

## Resume of Prof. Sangeeta Saxena

**NAME** SANGEETA SAXENA

**DATE OF BIRTH** MARCH, 15, 1968

**QUALIFICATION** Post Doctorate: Molecular Biology/ Biotechnology (from SWEDEN)  
Ph.D.: Agriculture Microbiology  
M.Phil: Biotechnology  
M.Sc.: Agriculture Microbiology  
Qualified: NET- CSIR JRF and GATE

**AREA OF SPECIALIZATION** Molecular Biology, Molecular Virology, RNAi, Plant Biotechnology

**Present Position** **Professor**  
Department of Biotechnology,  
Babasaheb Bhimrao Ambedkar University  
(A Central University) , Vidya Vihar  
Rae Bareilly Road  
Lucknow- 226 025

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**Languages**

1. English (excellent)
2. Hindi (native language)
3. Urdu (working knowledge)
4. Swedish (working knowledge)

**Countries Visited**

1. SWEDEN (two years on post doctoral assignment at SLU, Umea , Sweden from Dec 1998 to Dec 2000)
2. U.S.A. (one month to visit Cornell University , Ithaca, New York in Jan 2000)
3. FRANCE (one week to attend EMBO workshop in Corsica in June 2000)
4. FINLAND (one week to visit Turku University , Turku, in June 1999)
5. China (one week to attend 7<sup>th</sup> International Geminivirus Symposium and 5<sup>th</sup> International ssDNA Comparative Virology Workshop during 3-9 Nov,2013)
6. Italy (One week) to attend an International Course "RNA structure and function" at ICGEB , Trieste during 19-22 March 2018.

**Academic Qualifications:**

<b><u>CERTIFICATE/ DEGREE</u></b>	<b><u>YEAR</u></b>	<b><u>BOARD/UNIVERSITY</u></b>	<b><u>DIVISION (%)</u></b>	<b><u>SUBJECTS</u></b>
<b>Post Doctorate</b>	1998-2000	Swedish University of Agricultural Sciences,Umea,Sweden	-----	Biotechnology
<b>Ph.D.</b>	1998	AMU,Aligarh / NBRI,Lucknow. India	-----	Ag. Microbiology
<b>M.Phil</b>	1994	AMU, Aligarh, India	<b>First (71.6)</b>	Biotechnology
<b>M.Sc.</b>	1990	AMU, Aligarh, India	<b>First (79.3)</b>	Ag.( Microbiology)
<b>B.Sc.(Hons.)</b>	1988	AMU, Aligarh, India	<b>First (71.4)</b>	Botany(Hons)
<b>Intermediate</b>	1985	U.P. Board,Allahabad, India	<b>First (73.4)</b>	Phy. Chem, Biology
<b>High School</b>	1983	U.P. Board,Allahabad, India	<b>First (72.6)</b>	Maths, Sc., Biology

**A. Teaching and Research Experience of more than 30 years .**

**Research Projects carried out /ongoing as principal investigator**

<b>Title of the Project</b>	<b>Name of the Funding Agency</b>	<b>Duraton</b>	<b>Remarks</b>
1. "Studies on genetic variability in papaya leaf curl geminivirus and its host plant(s) and interaction between an isolate, host and vector using PCR based analysis". <b>(Rs.12 lakh only)</b>	Awarded by " <b>DST Young Scientist Project</b> under SERC Fast Track Proposal for <b>Young Scientists 2001-2002</b> scheme from Dept. of Science & Technology, Government of India.	2002 - 2005	1. <b>Completed.</b> Work carried out as per objectives defined in the project. 2 Overall progress very good. ( as given in project evaluation report )
2. Developing one step multiplex PCR based diagnostic kit to detect viral diseases and desired sex in juvenile papaya for improved production. <b>(Rs. approx. 10 lakh)</b>	Awarded by University Grants Commission (Major Research Project), by <b>Dr. Sangeeta Saxena (PI)</b> and Prof. R.B. Ram (Co PI).	2010-2013	<b>Completed. Progress satisfactory</b> as evaluated on 14 June 2012. (published two international paper from this work)
3. <i>In-silico</i> search for potential siRNA sequences to develop geminivirus resistant papaya crop. <b>(Rs. approx 25 lakh only)</b>	Awarded by Department of Biotechnology, DBT ,Govt. of India R&D in "Basic Research Modern Biology" by <b>Dr. Sangeeta Saxena (PI)</b> and Dr. G. Sunil Babu (Co PI).	2010-2014 (August)	<b>Completed.</b> (two international publication from this work)
4. Role of miRNA(s) in <i>Carica papaya</i> leaf juice for accelerating blood platelet count during dengue fever (DH): An augment for Dengue therapy <b>(Rs.10,44,000)</b>	Awarded by CST,UP <b>Dr. Sangeeta Saxena (PI)</b> .	2015-2018	<b>Completed</b>
5. Identification and functional analysis of antiapoptotic HCMV miRNAs (Rs <b>Rs. 74. 88 lakhs</b> )	Awarded by DBT ,Govt of India As Co-PI	June 2017-2020	<b>Ongoing</b>

**AWARDS & HONOURS**

**14. Awarded** certificate of appreciation on the occasion of international women's day i.e. on 8 March 2017 **for being an outstanding academic and administrative professional.** Committee of basic facilities for Women, BBAU, Lucknow.

**13. Got 1<sup>st</sup> prize in Oral Session in National conference** on "Managing Threatening Diseases of Horticultural, Medicinal, Aromatic and Field Crops in Relation to Changing Climatic Situation" **Nov.-2012 held by CISH –ICAR Lucknow**

**12. Got a prize** for the paper in "International Conference on Molecular Biology and Biotechnology" **ICMBB 2008, held at Banasthali Vidyapith. Rajasthan -304 022, India.**

**11. First position in Orientation course** attended at Lucknow University from March 1, 2006 to March 31, 2006. with 85 percent marks **(Grade A).**

**10. Awarded Best Poster Award at IPS 2004.** (Indian Phytopathological Society)

**9. Awarded DST Young Scientist Project** under SERC Fast Track Proposal for **Young Scientists 2001-2002** scheme from Dept. of Science & Technology, Government of India (from 2002- 2005).

**8. Awarded Post Doctoral Fellowship from Swedish Council for Scientific Research and Natural Sciences ( NFR)** The Swedish University of Agricultural Sciences-, **SWEDEN** (from Dec. 1998 – Dec. 2000)

