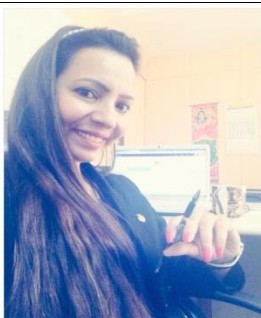


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<b>DESIGNATION</b>	Assistant Professor (III)		
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<b>CONTACT NUMBER</b>	09990329492		
<b>RESEARCH INTERESTS</b>		<i>Enzyme Technology, Clinical Biochemistry, Nanobiotechnology, Biosensor Technology</i>	
<b>EDUCATIONAL QUALIFICATIONS:</b>			
Name of College / University		Degree	Year
Pt. J.L.N. Govt. College, Maharshi Dayanand University, Rohtak		B.Sc.	1998
Deptt. of Biochemistry, Maharshi Dayanand University, Rohtak		M.Sc. ( Biochemistry)	2000
Deptt. of Biochemistry, Maharshi Dayanand University, Rohtak and Deptt. of Surgery, Pt. Bhagwat Dayal Sharma Post Graduate Institute of Medical Sciences (PGIMS), Rohtak.		Ph.D. (Biosciences) Biochemistry	2004
<b>Details of Ph.D. degree:</b> *Awarded in 2004 *7 Publications out of Ph.D. work *Title of Ph.D. thesis and respective Institutions/Universities: “Determination of Bile acid in serum and bile with 3- $\alpha$ hydroxysteroid dehydrogenase and diaphorase immobilized onto alkylamine glass beads”, under the guidance of Emeritus Professor (Dr.) C. S. Pundir, <b>Deptt. of Biochemistry, Maharshi Dayanand University, Rohtak</b> and Professor (Dr.) Pradeep Grag, <b>Deptt. of Surgery, Pt. Bhagwat Dayal Sharma Post Graduate Institute of Medical Sciences (PGIMS), Rohtak</b> and in the collaborative research training followed under the guidance of Dr Ashok Kumar (Scientist E) from Biosensor Lab, <b>CSIR-Institute of Genomics and Integrative Biology (IGIB), New Delhi (2000-2004).</b>			
<b>EXPERIENCE (in chronological order)</b>			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Senior Resident/ demonstrator/ lecturer	Teaching/research/ Administration	<b>Deptt. of Biochemistry, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh</b>	<b>2004 -2007</b>
Lecturer	Teaching	PIPRAMS, Greater Noida	2007-2008
Assistant Professor (II)	Teaching and research	AIB, Amity University Uttar Pradesh, Noida	2008- till now
<b>No. of Ph.D. students supervised</b>		Awarded: - Nil Ongoing: 2 *In the collaboration of IARI, New Delhi & NBPGR, New Delhi	

## PUBLICATIONS

(mention total no. here): 100  
published articles

\*Impact factor: 17.02

\*10 Scopus indexed

\*437 citations

\*h-index: 13

\*I 10-index: 21

1. \***Kirti Rani**. Brief clinical outline of tetanus disease. **World Journal of Pharmaceutical Sciences**. 2017, 5(3): 219-220.
2. \***Kirti Rani**. Clinical outline on progeria. **British Journal of Pharmaceutical and Medical Research**. 2017, 2(1): 364-366.
3. \***Kirti Rani**. Reminiscent implications of varicose veins. **British Journal of Pharmaceutical and Medical Research**. 2017, 2(1): 356-358.
4. \***Kirti Rani**. Forefront clinical timeline on chronic lymphocytic leukemia. **ARC Journal of Pharmaceutical Sciences**. 2017, 3(1): 1-2.
5. \***Kirti Rani**. Short notch note on *Varicella zoster* virus infection. **World Journal of Pharmaceutical and Medical Research**. 2017, 3(1): 464-465.
6. \***Kirti Rani**. Standardized alkaline protease mediated biodegradation of *cicer aritenium* amylase loaded BSANPs and EANPs to assess their delivery behaviours. **Asian Journal of Pharmaceutical Science & Technology**. 2017, 7(1): 12-15.
7. \***Kirti Rani**. Demography of rabies in India. **World Journal of Pharmaceutical Sciences**. 2017, 5(2): 151-152.
8. \***Kirti Rani**. Development of disposable activated *bombyx mori* silk fabric biostrips for pasteurization test of milk. **International Journal of Science, Engineering and Management**. 2016, 1(8): 69-70.
9. \***Kirti Rani**. Contemporary review on recent applications of gold and silver nanoparticles as nanotheranostic non-viral tools. **ARC Journal of Pharmaceutical Sciences**. 2016, 2(3): 11-14.
10. \***Kirti Rani**. Forefront concept of pediatric type 2 diabetes mellitus. **Asian Journal of Research in Pharmaceutical sciences and Biotechnology**. 2016, 4(4): 68-70.
11. \***Kirti Rani**. Gastro-esophageal reflux disease: mini review. **Asian Journal of Research in Pharmaceutical sciences and Biotechnology**. 2016, 4(3): 65-67.
12. \***Kirti Rani**. Conventional Concept of Formulations of Nanosuspensions. **Journal of Analytical & Pharmaceutical Research**. 2016, 3(4): 1-2.
13. **Jagriti Narang, \*Kirti Rani, Irfah, Sonia, Singhal Chaitali**. Green versus chemical synthesis of gold and silver nanoparticles. **Journal of Bionanoscience**. 2016, 10(5): 341-347. \***Scopus Indexed**
14. \***Kirti Rani**. Recent applications of Hybrid Nanobiomaterials as non-viral gene delivery vehicles. **International Journal of Pharmaceutical Research**. 2016, 8(3): 10-15. \***Impact factor: 1.46 & \*Scopus Indexed**
15. \***Kirti Rani**. Washing of stained woolen fabric with bio-active almond oil driven amylase loaded BSANPs-wool shampoo additives. **International Journal of Research in Pharmacy and Life Sciences**. 2016, 4(1): 16-19.
16. \***Kirti Rani**. Washing of egg albumin nanoparticles (EANPs) by using toluene driven modified emulso-desolvation method. **International Journal of Chemistry**

- and Pharmaceutical Sciences.** 2016, 4(3): 115-117.
17. \***Kirti Rani.** Nanobiomaterial: Hybrid gold and silver nanoparticles (AuNPs and AgNPs) as non-viral gene delivery vehicles. **Journal of Advances in Biology and Biotechnology.** 2016, 8(3): 1-7.
  18. \***Kirti Rani, Sherya Goyal, Chandrika Gupta and Sunidhi Kant.** Washing of strains of balaji/hanumanji sindrooam/orange sindoor/vermilion dye powder form stained cloth with prepared Bio-active amylase bound BSA-Nano-Detergent additives. **International Journal of Pharmaceutical and Chemical Sciences.** 2016, 5(2): 112-120.
  19. \***Kirti Rani.** Preparation of egg albumin nanoparticles (EANPs) by using toluene-butanol desolvation method. **International Journal of Pharmaceutical and Chemical Sciences.** 2016, 5(2): 128-131.
  20. \***Kirti Rani.** Washing Study of Stained Woolen fabric (having stains of Boot Polish and Hair Color Dye) with Coconut Oil Driven Amylase Loaded EANPs as Bio active Nano-Wool Detergent Shampoo Additives. **Asian Journal of Research in Chemistry.** 2016, 9(2): 85-88.
  21. \***Kirti Rani.** Preparation of BSANPs by using modified emulso-desolvation method. **European Journal of Pharmaceutical and Medical Research.** 2016, 3(1): 290-292.
  22. \***Kirti Rani.** Washing study of stained woolen fabric with bio-active jasmine oil driven amylase loaded BSANPs-wool shampoo additives. **International Journal of Life Sciences and Scientific Research.** 2016, 2(2): 97-101.
  23. \***Kirti Rani.** Novel washing analysis of stained woolen fabric (having stains of shoe polish and hair color dye) with olive oil driven amylase loaded BSANPs as bio-active nano-wool shampoo additives. **International Journal of Pharma Research and Health Sciences.** 2016, 4(1): 1025-1029.
  24. \***Kirti Rani, Jagriti Narang, Nidhi Chauhan and Amar Chaudhary.** Cost effective covalent immobilization of banana (*Musa sapientum L.*) polyphenol oxidase on to easy-to-prepare activated plasticized polyvinyl-chloride vial. **Journal of Global Biosciences.** 2016, 5(1): 3461-3467.
  25. \***Kirti Rani and Pragya.** A comprehensive brief review on antimicrobial herbs and spices. **Journal of Global Biosciences.** 2016, 5(1): 3468-3474.
  26. \***Kirti Rani.** Washing study of stained woolen fabric (having stains of boot polish and hair color dye) with coconut oil driven amylase loaded BSANPs a bio-active nano-wool shampoo additives. **Journal of Chemical, Biological and Physical Sciences.** 2016, 6(2): 428-433.
  27. \***Kirti Rani and Pragya.** Huntington's disease: a clinically perceptive and suggestive brief review. **SAS Journal of Medicine.** 2016, 2(1): 5-9.
  28. \***Kirti Rani.** Green Synthesis of activated bovine serum albumin fluorescent-nanospheres by using mustard oil as herbal nano-alternative. **Research Journal of Material**

