, Vol. 2 No. 1. pp. 1793-8201.
11. Kaur, Amandeep, Singh, Satwinde, Kahlon, K.S. Sandhu, Parvinder S. (2010), Empirical Analysis of CK & MOOD Metric Suit, Int. Journal of Innovation, Management and Technology, Vol.1, No 5, pp. 447-452
12. Singh Satwinder, Kahlon K.S. (2014), Effectiveness Of Encapsulation And Object-Oriented Metrics To Refactor Code And Identify Error Prone Classes Using Bad Smells, ACM SIGSOFT SEN, Vol 36 No. 5, pp. 1-11.
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15. Kapila, Heena & Singh Satwinder. (2013), Analysis of CK Metrics to predict Software Fault-Proneness using Bayesian Inference, International Journal of Computer Applications, Vol. 74, No 5, pp. 12-17
16. Kaur, Harshpreet, Singh Satwinder & Kaur Sarbjit. (2013), Empirical Analysis Of Open Source System For Predicting Smelly Classes, International Journal of Engineering, ESRSA Publication, Vol. 2 No. 3, pp. 1-4.
17. Kaur Sarbjit, Singh, Satwinder & Saberwal, H. K. (2013), A Quantitative Investigation Of Software Metrics Threshold Values At Acceptable Risk Level, International Journal of Engineering, ESRSA Publication, Vol. 2 No. 3, pp. 1-5.
18. Choudhary Navneet & Singh Satwinder. (2014), Enhancing CK Managerial Model of Design Effort using Object Oriented Design Metrics, Internatinal Journal of Applied Research in Computing, Vol. 2 No. 5, pp. 8-11.

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20. Kaur Jasmeet & Singh Satwinder. (2014), Reducing Time to Market of Software with Time Duration Empirical Model, International Journal of Computer Science and Information Technologies, Tech Science Publications, Vol 5. No. 1, pp. 682-685.
21. Garg Ranjna & Singh Satwinder. (2014), Identifying Clone Based Refactoring with Object Oriented Metrics approach, Internatinal Journal of Computer Application and Technology, Techno Publications, Vol. 1 No. 1, pp. 62-66
22. Kanwalpreet Kaur & Singh Satwinder. (2014), Optimized Test Case Prioritization with multi criteria for Regression Testing, International Journal of Advanced Research in Computer Engineering & Technology, Vol. 3, No. 4, pp. 1469-1473.
23. Singh Satwinder & Kaur Raminder. (2014), Clone Detection in UML Class Models using Class Metrics, SIGSOFT Software Engineering Notes, ACM, Vol. 39. No. 3, pp. 1-4.
24. Kaur Raminder & Singh Satwinder. (2014), Clone Detection in Software Source Code using Operational Similarity of Statements, SIGSOFT Software Engineering Notes, ACM, Vol. 39. No. 3, pp.1-4 May 2014.
25. Kapila, Heena, Singh Satwinder. (2014), Bayesian Inference to Predict Smelly classes Probability in Open source software, International Journal of Current Engineering and Technology, International Pess Corporation , USA, Vol. 4. No.3, pp. 1724-1728
26. Kanwalpreet Kaur & Satwinder Singh, Optimized Test Case Prioritization with multi criteria for Regression Testing, International Journal of Advanced Research in Computer Engineering & Technology, Vol. 3. No. 4, pp. 1469-1473.
27. Kanwalpreet Kaur & Satwinder Singh. (2014), Regression Testing Based on Comparing Fault Detection by multi criteria before prioritization and after prioritization, International Journal of Advanced Research in Computer Engineering & Technology, Vol. 3. No. 7, pp. 2481-2487,
28. Harinder Kaur & Satwinder Singh. (2012), Maintenance Model for Open Source Object Oriented Designs, International Journal of Engineering Research and Technology, Vol.1 No. 8.1-4
29. Kumar Balwinder, Singh Satwinder & Pavitdeep Singh. (2014), Analysis of Code Clone Detection using Object Oriented System and Neural Network, International Journal of Engineering Research and Technology, Vol. 3 No. 9, pp. 1386-1391
30. Singh Satwinder & Kahlon K.S. (2014), Object Oriented Software Metrics Threshold Values at Quantitative Acceptable Risk Level CSI Transaction on ICT, Vol. 2, No. 3, pp. 191-205

31. Khatri Neha & Singh Satwinder. (2014), Issues of Data Security and Privacy in Cloud Computing, International Journal of Software and Web Sciences, Vol 10, No. 1 pp. 47-52
32. Satwinder Singh Satwinder, Balwinder Kumar. (2015), Code Clone Detection and analysis using Software metrics and Neural Network- A Literature Review, International Journal of Computer Science Trend and technology
33. Bawa Amandeep & Singh Satwinder (2015), Analysis of Software System to Predict Antipattern with Bayesian Inference, International Journal of Computer Science and Communication Engineering, Vol 4 No. 3, pp. 4-6
34. Kaur Ashmeet & Singh Satwinder (2015), Impact of Coupling and Cohesion Metrics on Fault Tolerence Prediction, International Journal of Computer Science and Communication Engineering, Vol 4 No. 3 pp. 13-15

Centre for South and Central Asian Studies

Dr. Nishtha Kaushiki

1. Dr. Nishtha Kaushiki and Mr. Hilal Ramzan from Centre for South and Central Asian Studies (incl. Historical Studies) published a research paper titled, "Sino-Russo Strategic Synergy in International Politics and Emerging Contours of South Asian Equilibrium: An Indian Perspective" (Volume 22, Number 2, pp. 1-18, December 2015).

Centre for Economic Studies

Dr. Sandeep Kaur

1. Presented a paper entitled Has Bangladesh Explored is potential : Evidence from Gravity Model in First SANEM Annual Economists Conference, Dhaka, Bangladesh , February 20,2016.
2. Sandeep Kaur and Paramjit Nanda : The U-Shaped female Labour Force Function in Economic Growth: Evidence from Punjab in Kashmir Journal of Social Sciences, vol.5 pp 19-36.

Dr. Naresh Singla

1. Singla, N., Kaur, P. and Ahmed, A. (2016). Role of Land Reforms in Eradicating Land Inequalities in Rural India, *Indian Journal of Economics and Development*, 12 (1a): (413-418).
2. Singla, N. And Kaur, M. (2015). Growth and Performance of Agriculture Sector in India, *Journal of Rural and Industrial Development*, 3 (2): 24-36.
3. Singla, N. and Singh, S. and Dhindsa, P.K. (2014). Fresh Food Supermarkets in the Indian Punjab: Organisation and Impacts, *Journal of Punjab Studies*, 21 (2): (91-111).

4. Pavneet and Singla, N. (2016). "Water Crisis and its impact on Punjab Agriculture" in S.K. Arora, T. Sharma, S. Kapila (eds): Political, Economic and Socio-Cultural Aspects: problems and Solutions, Unistar Books Pvt. Ltd., Chandigarh, Pp: 255-262.
5. Singla, N., Beag, F.A. and Ahmed, M. (2015). "Trends and Pattern of Production and Export of Fruit Crops and Apple in India with Special Reference to Jammu and Kashmir" in Anil Bhat and S.P. Singh (eds.): Agricultural Marketing in India: Perspective and Potential, New India Publishing Agency, New Delhi, Pp: 1-18.

Centre for Law

Dr. Sukhwinder Kaur

1. Presented a paper "Dowry Death: An Analysis" in international Conference on "Women and Development: Issues and Initiatives" on March 26-27, 2010 Organized by Women's' Studies Centre, Punjabi University, Patiala.
2. Presented a paper "Child Labour: Causes, Government Policy and Role of Education" in international Conference on "Women and Child Issue: National and International Perspectives", on February 11-12, 2011 Organized by Women's' Studies Centre, Punjabi University, Patiala.
3. Presented a paper "Women's Right in Adoption & Guardianship" in international Conference on "Women, peace and security" on October 26-27, 2012 Organized by Women's' Studies Centre, Punjabi University, Patiala.
4. Presented a paper "Gender Inequalities and Religious personal Laws in India" in South Asia History Conference on October 16-18, 2015 Organized by Dept. of History, Punjabi University, Patiala.
5. Presented a paper "interface between Human rights and terrorism" in international seminar on "Human Rights, Civil Society and the Changing Facets of Terrorism", Nov. 21, 2015, Geeta Institute of Law , affiliated to Kurukshetra University.
6. Presented a paper "Domestic Violence Against Women in India" in international Conference on " Empowering Women, Empowering Humanity" on Dec. 11-12,2015 Organized by Women's' Studies Centre, Punjabi University, Patiala.
7. Presented a paper "Human rights and Sustainable Development " in international Conference on "Human Rights in India: A Multifaceted Aspect" on Feb. 27-28 ,2016 Organized by D.A.V College, Abohar.
8. Presented a paper "Constitutional Provisions: Indian Federalism" in national seminar on "Emerging Pattern of Indian Federal System" on January 14-15, 2016 Organized by dept of Political Science, BPSMV, Khanpur Kalan, sonipat .

9. Presented a paper "Right to information and Good Governance" in national seminar on "law and Governance" on Feb. 6, 2016 Organized by Rayat College of Law, Rayat Bahra, Ropar campus.
10. Presented a paper "Education for Sustainable Development" in national seminar on "Education for sustainable Development, Feb. 4-5, 2016, central University of Punjab.
11. Presented a paper "Human rights and Sustainable Development" in international Conference on "Human Rights in India: A Multifaceted Aspect" on Feb. 27-28, 2016 Organized by D.A.V College, Abohar.
12. Presented a paper "Gender Equality and Sustainable Development in India" in national seminar on "Gender equality for Sustainable Development", March 21 -22, 2016, central University of Punjab.
13. Presented a paper "Competition Law and Instrument to Combat social Injustice in current Scenario" in national seminar on " re-envisioning social justice in the era of globalization: issues and dilemmas" on March 26, 2016Organized by dept of Law, BPSMV, Khanpur Kalan , sonipat
14. Presented a paper "Role of Election Commission" in national Seminar on "Legal Regulation of Elections In India" on November 11-12, 2008 Organized by Department of Law, Punjabi University, Patiala.
15. Presented a paper "Violation of Human Rights of Dalits" in national Seminar on "Human Rights and Duties Education" on January 18-19,2010 Organized by Department of Administration, Punjabi University, Patiala.
16. Presented a paper "Constitutional Framework for Safeguarding the Interest of Scheduled Castes and Scheduled Tribes " in national Seminar on "Weaker Sections and Law" on March 29-30-2011 Organized by Punjab school of law, Punjabi University, Patiala.
17. Presented a paper "Laws relating to Air Pollution in india" in national Seminar on "Emerging environmental issues: legislative & Judicial Approach" on October 22-23, 2012 Organized by Department of Law, Punjabi Regional centre, Bathinda.
18. Presented a paper "Weaker Section and Law in India" in national Seminar on "Emergence of Modern Society: Role of Law" on November 03-04, 2013 Organized by Department of Law, Punjabi University, Patiala.
19. Presented a paper "Reservation Policy: Constitutional Perspective" in national Seminar on "Growth and Development of Law : Post Independence era" on March20-21,2009 Organized by Faculty of Law, Chaudhary Devi Lal University Sirsa, Haryana.
20. Presented a paper "Atrocities against Scheduled castes and Scheduled Tribes." in national Seminar on "Facets of Justice Delivery System" on March 17-18 2010 Organized by Punjab School of law, Punjabi University, Patiala.

Centre for Sociology

Dr. Vinod Arya

1. **Published an article** titled "Dalit Mahilaon ke Manav Adhikar Hanan: Nirantarta aur Badlav" (in Hindi), BhartiyaSamajshashtra Sameeksha (Journal of Indian Sociological Society in Hindi), Vol. 2, No. 1, January-June 2015, pp. 77-93.