**7. Selected for & attended EMBO workshop 'Auxin 2000'** from 12 -19 May, 2000 in **Corsica, France.**

**6. Awarded Best Poster award at SBC 95.**(Society of Biological Chemists)

**5. Awarded Best Paper award at IPS 95.** (Indian Phytopathological Society)

**4. Qualified Joint CSIR-UGC Test** award of **JRF/ ELIGIBILITY FOR LECTURERSHIP** in Decr 1992 **(NET).**

**3. Qualified GATE-91.** (conducted by Indian Institute of Technology)

**2. Awarded Post-Graduate Meritorious Scholarship** during 1988-1990 (AMU, Aligarh).

**1. Awarded Senior Research Associateship (Pool officer)** from CSIR , New Delhi.(not availed)

## PUBLICATIONS of around 60 International and National Research Articles

60. K. Roopendra, A. Sharma, A. Chandra, **S. Saxena (September, 2018)** Gibberellin-induced perturbation of source–sink communication promotes sucrose accumulation in sugarcane. *3 Biotech* 8:418 <https://doi.org/10.1007/s13205-018-1429-2> (**Impact Factor 1.361**)
59. K. Roopendra, A. Chandra, **S. Saxena (August, 2018)** Increase in Sink Demand in Response to Perturbed Source–Sink Communication by Partial Shading in Sugarcane. *Sugar Tech* <https://doi.org/10.1007/s12355-018-0665-4> (**Impact Factor 0.807**)
58. Saurabh Verma and **Sangeeta Saxena (July, 2018)** In-silico investigation of betasatellite complexity in Papaya leaf curl disease complex.. *International Journal of Plant and Environment* 3:279-281. (ISSN No. 2454-1117).
57. Priyanka Varun and **Sangeeta Saxena (May, 2018)**. Association of tomato leaf curl Gujrat virus and tomato leaf curl Bangladesh betasatellite on papaya showing typical leaf curl symptoms in North India. *3 Biotech-Springer* ISSN No. 2190-5738 **Impact Factor 1.361**)
56. Kavita Kumari, Madan Lal and **Sangeeta Saxena (April, 2018)** Cumulative effect of thidiazuron and 1-naphthylacetic acid in massive root proliferation of micropropagated sugarcane plantlet. *Plant Root* 12:16-20. doi:10.3117/plantroot.12.16 Copyrights 2018, *Plant Root (JSRR)*, [www.plantroot.org](http://www.plantroot.org)
55. Virendra Jaiswal, **Sangeeta Saxena**, Ispreet Kaur, Priya Dubey, Sampurna Nand, Mariya Naseem, Suman B. Singh, Pankaj Kumar Srivastava, Saroj Kanta Barik (**April, 2018**) Application of four novel fungal strains to remove arsenic from contaminated water in batch and column modes. *Journal of Hazardous Materials* 356: 98–107, ISSN: 0304-3894 (**Impact Factor: 6.434**)
54. Kavita, Madan Lal and **Sangeeta Saxena ( March, 2018)** Effect of explanting season and source of explants on in vitro morphogenetic responses of shoot tip explants of sugarcane. *Research on Crops Vol. 19 No. 1*. ISSN 2348-7542 (**Scopus (Elsevier): Scientific Journal Ranking (SJR): 0.15, NAAS 4.0**)
53. Kavita Kumari, Madan Lal and **Sangeeta Saxena (August 2017)**. Enhanced micropropagation and tiller formation in sugarcane through pretreatment of explants with thidiazuron (TDZ). *3 Biotech-Springer*. ISSN No. 2190-5738 **Impact Factor 1.361**)
52. Saurabh Verma and **Sangeeta Saxena ( July 2017)** Dissecting Papaya Leaf Curl Disease (PLCD) Complex and Assessing its Potential for siRNA Based Targeting. *International Journal of Plant and Environment* 3:279-281. (ISSN No. 2454-1117).
51. Priyanka Varun, S.A.Ranade and **Sangeeta Saxena (May, 2017)**. A molecular insight into papaya leaf curl—a severe viral disease . *Protoplasma-Springer*. DOI 10.1007/s00709-017-1126-8(ISSN - 0033-183X) **Impact Factor-2.83**)
50. Virendra Shukla, **Sangeeta Saxena** and Sudeep Tiwari (2016). Caenorhabditis elegans as a toolkit for studying mammalian aging pathways. *Journal of Nutrition and Food Sciences*. Vol 6(5). (ISSN 2155-9600)
49. **Sangeeta Saxena**, Vijay K Singh and Saurabh Verma (2016). PCR mediated detection of sex and PaLCuV infection in papaya –A review. *Journal of Applied Horticulture*. 18(1) 80-84. (ISSN 0972-1045) (**NAAS Score 3.0**)
48. Kavita, M. Lal and **Sangeeta Saxena** (2016). Propogating Sugarcane in vitro: An opportunity for Indian sugar industry. *Agrica*. Vol (5) 7-19 (ISSN 2320-1193) (**NAAS Score 2.23**)
47. **Sangeeta Saxena** and Saurabh Verma (2016). Harnessing the genetic variability in Plant –Virus –Vector complex interaction in Begomovirus family to prevent viral disease outbreak. Book: Recent Advances in Applied Biosciences. ISBN No.978-93-84337-64-3.
46. Jyoti Verma, Dhiraj Kumar and **Sangeeta Saxena** (2016). Potential remediation of silk degumming solution a byproduct of silk industry using alkaline protease producing bacteria isolated from Northern India. *Der Pharmacia Lettre*. Vol 8(2) 393-397. (ISSN 0975-5071)
45. Kavita, **Sangeeta Saxena**, Anupam Anand and M. Lal. (2015). Use of antibiotics to control bacterial contamination during in vitro micropropagation of sugarcane. *Agarica*. (An international Journal of Plant Science Researches). Vol 4, June 2015. Page No. 41-44. (ISSN No.2320-1193) (**NAAS Score 2.23**)
- 44.**Sangeeta Saxena**, Jyoti Verma\*, Shikha, Dinesh Raj Modi (2014). RAPD-PCR and 16S rDNA phylogenetic analysis of alkaline protease producing bacteria isolated from soil of India: Identification and detection of genetic variability. *Journal of Genetic Engineering and Biotechnology (Elsevier)*. Vol12, 27-35 (ISSN: 1687-157X.)
43. **Sangeeta Saxena**, Ashish Kumar and Sunil G Babu (2014). Plant miRNAs: Key players in inter- kingdom and intra- kingdom gene regulation. *International Journal of Pharma and Bio Sciences*. Vol 5 No. 2, (B) 374- 389. (ISSN No. 0975- 6299 **impact factor 0.67**).
42. Sunil G. Babu, Abhishek Pandeya, Neelam Verma, Nikita Shukla, R. Venkatesh Kumar and **Sangeeta Saxena** (2014). Role of HCMV miR-UL70-3p and miR-UL148D in overcoming the cellular apoptosis. *Molecular and Cellular Biochemistry.(Springer)* ISSN 0300-8177 **Impact factor 2.39**)
41. Jyoti Singh, RS Sangwan, Sanjeev Gupta, Sangeeta Saxena, Neelam S Sangwan (2014). Profiling of triterpenoid saponin content variation in different chemotypic accessions of Centella asiatica L. *Plant Genetic Resources*.01/2014; ISSN: 1479-2621 ESSN: 1479-263X **Impact Factor 1.057**
40. Jyoti Singh , Farzana Sabir , Rajender Singh Sangwan ,Lokesh K. Narnoliya, **Sangeeta Saxena** and Neelam S. Sangwan. (2014) Enhanced secondary metabolite production and pathway gene expression by leaf explants-induced direct root morphotypes are regulated by combination of growth regulators and culture conditions in Centella asiatica (L.) urban. *Plant Growth Regulation. (Springer)* (DOI 10.1007/s10725-014-9931-y)June. 2014, Print ISSN 0167-6903 Online ISSN1573-5087) **impact factor 1.625**
39. Jyoti Verma, **Sangeeta Saxena** and Shikha.(2013) 16S rDNA based identification of alkaline protease producing alkaliphilic Bacillus sp isolated from dairy industry soil and evaluation of the enzyme potential in detergent formulation. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 01/2013; 4(4):1339-1349. (ISSN: 0975-8585, **impact factor 0.35**).