- Sciences**. 2016, 4(1): 1-4.
29. \***Kirti Rani**. Preparation of ultra-fine sized BSANPs by using butanol toluene desolvation method. **International Journal of Research in Pharmaceutical and Nano Sciences**. 2016, 5(1): 35-38.
  30. \***Kirti Rani** and Pragya. A clinical noteworthy brief review on prion disease. **European Journal of Pharmaceutical and Medical Research**. 2016, 3(2): 313-317.
  31. \***Kirti Rani**, Sunidhi Kant, Sherya Goyal and Chandrika Gupta. To study washing efficacy of mehnadi, aalta, dry sindoor, wet sindoor stained fabric with different emulsifier mediated pearl millet amylase bound BSA nanoparticles as detergent-additives. **European Journal of Biomedical and Pharmaceutical Sciences**. 2016, 3(2): 202-207.
  32. \***Kirti Rani**, Sunidhi Kant, Sherya Goyal and Chandrika Gupta. Cost-effective washing study of acryl paint, oil paint, grease, ink, rust stained fabric with bio-active emulsified pearl millet amylase loaded BSA nanoparticles as laundry additives. **International Journal of Life Sciences Research**. 2016, 4(1): 22-28.
  33. \***Kirti Rani**. Novel washing study of stained woolen fabric (having stains of boot polish and hair color dye) with butanol driven amylase loaded BSANPS as bio-active nano-wool shampoo additives. **International Journal of Life Sciences and Review**. 2016, 2(1): 12-16.
  34. \***Kirti Rani**, **Chandrika Gupta**, **Sunidhi Kant** and **Shreya Goyal**. Washing of fabric having strains of nail paints of “Chamber geneva, Revlon, Deborah milano, Givenchy” with prepared bio-active amylase bound detergent BSA-nano-additives. **Scholars Academic Journal of Biosciences**. 2016, 4(1): 4-10.
  35. \***Kirti Rani**. Green synthesis of bovine serum albumin nanoballs by using olive oil. **International Journal of Life Sciences Research**. 2016, 4(1): 76-79.
  36. \***Kirti Rani** and Pragya. Current review: recent reported clinical implications of tuberculosis (TB). **International Journal of Life sciences Biotechnology and Pharma Sciences**. 2016, 2(1): 1-8.
  37. \***Kirti Rani**. Fourier Transform Infrared Spectroscopy (FTIR) spectral analysis of BSA nanoparticles (BSA NPs) and egg albumin nanoparticles (EA NPs). **Research Journal of Chemical Sciences**. 2016, 6(2): 29-36.
  38. \***Kirti Rani**. Green synthesis of almond oil mediated bovine serum albumin nanobricks/nanocubes. **International Journal of Green and Herbal Chemistry**. 2016, 5(1): 062-066.
  39. \***Kirti Rani**, Jagriti Narang, Nidhi Chauhan and Prajwal S Bahulkhandi. Chemical and green synthesis of iron nanoparticles from *Trachyspermum ammi* (carom seeds) and *Camella sinesis* (green tea leaves) extracts and their comparative characterization. **International Journal of Green and Herbal Chemistry**. 2016, 5(1): 029-037.
  40. \***Kirti Rani**. Systemized alkaline protease mediated

	<p>biodegradation of almond oil, mustard oil, jasmine oil and olive oil driven pearl millet amylase conjugated emulsified BSANPs. <b>Asian Journal of Pharmaceutical Analysis and Medicinal Chemistry</b>. 2015, 3(4): 209-213.</p> <p>41. *<b>Kirti Rani</b>. Green preparation of jasmine oil mediated bovine serum albumin nanodiscs/nanocubes. <b>Scholars Academic Journal of Pharmacy</b>. 2015, 5(1): 9-11.</p> <p>42. *<b>Kirti Rani</b> and Harpreet Bajwa. Alzheimer's disease: A brief quintessence medical management study. <b>Current Research in Neuroscience</b>. 2015, 5(1): 20-24. DOI: 10.3923/crn.2015.20.24</p> <p>43. *<b>Kirti Rani</b>. Atherosclerosis and its medical management: A brief comprehensive review on its associated clinical implications. <b>International Journal of Biopharmaceutics</b>. 2015, 6(3): 129-133.</p> <p>44. *<b>Kirti Rani</b>. Spinal muscular atrophy (SMA): Expeditious review on therapeutic management of SMA. <b>World Journal of Pharmaceutical Research</b>. 2015, 4(7): 1489-1498.</p> <p>45. *<b>Kirti Rani</b> and Shivanshu Sharma. Brief informative epidemiological database mapping of the outbreak of Ebola. <b>Scholar Journal of Applied Medical Sciences</b>. 2015, 3(4A): 1624-1632.</p> <p>46. *<b>Kirti Rani</b> and Bishnu Parida. A brief didactic approach of medication therapy management used for Parkinson's disease. <b>World Journal of Pharmacy and Pharmaceutical Sciences</b>. 2015, 4(7): 393-403.</p> <p>47. *<b>Kirti Rani</b>, Vartika Mehta and Namrata Pant. Visionary industrial approach of encapsulation: An advanced biochemical engineered technique. <b>Journal of Global Biosciences</b>. 2015, 4(6): 2473-2477.</p> <p>48. *<b>Kirti Rani</b> and Sunidhi Kant. Alkaline protease mediated bioproteolysis of jasmine oil activated Pennisetum glaucum amylase loaded BAS nanoparticles for release of encapsulated amylase. <b>International Journal of Chemical Sciences and Applications</b>. 2015, 6(2): 56-63.</p> <p>49. *<b>Kirti Rani</b> and Pragya. Pedagogical clinical probe on approach of drug therapies used for combating breast cancer. <b>International Journal of Medicine and Pharmaceutical Sciences</b>. 2015, 5(4): 81-90.</p> <p>50. *<b>Kirti Rani</b> and Chanchal Chauhan. Preparation of Cicer Artienium Amylase Loaded BSA Nanoparticles and Their Bioproteolysis to be used as Detergent Additive. <b>Bioengineering &amp; Bioscience</b>. 2015, 3(5): 73-82. DOI: 10.13189/bb.2015.030501</p> <p>51. *<b>Kirti Rani</b>. Novel Biodegradation analysis of olive oil driven emulsified bovine serum albumin nanoparticles with alkaline protease for controlled release of encapsulated Pennisetum glaucum amylase. <b>Journal of chemistry and Chemical Sciences</b>. 2015, 5(6): 341-350.</p> <p>52. *<b>Kirti Rani</b>. Genetically inherited hemoglobinopathies: A biomedical connotation on thalassemia and sickle cell anemia. <b>Asian Journal of Pharmaceutical Sciences and Technology</b>. 2015, 5(4): 285-289.</p>
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53. [Utkarsh Jain](#), [Jagriti Narang](#), [Kirti Rani](#), [Burna Dekha](#), [Sunny Dhaiya](#) and [Nidhi chauhan](#). Cadmium oxide and carbon nanotube based nanocomposites synthesis using sensing interface for xanthine detection. **RSC Advances**. 2015, 38(5):29675-29683. \*Impact Factor: 3.84 & Scopus Indexed
54. Jagriti Narang, \***Kirti Rani Sharma**, Nidhi Chauhan and Abhishek Mishra. Amplified electrochemical signal taking polyaniline as sensing interface compared to polyindole carboxylic acid. **Synthetic Metals**. 2015, 203: 54-58. <http://dx.doi.org/10.1016/j.synthmet.2015.02.019>. \***Impact Factor: 2.222 & Scopus Indexed**
55. \***Kirti Rani**, Sherya Goyal and Chanchal Chauhan. Novel approach of alkaline protease mediated biodegradation analysis of mustard oil driven emulsified bovine serum albumin nanospheres for controlled release of entrapped pennisetum glaucum (Pearl Millet) amylase. **American journal of Advanced Drug delivery**. 2015, 3(2): 135-148.
56. \***Kirti Rani**, Chandrika Gupta and Chanchal Chauhan. Biodegradation of almond oil driven bovine serum albumin nanoparticles for controlled release of encapsulated Pearl Millet amylase. **American Journal of Phytomedicine and Clinical Therapeutics**. 2015, 3(3): 222-230.
57. **Kirti Rani**, Nidhi Chauhan, Jagriti Narang, Utraksh Jain and Shalinee Sharma. A cost effective immobilization of horseradish peroxidase nanoparticles on to easy-to-prepare activated plasticized polyvinyl-chloride vial and its application. **Journal of Nanomedicine Research**. 2015, 2(1): 1-5.
58. \***Kirti Rani**. Historical review on cholelithiasis. **International Journal of Current medical Sciences**. 2015, 5(1): 14-18.\*
59. \***Kirti Rani**, Rachna Rana and Sanchi Datt. Review on Characteristics and application of amylases. **International Journal of Microbiology and Bioinformatics**. 2015, 5(1):1-5.
60. \***Kirti Rani**. Applicative biodegradation study of egg albumin nanospheres by alkaline protease for release of encapsulated Cicer arietinum amylase in washing as bio-active detergents additive. **World Journal of Pharmaceutical Research**. 2015, 4(1): 1218-1230.
61. \***Kirti Rani**, Namrata Pant and Chanchal Chauhan. Biodegradation of chemically modified egg albumin microspheres for controlled release of bound *Vigna mungo* amylase and their application in fabric desizing as cost effective bio-active preparation. **International Journal of Pharma and Bio-Sciences**. 2015, 6(1): (B) 1101-1111. \***Scopus indexed**
62. \***Kirti Rani**. Preparation and characterization of cicer arietinum loaded chemically modified bovine serum albumin nanoparticles by desolvation method. **5th Annual International Conference Proceedings (Biotech 2015)**, 1-4: (ISSN: 2251-2489)