Annexure 3

BOOKS AND MONOGRAPHSPUBLISHED BY CUPB FACULTY

Centre for Biochemistry & Microbial Sciences

Dr. Malkhey Verma

1. Daniel Jameson, **Malkhey Verma**, Hans Westerhoff (2011). Methods in Enzymology Volume 500: Methods in Systems Biology. ISBN: 9780123851185, Published by Elsevier.

Centre for Computational Sciences

Dr. Vijaykumar Yogesh Muley

1. Muley VY & Acharya V (2013) Genome-Wide Prediction and Analysis of Protein-Protein Functional Linkages in Bacteria, Springer Briefs in Systems Biology, Vol. 2, Springer publisher.
2. Hahn A & Muley VY* (2016) Protein-Protein Functional Linkage Predictions: Bringing Regulation to Context, chapter, In: Computational Biology and Bioinformatics: Gene Regulation, CRC press, USA

Centre for Mathematics and Statististics

Dr. Rajesh Gupta

1. **Rajesh Gupta**, "Symmetries and Exact Solutions for Nonlinear Systems: Variable Coefficients KdV and Boussinesq Systems", Lambert Academic Publishing, April 2012, ISBN 978-3-8484-2756-7 **(PhD Thesis published in Book Form)**

Dr. Gauree Shanker

1. **Gauree Shanker, "**Differential Geometry of Finsler and Lagrange Spaces", Lambert Academic Publishing, October 2012, ISBN 978-3-659-27863-1 **(PhD Thesis published in Book Form)**

Centre for Environmental Science and Technology

Prof. V. K. Garg

1. **Garg, V. K**., Bishnoi, M.S. and Malik, C. P. (2002). **An Introductory Text of Environmental Policies and Laws.** Kalyani Publishers. Pages 500.

Centre for Law

Dr. Sukhwinder Kaur

1. Dr.Pushpinder Kaur & Ms.Sukwinder Kaur, Problems &Prospectives of Child Labour, Orient Journal of Law and social sciences Vol.VI, Issue.6,P.14-21 ISSN 0973-7480
2. Ms.SukhwinderKaur& Dr. PushpinderKaur, Appraisal of Protection of Civil Rights Act,1955 Orient Journal of Law Vol.VI, Issue.7,P.35-41 ISSN 0973-7480
3. Ms.SukhwinderKaur&Dr. PushpinderKaur, Reservation Policy: Constitutional Prospective, Orient Journal of Law Vol.VI, Issue.8,P.35-41 ISSN 0973-7480 P. 25-33
4. .Dr. SukhwinderKaur, Women and personal Laws in India, emerging Research, An International Research Refereed journal, Vol.2 , ISSN:2348-5590.
5. Dr. SukhwinderKaur, Appraisal of Protection of Women from Domestic Violence Act,2005 , Journal of Humanities and Culture, Refereed journal, Vol.1 , ISSN:2393-8285

Annexure 4

Book Chapters published by CUPB Faculty

Centre for Biochemistry & Microbial Sciences

Dr. Malkhey Verma

1. Ganesaratnam K. Balendiran, **Malkhey Verma**, Satish Bharadwaj (2007). Lead Optimization in the Design of Aldose Reductase Inhibitors: Enzymology and molecular biology of carbonyl metabolism 13. Pp 231-241. Purdue University Press. Editors: Henry Weiner, Edmund Maser, Ronald Lindahl and Bryce Plapp ISBN: 978-1-55753-447-7.
2. SM Nilapwar, M Nardelli, HV Westerhoff, **M Verma (2011).** Absorption spectroscopy: Methods in Systems Biology. Pp 59-75, ISBN: 9780123851185, Publisher: Elsevier
3. Hans V. Westerhoff, **Malkhey Verma**, Frank J. Bruggeman, Alexey Kolodkin (2011). From Silicon Cell to Silicon Human: BetaSys: Systems Biology of Regulated Exocytosis in Pancreatic [Beta]-Cells. Pp. 437-458, ISBN: 44196956X, 9781441969569, Publisher: Springer
4. Hans V. Westerhoff, Samrina Rehman, Fred Boogred, Nilgun Yilmaz and **Malkhey Verma** (2013). The Control Analysis of signal transduction: Systems Biology of metabolic and signaling networks. Pp. 39-62, ISBN 978-3-642-38504-9 Publisher: Springer

Centre for Computational Sciences

Dr. Vijaykumar Yogesh Muley

1. Hahn A & Muley VY (2016) Protein-Protein Functional Linkage Predictions: Bringing Regulation to Context, chapter, In: Computational Biology and Bioinformatics: Gene Regulation, CRC press, USA. In press

Centre for Physical Sciences

Dr. Rupesh S. Devan

1. Devan, R. S.and Y. R. Ma (2010). One-dimensional metal oxide nanostructures: synthesis, characterization and applications in: R. S. Chaughule and R. V. Ramanujan (Ed.) Nanoparticles: Synthesis, Characterization and Applications pp. 37.American Scientific Publishers**,** USA.

Centre for Environmental Science and Technology

Prof. V. K. Garg

1. Gupta, Renuka and **Garg, V.K.** (2015). Sustainable Approach to Waste Management- Vermicomposting Technology In: Waste Management: Challenges, Threats and Opportunities *(Eds: Singh, R.P. and Sarkar, A.)* : pp: 65-88, *Nova Publishers, NY,* [ISBN: 978-1-63482-195-7]
2. Gupta, Renuka and **Garg, V.K.** (2013). Groundwater Pollution Issues: with special reference to Fluoride, Arsenic and Uranium. In Water for Health: Healthy water, Healthy Life (Editor: Dr S.S. Gill, Dr. R. Manhas and Dr. P. Bansal) Pp: 93 –107 (Gulab Publisher, Sangrur and Basera Verlag, Germay) ISBN 978-81-92064-0-5.
3. Yadav, Anoop and **Garg, V.K.** (2013). Management of organic wastes by vermicomposting. In : *Advances in Industrial Biotechnology*. (Editors: R. S. Singh, A. Pandey and C. Larroche): Pp : 477- 501. *IK International Publishing House Pvt. Ltd., India*
4. Gupta, Renuka, Singh, B. and **Garg, V.K.** (2012). Environmental Fluorides : Risk Assessment and Remediation. *In Environmental Health: Human and Animal Risk Mitigation* (Editor: Garg, S.R.) **Pp. 65 -88.** (SSPH, New Delhi)
5. **Garg, V.K.** and Gupta, Renuka (2011). Solid Waste Management by vermitechnology. *In* Environmental Security: Human and Animal Health (Editor: Garg, S.R.) **Pp : 485 –499** (idbc publishers, India)
6. Mudhoo, A., Mohee, R., **Garg, V.K.** and Wang, S. (2010). Heavy Metals: Toxicity and Removal by Biosorption. In : Environmental Chemistry for a Sustainable World (Eds: Eric Lichtfouse et al): pp 380 – 442. (**Publisher Springer)**
7. **Garg, V.K.** (2010). Assessment of drinking water quality in some rural habitations in Haryana with special reference to fluoride. In: Impact of Uranium and Other Heavy Metals on Health. (*Eds: S.S. Gill, et al.)* Published by Saurabh Medical Publishers. **Chandigarh. (ISBN no: 978-81-910800-3-2) pp. 73-80.**
8. **Garg, V.K.** and Gupta, Renuka (2009). Vermicomposting of Agro-industrial Processing waste. In: Biotechnology for Agro-Industrial Residues Utilisation. (Eds.: P. Singh nee' Nigam, A. Pandey). **DOI 10.1007/978-1-4020-9942-7_24. Springer Publishers. Pp 433-458.**
9. **Garg, V.K.,** Gupta, Renuka and Yadav, Anoop (2007). Potential of Vermicomposting Technology in Solid Waste Management. *In*: Current Developments in Solid State Fermentation (Eds: Pandey, Ashok et al.). **Asia-Tech Publishers Inc., New Delhi (for India) and Springer Publishers (for Rest of the World) . Pp 468-511.**

Centre for Human Genetics and Molecular Medicine

Dr. Anjana Munshi

1. Munshi A and Sharma V (2016). **Safety and ethics in biotechnology and bio-engineering: what to follow and what not. "OMICS TECHNOLOGIES AND BIO-ENGINEERING: towards improving quality of life,** Chapter 32 (Academic Press imprint: Elsevier). Accepted for publication.
2. Munshi A and Sharma V (2016)**. Omics approaches in molecular farming and engineering for edible vaccines "OMICS TECHNOLOGIES AND BIO-ENGINEERING: towards improving quality of life,** Chapter 42 (Academic Press imprint: Elsevier). Accepted for publication.
3. Munshi A and Sharma V and Sharma S **(2016). Lessons learned from cohort studies, and hospital based studies and their implications in precision medicine** "**Progress and Challenges in Precision Medicine"** Chapter 12 (Taylor and Francis) Accepted for publication.

Centre for Classical and Modern Languages

Dr. Ramanpreet Kaur

1. **Kaur, R.** (2015). "Punjabi Di Uacheri Padhar Di Sikheya : Samaseyavan, Samadhan ate Sambhavnavan*" Punjab vich Sikheya : Samaseyavan te Samadhan* (Ed. Dr. Kulwant Singh, Lokgeet Parkashan, Chandigarh, Dec. 2015) ISBN-978-93-5204-032-2, pp 115-126.

Centre for Computer Science and Technology

Dr. Satwinder Singh

1. Mittal, P. Singh, S. Kahlon, K. S. (2011). Identification of Error Prone Classes for Fault Prediction Using Object Oriented Metrics In:Advances in Computing and Communications in Computer and Information Science, pp. 58-68. Springer Heidelberg Dordrecht London New York.

Centre for Law

Dr. Sukhwinder Kaur

1 Dr.Sukhwinder Kaur, Violation of Human Rights of Dalits, The Law & Society, ISBN-978-93-80144-53-3,P.172-183.

2 Dr. Sukhwinder Kaur, Female Foeticide: Social Legal Dimensions, Epistemology of Gender issues, ISBN-978-93-80748, P.211-226.

3 Dr. Sukhwinder Kaur, Law Relating to Dowry in India, in edited book named Dmestic Violence against Women,Editors: Dr. Sanjeev Kumar Arora & Dr. Tarsem Sharma, p.31-43.

Centre for Sociology

Dr. Vindo Arya

1. **Published a short biography** titled "Professor Vivek Kumar" as a chapter in an edited book 'Swatantrata ke Bad Lucknow ki Dalit aur Shoshit Vibhutiyan' edited by Mata Prasad, 2015, Samyak Prakashan, New Delhi, pp. 193-207, ISBN: 978-93-85540-23-3.

Annexure 5

Papers presented by CUPB Faculty in Conferences/Seminar/Symposia

Centre for Chemical Sciences

Dr. Rajesh Kumar

1. Jain., R., Sharma, D. and Kumar,R. (2012) Thermodynamic Analysis of Effect of Alcohols on Thermal Stability of Horse Ferrocytochrome c." International Symposium on Protein Folding and Dynamics being organized at NCBS, Bangalore.
2. Jain.,R., and Kumar,R. (2012) Guanidine Hydrochloride-Induced Folding and Stabilization of Alkali-Denatured Carbonmonoxycytochrome c." International Symposium on Protein Folding and Dynamics being organized at NCBS, Bangalore.
3. Kumar, S., and Kumar, R. (2011) Iron Release from Diferric Ovotransferrin in the Absence of Chelators Involves Six Kinetic Steps at Acidic pH. 6th National Conference on Thermodynamics of Chemical and Biological Systems, Department of Chemistry, Maharshi Dayanand University, Rohtak,
4. Kumar, R., Kumar, S. Kumar,R. (2012) Effect of neutral salts on the stability of acid-denatured hen egg white lysozyme. Material Research Society of India (23rd Annual meeting, Thapar University, pp 143.
5. Kumar, S., Kumar, R., and Kumar, R. Atypical effect of salts on the stability of Fe^{3+}-ovotransferrin CO_3^{2-} complex. Material Research Society of India, 23rd Annual meeting, Thapar University, pp 134.
6. Jain, R., and Kumar, R. (2012) Entropic stabilization of Ferrocytochrome c by subdenaturing concentrations of methanol. Material Research Society of India, 23rd Annual meeting, Thapar University, pp 136
7. Kaur, S., Jain, R., Kumar, R. (2011) Effect of Osmolytes on the Stability and Motional Dynamics of Horse Ferrocytochrome c. (Advances in Chemical Engineering, Macmillan Advanced Research Series, pp 137-143.
8. Jain, R. and Kumar, R. Effect of neutral salts on the stability and dynamics of horse cytochrome c. National Conference on Emerging Trends in Chemistry-Biology Interface, Kumaun University, Nainital.
9. Kumar, S. and Kumar, R. (2013) Hydrophobicity of denaturants control the local dynamics of a native-like compact state of horse ferrocytochrome c, National conference imerging molecule in sustanable fututre (NCIMSF), Thapar University, Patiala.
10. Kumar, R., and Kumar, R., (2013) The glycine effect on release of iron from transferrins. National conference imerging molecule in sustanable fututre (NCIMSF), Thapar University, Patiala.