38. Jyoti Verma, Shikha, Dinesh R. Modi and **Sangeeta Saxena**. (2013). Characterization of novel alkaline protease producing *Streptomyces* from alkaline soil of Lucknow (U.P.) . India. **International Journal of Pharma and Bio Sciences**. Apr: 4(2): (B) 214-224. (ISSN -0975-6299, impact factor 0.67)
37. **Sangeeta Saxena**, Rupesh K Kesharwani , Vinayak Singh and Sarita Singh (2013). Designing of putative siRNA against geminiviral suppressors of RNAi to develop geminivirus resistant Papaya crop. **International Journal of Bioinformatics Research and Applications**. Vol 9 No.1.(ISSN No. (Online): 1744-5493 - (Print): 1744-5485 impact factor 0.466).
36. D.P. Sinha,, **Sangeeta. Saxena**, M.Singh and Shailesh K. Tiwari (2012). Phylogenetic relationship of coat protein genomic components of Chilli leaf curl virus. **Vegetable Science**. (ISSN -0970-6585)
35. Sukumar Mesapogu, Achala Bakshi, Bandamaravuri Kishore Babu, SS Reddy, **Sangeeta Saxena** and Dilip K. Arora (December 2011). Genetic Diversity and pathogenic variability among Indian isolates of *Fusarium udum* infecting pigeon pea (*Cajanus cajan* (L.) millsp.). **International Research Journal of Agricultural Science and Soil Science**. Vol1(10). (ISSN No.2251-0044, impact factor )
34. Jyoti Verma, Dinesh Raj Modi, Rajesh Sharma and **Sangeeta Saxena** (October 2011). Vital role of alkaline protease in bio-industries: A review. **Plant Archive**. Vol 11, No.2, 1083-1092 (ISSN No. 0972-5210 impact factor/NAAS rating 3).
33. G.Sunil Babu, S.S. Ponia, D.Kumar and **Sangeeta Saxena** ( October 2011). Cellular oncomiR orthologue in EBV oncogenesis **Computers in Biology and Medicine** (Elsevier) Vol 41, 891-898 (ISSN No. 0010-4825, impact factor 1.23)
32. **Sangeeta Saxena**, Nidhi Singh, S.A.Ranade and G.Sunil Babu. (August 2011). Strategy for a generic resistance to geminiviruses infecting papaya and tomato through *In-silico* siRNA search **Virus Genes**. Springer 43: 409-434.(ISSN No. 0920-8569, impact factor 1.769)
31. Sukumar Mesapogu, B. K. Babu, A. Bakshi, S.S.Reddy, **Sangeeta Saxena**, A.K.Srivastava and D.K. Arora ( July 2011). Rapid detection and quantification of *Fusarium udum* in plant and soil samples using Real Time PCR. **J. Plant Pathology Microbiology**, 2.2. (ISSN:2157-7471 JPPM an open access journal, impact factor 4.53) (<http://dx.doi.org/10.4172/2157-7471.1000107>)
30. D.P. Sinha,, S. Saxena, S. Kumar and M. Singh (April 2011). Detection of pepper leaf curl virus through PCR amplification and expression of its coat protein in *Escherchia coli* for antiserum production. **African Journal of Biotechnology**, 10 (17) ,3290-3295 (ISSN No.1684-5315, impact factor 0.565)
29. Srivastava, N., Chandra, R., **Saxena, S.** and Bajpai, (2010). A PCR Based Amplification And Detection of *Papaya Leaf Curl Virus* (PALCuV). Proceedings of **International Symposium on Papaya**. **Acta Horticulturae (ISHS)**, No. 851:241-246. (ISSN 0567-7572)
28. Anuj P. Srivastava, Ramesh Chandra, **Sangeeta Saxena**, Shailendra Rajan, Shirish A. Ranade and Vivek Prasad. (2007). A PCR-based assessment of genetic diversity, and parentage analysis among commercial mango cultivars and hybrids. **The Journal of Horticultural Science & Biotechnology**, 82 (6) 951-959. (ISSN: 1462-0316, impact factor: 0.862)
27. **Sangeeta Saxena**, S Rajan. R.Chandra, N Srivastava and A. Bajpai (2007). Molecular characterization of closely related open pollinated seedling selections in Guava. Proceedings of the First International Guava Symposium . **Acta Horticulturae (ISHS) No. 735 March 49-55**. (ISSN - 0567-7572)
26. **Sangeeta Saxena**, Anuj P. Srivastava, Ramesh Chandra, Manish Mishra and Shirish Ananad Ranade. (2005). Analysis of genetic diversity among papaya cultivars using Single Primer Amplification Reaction (SPAR) methods. **The Journal of Horticultural Science & Biotechnology**, May 291-296. (ISSN: 1462-0316, impact factor: 0.862)
25. Ana Espinosa-Ruiz\*, **Sangeeta Saxena**\*, Julien Schmidt\*, Ewa Mellerowicz, Pal Miskolczi, Lazlo Bako and Rishikesh P. Bhaleroa (2004). Differential stage-specific regulation of cyclin –dependent kinases during cambial dormancy in hybrid aspen. **The Plant Journal**., May, 38 (4):603-15. ( \* authors contributed equally to the paper).( ISSN: 0960-7412, Impact factor 6.946)
24. Richard Moyle, Jarmo Schrader, Anneli Stenberg, Olof Olsson, **Sangeeta Saxena**, Göran Sandberg, Rishikesh P Bhalerao (2002). Environmental and auxin regulation of wood formation involves members of the *Aux/IAA* gene family in hybrid aspen. **The Plant Journal**., September 31(6): 675-686.(ISSN: 0960-7412, Impact factor 6.946)
23. **Saxena S**, Hallan V, Singh BP and Sane PV (1998a). Leaf curl disease of *Carica papaya* from India may be caused by a bipartite geminivirus. **Plant Dis.**, 82(1): 126. (ISSN:0191-2917, Impact factor 1.795)
22. **Saxena S**, Hallan V, Singh BP and Sane PV (1998b). Evidence from nucleic acid hybridization test for a geminivirus infection causing leaf curl disease of papaya in India. **Indian J. Exp. Biol.**, 36: 229-232. (ISSN:0019-5189 Impact factor 0.599 )
- 21 **Saxena S**, Hallan V, Singh BP and Sane PV (1998c). Nucleotide sequence and intergeminiviral homologies of the DNA-A of papaya leaf curl geminivirus from India. **Biochem. Mol. Biol. Int.**, 45(1): 101-113.( ISSN: 1039-9712 now renamed as IUBMB Life, International Union of Biochemistry and Molecular Biology, ISSN; 1521-6543, Impact factor 2.86)
20. Raj SK., **Saxena S**, Hallan V and Singh BP (1998). Reverse Transcription-Polymerase Chain Reaction (RT-PCR) for the detection of cucumber mosaic virus in gladiolus. **Biochem. Mol. Biol. Int.**, 44(1): 89-95. (ISSN: 1039-9712 now renamed as IUBMB Life, International Union of Biochemistry and Molecular Biology, ISSN; 1521-6543 ISSN; 1521-6543 Impact factor 2.86).
19. Hallan V, **Saxena S** and Singh BP (1998). Yellow net of *Triumffeta* is caused by a geminivirus: A First Report. **Plant Dis.**, 82 (1):127. (ISSN:0191-2917, Impact factor 1.795)
18. Hallan V, **Saxena S** and Singh BP (1998). *Ageratum*, *Croton* and *Malvastrum* harbour geminiviruses: evidence through PCR amplification. **World J. Microbiol. Biotech.** 11 (1). 74 (ISSN:0959-3993 (print version), Impact factor 0.945 )
17. **Saxena S**, Ashok BT and Musarrat J (1997). Mutagenic and genotoxic activities of four pesticides: Captan, Foltaf, Phosphamidon and Furadan. **Biochem. Mol. Biol. Int.**, 41: 1125-1136.( ISSN: 1039-9712 now renamed as IUBMB Life, International Union of Biochemistry and Molecular Biology, ISSN; 1521-6543 Impact factor 2.86))
16. Ashok BT, **Saxena S**, Singh KP and Musarrat J (1995). Biodegradation of Polycyclic aromatic hydrocarbons in soil around Mathura oil refinery, India. **World J. Microbiol. Biotech.**, 11: 691-692. (ISSN:0959-3993 (print version), Impact factor 0.945 )