doi:10.5176/2251\_2489\_BioTech15.87.

63. **\*Kirti Rani.** A Novel Biodegradation Study of Toluene Driven Chemically Modified Egg Albumin Preparation for Release of Entrapped Glycine Max Amylase with Alkaline protease. **International Journal of Pharmaceutical Research.** 2014, 6(4): 100-103. **\*Impact factor: 1.46 & \*Scopus Indexed**
64. **\*Kirti Rani** and Chanchal Chauhan. Biodegradation of *cicer arietinum* amylase loaded coconut oil driven emulsified bovine serum albumin nanoparticles and their application in washing detergents as eco-friendly bio-active additive. **World Journal of Pharmacy and Pharmaceutical Sciences.** 2014, 3(12): 924-936.
65. **\*Kirti Rani** and Vartika Mehta. Preparation, Biodegradation of Coconut Oil Driven Chemically Modified Bovine Serum Albumin Microparticles of Encapsulated *Cicer arietinum* Amylase and Study of Their Application in Washing Detergents. **International Journal of Pharmaceutical Sciences and Drug Research.** 2014, 6(4): 351-355.
66. **\*Kirti Rani,** Chanchal Chauhan, Hardev Kaur. Potential and Automotive Applications of Nanomaterials in Combating Cancer and Stem Cell Therapy: An Informative Overview on Nanotherapeutics. **Journal of Nanotechnology and Smart Materials.** 2014, 1: 1-5.
67. **\*Kirti Rani.** A Brief Review on Convergence of Diversifying Fields of Nanotechnology and Bioinformatics as an Advanced Revolutionized Device for Betterment of Humankind. **International Journal of Pharma Research and Health Science.** 2014, 2(3): 197-202.
68. **\*Kirti Rani** and Saurabh Paliwal. A Brief Review on *In-Vitro* fertilization (IVF): An advanced and miraculous gateway for infertility Treatments. **World Journal of Pharmacy and Pharmaceutical Sciences.** 2014, 3(4): 647-658.
69. **\*Kirti Rani** and Saurabh Paliwal. A Review on Targeted Drug Delivery: Its Entire Focus on Advanced Therapeutics and Diagnostics. 2014. **Scholars Journal of Applied Medical Sciences,** 2(1C): 328-331.
70. **\*Kirti Rani,** Sunidhi Kant, Shreya Goyal, Akshay Saini and Chnadrika Gupta. A Novel Assessment of Extracted Amylase Activity in germinating and germinated and germinated seeds of *Cicer Arietinum*, *Ceci neri* and *Pisum Sativum*. **International Journal of Pure & Applied Bioscience.** 2014, 2(2): 191-193.
71. **\*Kirti Rani.** Entrapment of *Glycine max* into chmically modified egg albumin and its biodegradation with alkaline protease. **4th Annual International Conference Proceedings (Biotech 2014),** 1-4: (ISSN: 2251-2489) doi:10.5176/2251\_BioTech14.01.
72. **\*Kirti Rani.** Immobilization of glycine max amylase onto variety of chlorinated and nitrated fabrics (silk, nylon and cotton). **GSTF International Journal of Biosciences.** 2013, 2 (2): 8-12.

73. **\*Kirti Rani Sharma.** Emulsified entrapment of *Vigna radiata* amylase into chemically activated bovine serum albumin and study its application in detergents. **International Journal of Drug Targets.** 2013, 4(2): 135-140.
74. **\*Kirti Rani.** Immobilization of *Glycine max* amylase onto variety of chlorinated and nitrated silk, cotton and nylon fabrics. 2013. **3rd Annual International Conference Proceedings (Biotech 2013)**, 14-16. (ISSN: 2251-2489) doi:10.5176/2251\_BioTech13.20.
75. **\*Kirti Rani.** Preparation of Emulsified Encapsulated Microspheres of Egg Albumin of Bound Glucose Oxidase and Their Biodegradation with Chymotrypsin. **International Journal of Current Life Sciences.** 2013, 3 (1): 1-4.
76. **\*Kirti Rani.** Aqueous Two Phase Purification of sprouted pulses amylases and its application in desizing of fabrics. **Asian Journal of Biochemical and Pharmaceutical Research.** 2012, 2 (3): 215-223.
77. **\*Kirti Rani** and Swapnil Saxsena. Immobilization of *Phaseolus vulgaris*  $\beta$ -amylase onto chemically charged woven *Bombyx mori* silk fabric. **International Journal of Current Research.** 2012, 4 (7): 5-6.
78. **\*Kirti Rani.** Extraction and study of kinetic parameters of variety of sprouted pulses  $\beta$ -amylases. **International Journal of Pharmacy and Life sciences.** 2012, 3 (8): 1895-1898.
79. **\*Kirti Rani.** Aqueous Two Phase Purification of *Vigna radiata* amylase and its characterization. **International Journal of Current Pharmaceutical review and Research.** 2012, 3 (3): 47-53. **\*Scopus indexed**
80. **\*Kirti Rani.** Emulsified entrapment of *Glycine max*  $\beta$ -amylase into chemically modified bovine serum albumin and study its applications in detergents. 2012. **International Journal of Advanced Biotechnology and Research.** 2012, 3 (2): 591-595.
81. **\*Kirti Rani.** Immobilization of *Vigna mungo* amylase into chemically modified bovine serum albumin and its biodegradation. **Global Journal of Biotechnology and biochemistry Research.** 2012, 2 (1): 17-20.
82. **\*Kirti Rani.** Immobilization of *Vigna Radiata*, *Vigna Mungo*, *Cicer Arietinum* (White) and *Cicer Arietinum* (Black) amylases onto variety of activated fabrics. **International Journal of Life sciences, Biotechnology and Pharma Research.** 2012, 1(3): 124-133.
83. **\*Kirti Rani** and Krishna Jemamoni. Immobilization of *Vigna radiata*  $\beta$ -amylase onto sodium nitrate treated and chlorinated woven *Bombyx mori* silk fabric. **IOSR Journal of Pharmacy.** 2012, 2 (3): 512-519.
84. **\*Kirti Rani.** Review: Bile Acid Analysis. **International Journal of Pharmacy & Biomedical sciences.** 2012, 3(2): 28-34.
85. **\*Kirti Rani.** Development of disposable Dry-reagent Strips of Activated *Bombyx mori* silk fabric. **International Journal**