11. Kumar, R. (2009) The Mechanism of Iron Release From Human Transferrin. National Symposium on Green Chemistry, Thapar University, Patiala.
12. Jain, R. and Kumar, R. (2013) The size of anions and crowding agents control the local dynamics of a native-like compact state of horse ferrocytochrome c National conference imerging molecule in sustanable fututre (NCIMSF), Thapar University, Patiala.
13. Kumar, R., (2015) Analysis of pH dependent thermodynamic stability, local motion and micosecond folding dynamics of carbonmonoxycytochrome c, 2nd conference on micorscopy in matetrial science, Thapar University, Patiala, pp 14.

Centre for Pharmaceutical Sciences & Natural Products

Pradeep Kumar

1. Pradeep Kumar, Balasubramanian Narasimhan, Triple-negative Breast Cancer, 2nd Annual Conference of Association of Pharmaceutical Teachers of India (APTI) - Haryana State Branch, held on 24th and 25thOctober, 2015 at Department of Pharmaceutical Sciences, Maharshi Dayanand University Rohtak, Haryana (Abstrat no. APTI-MDU/102)

Centre for Plant Sciecnes

Dr. Felix Bast

1. Delivered an oral presentation on "Linguistic gender in Indian languages and its relation with sex ratio" in "National Seminar on Gender equality for Sustainable Development", Central University of Punjab on 22nd March, 2016
2. Delivered an oral presentation on "DNA barcoding of mangrove plants in Sundarban Delta, West Bengal and Payyanur, Kerala reveals hidden biodiversity" in "New Vistas in Plant and Microbial Sciences", Jammu University on 12th March, 2016
3. Coordinated Science Academies' Refresher Course on Environmental Biology at Central University of Punjab, 1st to 15th February, 2016
4. Delivered an invited Popular Talk on "Tree Of Life: Disentangling the Tangled Bank" at Vikrama Simhapuri University, Nellore, AP on 17thDecember, 2015
5. Delivered talk on "DNA Barcoding reveals cryptic diversity of mosses from the springs of Himalayas", Himalayan Studies Conference, Himachal Pradesh University, Shimla on 4th November, 2015

Centre for Biochemistry & Microbial Sciences

Dr. Monisha Dhiman

1. Chemotherapeutic Drug Induced Cardiomyocyte Toxicity: Evaluation of Ethno-Botanical Plants to Minimize the Cardiac Damage. International Symposium on Role of Herbs in Cancer Prevention and Treatment" held at School of Life Sciences, Jawaharlal Nehru university, New Delhi, Feb. 9 - 11, 2016.
2. The Prickly Poppy Pollen Induced Inflammation and Associated Signaling Pathways in Human Lung. **6th International Conference on Stem Cells and Cancer (ICSCC2015): Proliferation, Differentiation and Apoptosis**, Organized by International Centre for Stem cells and Cancer and Biotechnology, Pune, 2 – 5 October 2015.
3. Expert Lecture on "Recent Advances in Immunology and Molecular Biology: A Practical Approach". **Baba Farid Group of Institutions,** Dept of Biotechnology, Bathinda, 28 September, 2015.

Dr. Malkhey Verma

1.	**Malkhey**, P.J. Bhat and K.V. Venkatesh. Quantitative Model and Experimental Verification of *GAL/MEL* Regulon in *Saccharomyces cerevisiae.*	Biohorizon 2002 **(National)**	1-2 March 2002	IIT Delhi, India
2.	**Malkhey Verma**, P.J. Bhat and K.V. Venkatesh. Nucleocytoplasmic shuttling of Gal80p causes ultrasensitivity for *GAL* gene expression in *Saccharomyces cerevisiae*	International Workshop for Integrated Yeast Sciences **(International)**	12-20 March 2004.	Okinawa Institute of Science & Technology
3.	**Malkhey Verma**, Hans V Westerhoff. Experimental Design: Towards a Blueprint Strategy for Kinetic Model Building	Psysmo Conference **(International)**	1-2 April 2008	Imperial College London, UK
4.	**Malkhey Verma**, Kieran Sharkey, Hans V Westerhoff. Quantification of *L. lactis* Glycolysis for predictions towards *E. faecalis*	SysMOLAB Conference **(International)**	14-17 April 2008	Institute of Medical Microbiology, University of Rostock, Germany.
5.	**Malkhey Verma**, Kieran Sharkey, Jacky Snoep, Walter Glaser, Ana Kitanovic, Karl Kuchler, Stefan Wölfl, Femke Mensonides, Babara Bakker, Hans Westerhoff & Stephen Wilkinson. MOSES; MicroOrganism Systems biology: Energy and Saccharomyces cerevisiae	SysMO Evaluation Conference **(International)**	30 June-2 July 2008	Bad Honnef, Germany
6.	**Malkhey Verma,** Kieran Sharkey,	SysMO Evaluation	30 June-2	Bad Honnef,

	Ralf Steuer, Stephen Wilkinson, Jacky Snoep, Bettina Siebers, Dietmar Schomburg, and Hans V. Westerhoff. Towards a kinetic model for the central carbohydrate metabolism of the archaeon *Sulfolobus solfataricus* under temperature variation.	Conference **(International)**	July 2008	Germany
7.	*Westerhoff, Hans V.; Mensonides, Femke; Kell, Douglas B.; Messiha, Hanan; Kuchler, Karl; Glaser, Walter; Valachovic, Martin; Reuss, Matthias; Zakhartsev, Maksim; Ruoff, Peter; Woelfl, Stefan; Kitanovic, Ana; Nardelli, Maria; Sharkey, Kieran; Steuer, Ralf;* ***Verma, Malkhey;*** *Wilkinson, Steve; Snoep, Jacky L.; Bakker, Barbara* *Moses: Developing wisdom for Microorganism systems biology concerning energy and Saccharomyces cerevisiae*	The 9th International Conference on Systems Biology **(ICSB 2008) (International)**	23-27 August 2008	University of Gothenburg Chalmers Biocenter Fraunhofer-Chalmers Center.
8.	**Malkhey Verma**, Maksim Zhakhartsev, Martin Valachovic, Ana Kitanovic, Femke Mensonides, Kieran Sharkey, Ralf Steur, Hanan Messiha, Walter Glaser, Karl Kuchler, Stefan Wölfl, Matthias Reuss, Fred Boogerd, Peter Ruoff, Pedro Mendes, Jacky Snoep & Hans V Westerhoff. MOSES: MicroOrganism Systems biology: Energy and *Saccharomyces cerevisiae*	3rd FEBS Systems Biology Course **(International)**	7-13 March 2009	FEBS Journal & Biochemical Society, Austria
9.	**Malkhey Verma**, Maksim Zhakhartsev, Martin Valachovic, Ana Kitanovic, Femke Mensonides, Kieran Sharkey, Ralf Steur, Hanan Messiha, Walter Glaser, Karl Kuchler, Stefan Wölfl, Matthias Reuss, Fred Boogerd, Peter Ruoff, Pedro Mendes, Jacky Snoep & Hans V Westerhoff. MicroOrganism Systems biology: Energy and *Saccharomyces cerevisiae*.	2nd SysMO Evaluation Conference **(International)**	19-20 May 2009	SysMO funding agency, EU.
10.	Femke Mensonides, Stephen Wilkinson, **Malkhey Verma**, Karl Kuchler, Pedro Mendis, Mathias Reuss, Peter Rouff, Stefan Wölfl, Fred Boogered, Babara Bakker & Hans Westerhoff. MicroOrganism Systems biology: Energy and *Saccharomyces cerevisiae* (MOSES).	The 24th International Conference on Yeast Genetics and Molecular Biology **(International)**	19-24 July 2009	The University of Manchester, UK
11.	Venkatesh Kolluru, **Malkhey Verma**, Sanjay Nilpawar and Farid Khan Protein Stabilization in Aqueous	3rd MIB Interdisciplinary Research Conference	2-3 Oct 2009	The University of Manchester,

	Solution and Frozen State by Hydrophilic Polymer NV10	**(International)**		UK
12.	Parvati Reddy, **Malkhey Verma**, Farid Khan. Kinetic characterization of enzymes of pentose phosphate pathway	3rd MIB Interdisciplinary Research Conference **(International)**	2-3 Oct 2009	The University of Manchester, UK.
13.	**Malkhey Verma**, Maria Nardelli and Hans V Westerhoff. Hierarchical regulation of hexose transporters in *Saccharomyces cerevisiae*	The 4th Annual BBSRC Systems Biology Grant Holders' Workshop, Edinburgh **(International)**	6-8 January 2010.	The University of Edinburgh, UK
14.	Hans V. Westerhoff, Ralf Steuer, Kieran Sharkey, **Malkhey Verma**, Melanie Zaparty, Alexey Kolodkin and Bettina Siebers. Towards a Silicon Cell Model for the metabolism of *Sulfolobus solfataricus*	The 4th Annual BBSRC Systems Biology Grant Holders' Workshop, Edinburgh (**National**)	6-8 January 2010.	The University of Edinburgh, UK
15	**Malkhey Verma**, Maksim Zhakhartsev, Martin Valachovic, Ana Kitanovic, Femke Mensonides, Kieran Sharkey, Ralf Steur, Hanan Messiha, Walter Glaser, Karl Kuchler, Stefan Wölfl, Matthias Reuss, Fred Boogerd, Peter Ruoff, Pedro Mendes, Jacky Snoep & Hans V Westerhoff. MOSES: MicroOrganism Systems biology: Energy and *Saccharomyces cerevisiae*	The 4th Annual BBSRC Systems Biology Grant Holders' Workshop, Edinburgh (**International**)	6-8 January 2010.	The University of Edinburgh, UK
16.	David Morgan, Maria Nardelli, Malgorzata Adamczyk, Hans V Westerhoff & **Malkhey Verma**. The Control by Glucose Transport; Cells Toggling Between Life and Death	Inter DTC Systems Biology Conference **(National)**	6-7 July 2010	University of Manchester, UK
17.	**Malkhey Verma**, Maksim Zhakhartsev, Martin Valachovic, Ana Kitanovic, Femke Mensonides, Kieran Sharkey, Ralf Steur, Hanan Messiha, Walter Glaser, Karl Kuchler, Stefan Wölfl, Matthias Reuss, Fred Boogerd, Peter Ruoff, Pedro Mendes, Jacky Snoep & Hans V Westerhoff. MOSES: MicroOrganism Systems biology: Energy and *Saccharomyces cerevisiae*	The 5th Annual BBSRC Systems Biology Grant Holders' Workshop, ICL (**International**)	5-7 January 2011.	Imperial College London, UK
18.	Maria Nardelli, **Malkhey Verma**, Kathryn Blount and Hans Westerhoff. Glucose uptake in *Saccharomyces cerevisiae* reveals heterogeneity in cell population	Cell Signal-omics 2011 **(International)**	26-28 Jan 2011	European Conference Center, Luxembourg
29.	**Malkhey Verma,** Maria Nardelli and Hans Westerhoff. Towards domino systems biology and an integrated ATP-centric model of regulation in	Cell Signal-omics 2011 **(International)**	**26-28 Jan 2011**	European Conference Center, Luxembourg