15. Ashok BT, **Saxena S** and Musarrat J (1995). Isolation and characterization of four polycyclic aromatic hydrocarbon degrading bacteria from soil near an oil refinery. *Letters Appl. Microbiol.*, 21: 246-248. (ISSN: 0266-82540, Impact Factor 1.62)

14. Ashok BT and **Saxena S** (1995). Biodegradation of polycyclic aromatic hydrocarbons: A review. *J. Sci. Ind. Res.*, 54: 443-451.( ISSN:0022-4456 Impact factor 0.387)

#### Books and Chapters in Books

13. **Published a book chapter** - Nikita Shukla, Virendra Shukla, **Sangeeta Saxena (2018)**. Plant miRNAs and phytomolecules as anti-cancer therapeutics. Book:- Anticancer Plant Properties and Applications (Springer Nature) ISBN 978-981-10-8416-4.

12. **Published a book chapter-** Priyanka Varun and **Sangeeta Saxena (2018)** . **Role of women scientists in the development of science and society: Past, present and future.** Reinventing the Women: Past, Present and Future. APP Press. ISBN: 978-81-932605-0-0

11. **Published a book chapter-** **Sangeeta Saxena (2017)** . **Dr. A.P.J. Abdul Kalam: A missile man. A true Yogi Scientist.** The Indian Global thinkers, Ideas, thoughts and contributions. APP Press. ISBN: 978-81- 932605-4-8

10. **Book edited: Begomoviruses: Occurrence and Management in Asia and Africa (2017) Editors: Sangeeta Saxena & A. K. Tiwari. Published by Springer Nature. ISBN: 978-981-10-5983-4**

9. **Published a book chapter-** Priyanka Varun and **Sangeeta Saxena (2017)** **Leaf curl disease of Carica papaya.** Begomoviruses: Occurrence and Management in Asia and Africa, Springer Nature. ISBN: 978-981-10-5983-4

8. **Published a book chapter-** Priyanka Varun and **Sangeeta Saxena (2017)** **Transmission of begomoviruses.** Begomoviruses: Occurrence and Management in Asia and Africa, Springer Nature. ISBN: 978-981-10-5983-4

7. **Published a book chapter-** Saurabh Verma and **Sangeeta Saxena (2017)** **Recent advancement in diagnosis of begomoviruses.** Begomoviruses: Occurrence and Management in Asia and Africa, Springer Nature. ISBN: 978-981-10-5983-4

6. **Published a book chapter-** Nikita Shukla, Saurabh Verma, G Sunil Babu and **Sangeeta Saxena (2017)**. Strategy for generic resistance against Begomoviruses through RNAi Begomoviruses: Occurrence and Management in Asia and Africa, Springer Nature. ISBN: 978-981-10-5983-4

5. **Published a Book Chapter-** **Sangeeta Saxena** and Saurabh Verma (2016). Harnessing the genetic variability in Plant –Virus –Vector complex interaction in Begomovirus family to prevent viral disease outbreak. Book: Recent Advances in Applied Biosciences. ISBN No.978-93-84337-64-3.

4. **Published a book chapter-** “**ELISA –Based Identification and Detection of Microbes**” in Analyzing Microbes- Manual of Molecular Biology Techniques. Springer Protocols Handbooks. **Springer- Verlag Berlin Heidelberg 2013**. By Jyoti Verma , **Sangeeta Saxena** and Sunil G. Babu. **ISSN-1949-2448**

3. **Sangeeta Saxena (2010)**. A Review article “Plantibodies-Therapeutics in your garden” to Lucknow University, Refresher course. Refresher course: at Lucknow University in biological studies –Biotechnology from January 9,-januray 30, 2010. Has a value of one published paper (as per UGC norms see encl.no. )

2. . **Published a book chapter “Papaya”** in Genome Mapping and Molecular Breeding in Plants, Volume 4,333-351, Fruits and Nuts C.Kole (Ed). **Springer-Verlag Berlin Heidelberg, 2007**. . By: Maneesh Mishra, Ramesh Chandra and **Sangeeta Saxena**. **ISBN -10 3-540-34531-0 Springer Berlin Heidelberg NewYork**  
**ISBN -13 978-3-540-34531-2 Springer Berlin Heidelberg NewYork**

1. **Published one chapter on Proteins** in the e-book on **Biomolecules (introduction, structure & function)** by NISCAIR (CSIR), New Delhi. By: M. Y. Khan and **Sangeeta Saxena (2007)**. <http://nsdl.niscair.res.in/bitstream/123456789/96/4/out.html>  
**no.: 123456789/96/4/niscair**

### Research Guidance 8 Ph. D. students till date

8. Priyanka Varun. Department of Biotechnology, Babasaheb Bhimrao Ambedkar University. Lucknow “**Development of generic resistance strategy against PaLCuV infection based on viral genomic variability**” (submitted+ Pre Ph.D. viva completed)

7. Kriti Roopendra. Department of Biotechnology, Babasaheb Bhimrao Ambedkar University. Lucknow. “**Transcriptome analysis of source sink dynamics associated with sugar accumulation in sugarcane**”( submitted+ Pre Ph.D. viva completed)

**This is to certify that following students have completed their Ph.D. Thesis under the guidance of Dr. Sangeeta Saxena.**

6. Saurabh Verma. Department of Biotechnology, Babasaheb Bhimrao Ambedkar University. Lucknow. “**A study on siRNA mediated resistance against Papaya Leaf Curl Virus (PaLCuV)**” (5.03.2019)

5. Kavita Kumari. Department of Biotechnology, Babasaheb Bhimrao Ambedkar University. Lucknow. “**Improvement in micropropagation protocol for rapid seed production and fidelity analysis of plants using molecular markers in sugarcane**” (20.12.2018)

4. **Jyoti Singh** Department of Biotechnology, Babasaheb Bhimrao Ambedkar University. Lucknow. “**Studies on biochemical, molecular and metabolic factors affecting the secondary metabolism in Centella asiatica L., a medicinally important plant.**” (28.05.2015)

3. **Jyoti Verma** Department of Biotechnology. Babasaheb Bhimrao Ambedkar University. Lucknow. “**Studies on genetic variability of Alkaline Protease Producing Bacteria from soil.**” (11.04.2014).

2. **Sukumar Mesapogu** Department of Biotechnology. Babasaheb Bhimrao Ambedkar University, Lucknow. **“Identification and detection of *Fusarium udum* by using species specific oligonucleotide primers and probe.”**(25.02.2014).

1. **Daimond Prakash Sinha** Department of Biotechnology. Babasaheb Bhimrao Ambedkar University, Lucknow. **“Molecular characterization of virus causing leaf curl disease in Pepper (*Capsicum annum L.*)”**(13.11.2013).