**of Applied Biotechnology and Biochemistry.** 2012, 2 (3): 219-225

86. \***Kirti Rani**, Ravi Holani and Jitesh Dharmwal. Bi-phase Extraction of Partially Purified *Solanum tuberosum*, *Colocasia esculenta*, *Punica granatum* and *Phaseolus vulgaris* Alkaline Phosphatases. **Journal of Bio-Innovation.** 2012, 1 (3): 70-76.
87. \***Kirti Rani Sharma**. Preparation of emulsified encapsulated nanoparticles of bovine serum albumin of bound glucose oxidase and their application in soft drinks / non-alcoholic beverages. **Journal of Biotechnology and Biomaterials.** 2012, 2: 1-5. <http://dx.doi.org/10.4172/2155-952X.1000126>.
88. \***Kirti Rani**. Immobilization of Vigna mungo  $\beta$ -amylase onto NaCl and NaNO<sub>3</sub> treated woven *Bombyx mori* silk Fabrics. **Asian Journal of Biological and Sciences.** 2012, 1 (2): 96-100.
89. \***Kirti Rani**, Sanchi Datt and Rachita Rana. Brief review on alkaline phosphatase-an overview. **International Journal of Microbiology and Bioinformatics.** 2012,2(1): 1-4.
90. \***Kirti Rani**. Immobilization of Azadirachta Indica alkaline phosphatase onto polyethylenimine-treated chlorinated woven Bombyx Mori silk fabric. **International Journal of Biochemistry and Biotechnology.** 2012, 1(1): 1-4.
91. \***Kirti Rani**, Rachita Rana and Sanchi Datt. Review on latest overview of proteases. **International Journal of Current Life Sciences.** 2012, 2(1):12-18.
92. \***Kirti Rani**. Comparative study of kinetic parameters of bacterial and fungal amylases. **Journal of Bio-Innovation.** 2012, 1(3): 48-57.
93. \***Kirti Rani**. Bi-phase extraction of partially purified *Solanum Tuberosum*, *Colocasia Esculenta*, *Punica Granatum* and *Phaseolus Vulgaris* alkaline phosphatases. **Journal of Bio-innovation.** 2012, 1(3): 70-76.
94. **Rani K.**, Garg P.,Pundir C S. Discrete analysis of bile acid with immobilized 3  $\alpha$ -hydroxysteroid dehydrogenase and diaphorase onto alkylamine glass beads. **Indian Journal of Biochemistry & Biophysics.** 2006, 43: 98-104. \* **Impact Factor: 1.142**
95. **K. Rani**, P. Garg and C.S. Pundir. Measurement of bile acid in serum and bile with arylamine glass bound 3  $\alpha$ -hydroxysteroid dehydrogenase and diaphorase. **Analytical Biochemistry.** 2004, 334: 32-37. \***Impact Factor: 2.996 & scopus indexed**
96. J. Arora, K. Nashier, M. Thakur, **K. Rani** and C.S. Pundir. Quantification of serum glucose by serum glucose oxidase and peroxidase immobilized on free and affixed alkylamine glass beads in a glass beaker. **Biosciences Biotechnology Research Asia**, 2005, 3(1): 33-38. \***Impact Factor: 0.03 & Scopus Indexed**
97. C.S. Pundir, **K. Rani**, P. Garg, R.Chaudhary, P. Chandran, and M.Kumari. Correlation between chemical composition of Biliary Calculi and sera of stone formers. **Indian Journal of Medical Science.** 2002, 56(8): 373-375.

**\*Impact Factor: 1.67 & Scopus Indexed**

98. Pundir C.S., **Rani K.**, Garg. P., Chaudhary R. and Chandran P. Comparison of serum cholesterol , bilirubin, patients and calcium ,phosphate and iron content of gall stone of normal person. **Indian Journal of Surgery.** 2002, 64(4): 362-363. **\*Impact Factor: 0.081**
99. C.S. Pundir, R. Chaudhary, **K. Rani**, P. Chandran, M. Kumari and P. Garg, Chemical Analysis of Biliary Calculi in Haryana. **Indian Journal of Surgery.** 2001, 63 (5): 370-375. **\*Impact Factor: 0.081**
100. N.B.Tulsani, Hemant Kumar, Suman, H. Vikram, Reeti Chaudhary, **Kirti Rani** and Ashok Kumar. Arsenazo- III test strip for rapid detection of hardness of water. **Indian Journal of Chemical Technology**, 2001, 8: 252-254, **\*Impact Factor: 0.606**

**\*\*Books/Chapters/magazine articles/abstracts:**

**PUBLISHED ABSTRACTS WITH IMPACT FACTOR\*: 2**

1. **Kirti Rani**, Development of disposable dry-reagent biostrips of activated woven *Bombyx mori* silk fabric as biosensor for pasteurization of milk. 2012. **Journal of Biosensor & Bioelectronics**, 2 (4). (<http://dx.doi.org/10.4172/2155-6210.S1.14>) **\*(3.57)**
2. **Kirti Rani**. Preparation of emulsified encapsulated bovine serum albumin microspheres of glucose oxidase. 2011, **Journal of Microbial & Biochemical Technology (ISSN: 1948-5948)**, 3 (6): 47. **\*(2.04)**

**BOOKS/CHAPTERS: 11**

1. Kirti Rani (2017) Chapter entitled, "Nanobiomaterials for Non-Viral Gene Delivery" in book entitled "**Nanobiomaterials-Applications in Drug Delivery** (ISBN 978-1-3152-0491-8)" Apple Academic Press (AAP Press )& CRC Press, Taylor Francis Group, New Jersey and Canada.
2. Kirti Rani (2012) **Computers & Biotechnology** (ISBN 978-3-8465- 4129-6). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
3. Kirti Rani (2012) **Enzyme Dictionary** (ISBN 978-3-8484-2622-5). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
4. Kirti Rani (2012) **Nanotechnology Vs Bionanotechnology** (ISBN 978- 3-8484-2621-8). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
5. Kirti Rani (2012) **Overview on Cholelithiasis** (ISBN 978-3-8465-8983-2). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
6. Kirti Rani (2012) **Microbial Production of Biomass** (ISBN 978-3-8484-0808-5). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.

7. Kirti Rani (2012) **Production of Amylase & Alkaline Phosphatase** (ISBN 978-3-8465-8983-0). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
8. Kirti Rani (2012) **Production of Secondary Metabolite** (ISBN 978-3- 8465-8982-3). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
9. Kirti Rani (2012) **Microbial Production Technology** (ISBN 978-3-8433-9200-6). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany.
10. Kirti Rani (2011) **Study of chemical analysis on cholelithiasis**", (ISBN 978- 3-8454-2037-0). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany
11. Kirti Rani (2011) **Role of bile acid**", (ISBN 978-3-8454-7268-3). Lambert Academic Publishing House, GmbH & Co. KG Germany & VDM Management GmbH, Germany

**TOTAL PUBLISHED ABSTRACTS (In proceedings of Attended conferences): 20**

1. **\*Kirti Rani.** Development of disposable activated *bombyx mori* silk fabric biostrips for pasteurization test of milk. **2<sup>nd</sup> World Conference on Applied Science Engineering and Technology (WCASET-16)** organized by IFERP held on 29<sup>th</sup> -30<sup>th</sup> December 2016 at Goa, India
2. **Pragya & \*Kirti Rani.** Use and regulation of genetically modified organisms and genetically modified crop plants. **Biosafety and Regulatory Affairs on GMOs and GE Plants"** organized by **Biotech Consortium India Limited, New Delhi and Amity Institute of Biotechnology, AUUP, Noida**
3. **Pragya & \*Kirti Rani.** European legal restrictions on genetically modified organisms and genetically modified products. **Biosafety and Regulatory Affairs on GMOs and GE Plants"** organized by **Biotech Consortium India Limited, New Delhi and Amity Institute of Biotechnology, AUUP, Noida**
4. **Kirti Rani.** Preparation of *Pennisetum Glaucum* Amylase Loaded Bovine Serum Albumin Nanoparticles by Desolvation Method. **3<sup>rd</sup> Annual International Conference on Pharmaceutical Sciences** held on 2<sup>nd</sup> May 2016 to 5<sup>th</sup> May 2016 at **Athens Institute for Education and Research, Athens, Greece.**
5. **Chanchal Chauhan & \*Kirti Rani.** Alkaline Protease mediated Biodegradation study of Olive Oil Driven Emulsified Bovine Serum Albumin Nanopreparation for Controlled Release of bound *Pennisetum glaucum* Amylase. **Hindustan College of Science & Technology, Farah, Mathura is organizing National Conference on Nanodevices focusing on Simulation, Modeling and Fabrication of Nanodevices** dated on April 18-19th, 2015 at Mathura campus, Mathura, UP, India. **(Oral)**
6. **Sunidhi Kant & \*Kirti Rani.** Biodegradation Analysis of Jasmine Oil Driven Bovine Serum Albumin Nanopreparation with Alkaline Protease for Controlled Release of immobilized