	Saccharomyces cerevisiae			
20.	**Malkhey Verma,** Maksim Zhakhartsev, Martin Valachovic, Ana Kitanovic, Femke Mensonides, Kieran Sharkey, Ralf Steur, Hanan Messiha, Walter Glaser, Karl Kuchler, Stefan Wölfl, Matthias Reuss, Fred Boogerd, Peter Ruoff, Pedro Mendes, Jacky Snoep & Hans V Westerhoff. Towards domino systems biology and an integrated ATP-centric model of regulation in Saccharomyces cerevisiae	FEBS-SystemsX-SysBio2011: From Molecules To Function **(International)**	Feb 26-March 4, *2011*	FEBS Journal & Biochemical Society, Austria
21.	Maria Nardelli, **Malkhey Verma**, Kathryn Blount and Hans Westerhoff. Glucose uptake in *Saccharomyces cerevisiae* reveals heterogeneity in cell population	FEBS-SystemsX-SysBio2011: From Molecules To Function **(International)**	Feb 26-March 4, *2011*	FEBS Journal & Biochemical Society, Austria
22.	**Malkhey Verma** and Hans Westerhoff. Channelling in central carbon metabolism of *B. subtilis*.	The BACELL meeting **(International)**	14-15 March 2011	European Bacillus community, Gottingen University, Germany.
23.	Biotechnology Young Entrepreneurs Scheme Workshop **Team:** **Malkhey Verma**, University of Manchester **Steven Branston**, UCL **Cristina Matos**, University of Warwick **Flavius C. Pascut**, University of Nottingham	Southern Workshop, Oxford, UK **(International)**	12-14 October 2011	BBSRC, UK
24.	**Malkhey Verma**, Fei He and Hans Westerhoff. The effect of channelling in modelling central carbon metabolism.	BACELL SysMO meeting **(International)**	27-28 Sept 2011	Groningen Medical University, Netherlands
25.	Oluwafemi Davies, Anil Day, Hans Westerhoff, **Malkhey Verma.** Optimizing recombinant protein production in the chloroplast of *Chlamydomonas reinhardtii*	CEAS Postgraduate Conference **(University Level)**	15th June 2012	University of Manchester, UK.
26.	**Malkhey Verma** & Hans Westerhoff. Channelling in osmoregulatory proline biosynthesis in *B. Subtilis*	BaCell Conference 2012 **(International)**	23-25th April 2012.	Queens College Dublin, Ireland.
27.	**Malkhey Verma**, Samrina Rehman and Hans Westerhoff. The systems biology of network stress based on data generated from *in vitro* differentiated hepatocytes derived from individual specific human iPS cells: Integrating gene expression with	ERASysBioPlus-livSYSiPS consortium meeting **(International)**	28th June 2012	University of Manchester, UK

	metabolism and flux			
28.	Philip J Day, **Malkhey Verma**, Ehasn G Karimiani, Richard J Byers, Samrina Rehman. Mathematical modelling of miRNA mediated BCR. ABL protein regulation in chronic myeloid leukaemia vis-a-vis therapeutic strategies.	ChELSi meeting, Sheffield, UK **(International)**	14th Nov 2012,	University of Sheffield, UK
29.	**Malkhey Verma** & Hans Westerhoff. Channelling in osmoregulatory proline biosynthesis in *B. Subtilis*	SysMO-BaCell Meeting 2012 **(International)**	10th Oct 2012	University of New Castle, UK
30.	Oluwafemi Davies, Anil Day, **Malkhey Verma** and Hans Westerhoff Optimizing recombinant protein production (TSG6 protein) in *Chlamydomonas reinhardtii*: understanding limitations imposed by recombinant proteins on biomass yield CEAS Postgraduate Conference.	CEAS Postgraduate Conference **(International)**	12-15 June 2013	University of Manchester, UK
31.	Nadia Iqbal, **Malkhey Verma**, Philip Day, Richard Byers. Can miRNAs Reverse Imatinib Resistance in CML?	Life Science Postgraduate Conference **(University Level)**	8th August 2013	University of Manchester, UK
32.	Verma M, Karimiani E, Byers R, Rehman S, Westerhoff H, **Day PJR**. Single cell analysis of leukemia heterogeneity and drug response.	qpcr & Digital PCR Congress **(International)**	September 9-10, 2013	Lyon, France
33.	Oluwafemi Davies, Leopoldo Herrera, **Malkhey Verma**, Jacob Snoep, Hans Westerhoff, Julio Suarez, Anil Day. *Expression of Recombinant Proteins in Microalgae.*	Advances In Recombinant Protein Technology 2013. **(International)**	19-20 Nov 2013	Astrazeneca R&D Convention Centre. Alderley Park, Manchester, UK
34.	Oluwafemi Davies, **Malkhey Verma**, Ettore Murabito, Anil Day and Hans Westerhoff. Optimizing recombinant protein production in chloroplast of *Chlamydomonas reinhardtii*.	Postgraduate research conference 2014. **(International)**	4th July 2014,	The University of Manchester, UK
35.	**Malkhey Verma** & Hans V. Westerhoff. Production of biopolymers and biofuels using syngas.	**SB@NL (International)**	15-16 Dec 2014	University of Maastricht, Tongersestraat 53, 6211LM Maastricht, Netherlands

Dr. Pramod Kumar Kushawaha

1. Reema Gupta, **Pramod Kumar Kushawaha**, Mukesh Samant and Anuradha Dube. Cloning, overexpression and Purification of *Leishmania donovani* Enolase in HUGO'S 13th Human genome meeting, Hyderabad, [India], September 27th-30th, 2008.
2. Reema Gupta, **Pramod Kumar Kushawaha**, Mukesh Samant and Anuradha

Dube. Expression and purification of Calreticulin from *Leishmania donovani* clinical isolates in 20th National Congress of Parasitology at Shillong, [India], November 3rd-5th, 2008.

3. **Pramod Kumar Kushawaha**, Reema Gupta, Mukesh Samant and Anuradha Dube. Cloning, expression and purification of *Leishmania donovani* nucleoside diphosphate kinase b in 20th National Congress on Parasitology at Shillong, [India], November 3rd-5th 2008.
4. **Pramod K Kushawaha**, Reema Gupta, Mukesh Samant, Rati Tandon, Rajendra K Baharia and Anuradha Dube. Triose Phosphate Isomerase (TPI) - a potential Th1 stimulatory protein: Cloning, expression, purification and assessment of its cellular response in Leishmania-infected cured hamsters in Fourth World Congress on Leishmaniasis at CDRI, Lucknow [India], February 3rd-7th, 2009.
5. Mukesh Samant, Reema Gupta, Pragya Misra, Prashant Khare, **Pramod Kumar Kushwaha** and Anuradha Dube. Cloning and expression of Proteophosphoglycan3 (ppg3) of *Leishmania donovani* and its evaluation as DNA vaccine candidate in Fourth World Congress on Leishmaniasis at CDRI, Lucknow [India], February 3rd-7th, 2009.
6. Reema Gupta, **Pramod K. Kushawaha**, Mukesh Samant, Anil K. Jaiswal, Rajendra Baharia and Anuradha Dube. Miltefosine treatment of *Leishmania donovani* infected hamsters generates Th1 type of response as evidenced by Real-Time PCR in Xth International Symposium on vectors and vector borne diseases at Goa,[India], November 4th-6th, 2009.
7. **Pramod K. Kushawaha,** Reema Gupta, Prashant Khare, Pragya Misra and Anuradha Dube. Induction of Th1 type response by recombinant Protein Disulfide Isomerase (PDI), a potential vaccine candidate against Visceral Leishmaniasis in Xth International Symposium on vectors and vector borne diseases at Goa, [India], November 4th-6th, 2009.
8. Reema Gupta, **Pramod K. Kushawaha,** Mukesh Samant and Anuradha Dube. Localisation of aldolase, a potential drug target, in glycosomes and flagella of *Leishmania donovani* in IVrth International Symposium on Current Trends in Drug Discovery and Research, CDRI, Lucknow [India], February 17th-21st, 2010.
9. Reema Gupta, **Pramod K. Kushawaha,** Mukesh Samant and Anuradha Dube. Enolase (2-phospho-D-glyceratehydrolase): a potential antileishmanial drug target in IVrth International Symposium on Current Trends in Drug Discovery and Research, CDRI, Lucknow [India], February 17th-21st, 2010.
10. **Pramod K. Kushawaha,** Reema Gupta, Rajendra Baharia and Anuradha Dube. Cloning and overexpression of elongation factor 2 – a possible drug target from *Leishmania donovani* in IVrth International Symposium on Current Trends in Drug Discovery and Research, CDRI, Lucknow [India], February 17th-21st, 2010.
11. R. Gupta, **P. K. Kushawaha**, M. Samant, P. Khare, A. K. Jaiswal, R. Baharia, R. Tandon and A. Dube. Induction of Th1-type cellular responses in curing/exposed Leishmania-infected patients and hamsters against recombinant immunostimulatory proteins of *Leishmania donovani* identified

through proteomics in XXII International Congress of Parasitology, Melbourne, [Australia], August 15th-20th, 2010.

12. Reema Gupta, **Pramod K Kushawaha,** Chandra Dev Pati Tripathi, Shyam Sundar and Anuradha Dube. A novel recombinant *Leishmania donovani* p45-a partial coding region of methionine aminopeptidase generates protective immunity by inducing Th1 stimulatory response against experimental visceral Leishmaniasis in ICABS, at Kannur University, Kannur [India], 15th -17th March, 2012.
13. Mukesh Samant, Reema Gupta, Shraddha Kumari, Pragya Misra, Prashant Khare, **Pramod Kumar Kushawaha**, Amogh Anant Sahasrabuddhe, and Anuradha Dube: Immunization with the DNA-encoding N-terminal domain of Proteophosphoglycan of Leishmania donovani generates Th1-Type immunoprotective response against experimental visceral leishmaniasis. Ninth Annual Quebec Molecular Parasitology Symposium Leacock Building, McGill University, Department of Microbiology and Immunology Montréal, Québec [Canada] June 18th and 19th, 2009.
14. Reema Gupta, **Pramod K Kushawaha,** Chandra Dev Pati Tripathi and Anuradha Dube. Evaluation of recombinant Leishmania donovani Enolase as a suitable vaccine candidate against experimental visceral leishmaniasis in SBC, at CIMAP, Lucknow, [India], 12th -15th November, 2011.
15. Rajendra K Baharia, Rati Tandon, **Pramod. K Kushawaha**, Reema Gupta, Sanchita Das, and Anuradha.Dube. Molecular Characterization of a novel hypothetical protein of Leishmania donovani as a potential vaccine /drug in the SBC, at CIMAP, Lucknow, [India], 12th -15th November, 2011.
16. Rajendra K Baharia, Rati Tandon, **Pramod K Kushawaha**, Reema Gupta, Amogh A Sahasrabuddhe and Anuradha Dube. Molecular and immunological characterization of Nucleosomal Histone Proteins of Leishmania donovani in 23rd National Congress of Parasitology at Chennai, [India], 18th-20th November, 2011.
17. Anuradha Dube, Chandra dev Pati Tripathi, Sumit Joshi, Reema Gupta, Pramod K Kushawaha, Anil K Jaiswal, Prashant Khare, Rati Tondon, Rajendra Baharia, Sanchita Das, Shyam Sundar. Feasibility of ThI stimulatory polyproteins identified through proteomics as potent vaccine candidates for development of synthetic/ DNA vaccine against visceral leishmaniasis, in Fifth World Congress on Leishmaniasis at at Porto de Galinhas, PE, [Brazil], 13th to 18th May, 2013.
18. Chandra Dev Pati Tripathi, Prashant Khare, Pramod K.Kushawaha, Reema Gupta, Shailja Misra Bhattacharya and Anuradha Dube. Immunoprophylactic efficacy of Withania somnifera chemotype 101R against *Leishmania donovani* infection in golden hamster, in International Symposium on Current Trends in Drug Discovery and Research, CDRI, Lucknow [India], 26th to 28th February, 2013.
19. Chandra Dev Pati Tripathi, , Pramod K. Kushawaha, Reema Gupta, Prashant Khare, Shailja Misra Bhattacharya and Anuradha Dube. Withania somnifera chemotype 101R augment the anti leishmanial efficacy of miltefosine,

paromomycine and amphotericin B in *Leishmania donovani* infected hamster, Fifth World Congress on Leishmaniasis at at Porto de Galinhas, PE, [Brazil], 13th to 18th May, 2013.