## Invited Lectures at SEMINARS/CONFERENCES/WORKSHOPS

81. **Resource person** in “Seven Days National Workshop on Research Methodology “ organized by department of Rural Management, BBAU, Lucknow. March 8-March 14, 2019.

80. Participated in One day Seminar on “ Latest Trends in Biotechnology for the benefit of Uttar Pradesh” organized by CST, UP, on 12 march 2019.

79. Participated in Annual BSBE winter meeting on” Computational Biology in Disease Mechanism” held at IIT Kanpur, Dec.7-9 2018.

78. **Attended, international course** on “**RNA Structure and Function** and presented an oral talk in addition to poster presentation on “Plant miRNAs: Do they play a key role in Cross Kingdom Gene Regulation?” held during 19-22 March 2018 at Trieste-Italy (**International Course**).

77. **Delivered an invited lecture** on “why studying genomic variability of viruses is important??” at International symposium of microbes for sustainable development: Scope and applications (MSDSA 2017) held during 16-19 November 2017 at BBAU, Lucknow.

76. **Attended , participated and presented a paper** on “How the simple act of being with nature can make you happy and creative : Combining nature with city life, at National Conference on Tourists and Green spaces: Healthier lifestyle approaches from nature held at Babasaheb Bhimrao University, Lucknow during 15 &16 July 2017

75. **Attended , participated and gave an oral presentation** on “RNA Interference in Agricultural Sciences Lucknow Science Congress LUSCON- 2017 held at Babasaheb Bhimrao University, Lucknow during 3-4 March,2017.

74. **Keynote Speakers at National Seminar on Advances in Plant Science Frontier: Development and Environment** held on 26-27 November 2016 at Deptt. of Botany, Gandhi Faiz-e-Azam College, Shahjahanpur. U.P. Title: RNA Interference in Agricultural Sciences.

73. **Delivered an invited lecture on “RNAi technology”** on September 9, 2016 in a workshop on Recent Trends in Bioinformatics and Computational Biology : An Introduction. during September 07-09,2016 at Biotech Park, Lucknow

72. **Attended, participated and presented a paper** on “Identification of Genetic Diversity in Papaya Leaf Curl virus Isolates using Genomic and Proteomic Approach”, in 3<sup>rd</sup> Lucknow Science Congress and National Conference on “Science For Society: An Interdisciplinary Approach” Held at Babasaheb Bhimrao Ambedkar University, Lucknow, **October 31<sup>st</sup> -2<sup>nd</sup> November, 2015.**

71. **Attended, participated and presented a paper** on “Plant miRNAs and their Suggestive Therapeutic Role in Disease Management in 26<sup>th</sup> All India Congress of Zoology and International Symposium on Innovation in Animal Sciences for Food Security, Health Security and Livelihood, Held at Babasaheb Bhimrao Ambedkar University, Lucknow **October 29<sup>th</sup> -31<sup>st</sup> , 2015.**

70. **Delivered an invited lecture** on “Bioinformatics and Cheminformatics Approaches in Computational Aided Drug Designing” at Biotech Park, Lucknow during **October 15<sup>th</sup> -17<sup>th</sup> , 2015.**

69. **Attended**, one Week Workshop on “**Ethical Hacking and Information Security (EHIS-2015)** organized by department of Information and Technology, at Babasaheb Bhimrao Ambedkar University, Lucknow during **06<sup>th</sup> -12<sup>th</sup> August 2015**

68. **Delivered an invited lecture** on “**Recent advances in Bioinformatics: Agri and Biomedical Informatics**” at Biotech Park, Lucknow during **July 23-25, 2015.**

67. **Attended , participated and presented a paper** on “**Disease Free Papaya Cultivation- Integrated Hi-tech Horticulture For Improved Production** in “2<sup>nd</sup> National Seminar on “Hi-Tech Horticulture: Challenges and Opportunities” held at Babasaheb Bhimrao University, Lucknow during Feb 26-27, 2015 .

66. **Delivered an invited lecture** on “**siRNA as a therapeutic molecule**” in a workshop on “**Applications of Molecular Dynamics n Molecular Modeling and Drug Designing**” at Biotech Park, Lucknow during **February 26-28,2015**

65. **Attended, organized and presented an invited lecture** entitled “ **Techniques for Gene Annotation**” in Hands on Training Workshop on **SEM, FTIR, FPLC and Ion Chromatography** organized by USIC, Babasaheb Bhimrao University, Lucknow during Feb 18<sup>th</sup> -20<sup>th</sup> , 2015

64. **Attended , participated and presented a paper** on “**Nanoparticles mediated siRNA delivery to introduce virus resistance in plants:A possible approach**” in “International Pharmaceutical Conference-2015 on Nanoformulations and translational research: Small getting bigger” held at Babasaheb Bhimrao University, Lucknow during Feb 02-03, 2015 . **(International Conference)**

\*63. **Attended , participated and presented oral paper** on “**Harnessing the genetic variability in Plant-Virus-Vector Complex interaction in Begomovirus family to prevent viral disease outbreak**” in “International Symposium On Biodiversity: Status, Utilization and Impact of Challenging Climatic Conditions” held at Babasaheb Bhimrao University, Lucknow during 30-31 October-2014 . **(International Conference).**