Pennisetum glaucum Amylase. **Hindustan College of Science & Technology, Farah, Mathura** is organizing **National Conference on Nanodevices focusing on Simulation, Modeling and Fabrication of Nanodevices** dated on April 18-19th, 2015 at Mathura campus, Mathura, UP, India. **(Oral)**

7. **Dr Kirti Rani Sharma.** Preparation and characterization of cicer arietinum amylase loaded chemically modified bovine serum albumin nanoparticles by desolvation method. “5<sup>th</sup> Annual International Conference on Advances in Biotechnology, Bio Tech 2015” dated on 13<sup>th</sup> -15<sup>th</sup> march 2015 held at **Indian Institute of Technology (IIT) Kanpur, India.**

8. **Kirti Rani.** Entrapment of Glycine Max Amylase into Chemically Modified Egg Albumin and its Biodegradation with Alkaline Protease. GSTF (Biotech 2014) 4<sup>th</sup> Annual International Conference on Advanced in Biotechnology, Bio Tech 2013, held on 10<sup>th</sup> -11<sup>th</sup> March 204 at **BITS Pilani Dubai Campus, Dubai.**

9. **Kirti Rani.** Immobilization of Glycine max amylase onto variety of chlorinated and nitrated silk, cotton and nylon fabrics. GSTF (Biotech 2013) 3<sup>rd</sup> Annual International Conference on Advanced in Biotechnology held on 18<sup>th</sup> -19<sup>th</sup> March 2013 at Fort Canning Hotel, **Singapore.**

10. **Kirti Rani.** Immobilization of *vigna radiata* amylase onto activated woven bombyx mori silk fabric. World congress on biotechnology held on 4<sup>th</sup> -6<sup>th</sup> May 2012 at Hydrebad, India.

11. **Kirti Rani ,Varsha Chauhan & Swati Yadav.** Extraction of amylase from *vigna radiata* and its ammonium sulphate precipitation followed by aqueous two phase extraction with polyethylene glycol. World congress on biotechnology held on 4<sup>th</sup> -6<sup>th</sup> May 2012 at Hydrebad, India.

12. **Kirti Rani, Srishti Katiyar & Swapnil Saxena.** Immobilization of *Glycine Max* Amylase onto activated woven Bombyx Mori Silk Fabric. 3<sup>rd</sup> world Congress on Biotechnology held on 13<sup>th</sup> -15<sup>th</sup> September 2012 at Hydrebad, India.

13. **Kirti Rani.** Development of disposable dry-reagent biostrips of activated woven *Bombyx mori* silk fabric as biosensor for pasteurization of milk. International Conferences & Exhibition on Biosensors & Bioelectronics held on 14<sup>th</sup> -16<sup>th</sup> May, 2012 at Embassy Suites Las Vegas, USA.

14. **Kirti Rani.** Preparation of emulsified encapsulated Egg albumin nanoparticles of *Azadirachta indica* Alkaline phosphatase. 3<sup>rd</sup> world congress on biotechnology, held on 13<sup>th</sup> -15<sup>th</sup> September, 2012 at Hyderabad, India.

15. **Kirti Rani.** Preparation of emulsified encapsulated Bovine serum albumin nanoparticles of *Azadirachta indica* Alkaline phosphatase. 3<sup>rd</sup> world congress on biotechnology, held on 13<sup>th</sup> -15<sup>th</sup> September, 2012 at Hyderabad, India.

16. **Kirti Rani.** Preparation of emulsified encapsulated bovine serum albumin microspheres of glucose oxidase. **2<sup>nd</sup> World Congress on Biotechnology**, **Philadelphia, USA**, held dated on 29<sup>th</sup> Nov-1<sup>st</sup> Dec 2011.

17. **C. S. Pundir, Kirti Rani, P.Garg, R. Chaudhary & P. Chandran.** Comparison of serum cholesterol, bilirubin, calcium, phosphate and iron content of gall stone patients and normal

persons. 71st Annual Meeting of Society of Biological Chemists (India), held at Department of Biochemistry and Chemistry, Punjab Agricultural University, Ludhiana dated on 14<sup>th</sup> Nov- 16<sup>th</sup> Nov, 2002.

18. **Kirti Rani, Ashok Kumar, Hemant Kumar, Reeti Chaudhary, Suman & N. B. Tulsani.** Immobilization of glucose oxidase in Bovine Serum albumin microspheres and its application in beverages. 69th annual meeting Society of Biological Chemists(India), held at University of Calcutta dated on 7<sup>th</sup> -9<sup>th</sup> Dec 2000.

19. **Suman, Ashok Kumar, Hemant Kumar, Reeti Chaudhary, Kirti Rani & N. B. Tulsani.** Co-immobilization of cholesterol estrase, cholesterol oxidase and peroxidase on Formvar and its application in biosensor. 69th annual meeting Society of Biological Chemists(India), held at University of Calcutta dated on 7<sup>th</sup> -9<sup>th</sup> Dec 2000.

20. **Reeti Chaudhary, Ashok Kumar, Hemant Kumar, Suman, Kirti Rani & N. B. Tulsani.** Immobilization of glucose oxidase in egg albumin microspheres and its application in soft drinks. 69th annual meeting Society of Biological Chemists (India), held at University of Calcutta dated on 7<sup>th</sup> -9<sup>th</sup> Dec 2000.

#### **TOTAL PUBLISHED ONLINE-SHORT ARTICLES: 40**

1. **Kirti Rani.** 2012. Conventional role of microbes for polysaccharides –hydrocolloid production. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
2. **Kirti Rani.** 2012. Use of biofactories as renewable and sustainable resources. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
3. **Kirti Rani.** 2012. Coined note on potential natural occurring herbal antioxidants. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
4. **Kirti Rani.** 2012. Latest brief overview on penicillin acylase production. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
5. **Kirti Rani.** 2012. Mushroom cultivation industrially coined as cash crop. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
6. **Kirti Rani.** 2012. Substantial Role of Biomass Production. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
7. **Kirti Rani.** 2012. Design and potential key factors of bioreactor. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
8. **Kirti Rani.** 2012. Current preview on lipase with its immense applications. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
9. **Kirti Rani.** 2012. Introductory and instant note on types of industrially important proteases. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
10. **Kirti Rani.** 2012. General introduction on biological sources of proteases. Biotecharticle.com ([http:// www.biotecharticles.com](http://www.biotecharticles.com)).
11. **Kirti Rani.** 2012. Microbes Vs Vulnerable source of