20. **Pramod K Kushawaha,** Chandra Dev Pati Tripathi, Poornima Singh and Anuradha Dube**.** Leishmania donovani Triose phosphate isomerase and Protein disulfide isomerase elicits Th1 immune response in hamsters. 3rd Lucknow Science Congress and National Conference on "Science for Society: An Interdiscplinary Approach", at Lucknow, 31st October – 2nd November, 2015.

Dr. Shashank Kumar

1. Presented paper in 103rd Indian Science Congress, India entitled "**Medicinal efficacy of xerophytic weed extract in anti-tubercular drug induced rats**" held on 3-6 January 2016 at University of Mysore, Mysore.
2. Presented paper in International Conference on Biotechnological Advancements in Free Radical Biology ana Medicine, entitled "**A study on effect of oxidative stress and metal ions concentration on hemoglobin glycation in diabetic patients**" held on 14-16 November 2015 at Integeral University, Lucknow.

Dr. Manju Jain, DST-SERB, Fast Track Fellow

1. Stat3 activation plays a role in mTEC development *Manju Jain,[1] Dakshayani Lomada,[1]Madhava Reddy,[1]Rhea Kang,[1]John DiGiovanni,[2] and Ellen Richie[1]*. ***The Journal of Immunology*, 2011, 186, 64.20**, Copyright © 2011 by The American Association of Immunologists
2. Poster Presentation on "Investigating the role of thymus in mediating host immune-modulation in Visceral Leishmaniasis", 13th FIMSA Advanced Immunology Course-2016 with 10 Credit hours, 17-19th March, 2016. **Second Best Poster Award**
3. Poster Presentation on "Role of thymus in mediating host immune-modulation in Visceral Leishmaniasis" , One day Symposium on Recent Trends in Biological Sciences, , 29th March, 2016, Centre for Animal Sciences, Central University of Punjab, Bathinda.
4. Poster Presentation on "*Leishmania donovani* **variants causing cutaneous leishmaniasis:** A comprehensive molecular analysis of atypical disease presentation in Sutluj river belt of Himachal Pradesh, One day Symposium on Recent Trends in Biological Sciences, , 29th March, 2016, Centre for Animal Sciences, Central University of Punjab, Bathinda.
5. Oral Presentation"Investigating the role of thymus in mediating host immune-modulation in Visceral Leishmaniasis", Immunocon 2015, Oct-9-11, Patna, Bihar, India
6. Poster Presentation, "Stat 3 regulated thymic function" 83rd Annual Meeting of Society of Biological Chemists, Dec, 2014, Bhubaneshwar, Odisha, India

7. DST-Sponsored "Confocal and Live Imaging Microscopy" workshop, jan-2014, JNU, New Delhi.
8. CME in Immunology: "Immunology for Clinicians", April-2013, PGIMER, Chandigarh.
9. Oral and Poster presentation on "Stat3 activation plays a role in mTEC development" M. Jain; D. Lomada; M. Reddy; R. Kang; J. DiGiovanni; E. Richie at American Association of Immunologist meeting, May 13-17th, 2011, San Francisco, U.S.
10. Oral presentation on " Stat3 activation in mTEC development" at Thymus Summit, October 21-24, 2010, MD Anderson Cancer Centre, Austin, Texas, U.S.
11. Theoretical and Practical Course on "Molecular Biology of Leishmania", 2006, CEI- Central European Initiative, ICGEB-Trieste, Italy.
12. Workshop covering "Experimental Approaches To Studying Host-Pathogen Interactions", 2006, ICGEB, New Delhi, India
13. Poster presentation on "Creation of Tetracycline Regulatable Knockouts of ORFF gene from the LD1 locus of *Leishmania donovani*" Bindu Sukumaran, Manju Jain, Peter J. Myler, Kenneth. D. Stuart and Rentala Madhubala at 75th Annual Meeting of Society of Biological Chemists (India; JNU, New Delhi; December 8-11, 2006)
14. Oral presentation at International Centre for Genetic Engineering and Biotechnology, New Delhi, India in a Workshop covering "Experimental Approaches To Studying Host-Pathogen Interactions" (30th October-10th November, 2006.
15. Poster presentation on "Prime Boost- A jump-start strategy for vaccine against experimental visceral leishmaniasis" Poonam Tewary, Manju Jain and Rentala Madhubala at Asian Regional Workshop on Intracellular Pathogens, International Training and Research in Emerging Infectious Diseases, School of Life Sciences, Jawaharlal Nehru University, New Delhi.

Centre for Physical Sciences

Dr. Rupesh S. Devan

1. Devan, R. S. (2015). Nanoscience and Nanotechnology: from basic science to applications. In the workshop on 'Recent trades in materials science for engineering and technology', Government college of engineering, Karad, India, 11th to 15th May, 2015.
2. Devan, R. S. (2014). Advanced techniques for synthesis and characterization of metal oxide nanostructures. 'One day seminar on the development of nanoscience and nanotechnology', Department of Technology (Nanoscience and Nanotechnology), University of Delhi, Delhi, India, 14th Mar., 2014.
3. Devan, R. S. (2014). One-dimensional (1D) metal-oxide nanostructures: synthesis, characterization and applications. 'National conference on emerging trends in physical and chemical sciences (NCET-PCS)'. Department of

Physics, Govt. Holkar Science College, Indore (M.P.), India, 15-16th Mar., 2014.

4. Devan, R. S. (2010). One-dimensional metal-oxide nanostructures: Synthesis and characterization. 'International conference on materials for the millennium (MatCon-2010)'. Department of Applied Chemistry, Cochin Univ. of Science & Technology, Thrikkakara, Kochi - 682022, India, 11th-13th Jan., 2010.
5. Devan, R. S. Lin, J. H. Patil, R. A. and Ma, Y.-R. (2013). A size-controllable synthesis of two-dimensional (2D) pure metallic Zn hexagonal nanoplates: X-ray diffraction study and wide-range photoluminescence. '7th International conference on Materials for Advanced Technologies (ICMAT-2013)'. Suntec, Singapore, 30th Jun. - 5th Jul., 2013.
6. Devan, R. S. Patil, R. A. Lin, J. H. and Ma Y. R. (2011). Effective photoluminescence in a large-area array of Ta_2O_5 nanodots. 'International Conference on Nanoscience & Technology, China (ChinaNANO)'. Beijing, China, 7th-9th Sept., 2011.
7. Devan, R. S. Ho, W. D. Lin, L. C. Gao, S. Y. and Ma Y. R. (2009). Structural and electronic properties of a large-scale and high-density array of one-dimensional β-Ta_2O_5 nanorods. 'Annual meeting of the Physical Society of Republic of China'. Changhua, Taiwan, 19th-21st Jan., 2009.
8. Devan, R. S. Ho, W. D. Lin, L. C. Xie, G. C. Gao, S. Y. and Ma Y. R. (2008). A novel synthesis for large-scale and high-density arrays of one-dimensional Ta_2O_5 nanorods. 'International conference on Nanomaterials and Applications (ICNAMA-08)'. Department of Chemistry and Department of Physics, Shivaji University, Kolhapur, (M.S.), India, 9th-11th Dec., 2008.
9. Devan, R. S. Dhakras, D. R. Vichare, T. G. Joshi, A. S. Ma, Y. R. Kolekar, Y. D. and Chougule, B. K. (2007). Effect of mole percent phase variation on magnetoelectric (ME) properties of $(1-x)Ni_{0.94}Co_{0.01}Cu_{0.05}Fe_2O_4 + (x)BaTiO_3$ composites. 'International Conference on Advanced Materials and Applications (ICAMA-2007)'. Department of Physics, Shivaji University, Kolhapur, (M.S.), India, 15th-17th Nov., 2007.
10. Devan, R. S. and Chougule B. K. (2006). Studies on electrical and Magnetic properties of $Ni_{0.95-x}Co_xCu_{0.05}Fe_2O_4 + BaTiO_3$ ME composites. 'Campaign on University Research and Training (COURT)'. Shivaji University, Kolhapur, (M.S.), India, 6th-7th Oct., 2006.
11. Devan, R. S. Lokare, S. A. Patil, D. R. Chougule, S. S. Kolekar, Y. D. and Chougule, B. K. (2006). Resistivity Dependent Magnetoelectric Effect in Composites of Ferrite and Ferroelectric Phases. 'National Seminar on Materials for Advanced Technologies (NASMAT)'. Department of Physics, Shivaji University, Kolhapur, (M.S.), India, 23rd-25th Jan., 2006.
12. Patil, R. A. Devan, R. S. Ma, Y.-R. and Liou Y. (2013). electrochromic and pseudocapacitive properties of high-density and large-area arrays of one-dimensional NiO nanorods. '7th International conference on Materials for Advanced Technologies (ICMAT-2013)'. Suntec, Singapore, 30th Jun.-5th Jul., 2013.

13. Devan, R. S. and Ma Y. R. (2012). Large-Scale 1D Ta_2O_5 nanorods arrays: as a thermochromic and electrochromic smart windows. '1st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-2012)'. Department of Physics, Shivaji University, Kolhapur (M.S.), India, 17th-19th Jan., 2012.
14. Devan, R. S. Dhakras, D. R. Vichare, T. G. Kolekar, Y. D. and Chougule, B. K. (2007). Effect of phase variation on ME interactions of $Li_{0.5}Co_{0.75}Fe_2O_4$ + $BaTiO_3$ composites. '18th Annual General Meeting of the Material Research Society of India (MRSI)'. A Theme Symposium on Materials for Energy Generation and Storage, National Physical Lab. (NPL), New Delhi (India), 12th-14th Feb., 2007.
15. Devan, R. S. and Chougule, B. K. (2007). Effect of composition variation on electrical resistivity and TEP of $BaTiO_3$ + (Ni-Co-Cu) ferrite particulate composites. 'National conference on current Trends in Materials Research for Advanced Technology (NCMRAT-2007)'. Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, (M.S.) India, 29th-31st Jan., 2007.
16. Devan, R. S. Jigajeni, S. R. Joshi, A. S. Vichare, T. G. Dhakras, D. R. and Chougule, B. K. (2006). Magnetic-Dielectric Properties of $CoFe_2O_4$ + PZT Magnetoelectric Composites in Ferroelectric Rich Region. 'National seminar on materials for advanced technology (NASMAT)'. Department of Physics, Shivaji University, Kolhapur, (M.S.), India, 23rd-25th Jan., 2006.
17. Devan, R. S. Lokare, S. A. Patil, D. R. Chougule, S. S. Kolekar, Y. D.and Chougule, B. K. (2005). Effect of sintering temperature on copper-cobalt substituted nickel ferrite. '4th National symposium and conference on solid state chemistry and allied areas'. Goa Univ., Goa, India, 1st-3rd Dec., 2005.
18. Devan, R. S. Lokare, S. A. Kanamadi, C. M. Patankar, K. K. and Chougule, B. K. (2005). Dielectric characterization of (1-x)$Ni_{0.94}Co_{0.01}Cu_{0.05}Fe_2O_4$ + (x)$BaTiO_3$ ME composites. '16th AGM of the Material Research Society of India (MRSI)'. National Chemical Laboratory (NCL), Pune, 10th-12th Feb., 2005.