- \*62. Attended , participated and presented oral paper on “Silencing the Stress with Molecular Silencers” in “International Symposium On Innovations in Horticulture for Nutritional Security, Conserving Biodiversity and Poverty Alleviation ”held at Babasaheb Bhimrao University, Lucknow during 16-18 October-2014 . .(International Conference)**
- 61. Delivered an invited lecture on “siRNA designing” in a workshop on “Cheminformatics: Applications in Drug Designing at Biotech Park, Lucknow during October 15 –17, 2014**
- 60. Delivered an invited lecture on “RNAi Technology” in a workshop on “Application of Computational Biology, System Biology & RNAi Technology in Agriculture & Healthcare” at Biotech Park, Lucknow during July 22 – 24, 2014**
- \*59. Attended , participated and presented an invited talk on “ Targetting Human Genes with plant miRNA” in International Conference on Modling and Computing (ICMC-2014) held at Babasaheb Bhimrao University, Lucknow during 10-11 July,2014. .(International Conference)**
- 58. Delivered a lead lecture on “Engineering Crop Improvement through RNAi” at National Seminar-cum-Workshop on ‘Physiology of Flowering in Perennial Fruit Crops at Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow during May 24-26, 2014.**
- 57. Attended , participated and presented a poster on “Developing one step multiplex PCR based diagnostic kit to detect viral diseases and desired sex in juvenile papaya for improved production” in 2<sup>nd</sup> Lucknow Science Congress LUSCON- 2014 held at Babasaheb Bhimrao University, Lucknow during 27- 28 March,2014.**
- 56. Attended and participated and presented a poster on “Gene Flow” at “International Conference on Environmental Technology and Sustainable Development: Challenges & Remedies” held at Babasaheb Bhimrao University, Lucknow during 21<sup>st</sup>- 23<sup>rd</sup> February 2014.(International Conference)**
- 55. Delivered an invited lecture on “Gene Annotation” in a workshop on “Cheminformatics: Advances in In-silico Drug Designing” at Biotech Park, Lucknow during 20- 22 february, 2014.**
- 54. Attended and presented a paper on “Engineering Generic Resistance Against Geminiviruses : siRNA (Small Interfering RNA) Mediated Approach” in 101<sup>st</sup> Indian Science Congress (women Science congress) held at University of Jammu, J & K, during 3<sup>rd</sup>- 7<sup>th</sup> February, 2014. (International Conference)**
- 53 Delivered invited lecture on “Gene Flow From Genetically Engineered Crops” in a NAIP sponsored National training programme on “Environmental Biosafety Issues Associated with Genetically Engineered Crops” organized by Central Institute for Subtropical Horticulture, ICAR Lucknow from 3-16<sup>th</sup> Dec. 2013.**
- 52. Delivered invited lecture on “Micro and siRNA Applications in Crop Improvement”. in a NAIP sponsored National programme on “MAS for molecular breeding in fruits” organized by Central Institute for Subtropical Horticulture, Lucknow from 11-24 Nov. 2013 (on 23 Nov. 2013).**
- 51. Attended, participated and presented a lecture on “ In-Silico Designing Of siRNA For Genetic Resistance To Geminiviruses: Its Application In Geminiviral Disease Management” in the 7<sup>th</sup> International Geminivirus Symposium & 5<sup>th</sup> International ssDNA Comparative Virology Workshop held at Hangzhou, China during Nov 3- 9, 2013. (international Conference)**
- 50. Delivered Invited Lecture as Resource Person:**  
Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators, entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on **“Recent Trends in Structural Biology & Drug Designing” Oct 24-26, 2013** at Biotech Park, Lucknow. I was invited to deliver a lecture in the above Workshop
- 49. Attended , participated and presented a paper at National Conference on Women Power in Cutting Edge Biotechnology, held at Amity University , Lucknow. during 17-18 October 2013.**
- 49. Attended, Participated and presented the paper in oral session at National Seminar on Trends and Advances in Plant Sciences held at Department of Botany , Aligarh Muslim University, Aligarh during September 21-22, 2013.**
- 48. Delivered a lecture on the topic “ Introduction to Genomics and Proteomics” on 10 August, 2013 in Biotechnology Finishing School at Biotech Park, Lucknow**
- 46. Delivered Invited Lecture as Resource Person:**  
Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators, entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on **“Role of Bioinformatics in Agriculture & Health Care” from June 20-22,, 2013** at Biotech Park, Lucknow. I was invited to deliver a lecture in the above Workshop
- 45. Delivered Invited Lecture as Resource Person:**  
Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators, entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on **“Molecular Simulations and Drug Design” from March 21-23, 2013** at Biotech Park, Lucknow. I was invited to deliver a lecture in the above Workshop
- 44. Attended, Participated and presented a talk (small interfering RNA with big leap-by Sangeeta Saxena) at Lucknow Science Congress 2013 (LUSCON) held at Babasaheb Bhimrao Ambedkar University, Lucknow during March 20-21, 2013**
- 43. Attended , Participated and Delivered an Invited talk on “IPR in Biotechnology” at One day Patent Workshop held at Babasaheb Bhimrao Ambedkar University, Lucknow during March 18, 2013**
- 42. Delivered a lecture as Invited Speaker (Use of si RNA-----disease management -by Sangeeta Saxena) at National Seminar on Stress, Development and Adaptation: Biochemical Basis and Biotechnological Approaches organized by Department of Biochemistry, University of Lucknow , held at Lucknow during March 15-16, 2013**

**41. Delivered a lecture on the topic “ Introduction to Genomics and Proteomics” on 11 February 2013** in Biotechnology Finishing School at Biotech Park, Lucknow

**40. Attended ,Participated and Delivered a keynote lecture as Invited Speaker** (siRNA based approach..... in changing weather conditions- by Sangeeta Saxena, S. A. Ranade and Sunil G. Babu) in National conference on “Managing Threatening Diseases of Horticultural, Medicinal, Aromatic and Field Crops in Relation to Changing Climatic Situation” Nov.-2012 held by CISH –ICAR Lucknow (**Got 1<sup>st</sup> prize in oral session on this paper**)

**40. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Chemoinformatics**” from **December 27-28 2012** at Biotech Park, Lucknow. I was invited to deliver a lecture in the above Workshop

**39. Delivered Invited Lecture as Resource Person:**

In Biotech Park , Lucknow under Biotechnology Finishing School “ **Professional Bioinformatics Training Programme**” from **Nov 19-24,2012** to empower students and researchers.

**36. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Drug Discovery: Design Methods and Applications**” from **September 11-13, 2012** at Biotech Park, Lucknow

**38. Sangeeta Saxena and Sunil G. Babu .Attended “80<sup>h</sup> Annual meeting of SBC (I) held at Central Institute of Medicinal and Aromatic Plants, Lucknow during 12-15 Nov,2011** and presented poster entitled ***In-silico* designing of siRNA targeting geminiviral suppressors of plant RNAi: Its application in geminiviral disease management**

**37. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Recent Advances in Structure – based Rational Drug Designing**” from **October 12-14, 2011** at Biotech Park, Lucknow.

**35. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Bioinformatics: In-silico aspect of Drug Designing**” from **June 23-25,2011** at Biotech Park, Lucknow.

**34. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**In-silico Drug Discovery Based on the Integration of Bioinformatics and Chemoinformatics**” from **Feb 23-25,2011** at Biotech Park, Lucknow.

**33. Delivered on line National Level lecture** entitled “Functional Genomics” in the Virtual Class Room (National Knowledge Network Project) of the University on **January 13, 2011**

**32. Attended Training Workshop on “Advances in Biotechnology”** for one week 8-13 November 2010, New Delhi, organized by The Energy and Resource Institute,TERI New Delhi, sponsored by Department of Science and Technology.

**31. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Structural Biology and Bioinformatics in Drug Dsign**’ from **October 6-8 2010** at Biotech Park, Lucknow.

**30. Delivered lecture as Invited Speaker, Chaired a Session and Participated (*In-silico* designing of siRNA: Its role in functional genomics and viral disease management by Sangeeta Saxena)** at National Conference on Cellular and Molecular Immunology held at Department of Biochemistry, Andhra university, Visakhapatnam,Andhra Pradesh,India during **25-26 September,2010**.

**29. Submitted and got accepted a paper entitled “Does miR BART -5 plays a role in epigenetic changes associated with Colorectal carcinoma? 14<sup>th</sup> International Congress of Immunology (ICI2010), at Kobe, Japan (August 22-Aug27, 2010) but could not present it due to paucity of funds (only Rs. 40,000 sanctioned from University unassigned grant as against Rs 95,000/- required).**

**28. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators, entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Bioinformatics and Molecular Modeling in Drug design**’ from **June 23-25, 2010** at Biotech Park, Lucknow.

**27. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Drug Design Approaches: Molecular Modeling, Computational Chemistry & RNAi Applications**” from **February 23-25, 2010** at Biotech Park, Lucknow.

**26 .Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on “**Role of Chemoinformatics, Pharmacoinformatics & Bioinformatics in Rational Drug Designing**” from **October 8 – 10, 2009** at Biotech Park, Lucknow.



**25. Delivered Invited Lecture as Resource Person:**

Under the Training Programmes sponsored by DBT, a workshop ( foundation course for researchers, academicians, administrators,entrepreneurs engaged in biotechnology/bioinformatics / statistical / biological /chemical / information technology areas.) was organized on **"Bioinformatics; Application and Current Approaches"** from **June 10-12, 2009** at Biotech Park, Lucknow.

**24. Delivered Invited Lecture as Resource Person:**

Summer Course on Fish Biotechnology sponsored by Education Division of ICAR at National Bureau of Fish Genetic Resources, Lucknow, to impart training to Scientist/Assistant Professors and above in the field of molecular biology and biotechnology.(Aug 7-27,2007).