	<p>proteases. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>12. <b>Kirti Rani.</b> 2012. Essential Components of Media Formulation. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>13. <b>Kirti Rani.</b> 2012. Introductory Brief Note on Clinically Significant Beta-Lactam Antibiotics. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>14. <b>Kirti Rani.</b> 2012. Imperial Role of Essential Amino Acids. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>15. <b>Kirti Rani.</b> 2012. Agricultural Applications of Biopesticides. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>16. <b>Kirti Rani.</b> 2012. Applicative Note on biocompost and Its Agricultural Implications. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>17. <b>Kirti Rani.</b> 2012. Industrial Role of Amylases and Its Characteristics. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>18. <b>Kirti Rani.</b> 2012. Introduction and Significant Role of Alkaline Phosphatase. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>19. <b>Kirti Rani.</b> 2012. Parallel Potential Prospective of Nanotechnology and Bioinformatics. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>20. <b>Kirti Rani.</b> 2012. Cholelithiasis and Bile acid Analysis. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>21. <b>Kirti Rani.</b> 2012. Aqueous two phase system: The most demanded and cost effective downstream process. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>22. <b>Kirti Rani.</b> 2012. Proteases as bioscavengers with their therapeutic implications. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>23. <b>Kirti Rani.</b> 2012. Future health hazards related to nanotoxicology and their complications. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>24. <b>Kirti Rani.</b> 2012. Health benefits of kidney beans. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>25. <b>Kirti Rani.</b> 2012. An instant biochemical note on starch. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>26. <b>Kirti Rani.</b> 2012. A brief description of bio-production of alpha and beta amylases. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>27. <b>Kirti Rani.</b> 2012. Modern use of enzyme to be coined as bio-detergents. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>28. <b>Kirti Rani.</b> 2012. Nutritional values of soybean as essential food supplements. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>29. <b>Kirti Rani.</b> 2012. Advanced research areas of enzyme biotechnology. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>30. <b>Kirti Rani.</b> 2012. Introductory note on silk with its</p>
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	<p>properties. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>31. <b>Kirti Rani.</b> 2012. Green nanotechnology Vs nanoscience and nanolibrary. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>32. <b>Kirti Rani.</b> 2012. Chickpea (<i>Cicer arietinum</i>) as nutritional enriched pulses. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>33. <b>Kirti Rani.</b> 2012. Modern concept of enzyme immobilization with its matrices features. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>34. <b>Kirti Rani.</b> 2012. Biochemical properties of bovine serum albumin. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>35. <b>Kirti Rani.</b> 2012. Importance of milk pasteurization test. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>36. <b>Kirti Rani.</b> 2012. Medicinal role of <i>Azadirachta indica</i> (Neem plant). Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>37. <b>Kirti Rani.</b> 2012. Significance of enzyme immobilization techniques. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>38. <b>Kirti Rani.</b> 2012. Potential use of biosensor technology. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>39. <b>Kirti Rani.</b> 2012. Characteristics of moong beans. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p> <p>40. <b>Kirti Rani.</b> 2012. Brief introduction of enzyme immobilization. Biotecharticle.com (<a href="http://www.biotecharticles.com">http://www.biotecharticles.com</a>).</p>
<b>PATENTS (total no.): 12</b> <i>complete filed Indian Patents</i>	<b>Details: Annexure- 2</b>
<b>RESEARCH PROJECTS:</b>	<b>Details:</b> <i>Under preparation and submission</i>
<b>AWARDS &amp; HONOURS/ DISTINCTIONS</b>	<ol style="list-style-type: none"> <li>1. Awarded Indian Research Media &amp; Awards Certificate in Excellence in Teaching in 1<sup>st</sup> National Achievers Conclave &amp; Awards held at Pride Plaza Hotel, Aerocity, New Delhi, dated on 26<sup>th</sup> March 2017 for outstanding and innovative contribution in research oriented teaching learning skills.</li> <li>2. Announced best oral presentation of the session in, “2nd World Conference on Applied Science Engineering and Technology (WCASET-16)” organized by IFERP held on 29th -30th December 2016 at Goa, India.</li> <li>3. Awarded Best Paper from International organization of scientific Research (2012)</li> <li>4. Awarded <b>Author of Month and listed in top authors</b> in Biotech Articles (<a href="http://www.biotecharticles.com">http:// www.biotecharticles.com</a>) 2012</li> <li>5. Awarded Certificate of Completion form <b>PRiSM Foundations</b> organized by Green Project Management,” <b>Evolving the Discipline of Project Management</b> (23<sup>rd</sup> January 2014)</li> </ol>

	<ol style="list-style-type: none"> <li>6. Awarded <b>Young scientist foreign scientific visit award from Indian Council of Medical Research (ICMR), New Delhi</b> to attend the international conference, 2nd World Congress on Biotechnology”, Philadelphia, USA, organized by OMICS International held dated on 29th Nov-1st Dec 2011</li> <li>7. <b>Indian Distinguished Foreign visiting scientist</b> (Greece in 2016, Dubai in 2014, Singapore in 2013, USA in 2011 scientific visit)</li> <li>8. Announced best oral presentation of the session at international conference, <b>2<sup>nd</sup> World Congress on Biotechnology”, Philadelphia, USA</b>, organized by <b>OMICS International</b> held dated on 29<sup>th</sup> Nov-1<sup>st</sup> Dec 2011 held at USA (2011)</li> <li>9. Awarded <b>Gold medal</b> in 2000 for standing first in M.Sc. at university level, <b>University Research Scholarship</b> for Ph.D (2000-2004), <b>Haryana State Scholarship</b> during M.Sc. (1998-2000), <b>Roll of Honor and College Color</b> in 1996-1998 in B.Sc. for achieving university top ten rank as scholar student at Haryana state level, <b>Best Scientific explainer</b> awarded at university level (1997)</li> </ol>
<b>MEMBERSHIP</b> with Professional/ Academic bodies	<ol style="list-style-type: none"> <li>1. Life member of <b>society of biological chemists India</b>.</li> <li>2. Life member of <b>Stem Cell Voice of India</b>.</li> <li>3. Member of <b>American Society of Microbiology</b>.</li> <li>4. Honored with Live DNA for <b>The Journals of Science Alert Publications</b>.</li> <li>5. Recognized <b>Women Scientist in Women In science</b> panel of <b>Indian Academy of Science (IASc), Bangaluru</b>.</li> <li>6. Reviewer of <b>Research and Review: A Journal of Biotechnology</b>.</li> <li>7. Reviewer of <b>International Journal of Advance life sciences</b>.</li> <li>8. Reviewer of <b>International Journal of Current Life Sciences</b>.</li> <li>9. Reviewer of <b>World Journal of Microbiology &amp; Biotechnology</b>.</li> <li>10. Reviewer of <b>Archives of Biochemistry and Biophysics</b>.</li> <li>11. Editorial member of <b>Journal of Biotechnology Letters</b>.</li> <li>12. Associate Editor in <b>Journal of Enzyme Research</b>.</li> <li>13. Member of <b>Editorial Board of Persian Gulf Crop Protection Journal</b>.</li> <li>14. <b>Reviwer-In-Charge</b> of <b>GSTF International Journal of Biosciences</b>.</li> </ol>

#### ANNEXURE-1

**Dr. Kirti Rani**

Assistant Professor (III),  
Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida.



#### **CONFERENCES/WORKSHOP/ SYMPOSIUM ATTENDED: 34**

1. **1<sup>st</sup> National Achievers Conclave & Awards, organized by Indian Research Media & Awards** held at Pride Plaza hotel, Aerocity, New Delhi, dated on 26<sup>th</sup> March 2017.
2. Workshop on **“Phase-II Capacity Building Project on Biosafety: Outcomes and Way Forward”** Organized by **Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India**, In association with: **Biotech Consortium India Limited (BCIL), New Delhi, Venue: Ganga Auditorium Hall, Indira Paryavaran Bhawan, New Delhi-110002**, dated on March 15, 2017.
3. **2<sup>nd</sup> World Conference on Applied Science Engineering and Technology (WCASET-16)** organized by IFERP held on 29<sup>th</sup> -30<sup>th</sup> December 2016 at **Goa, India**.
4. **Indo-American Education Summit 2016** organized by Indus Foundation India held on 13<sup>th</sup> September 2016 at **Vivanta By Taj Ambassador, New Delhi**
5. One day International Seminar, **“Biosafety and Regulatory Affairs on GMOs and GE Plants”** organized by **Biotech Consortium India Limited, New Delhi and Amity Institute of Biotechnology, AUUP, Noida** held at Amity University Uttar Pradesh, Noida dated on 9<sup>th</sup> September 2016.
6. **3rd Annual International Conference on Pharmaceutical Sciences** organized by **Athens Institute for Education and Research, Athens, Greece** held on 2<sup>nd</sup> May 2016 to 5<sup>th</sup> May 2016 at **Titania Hotel, Athens, Greece**.
7. India international Science Festival-2016, a joint event of Ministry of Science and Technology and Ministry of Earth Sciences, Government of India organized by TIFAC and VIBHA New Delhi held on 4<sup>th</sup> December 2016 to 8<sup>th</sup> December 2016 at **Indian Institute of Technology (IIT), New Delhi, India**.
8. **5<sup>th</sup> Annual International Conference on Advances in Biotechnology, Bio Tech 2015**, organized by **Global Science & Technology Forum (Singapore)**, held on 13<sup>th</sup> -15<sup>th</sup> march 2015 held at **Indian Institute of Technology (IIT) Kanpur, India**.
9. **4<sup>th</sup> Annual International Conference on Advances in Biotechnology, Bio Tech 2014**, organized by **Global Science & Technology Forum (Singapore)** held on 10<sup>th</sup>-11<sup>th</sup> march, 2014 held at **BITS Pilani Dubai Campus at Dubai**.
10. **Indo-US International Congress-Cum-Workshop on IPR**, held on **29<sup>th</sup>-31<sup>th</sup> January 2014** organized by Amity Institute of Microbial Technology held at Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida, India.
11. FDP on **“Value of sustainability and its relevance to it -Managing Green IT projects”** organized by Amity Academic Staff College, Amity University Campus Noida, dated on 21<sup>st</sup> January to 23<sup>rd</sup> January 2014.
12. **3<sup>rd</sup> Annual International Conference on Advanced in Biotechnology, Bio Tech 2013**, organized by **Global Science & Technology Forum (Singapore)** held on **18<sup>th</sup>-19<sup>th</sup> march**, 2013 held at **Fort Canning at Singapore**.
13. National Conference on **“Use of animals and alternatives in biomedical research with special reference to drug discovery and drug development”**, organized by Amity Institute of Environment Toxicology, safety and Management, held at Amity University Uttar Pradesh, Noida, India dated on 14<sup>th</sup>-15<sup>th</sup> Feb, 2013.
14. Training on **“Training the trainers on Entrepreneurial Skills”** organized by National Science and Technology Entrepreneurship Development Board, Department of Science and Technology, New Delhi, held at Amity Institute of Science and Technology, Amity University Uttar Pradesh, Noida, dated on 29<sup>th</sup> April to 10<sup>th</sup> May 2013.