Centre for Mathematics and Statistics

Dr. Gauree Shankar

1 National Conference on Recent Developments in Special Functions and their Applications at T. D. P. G. College Jaunpur (U. P.) during November 04-06, 2014 and presented a paper entitled, "On the Nonholonomoc Frames for Finsler spaces with (α, β) metrics".

2 International Conference on Differential geometry and Relativity at DDU Gorakhpur University, Gorakhpur during November 09-11, 2013 and presented a paper entitled, "Two-dimensional Landsberg space with first approximate Matsumoto metric".

3 15^ {th} National Conference of society of Statistics, Computers and Applications at Banasthali University, Rajasthan during February 24-26, 2013 and presented a paper entitled, "Geometry of Curves in Space".

4 2^{nd} National Conference on Computational and Mathematical Sciences "Computatia-II 2012" at VIT Jaipur from Nov. 30 to Dec. 01 2012 and presented a paper entitled, "On the Hypersurface of Second Matsumoto Space".

5 9^{th} National Conference of ISMAMS on Interdisciplinary Applications of Mathematical and Statistical Techniques at Gorakhpur (U. P.) during February 25-26, 2012 and presented a paper entitled, "The L-dual of a generalized m-Kropina Space".

6 19^{th} annual conference of Purvanchal academy of sciences held at T. D. P. G College, Jaunpur (U. P) during February 20-21, 2010 and presented a paper entitled, " Conformal Change of Five-dimensional Finsler space".

7 International Conference on Discrete Mathematics entitled, "Jubilee Conference on Discrete Mathematics" organized by Center for Mathematical Sciences, Banasthali University, Rajasthan, India during January 11-13, 2009.

8 2^{nd} National conference of the Tensor society, India held at SRMCEM, Lucknow during July 5-6, 2008 and presented a paper entitled, "Finslerian Hyper surfaces and β-change of Finsler metric".

9 International Conference on Women Education entitled, "Jubilee Conference on Women's Education" organized by Banasthali University, Rajasthan, India from November 11-13, 2008.

10 14^{th} annual conference of Purvanchal academy of sciences held at Jaunpur (U.P) during February 19-20, 2005 and presented a paper entitled, "A remarkable connection in Finsler space with generalized (α,β)-metric".

11 National conference on emerging areas in Mathematical sciences in first quarter of the century held at Gorakhpur (U.P) during February 11-13, 2005 and presented a paper entitled, "Finslerian Hyper surfaces and Matsumoto change of Finsler metric".

Dr. Rajesh Kumar Gupta

1. Singh, K. and Gupta, R. K. , "Explicit Exact Solutions of a Non Evolution Equation", *Interdisciplinary Mathematics on Interdisciplinary Mathematical and Techniques (IMST 2009 – FIM XVIII),* August 2-4, 2009.
2. Gupta, R. K. and Sachin Kumar, "Modified *b*-Equation: Classical Lie Approach and Exact Solution", *Interdisciplinary Mathematics on Interdisciplinary Mathematical and Techniques (IMST 2009 – FIM XVIII),* August 2-4, 2009.
3. Singh, K. Gupta, R. K. , Sachin Kumar and Anupma, "Symmetry Reductions and Exact Solutions of Modified b-family", *Satellite Conference of International Congress of Mathematicians 2010 on Mathematics in Science & Technology,* August 14-17, 2010. Published in *Indian Journal of Industrial and Applied Mathematics* 4 (2013) 52-60.

4. Gupta, R. K. , Sachin Kumar and Anupma, "Symmetries and Exact Solutions of Third Order Partial Differential Equations Arising in the Impulsive Motion of Flat Plate", *Satellite Conference of International Congress of Mathematicians 2010 on Mathematics in Science & Technology*, August 14-17, 2010. Published in *Indian Journal of Industrial and Applied Mathematics*, 3 (2012) 13-21.
5. Nisha Goyal and Gupta, R. K. , "Similarity Analysis and New Exact Solutions of the Einstein-Maxwell Equations for the Non-static Einstein and Rosen Metrics", *Proceedings of International Conference on Mathematics and Statistics-2012* (ICOMAS-2012), May 15-18, 2012, Department of Mathematics, University of Memphis, Memphis, TN, USA
6. Nisha Goyal and Gupta, R. K. , "Traveling Wave Solutions for the Kadomtsev-Petviashivili-Benjamin-Bona-Mahony Equation and the Ito Equations by (G'/G)-Expansion Method", *Proceedings of International Conference on Emerging Trends in Engineering and Management* (ICETEM-2012), Satpriya Group of Institutions, Rohtak (Haryana), June 23-24, 2012, pp. 423-428.
7. Anupma and Gupta, R. K. , "Construction of New Traveling Wave Solutions of Ostrovsky-Benjamin-Bona-Mahony Equation using Modified Extended tanh-Function Method", *Proceedings of the International Conference on Emerging Trends in Engineering and Management* (ICETEM-2012), Satpriya Group of Institutions, Rohtak (Haryana), June 23-24, 2012, pp. 420-423.

Centre for Environmental Science and Technology

Prof. V. K. Garg

1. Singh, Bhupinder and **Garg, V.K**. (2011). Fluoride in Drinking Water of Southern Haryana, India. **Proc. of the International Conference on Science and Engineering (ICSE 2011)**. Copyright © 2011 RG Education Society: pp : 275- 279, ISBN: 978-981-08-7931-0
2. Sangwan, P., Kaushik, C.P. and **Garg, V.K. (2009).** Effect of temperature on the growth and fecundity of *Eisenia fetida* during vermicomposting of sugar mill sludge. **In proceedings of** International Conference on Changing Environmental Trends and Sustainable Development **(CETAS-2009)** held from 9-11 February, 2009 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India.
3. Bansal, Manjeet, Singh, Diwan and **Garg, V.K. (2009).** Sorption of Nickel (II) from aqueous solution onto sawdust (Timber Industry Waste). **In Proceedings of National Civil Engineering Conference on innovation without limits (CEC-09) held at NIT Hamirpur from 18-19 Sep. 2009, pp. 519-523**
4. Hem Lata, **Garg, V.K.** and R.K. Gupta **(2008).** Adsorption of cationic dyes from aqueous solution by treated *Parthenium hysterophorus* Linn**. In Proceedings of Sixteenth National Symposium on Environment (NSE-16)**

held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 447-451.

5. Gupta, Renuka, **Garg, V.K.** and Dahiya, Sudhir **(2008).** Bioconversion of different organic wastes employing Eisenia fetida. **In Proceedings of Sixteenth National Symposium on Environment (NSE-16)** held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 347-351.
6. Sangwan, P., Kaushik, C.P., Yadav, Anoop and **Garg, V.K. (2008).** Comparative potential of two epigeics in management of filter cake by vermicomposting in semiarid climate of Hisar. **In Proceedings of Sixteenth National Symposium on Environment (NSE-16)** held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 382-387.
7. Yadav, Anoop and **Garg, V.K. (2008).** Management of industrial sludges by vermicomposting. **In Proceedings of Sixteenth National Symposium on Environment (NSE-16)** held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 420-424.
8. Bansal, M., Singh, D. and **Garg, V.K. (2008).** Sorption capacity of rice husk for the removal of Cr(VI) from aqueous solution. **In Proceedings of Sixteenth National Symposium on Environment (NSE-16)** held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 442-446.
9. Jain, M., **Garg, V.K.** and Kadirvelu, K. **(2008).** Removal of chromium (VI) from aqueous solution by agricultural waste. **In Proceedings of Sixteenth National Symposium on Environment (NSE-16)** held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 352-257.
10. Suthar, S., Singh, S., Chhimpa, V., Bishnoi, R.K., Saharan, I., Mittal, N. and **Garg, V.K. (2008).** The problem of safe drinking water in Northern Rajasthan, India. **In Proceedings of Sixteenth National Symposium on Environment (NSE-16)** held from 16-18 July, 2008 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. Pp: 491-496.
11. Gupta, Renuka and **Garg, V.K.** (2008). Management of aquatic weed (water hyacinth) by vermicomposting technology. **In Proceeding of the National Conference on Environmental Degradation - Challenges and Remedies (EDCR-2008) held at M. M. University, Mullana (Ambala) from 13-14 March, 2008, pp 125-128.**
12. Kumar, Manish, Dahiya, S., Singh, B. and **Garg, V.K.** (2007). Probabilistic approach for assessment of chemical risk due to fluoride and nitrate in drinking water. **In Proceeding of National Conference on "Mitigation of Pollutants for clean Environment" [NSE-15] held at Bharathiar University, Coimbatore from June 5-7, 2007. pp. 252-266. Published by Macmillan Publisher, India.**
13. **Garg, V.K.** and Gupta, Renuka (2007). Prospects of vermicomposting technology in aquatic weed management. **In Proceedings of International**

Scientific and Practical Conference "Vermicomposting and Vermiculture as basis of ecological landownership in XXI century – problems, outlooks, achievements" held Minsk, Akademicheskaya, 27, Institute of Zoology of NAS, Belarus from at 4 – 8 June 2007. pp 86-88.

14. **Garg, V.K**. and Bhupinder Singh (2007). Distribution of fluoride in groundwater and its impact on dental health of school children in some villages of Haryana. **In Proceeding of National Conference on Limnology held at Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) on 19-21 February, 2007. pp: 206-211.**

15. **Garg, V.K.** and Kaushik, Priya (2005). Dynamics of vermicomposting of solid textile mill sludge spiked with various organic wastes. **In proceedings of International congress on Sustainable Management in Action 05 (SMIA05) held at University of Geneva, Switzerland on 19-40 September,** 2005. (Full paper available on line) no. of pages : 10

16. **Garg, V.K.** (2005). Earthworm and Vermicomposting: An overview. **In Proceedings of National workshop on "Conservation and Sustainable Management of Below ground Biodiversity"** held at Kerala Forest Research Institute, Kochi (India) organized by Tropical Soil Biology and Fertility Institute of CIAT and TSBF on June 21-23, 2005, pp 120- 153**.**

17. Goel, Jyotsna, Kadirvelu, K., Rajagopal, Chitra and **Garg, V. K**. (2004). Adsorptive removal of cadmium (II) from aqueous solution using carbon aerogel. **In Proceedings of International workshop on Carbon Materials for Energy Applications organized by Indian Carbon Society held at National Physical Laboratory from on 21- 22 December, 2004, pp. 470 – 480.**

18. Goel, Jyotsna, Kadirvelu, K., Rajagopal, Chitra and **Garg, V. K**. (2003). Equilibrium study of competitive sorption of Cu(II), Pb(II) and Hg(II) ions from aqueous solution on to granular activated carbon. **In Proceedings of National Conference on Carbon (Indo Carbon – 2003) organized by Indian Carbon Society held on 20-21 Nov., 2003 at Defence Materials and Stores Research and Development Establishment, Kanpur (India).** Pp: 119 – 130.

19. Dahiya, S.; **Garg, V. K**., Gupta, R., Yadava K., Pahwa, M. and Malik , A. (2001). Fluoride distribution in groundwater and prevalence of dental fluorosis among school children in some North Indian Villages. **In proceedings of the 10th National Symposium on Environment held at BARC, Mumbai from 04-06 June, 2001.** Pp. 172-174.

20. **Garg, V. K**. (2000). Fluoride in drinking water and its impact on dental health of school children in some villages of Haryana. In **Proceedings of National Conference on Environmental Pollution Prevention and Control for healthy living held at INSA, Delhi on 21-11-2000**. Paper No. 10. pages 4.