**23. Attended International workshop** of two weeks (Theoretical and practical course) on **"Geminivirus Genome and its Impact on RNAi"**, (**9-21 Novembr,2009**) organized at ICGEB (International Centre for Genetic Engineering and Biotechnology), New Delhi.( **International workshop**)

**22 Sangeeta Saxena** and Sunil G. Babu .Attended "78<sup>th</sup> annual meeting of SBC (I) held at National Centre for Cell Science and University of Pune during October 30- Nov.1, 2009 and presented paper entitled "Does miR-BART-5, play a role in epigenetic changes associated with Colorectal carcinoma?"

**21. Attended Workshop** on "Bioinformatics and its Application in RNAi" held at Biotech Park, Lucknow. Department of Biotechnology,Govt.of India. Biotech Park, **February 17-19,2009.**

**20.Attended a workshop " Capacity Building of Women Managers in Higher Education- Sensitivity/ Awarenness/ Motivation (SAM)** organized by **University Grants Commission** at Kirori Mal College, University of Delhi, From January **27-31,2009**

**19. Sangeeta Saxena**, Nidhi Singh and S.A.Ranade: Targetting geminiviruses using siRNA based gene silencing. Presented at **"International Conference on Molecular Biology and Biotechnology"** held at Deptt. of Bioscience and Biotechnology, Banasthali University, Rajasthan, during 19-21 October, 2008 (**GOT A PRIZE FOR THIS PAPER**)

**18. Attended Workshop** on Bioinformatics: *In- silico* study of DNA and protein structure and function" held at Biotech Park, Lucknow. Department of Biotechnology, Govt.of India. Biotech Park, **March 7-8,2008.**

**17. Attended workshop** in "Census 2001-Data Results" sponsored by Directorate of Census operation" held at B.B.A.U. on **January 4, 2008.**

**16. Sangeeta Saxena**, Nidhi Singh and S.A.Ranade. *In - silico* search for potential siRNA sequences to develop geminivirus resistant fruit crops. **Oral Presentation** in **"International Symposium** on viruses of ornamental and temperate fruit crops" held at Palampur (H.P.)from **17-18 Dec, 07.**

**15. Attended workshop** in **"IPR in Biotechnology"** sponsored by BCIL, held at hotel Clarks Awadh, during March 15-16, **2007.**

**14. Sangeeta Saxena**, S. Rajan, R. Chandra, Navin Srivastava and Anju Bajpai. "Molecular characterization of closely related open pollinated seedling selections". Presented at **1st International Guava Symposium**, held at CISH, Lucknow, during December 05-08,2005.

**13. Sangeeta Saxena\* and K.N.Singh.** Papaya Leaf Curl Resistant Transgenic Papaya for improved papaya production. Presented at 74 th SBC (I) Annual meeting held at CDRI, lucknow during Novemver 07-10, 2005.

**12. Sangeeta Saxena** , Navin Srivastava and Ramesh Chandra. "Polymerase Chain Reaction (PCR) and Sequence Analysis based diagnostics to detect Papaya Leaf Curl Geminivirus."  
**Presented In Zonal Meeting of IPS (Indian Phytopathological Society. & National Symposium on "Detection and Management of Plant Diseases Using Conventional and Modern Tools"** held on 31 December 04, at Lucknow. **.AWARDED BEST POSTER AWARD**

**11.Julien Schmidt , Sangeeta Saxena** , Lazlo Bako and Rishi Bhalerao " Dormacy and control of cell cycle in hybrid aspen." Submitted at **International Society for plant molecular biology,(ISPMB, 7<sup>th</sup> international congress of plant molecular biology) held at Barcelona**, during 23-28 June,2003, and also at Tree Biotechnology held in **Umea, Sweden** during June 7-12 2003.

**10. Attended "Roving Seminar on IPR in Biotechnology"** sponsored by Department of Biotechnology (Govt.of India) in collaboration with WIPO Geneva, on 4 October 2002 at CIMAP Lucknow

**9. Sangeeta Saxena**, Jarmo Schrader, Goran Sandberg and Rishikesh Bhalerao. "Regulation of cell cycle during wood formation in hybrid Aspen". Presented at **International conference "Auxin 2000" by EMBO** held in **Corsica, France** during 12 -19 May, 2000.  
Workshop proceedings summarized in **"Auxin molecular biology "by Perrot-Rechenmann, C. and Hagen, G. kluwer Academic Publisher. ISBN No. 978-1-4020-0646-3.**

**8. Sangeeta Saxena**, Vipin Hallan, B.P. Singh and P.V. Sane. "Genome organization of DNA-A of papaya leaf curl geminivirus". Presented at **International Symposium on Plant Molecular Biology** held in **National Botanical Research Institute Lucknow** during 27 Dec 1997-2Jan 1998.

**7. Sangeeta Saxena**, Vipin Hallan, B.P. Singh and P.V. Sane. "Papaya leaf curl virus is a distinct whitefly transmitted geminivirus from India". Presented at **International Conference of Indian Phytopathological Society Golden Jubilee held in New Delhi** during 10-15 Nov,1997 (P1A005).

**6. Sangeeta Saxena**, B.P. Singh and P.V. Sane. "Immuno/nucleic acid based diagnostics against papaya ring spot and papaya leaf curl viruses". **Presented at 64th Annual Meeting of Society of Biological Chemist (India) held in Lucknow** during Oct. 6-8, 1995 (P2D64). **AWARDED BEST POSTER AWARD**

**5. Sangeeta Saxena**, K.M. Srivastava, R.K. Raizada, A.A. Zaidi and B.P. Singh "Detection of Papaya leaf curl virus through Nucleic Acid based probes". **Submitted in National Symposium on the Role of Plant Biotechnology in Improving Agriculture- challenges and opportunities and physiological and biochemical basis of crop yield held in Jaipur**, March 23-25, 1995.

**4. Sangeeta Saxena**, K.M. Srivastava, R.K. Raizada, A.A. Zaidi and B.P. Singh. "Biochemical and immunological characterization of Papaya ring spot virus occurring in India". **Presented at Indian Phytopathological Society held at NDUAT Kumarganj, Faizabad** during January 17-18, 1995 . **AWARDED BEST PAPER AWARD**

**3. Sangeeta Saxena**, K.M. Srivastava, R.K. Raizada, Santha Devi and B.P. Singh. "E.M. Based cytopathological studies: An aid for a Papaya virus identification". **Submitted at the XIX Conference of the Electron microscope Society of India, held at NPL, New Delhi**, Dec., 21-23, 1994.

2. **Sangeeta Saxena**, B.T. Ashok and Javed Musarrat. "Studies on the pesticide induced DNA damage and mutagenesis". **Presented at the 61st Annual General Body Meeting of the Society of Biological Chemists (India) held at CCMB, Hyderabad**, December 21-23, 1992.

1. Shamim Ahmad and **Sangeeta Saxena**; "Statistical analysis of inter and intragenetic R-factor transfer studies among Gram negative bacteria". **Presented at the 61st Annual General Body Meeting of the Society of Biological Chemists (India) held at CCMB, Hyderabad**, December 21-23, 1992.