15. National workshop on **"Advanced analytical techniques in research and development-2012"**, held at Amity university Uttar Pradesh, Noida dated on 20<sup>st</sup>-21<sup>st</sup> Dec, 2012.
16. International conference on **"3<sup>rd</sup> World Congress on Biotechnology"**, **Hyderabad, India**, organized by **OMICS International** held dated on 13<sup>th</sup>-15<sup>th</sup> Sept, 2012.
17. Two Day Workshop and Training on Recent advances in Computational biology and Structural Based Drug Designing, at **"3<sup>rd</sup> World Congress on Biotechnology"**, **Hyderabad, India**, organized by **OMICS International** held dated on 13<sup>th</sup>-15<sup>th</sup> Sept, 2012.
18. **"Scientific Writing & Publishing Workshop"**, organized by Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida held at Amity University Uttar Pradesh, Noida dated on **25<sup>th</sup> May, 2012**.
19. **"National Information Day in Food, Agriculture, Fisheries & Biotechnology"** organized by Jawharlal University, New Delhi and Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida, dated on **15<sup>th</sup> May, 2012**.
20. One Day Workshop on **"Pollution Prevention Paradigm"** organized by Amity Institute of Environment Toxicology Safety Management, Amity University Uttar Pradesh, Noida, held at AUUP Noida dated on **11<sup>th</sup> May, 2012**.
21. Conference on **HIV and AIDS: Biology To Bedside"**, organized by Amity Science Technology & Innovation Foundation, AUUP, Noida, held at Amity University Uttar Pradesh, Noida dated on **15<sup>th</sup>-16<sup>th</sup> March 2012**.
22. International conference on **"Perspective in Phyllosphere Biology"**, Held at Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida, dated on **15<sup>th</sup>-17<sup>th</sup> Feb, 2012**.
23. International conference on **"2<sup>nd</sup> World Congress on Biotechnology"**, **Philadelphia, USA**, organized by **OMICS International** held dated on 29<sup>th</sup> Nov-1<sup>st</sup> Dec 2011.
24. FDP on **"Enhancing Emotional Competencies for Effective Teaching"** organized by Amity Academic Staff College, Amity University Uttar Pradesh, Noida dated on 29<sup>th</sup> June to 30<sup>th</sup> June 2011.
25. National conference on **"Recent trends in materials and devices"**, organized by Amity Institute of Applied Sciences and Amity school of Engineering & Technology held at **Amity University, Noida, India (20-22 May, 2010)**.
26. **2nd Global Industrial R&D Conclave (India-Czech Technology Partnership For MSMEs)** held at **India Habitat Centre, New Delhi (11<sup>th</sup> May-12<sup>th</sup> May, 2010)**.
27. **Stem Cell Global Symposium-2009** organized by **Stem Cell Global Foundation** held at **Manav Rachna Internatinal University, Faridabad, India (7th November,2009)**.
28. **"INCYTE 09 unveiling Biotechnology"**, Annual National Biotechnology Festival organized by Amity Institute of Biotechnolgy at **Amity University, Noida, India (28<sup>th</sup> Oct-29<sup>th</sup> Oct, 2009)**
29. **4th Indo-japan International Symposium** on "Nanotechnology and Healthcare in the developing world" organized by Deptt. of Biotechnology, **Biyani Girls college, Jaipur, India (21<sup>st</sup> Nov- 22<sup>nd</sup> Nov,2009)**.
30. **International Health Expo & conferences** organized by Paramount exhibitor held at Exhibition ground, Sec-34, Chandigarh, India (**6<sup>th</sup> Feb-8<sup>th</sup> Feb, 2009**).
31. **49th Annual conference of Association of Microbiologists of India**, based on "Diversity, Genomics and metagenomics" organized by Deptt. Of Zoology at **University of Delhi, India (18<sup>th</sup> Nov-20<sup>th</sup> Nov, 2008)**.
32. **32<sup>nd</sup> Annual Conference of the Indian Immunology Society IMMCON 2005** organized by Deptt of Immunopathology, **Post Graduate Institute of Medical**

**Education and Research [PGIMER], Chandigarh, India (24<sup>th</sup> Nov-27<sup>th</sup> Nov, 2005).**

33. **“Patent Awareness Workshop”** held at **Maharshi Dayanand University**, organized by Deptt. Of Bio-Sciences, **Maharshi Dayanand University, Rohtak** & Punjab State Council for Science & Technology, Chandigarh and Sponsored by PFC,TIFAC, Deptt. Of Science & Technology, New Delhi, India (21<sup>st</sup> Dec, 2002).
34. **71st Annual Meeting of Society of Biological Chemists**, held at Department of Biochemistry and Chemistry, **Punjab Agricultural University, Ludhiana, India (14<sup>th</sup> Nov-16<sup>th</sup> Nov, 2002).**

**Oral/poster presentations at conferences/symposium/workshop: 14**

1. Invited speaker in **1<sup>st</sup> National Achievers Conclave & Awards, organized by Indian Research Media & Awards** held at Pride Plaza hotel, Aerocity, New Delhi, dated on 26<sup>th</sup> March 2017.
2. **Oral presentation on**, Development of disposable activated *bombyx mori* silk fabric biostrips for pasteurization test of milk, **Kirti Rani, 2<sup>nd</sup> World Conference on Applied Science Engineering and Technology (WCASET-16)** organized by IFERP held on 29<sup>th</sup> -30<sup>th</sup> December 2016 at **Goa, India.**
3. **Oral presentation on**, Preparation of *Pennisetum Glaucum* Amylase Loaded Bovine Serum Albumin Nanoparticles by Desolvation Method, **Kirti Rani, in 3<sup>rd</sup> Annual International Conference on Pharmaceutical Sciences** held on 2<sup>nd</sup> May 2016 to 5<sup>th</sup> May 2016 at **Athens Institute for Education and Research, Athens, Greece.**
4. **Oral Presentation on**, Preparation and characterization of cicer arietinum amylase loaded chemically modified bovine serum albumin nanaoparticles by desolvation method, **Dr Kirti Rani Sharma, in “5<sup>th</sup> Annual International Conference on Advances in Biotechnology, Bio Tech 2015”** dated on 13<sup>th</sup> -15<sup>th</sup> march 2015 held at **Indian Institute of Technology, IIT Kanpur, India.**
5. **Oral Presentation on** “Entrapment of Glycine Max Amylase into Chemically Modified Egg Albumin and its Biodegradation with Alkaline Proteases”, **Kirti Rani, in 4<sup>th</sup> annual international conference on advances in biotechnology, held on 10<sup>th</sup>-11<sup>th</sup> march, 2014 at Dubai.**
6. **Oral Presentation on**, Immobilization of Glycine max amylase onto variety of chlorinated and nitrated silk, cotton and nylon fabrics”, **Kirti Rani, in 3<sup>rd</sup> annual international conference on advanced in biotechnology, held on 18<sup>th</sup>-19<sup>th</sup> March, 2013 at Singapore.**
7. **Oral presentation on** “Preparation of emulsified encapsulated Egg albumin nanoparticles of Azadirachta indica Alkaline phosphatase”, **Kirti Rani, in 3<sup>rd</sup> world congress on biotechnology, held on 13<sup>th</sup>-15<sup>th</sup> September, 2012 at Hyderabad, India.**
8. **Oral presentation on,”** Preparation of emulsified encapsulated Bovine serum albumin nanoparticles of Azadirachta indica Alkaline phosphatase, **Kirti Rani, in 3<sup>rd</sup> world congress on biotechnology, held on 13<sup>th</sup>-15<sup>th</sup> September, 2012 at Hyderabad, India.**
9. **Oral presentation on “Preparation of emulsified encapsulated bovine serum albumin microspheres of glucose oxidase” in 2<sup>nd</sup> World Congress on Biotechnology”, Philadelphia, USA, held dated on 29<sup>th</sup> Nov-1<sup>st</sup> Dec 2011**
10. Speech delivered in **4th Indo-japan International Symposium on “Nanotechnology and Healthcare in the developing world”** organized by Deptt. of Biotechnology, **Biyani Girls college, Jaipur, India (21<sup>st</sup> Nov- 22<sup>nd</sup> Nov,2009).**