21. Malik, R.K., Malik, Y.S., **Garg, V. K.** and Singh, S. (1995). Isoproturon resistant little seed canary grass (*Phalaris minor*) and its response to alternate

herbicides. **In Proceedings International Symposium on Weed and Crop Resistance to Herbicides held on 3-6 April, 1995 at Cordoba, Spain.**

22. **Garg, V.K**., Singh, S. and Malik, R.K. (1993). Potency of tralkoxydim and isoproturon mixture against *Phalaris minor* and *Polypogon monspeliensis* is wheat. In **Proceeding International Symposium Indian Society of Weed Science held on No. 18-20, 1993 at CCS Haryana Agricultural University, Hisar. Vol. III: 276-277**.
23. Singh, S., Malik, R.K., Malik, Y.S. and **Garg, V. K.** (1993). Resistance of some *Phalaris minor* biotypes of isoproturon but not be pendimethalin. In **Proceeding International Symposium India Society of Weed Science held on Nov. 18-20. 1993 at CCS Haryana Agricultural University, Hisar Vol. II: 125-130.**
24. Bansal, M., **Singh, D. and Garg, V.K. (2009).** Biosorption of Ni (II) from aqueous systems using rice husk. **In Proceedings of** International Conference on Changing Environmental Trends and Sustainable Development **(CETAS-2009)** held from 9-11 February, 2009 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. **(Best Poster Award)**
25. Yadav, Anoop **and Garg, V.K. (2009).** Management of Industrial sludge using earthworm Eisenia fetida. **In Proceedings of** International Conference on Changing Environmental Trends and Sustainable Development **(CETAS-2009)** held from 9-11 February, 2009 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India.
26. Jain, M. and **Garg, V.K. (2009)** Biosorptive potential of sunflower waste for Cr(VI) removal: a low cost adsorbent. **In Proceedings of** International Conference on Changing Environmental Trends and Sustainable Development **(CETAS-2009)** held from 9-11 February, 2009 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India.
27. Gupta, R. and **Garg, V.K. (2009).** Vermistabilization of sewage water treatment plant sludge using epigeic earthworm Eisenia fetida. **In Proceedings of** International Conference on Changing Environmental Trends and Sustainable Development **(CETAS-2009)** held from 9-11 February, 2009 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India.
28. Gupta Renuka and **Garg, V.K.** (2007). Potential of vermicomposting technology in sewage sludge management employing an epigeic earthworm *Eisenia foetida*. **International conference on New Horizons in Biotechnology (NHBT-2007) held from 26-29 November, 2007 at** National Institute for Interdisciplinary Science & Technology, Trivandrum, India. **Pp.177**
29. **Garg, V.K.** and Gupta, Renuka (2007). Aquatic weed Management using vermicomposting technology. **In International Conference on Managing the Coastal Land-Water Interface in Tropical Delta Systems (DELTA-7) held from 4-9 November, 2007 at Bangkok, Thailand.**
30. **Garg, V.K.,** Jaglan, R.S., Gupta, R. and Yadav, A. (2007). Vermicomposting: An eco-technology for solid waste management. **In National Conference on**

Green Chemistry Applications in Science and Engineering (GCSE-07) held on 29 -30 March, 2007 at Sant Longowal Institute of Engineering and Technology, Longowal, Punjab (India). Pp 4-5.

31. **Garg, V.K.** and Singh, Bhupinder (2007). Monitoring of fluoride content in chewing tobacco, betel nuts and pan masalas. **In National Conference on Green Chemistry Applications in Science and Engineering (GCSE-07) held on 29 -30 March, 2007 at Sant Longowal Institute of Engineering and Technology, Longowal, Punjab (India). Pp 44-45.**

32. **Garg, V.K.** (2006). Potential of vermicomposting technology in solid waste management**. In National Conference on Chemical Technology and Biotechnology held on 14-16 September, 2006 organized by Regional Research Laboratory, CSIR, Trivandrum (In Hindi).**

33. **Garg, V.K.** and Gupta, Renuka (2006). Prospects of vermicomposting technology in water hyacinth management spiked with cow dung employing an epigeic earthworm *Eisenia foetida*. **In National Conference on Environmental Education held on 6-8, 2006 organized by Indian Environment Society, Delhi at SHM House, Bangalore.**

34. Sangwan, Pritam, Kaushik, C.P. and **Garg, V.K.** (2006). Bioconversion of sugar industry sludge mixed with horse dung using vermicomposting. **In Recent advances in Life Sciences and Environmental Conservation in welfare of Human society held on 3-5 Feb., 2006 in Kurukshetra University, Kurukshetra (Haryana), India (**abstract)

35. Hem Lata, **Garg, V.K.** and Gupta, R.K. (2005). **In proceedings of Recent Trends in Surface chemistry (RTSC-05) held on 13- 14 March, 2005 in Guru Jambheshwar University, Hisar (Haryana), India.** (abstract)

36. Goel, Jyotsna, Kadirvelu, K., **Garg, V. K.** and Rajagopal, C. (2005). Removal of lead (II) from aqueous solution by adsorption onto carbon aerogel. **In proceedings of Recent Trends in Surface chemistry (RTSC-05) held on 13- 14 March, 2005 in Guru Jambheshwar University, Hisar (Haryana), India.** (abstract)

37. Goel, Jyotsna, Kadirvelu, K., Rajagopal, C. and **Garg, V. K**. (2003). Adsorptive removal of Mercury (II) from aqueous solution using activated carbon: column studies. **In Proceedings of National Conference on Innovative Approaches in the Management of Environment (IAME) held on 17 – 18 October, 2003 in Delhi (India).** Pp: 23. (abstract)

38. Singh, Bhupinder and **Garg, V.K**. (2003). Fluoride content in soft drinks. **In Proceeding of National Seminar on Emerging Issues and Technological Challenges held on 1-2 September, 2003 in G.J. University, Hisar (India)** p 28-29. (abstract)

39. Kaushik, Priya and Garg, V.K. (2003). Vermicomposting of solid textile mill sludge mixed with cow dung and/or agricultural residues. **In Proceeding of National Seminar on Emerging Issues and Technological Challenges held on 1-2 September, 2003 in G.J. University, Hisar (India)** p 111-112. (Abstract).

40. Yadav, A., Faroda, A.S., Malik, R.K. and **Garg, V.K.** (1995). Persistence and rate of degradation of pendimethalin applied in wheat under different irrigation levels. **In Proceedings International Conference on Sustainable Agriculture and Environment, held on 11-13 January, 1995 Haryana Agricultural University, Hisar** (abstract).

Centre for Human Genetics and Molecular Medicine

Dr. Anjana Munshi

1. Chaired a session "Epigenetics and Developmental Genetics" in 41st Indian Society of Human Genetics, Anuual meeting and International conference entitled celebrating Genetics–The Human Way.Organized by Vision Research Foundation ,3rd-5th March, 2016. Chennai.

Dr. Harish Chander

1. International Conference on Cancer Research: New Horizons. 19-21st November, 2015, NCCS, Pune
2. 8th National Conference on Recent Advances in Chemical Biological and Environmental Sciences (RACES). February 19-20, 2016, Multani Mal Modi College, Patiala
3. ICMR Sponsored National Seminar on "Progression of Bioethics in Medical and Biological Research". February 24th, 2016. Dev Samaj College for Women, Ferozepur City.
4. DBT-Sponsored Training Course In Medical Genetics and Bioinformatics. 9th March-23rd March, 2016
5. 2nd Annual Convention of APTI Punjab State Branch, March-18th-March 19th, 2016, Government Polytechnic College for Girls, Patiala
6. International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (Public Health: 2016). 15th-16th January, 2016, Daulat Ram College, New Delhi
7. International Conference on Innovative Research in Biotechnology, Biomedical Sciences, Bioinformatics and Stem Cell Applications (BSC-2016). 30th January 2016. Jawaharlal Lal Nehru University, New Delhi
8. SERB-department of Science & Technology, Government of India and APTI, Punjab State Branch Sponsored One Day regional Seminar " Importance of Intellectual Property Rights in Pharmaceutical Sciences and Research". 29th January 2016. BFUHS. Faridkot
9. National Conference "AIDSCON". 26th-27th February, 2016. PGIMER, Chandigarh
10. Dr. Harish Chander, Assistant Professor, attended Science Academies' Refresher Course on Environmental Biology at Central University of Punjab, Bathinda, Feb 01- 15, 2016

Dr. Sabyasachi Senapati

1. Poster Presentation in ***The 13th International Congress of Human Genetics***. April 3rd-7th, 2016. Kyoto International Conference Center, Kyoto, Japan.
2. **Lecture on "Strategies for Linkage and Association mapping", at *DBT-Sponsored Training Course in Medical Genetics and Bioinformatics***. 9th March-23rd March, 2016. Central University of Punjab, Bathinda, India.
3. **Lecture on "Introduction to Biostatistics", at *DBT-Sponsored Training Course in Medical Genetics and Bioinformatics***. 9th March-23rd March, 2016. Central University of Punjab, Bathinda, India.

Centre for Classical and Modern Languages

Dr. Ramanpreet Kaur

1. **Kaur, R.** "Paath-Vigiyanak Adhyan Vidhi: Sidantak ate Viharak Pripekh" in National Seminar on *Sahit Adhyan: Bhasha Vigiyanak Vidhiyan*, Organised by School of Punjabi Studies, G.N.D.U, Amritsar; November 19, 2015.
2. **Kaur, R.** "Manav Mukti Da Sarbkali Parvachan: Bani Guru Teg Bahadur Ji" in National Seminar on *Guru Teg Bahadur Bani: Contexts and Concerns*, organized by Department of Guru Nanak Sikh Studies, Panjab University, Chandigarh; December 01, 2015.
3. **Kaur, R.**, Sapanpreet Kaur."Vishvikarn Ate Punjabi Bhasha Da Adhiyapan: Dash ate Disha" in National Seminar on *Impact of Globalization on Punjabi Culture, Society, Language and Literature*, organised by Bhag Singh Khalsa College, Kala Tibba, Abohar; January 27, 2016.
4. **Kaur, R.** "Bhai Vir Singh De Kav-Anubhav Di Anubhuti ('Mere Sayian Jeo' de Adhaar Te)" in National Seminar on *Bhai Vir Singh Sahit: Vartmaan Pripekh*, organised by Bhai Vir Singh Research Cente, Chief Khalsa Diwan, Amritsar; February 11-12, 2016.
5. **Kaur, R.** (2016). "Malwai Sabhyacharak Shabdawali de Kosh Vigiyanak Adhyan Dian Sambhanavan". *Malwa Region- Polotical, Economic and Socio-Cultural Aspects: Problems and Solutions*, (Eds. Sanjeev Kumar Arora, Dr. Tarsem Singh; Unistar Books Pvt. Ltd., Mohali; January 2016) ISBN-978-93-5113-727-6, pp 72-77.