#### Administrative Work

##### 2011-2012

16. **Co-ordinator, Department of Biotechnology, BBAU. (Charge taken in Sept. 2011)**

15. **Chairperson, Departmental Research Committee.** (Department of Biotechnology) (vide letter no. 2528/BBAU/A/09 dated 16-03-09)

14. **Chairperson Board of Post Graduate Studies** (Department of Biotechnology)

13. Member, School Board of SB&BT (vide letter no. 2405/BBAU/12 dated 25.01.2012)

12. Member, RDCU DBT (being DRC member).

11. Member, Academic Council (vide letter no. 08/BBAU/12 dated 02/04/2012)

10. **Co-ordinator, Information and Guidance Bureau, BBAU, Lucknow (Aug 2007)** (office order no. 941-/BBAU/07 dated 27.08.07-14.02.2012)

*Counseling of students on various career and higher education and competitive exams Fellowships for both P.G. and Ph.D. courses with information for getting educational loans from various Indian banks as well as other GOI's students welfare schemes.*

9. Chairperson, to Conduct the Workshop in SAM Sensitivity/Awareness/Motivation workshop under the UGC programme on Capacity Building of women managers in Higher Education from 4 to 8 April 2011

8. Member Recruitment and Promotion rules committee (Non-Teaching) : letter No. 2075 BBAU/11 dated 02-02-11 for various incorporation /amendments in the existing recruitment and promotion Rules of the University

7. Member, Technical Committee, Department of Pharmaceutical Sciences vide letter no. 306/7/02/11

6. Member, Advisory committee of University SC/ST Coaching Centre, vide letter no. 326/RCP/BBAU/09 dated 01-12-09

5. Member admission committee for School for Bio-Science & Bio-technology,

1. Deptt. of Biotechnology and 2. Brain and Cognition Sciences (vide office order no 20/ET/PS-COE/12) dated 4.05.2012) admission done in July 2012

4. Member, University level committee, related to construction of Central Library in the University. (Vide letter no. 2315/BBAU/09 dated 11.02.09)

3. Member. Student Welfare Committee (office order no. 2263/BBAU/08 dated 07.03.08)

2. Performed invigilation duties as and when assigned

1. Part of several committees in the various conferences and seminars, function and events organized by university.

##### 2012-2013

10. **Co-ordinator, Department of Biotechnology, BBAU. (Charge taken in Sept. 2011)**

9. **Chairperson, Departmental Research Committee.** (Department of Biotechnology) (vide letter no. 2528/BBAU/A/09 dated 16-03-09)

8. **Chairperson, Board of Post Graduate Studies** (Department of Biotechnology)

7. Member, School Board of SB&BT (vide letter no. 2405/BBAU/12 dated 25.01.2012)

6. Member, RDCU DBT (being DRC member).

5. Member admission committee for  
School for Bio-Science & Bio-technology,

1. Deptt. of Biotechnology and

2. Brain and Cognition Sciences (vide office order no 20/ET/PS-COE/12) dated 4.05.2012) admission done in July 2012

4. Member, University level committee, related to construction of Central Library in the University. (Vide letter no. 2315/BBAU/09 dated 11.02.09)

3. Member. Student Welfare Committee (office order no. 2263/BBAU/08 dated 07.03.08)

2. Performed invigilation duties as and when required

1. Part of several committees in the various conferences and seminars, function and events organized by university.

## 2013-2014

19.Co-ordinator, Medical Biotechnology PG course (vide order no.3218/BBAU/14 dated 21.03.2014.(course could not be started due to less than 50% applications)

**18.Co-ordinator USIC BBAU (vide order no. 309/BBAU/14 dated 12.5.2014)**

**17.Co-ordinator, Department of Biotechnology, BBAU.**(Charge taken in Sept.2011 till September 2013)

**16.Chairperson/ Member Departmental Research Committee.**(Department of Biotechnology) (vide letter no.848/BBAU/13 dated 02.07.2013 )

**15.Chairperson/Member Board of Post Graduate Studies** (Department of Biotechnology)

14.Member, School Board of SB&BT (vide letter no. 2405/BBAU/12 dated 25.01.2012)

13.Member, RDCU DBT (being DRC member).

12.Chairperson/Member admission committee for  
School for Bio-Science & Bio-technology,

1. Deptt. of Biotechnology and

2. Brain and Cognition Sciences (vide office order no 39/COE/BBAU/13) dated 10.06.2013) admission done in July 2012

10.Performed invigilation duties as and when required

9.Part of several committees in the various conferences and seminars , function and events organized by university.

8.Member , Technical Committee constituted for finalizing the specification of instruments to be purchased for UGC Project. (vide order no. 90/PI-UGC/BBAU/13 dated 15.05.2013

7. Member, Equipment purchase committee, in UGC sponsored research project , Deptt.of Pharmaceutical Sciences SB&BT BBAU.(vide order no. 807/D.Ph.Sc./13 dated 20/-5/13.

6.Member, Committee to prepare draft agenda item for BOM and prospectus regarding proposed newly courses to be introduced from the academic session 2013-2014.(vide order no343/BBAU/13 dated 02.05.2013).

5.Member,committee constituted for finalizing & printing of Annual Report of BBAU.(vide order no. 393/CMRKU/BBAU/13 dated 24.09.13).

4.Deputed to look after the work related with Diary and Calendar of the University for 2014 (vide order no. 2310/VCS/13 dated 23.09.2013.

3.Member, Souvenir Shop in University Campus. (vide order no. 1879/BBAU/13 dated 30.10.2013).

2.Member, Committee to purchase of Hospital Appliances & Medicines. (vide order no. 1822/BBAU/13 dated 28 .10.2013).

1.Member, Technical Committee for specification of equipments. USIC (vide order no. 623/USIC/BBAU/13)

## Student Welfare Activities

**13. Co-ordinator , Information and Guidance Bureau, BBAU, Lucknow** (Aug 2007) (office order no. 941-/BBAU/07 dated 27.08.07 till 14.02.2012)

**12. Counseling of students on various career and higher education and competitive exams**\_ Fellowships for both P.G. and Ph.D. courses with information for getting educational loans from various Indian banks as well as other GOI's students welfare schemes.

**11. Member, Advisory committee of University SC/ST Coaching Centre,** vide letter no.326/RCP/BBAU/09 dated 01-12-09

**10. Advisor, Biotech Students Society. Department of biotechnology.** BBAU. Lucknow.

**9. Member. Student Welfare Committee** (office order no. 2263/BBAU/08 dated 07.03.08)

**8. Member DBT Advisory committee (Govt. of India), at Narendra Dev Univ. of Ag & Tech..** ( 286/PMBGET/Teaching/2012)

7.Member, Committee constituted to look into enhancement of fellowship in respect of Research fellow/Project Fellow working under the schemes of Major Research Project and SAP of UGC guidelines.(vide order no,393/BBAU/13 dated 07/05/2013)

6.Member,Advisory committee and Judge Fruit,Vegetable and Flower Exhibition (vide order. 2739/BBAU/2014)

**5.Convener, .Arranged One Day Workshop on Science, Technology , Innovation (STI ) Policy 2013, Workshop, sponsored by DST at BBAU, Lucknow in September 2013.**

4.Member, Committee to arrange LUSCON 2014. At BBAU.

3.Judge Poster Session , Innovative Ideas Related to Industrial Aspects. in National Workshop " Innovation and Technology Transfer to Industries: Role of

Universities”, held at Babasaheb Bhimrao University, Lucknow during 10-11 March, 2014.

**2. Member, Grievance Redressal Committee, DBT.** (vide order no. 184/DBT/BBAU/14 dated 16.04.2014. .

**1. Member, IQAC DBT**(vide order no. 50/DBT/BBAU/14 dated 27.01.2014.