11. Invited Lecture in **International Health Expo & conferences** organized by Paramount exhibitor held at Exhibition ground, Sec-34, Chandigarh, India (6<sup>th</sup> Feb-8<sup>th</sup> Feb, 2009).

**\*ORAL/ POSTER PRESENTATION BY SUPERVISED RESEARCH TRAINEE/ RESEARCH SCHOLAR/ STUDENTS: 4**

1. **Pragya & \*Kirti Rani.** Use and regulation of genetically modified organisms and genetically modified crop plants. **Biosafety and Regulatory Affairs on GMOs and GE Plants**” organized by **Biotech Consortium India Limited, New Delhi and Amity Institute of Biotechnology, AUUP, Noida. (Poster)**
2. **Pragya & \*Kirti Rani.** European legal restrictions on genetically modified organisms and genetically modified products. **Biosafety and Regulatory Affairs on GMOs and GE Plants**” organized by **Biotech Consortium India Limited, New Delhi and Amity Institute of Biotechnology, AUUP, Noida. (Poster)**
3. **Chanchal Chauhan & \*Kirti Rani.** Alkaline Protease mediated Biodegradation study of Olive Oil Driven Emulsified Bovine Serum Albumin Nanopreparation for Controlled Release of bound Pennisetum glaucum Amylase. **Hindustan College of Science & Technology, Farah, Mathura is organizing National Conference on Nanodevices focusing on Simulation, Modeling and Fabrication of Nanodevices** dated on April 18-19th, 2015 at Mathura campus, Mathura, UP, India. **(Oral)**
4. **Sunidhi Kant & \*Kirti Rani.** Biodegradation Analysis of Jasmine Oil Driven Bovine Serum Albumin Nanopreparation with Alkaline Protease for Controlled Release of immobilized Pennisetum glaucum Amylase. **Hindustan College of Science & Technology, Farah, Mathura is organizing National Conference on Nanodevices focusing on Simulation, Modeling and Fabrication of Nanodevices** dated on April 18-19th, 2015 at Mathura campus, Mathura, UP, India. **(Oral)**

**ANNEXURE- 2**

**Dr. Kirti Rani**

Assistant Professor (III),

Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida.

Sl. No.	Name of inventor	Title	Status (Provisional /Final)	National/ international	Patent Application No.	Institute/University from where patent was submitted
1.	Kirti Rani	Development of disposable biostrips of activated woven silk fabric for testing pasteurized milk.	Final	National	942/DEL/2012	Amity University Uttar Pradesh, noida
2.	Kirti Rani	A Modified Process of Purification Colocasia Esculenta (Taro) Alkaline Phosphatase by	Final	National	1554/DEL/2012	Amity University Uttar Pradesh, noida

		aqueous two phase extraction.				
3.	Kirti Rani	An improved process of purification of <i>Solanum Tuberosum</i> (Potato) Alkaline Phosphatase by biphasic extraction.	Final	National	387/DEL/2012	Amity University Uttar Pradesh, noida
4.	Kirti Rani	A Modified Process of Purification of <i>Phaseolus vulgaris</i> (French beans) Alkaline Phosphatase by aqueous two phase extraction.	Final	National	807/DEL/2012	Amity University Uttar Pradesh, noida
5.	Kirti Rani	A Modified Process of Purification of <i>Punica Granatum</i> (Pomegranate) Alkaline Phosphatase by aqueous two phase extraction.	Final	National	749/DEL/2012	Amity University Uttar Pradesh, noida
6.	Kirti Rani	Process for encapsulation of glucose oxidase in emulsified nanoparticles of egg albumin.	Final	National	466/DEL/2012	Amity University Uttar Pradesh, noida
7.	Kirti Rani	Process for immobilization of alkaline phosphatase extracted from <i>Azadirachta indica</i> in nanoparticles of egg albumin.	Final	National	649/DEL/2012	Amity University Uttar Pradesh, noida
8	Kirti Rani	An improved Process for entrapment of alkaline phosphatase extracted from <i>Azadirachta indica</i> .	Final	National	1375/DEL/2012	Amity University Uttar Pradesh, noida

9.	Kirti Rani	Process for immobilization of glucose oxidase in emulsified nanoparticles of bovine serum albumin.	Final	National	478/DEL/2012	Amity University Uttar Pradesh, noida
10.	Kirti Rani	Process of immobilization of alkaline phosphatase extracted from azadirachta indica onto chlorinated-polyethylenimine (PEI) woven bombyx mori silk fabrics.	Final	National	2470/DEL/2012	Amity University Uttar Pradesh, noida
11.	Kirti Rani	Process for immobilization of <i>Azadirachta Indica</i> alkaline phosphatase in bovine serum albumin microspheres.	Final	National	2470/DEL/2011	Amity University Uttar Pradesh, noida
12.	Kirti Rani	Process for development of amperometric biosensor for bile acid estimation” in (2009-2011).	Final	National	858/DEL/2008	Amity University Uttar Pradesh, noida

**\*LEADERSHIP/ ADMINISTRATIVE EXPERIENCE:**

1. Ph.D. Coordinator of, “Centre for Biotechnology and Biochemical Engineering” Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida
2. Member of flying squad/observer team of Central University Examination, Amity university Uttar Pradesh, Noida (April-May 2012 till now).
2. Involved in guardian counseling and guiding of the students of the MBA (Biotech) & B.Tech(Biotech) courses regarding the introduction of course curriculum, lab infrastructure, teaching environment and placements on educational tour in the admission duties of the Amity University, sec-125, Noida (2009-2010).
3. Served as mentor of B.Tech programme as a mentor’s team of Amity Institute of Biotechnology, Amity University, sec-125, Noida (2008-till date).
4. Served as Coordinator and subsequently as of the class monitoring Committee of the Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida (2008-2009).
5. Involved in regular monitoring, supervision and control of Quality Assurance Program along with the authentication of various Biochemical tests performed for Indoor, OPD and Emergency samples in Biochemistry laboratory of Department of Biochemistry, Post Graduate Institute of Medical & Research (PGIMER), Chandigarh (2004-2007).

**\*\*OTHER EXTRACURRICULAR ACTIVITIES:**

1. Certificate of appreciation awarded as participant for,” Mindful Walking- A Dementia Awareness Program” a event organized by Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida, dated on 21st September 2015.
2. Active Participant of “Chess”, Open sight Rifle Shooting” & “Athletics” events of Inter Amity Institutions Sports meet, SANGATHAN held at Amity University Uttar Pradesh, Noida.
3. Nominated for, “Baja Allianz Most Inspirational Working Women Hunt 2012”.
4. Part of Anveshan-2010,”The Art of Quality Teaching Contest”” organized by Ramanujan College of Education & Management, Mitrol, Palwal, Haryana (Affiliated to Maharshi Dayanand University, Rohtak) held at 13 March, 2010.