Centre for Computer Science and Technology

Dr. Satwinder Singh

1. Singh, S. Singh, K.S. Singh G. (2004) Translator Design to Model and Measure CPP Files, IN 3rd World Enformatica Conference, Istanbul, Turkey. April 27-29, 2005

2. Kaur, A. Singh, S. Evaluation and Metrication of Object Oriented System Proceedings of the International Multi Conference of Engineers and Computer Scientists, Hong Kong, Vol I, pp 1063-1068 March 18 - 20, 2009
3. Kumar, B. Singh S. Singh. M(2012) Aspect Oriented Software Development- A Framework for Software Reusability and Maintainability**.** In:International Conference on Advancements in Computing and Communications BBSBEC, Fatehgarh Sahib, Punjab, 23-25 Feb 2012
4. Kaur, M. Singh, S.(2012) An Indian Version of GNU/Linux Boss: Literature Review. In International Conference on Advancements in Computing and Communications BBSBEC, Fatehgarh Sahib, Punjab, 23-25 Feb 2012
5. Kaur, S. Singh S.(2015) A review on data clustering and an efficient k-mean clustering Algorithms. International Conference on Advancements in Engg. and Tech. BGIET, Sangrur, Punjab, India, March 20-21, 2015

Centre for South and Central Asian Studies

Dr. Bawa Singh

1. Politics of Education in the Era of Globalization: Contextualizing the Implications for Sustainable Development, paper presented in ICSSR Sponsored National Seminar on 'Education for Sustainable Development 'organized by the Centre for Education, Central University of Punjab, Bathinda, (February 4-5, 2016).
2. Withering of the Welfare State: The Paradoxes of Social Justice, paper presented in One Day National Seminar Social Justice: Politico Legal Milieu, Organized by the Centre for Law, School of Legal Studies and Governance, Central University of Punjab, Bathinda (2 March, 2016).
3. Terrorism and Women: Afghanistan Perspective, paper presented in Two Day National Seminar 'Gender Equality for Sustainable Development', Organized by the Centre for Education, Central University of Punjab, Bathinda (21st and 22nd March 2016).

Dr. Nishtha Kaushiki

1. Ms. Manpreet Kaur and Dr. Nishtha Kaushiki from Centre for South and Central Asian Studies (incl. Historical Studies) has presented a paper titled "*Gender Discrimination in Education: A Social-Realistic Perspective*" on National Seminar on Gender Equality and Sustainable Development on 21 and 22 March 2016 at Central University of Punjab, Bathinda-151001.

Dr. Sudheer Singh Verma

1 Presented paper entitled "Exploring Relationship between Sustainable Development and Climate Change: A Challenge for Building Adaptive Capacity of Developing Countries" in national conference on 'Education for

Sustainable Development' organised by Centre for Education, Central University of Punjab, Bathinda on 4th & 5th February, 2016.

2 Accepted paper entitled "The Climate Change Politics: the case study of South Korea" for presentation in international conference on 'India-Korea Relations: Forging a Multidimensional Partnership in the 21st Century' organised by Researchers' Association for the Study of Korea (RASK) in Collaboration with Center for East Asian Studies, School of International Studies, JNU at Convention Center Jawaharlal Nehru University from 18/04/2016 to 19/04/2016.

Centre for Economic Studies

Dr. Sandeep Kaur

1. Presented a paper entitled Can SAFTA be a succesful free trade bloc ? Evidence from Asian FTAs in ESRC-GIFTA 3 on "Asian FTAs", India International Centre , New Delhi, November 16-17, 2015.
2. Presented a paper entitled Indian Information Technology Industry: Efficiency and Challenges in 34th conference in National Income and Wealth at IGIDR , Mumbai , November 20-21, 2015.
3. Presented a paper entitled Gender inequality in Punjab in national seminar entitled The Paradigm of Inequality in indai by Department of Sociology, Bebe Nanaki Guru Nanak Dev University College , Mithra , Kapurthala, January 15-16, 2016.
4. Presented a paper entitled An Empirical Analysis of Education and Growth in Punjab , ICSSR National Conference , 4th and 5th February , 2016, Central University of Punjab , Bathinda
5. Presented a paper entitled Has Bangladesh Explored is potential : Evidence from Gravity Model in First SANEM Annual Economists Conference, Dhaka, Bangladesh , February 20,2016.
6. Presented a Paper entitled Whether FDI or Exports enhance Innovation : Evidence From Indian Manufacturing Industries in Third Indialics International conference on innovation or sustainable development , Centre for Development Studies , Thiruvanthapuram , Kerala, March16-18, 2016.
7. presented a paper entitled crop failure , Indebtedness and suicides in Punjab : a case study of talwandi sabo in national seminar on "rural credit and financial penetration in Punjab , at crrid chandigarh on march 21-22, 2016.

Dr. Naresh Singla

1. "Indebtedness among Farmers in The Presence and Absence of Formal Credit Institutions in Patiala District of Punjab" presented at a National Seminar on 'Rural Credit and Financial Penetration in Punjab' on March 21-22 at CRRID, Chandigarh.

2. "Inequalities in ownership of operational land holdings in rural India" presented at one day national seminar on "Social Justice: Politico Legal Milieu" on March 02, 2016 organized by Centre for Law, Central University of Punjab, Bathinda.
3. "Role of Education (Human Capital) in Economic growth: Theoretical Perspectives" presented at an ICSSR sponsored National Seminar on 'Education for Sustainable Development' on February 4-5, 2016 at Central University of Punjab, Bathinda.
4. "Water Crisis and its impact on Punjab Agriculture" presented at an ICSSR sponsored National Seminar on 'Malwa Region Political, Economic and Socio-Cultural Aspects: Problems and Solutions' on January 20, 2016, DAV College Abohar.
5. "Inequalities in ownership of land holdings in Rural India", presented at UGC sponsored national seminar on 'The Paradigm of Inequality in India' on January 15-16, 2016 at Department of Sociology, Bebe Nanaki Guru Nanak Dev University College, Mithra, Kapurthala.
6. "Understanding Supply Chains of Fresh Food Supermarkets and their Impacts on Small Scale Producers in Punjab" presented at International Conference on Agri-Business in Emerging Economies on January 06-07, 2016 organized by Institute of Rural Management, Anand (IRMA) in collaboration with Whitman School of Management, Syracuse University, USA and Journal of Agribusiness in Developing and Emerging Economies at IRMA.
7. "Flow of Institutional Credit in Indian Agriculture: Is it Adequate", presented at a National Seminar on 'Role of Public Policy in Development Process (Emerging Economic/Social Scenario in the Indian Economy)' on January 04-05, 2016 at Sardar Patel Institute of Economic and Social Research (SPISER), Ahmedabad.
8. "Impact of Modern and Traditional Agricultural Markets on Small Scale Producers in India" presented at a National Seminar on Financing of Agriculture Value Chains: Challenges and Opportunities organized by NABARD and IFPRI on 29th and 30th November, 2015 at Banker's Institute of Rural Development (BIRD), Lucknow.
9. "Role of MGNREGA in Inclusive Development In India: Is There Any Role for Panchayati Raj Institutions (PRIs)?"presented at 57th Annual Conference of Indian Society of Labour Economics on October, 10-12, 2015 held at Central University of Kashmir, Srinagar (J&K).

Centre for Law

Dr. Deepak Kumar

1. Presented a paper entitled "Women Empowerment for Achieving Environmental Sustainability" **i**n 7th International Conference on Empowering Women, Empowering Humanity, organized by Women's Studies Centre, Punjabi University Patiala, December 11-12, 2015.

2. Presented a paper entitled "Globalization and its Impact on quality Assurance Accreditation and recognition of Qualifications" in a seminar on 'Quality Concerns in Higher Education' organized by Shree Satya Sai College, Karaiwala, Gidderbaha, Muktsar Sahib, Punjab and Sponsored by ICSSR, August 30-31, 2015.

3. Presented a paper entitled "The Right Of Children To Free And Compulsory Education In India- A Case Study Of City Bathinda" in a National Conference on 'Education for Sustainable Development' organized by Centre for Education, Central University of Punjab, Bathinda, Punjab and Sponsored by ICSSR, February 4-5, 2016.

4. Presented a paper entitled "Indian Laws on Victims Compensation" in a National Seminar on 'Social Justice: Politico Legal Milieu' organized by Centre for Law, Central University of Punjab, Bathinda, Punjab, March 2, 2016.

Centre for Sociology

Dr. Vindo Arya

1. **Presented a paper** titled 'From Duties to Rights: The Quest of Ambedkar for Human Rights of Dalits'in National Seminar "Ambedkar and Modernity" organized by Dr. Ambedkar Chair at the Centre for the Study of Social Systems, School of Social Sciences, JNU, New Delhi on 17-18 March 2016.

Awards and Honours

1. Dr. Anjana Munshi, Centre for Human Genetics

Certificate of Commendation for Research Publications with CIF more than 15 in the year 2014-2015.

Editorial Board member of the Journal "Austin Neurology"

2. Dr. Yogalakshmi K. N.

Received Best Teacher award in the 7th Foundation day celebrations, 2016

3. Dr. Malkhey Verma

- Ph.D. Student Excellence Award – 2004 by I.I.T. Bombay, India
- Selected in top 20 yeast scientists worldwide by Ministry of Science & Technology, Govt. of Japan in 2004

4. Dr. Jyoti Prakash

Student Achievement:

A. Ankur Jairath my PhD student has been selected under French Eiffel Fellowship Program for pursuing 10 months research in French Lab.

Reviewer Editor

Prof. V. K. Garg
EDITORIAL ACTIVITIES:

i) **Guest-Editor** for the special issues (Six issues) on "Solid Waste Management" for **International Journal of Environment and Waste Management** published by Inderscience Publishers, USA.

ii) **Guest editor** for special issue on "Solid Waste Management" for **World Reviews in Science, Technology and Sustainable Development** published by Inderscience Publishers, USA.

iii) **Member "Editorial Board**" of **Journal of Scientific and Industrial Research** Published by NISCAIR (CSIR), New Delhi from 2008-2010, 2010-2012, 2012-2014.

iv) **Member "Editorial Board**" of **Indian Science Abstracts** Published by NISCAIR (CSIR), New Delhi from 2010-2012, 2012-2014.

v) **Member "Editorial Board**" of **Journal Water Research and Development (**http://www.waterrnd.com/editorial-board.html)

vi) **Member "Editorial Board**" of **International Journal of Environmental Science and Ecotechnolgy (**http://ispjournals.com/editorial-board.php?journals_id=101)

vii) **Editor-in-Chief "Journal of Environmental Science and sustainability"** (online journal: www.jessresearch.com)

viii) **Member "Editorial Board"** for the **publication of the Proceedings** of the 16th National Symposium on Environment (NSE-16) organized by the Department of Environmental Science and Engg., Guru Jambheshwar University of Science and Technology, Hisar organized from 16-18 July, 2008.

ix) **Member "Editorial Board"** for the **publication of the Proceedings** of the National Seminar on 'Strategy for Mitigation of Environmental Degradation and Climate Change (SMED CC 2012) from March 2-3, 2012 under UGC SAP DRS-II.

x) **Convener** of the **Publication Committee** published the Compendium of lectures for the Refresher Course organized by the Department of Environmental Science and Engg., Guru Jambheshwar University of Science and Technology, Hisar in Oct., 2001.

xi) **Co-editor** of "**Green News**", Magazine published by the Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar (India).

Dr. Malkhey Verma

- Review Editor of Frontiers Systems Biology
- Review Editor Methods In Enzymology

Lecutres

Centre for Sociology

1. Dr. Seema Chopra Delivered lecture on Stress management on 17th Nov.2015
2. Prof. Vidhu Mohan, Former head Deptt. Of Psychology, Punjab University delivered lecture on Coping with Sexual Harassment on 28th Jan, 2016.
3. Prof. Vidhu Mohan, Former head Deptt. Of Psychology, Punjab University delivered lecture on Application of Counselling on 29th Jan, 2016.
4. Prof. B K Passi conducted virtual session on Futuristic Education on 15th October, 2015,
5. Prof. J K Dhillon from University of Worchester deliberated upon How to publish research paper in an international journal on 09 March, 2016.

Trainings

Dr. Sandeep Kaur

Completed Indialics Training Programme on Research Issues and Methods in Innovation Systems And Sustaibble Development at Centre for Development Studies , Thiruvanthapuram , Kerala, March14-20 , 2016.

Patents

Dr. Mahesh Kulharia

"METHOD and System for Identification of Isomorphs for Johnson and Strongly Regular Graphs in Polynomial Time"
The reference number assigned are E-12/124/2016/DEL and 201611009948.
The list of authors is as follows:
Mahesh Kulharia, Suchismita Mahato, Saurav Jindal, Surinder Singh Khurana and Vicky Kumar.

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