

RESUME



Dr. Bhavna Grover

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ACADEMIC QUALIFICATION

| | |
|--------------------------------------|------------------|
| Post Doctoral Fellowship: | 2011-16 |
| UGC Women PDF | |
| Ph.D.: | 2009 |
| IIT Roorkee | |
| CSIR-UGC- NET (JRF): | Dec 2009 |
| Junior Research Fellowship | |
| CSIR-UGC- NET (JRF): | Dec 2003 |
| Junior Research Fellowship | |
| CSIR-UGC- NET (LS): | June 2002 |
| Lecturership | |
| Master of Science in Zoology: | 2002 |
| M.D.S. University, Ajmer | |
| Bachelor of Science: | 2000 |
| M.D.S. University, Ajmer | |

Doctoral Thesis Title: Study on anti diabetic active principles from medicinal plants and their mechanism of action.

PDF Research Title: Study on Effective Prevention of Microbial Biofilm on Medical Devices.

TEACHIN EXPERIENCE

Working as a lecturer and research fellow, I have gained 18 years of valuable experience with both undergraduate and postgraduate students. In my experience, the best teaching involves concrete, hands-on examples, so in addition to classroom instruction, I have advised students on appropriate research topics and edited and evaluated their work. I also engaged students in my post doctoral research work by encouraging the maximum laboratory participation possible.

EXPERIMENTAL SKILLS

- ❖ Castration, ovariectomy, adrenalectomy of mice, rats & rabbits, biochemical, enzymatical and histological analysis of tissue sample and serum.
 - ❖ Identification and isolation of potential constituents with medicinal activity from herbal sources with the help of advance extraction techniques i.e. HPLC, GC, LCMS etc.
 - ❖ Isolation & purification of plasmid & genomic. DNA, isolation of RNA, RT-PCR, restriction digestion.
 - ❖ SDS-PAGE, DNA gel electrophoresis, southern-blot, western blotting, separating DNA from gel, microscopic and microbiological techniques.
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PAPERS PUBLISHED

- ❖ Sharma B, satapathi S.K. and Roy P. (2007) Hypoglycemic and antihyperglycemic effect of Aegel marmelos (L.) leaf extracts on streptozocin induced diabetic mice'. International Journal of Pharmacology 3 (6): 444-452.
- ❖ Sharma, B., Viswanath, G., Salunke, R. and Roy, P., 2008a. Effects of flavonoid-rich extract from seeds of Eugenia jambolana (L) on carbohydrate and lipid metabolism in diabetic mice. Food Chemistry, 110, 697-705.
- ❖ Sharma, B., Balomajumder, B. and Roy, P., 2008b. Hypoglycemic and hypolipidemic effects of flavonoid rich extract from Eugenia jambolana seeds on streptozotocin induced diabetic rats. Food and Chemical Toxicology. Doi:101016/j.fct.2008.03.020.
- ❖ Sharma B, Salunke R, Balomajumder C, Daniel S, Roy P, Anti-diabetic potential of alkaloid rich fraction from Capparis decidua on diabetic mice. J Ethnopharmacol. 2010; 13:457-462.
- ❖ Sharma B, Salunki R, Srivastava S, Majumder C, Roy. Effects of guggulsterone isolated from Commiphora mukul in high at diet induced diabetic rats. Food Chem xicol 2009;47:2631-9
- ❖ Kumar R, Sharma B, Tomar N et al. In Vivo evaluation of hypoglycemic activity of Aloe spp. and identification of its mode of action on GLUT-4 gene expression in vitro. Appl Biochem Biotechnol 2011; 164:1246–1256.

- ❖ Rajani, S., Bhavna, S., Ketan, S., and Partha, R . (2011): Smokeless tobacco extract impairs iron homeostasis in rats and human hepatoma, HepG2 cells. Toxicological and Environmental Chemistry., 93(5):1028-1044.
- ❖ Sharma B, Salunki R, S K Satapati and Roy P.(2010) Screening of Some Indian Medicinal Plant Extracts for Their Antihyperglycemic Activities In Streptozotocin Induced Diabetic Mice Journal of Food Biochemistry., 35(2011): 1398-1406.
- ❖ Chaurasia A, Kharya MD, Sharma B, Roy P. Glucose metabolism and diabetogenic gene expression analysis of chloroform fraction of Andrographis paniculata (Nees) whole herb in diabetic albino mice. Journal of complementary & integrative medicine 2012;9:21.
- ❖ 2015. Characterization of microbial species in relation with device associated infection. International Journal of Science and Research (2015). 4 (12) pages 14.
- ❖ Sharma, B., Chhabra, A. (2016), Effect of Juglone on Candida albicans growth and biofilm formation. Journal of Myco-pathological Research. J. Mycopathol, Res, 54(3) : 391-396, 2016.

COURSES AND WORKSHOPS:

| S.No. | Course Name | Duration | Name of Conducting Institute |
|-------|--|----------------------------------|---|
| 1 | State Level Online Short Term Training Programme An Initiative for Teaching Learning Excellence in Zoology | 18 - 23 January, 2021 | Commissionerate, College Education, Rajasthan & Government College, Kota, Rajasthan |
| 2 | 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" | December 10, 2020 - Jan 08, 2021 | Teaching Learning Centre, Ramanujan College University of Delhi |
| 3 | Faculty Development Programme (Workshop Cum Training) on the "Uses of ICT Tools in Development of E-Contents and their Delivery" | Sept 8 to 9, 2020 | Commissionerate of College Education Rajasthan, Jaipur & Govt Lohia College, Churu. |
| 4 | बीकानेर संभाग स्तरीय शिक्षक दक्षता संवर्द्धन कार्यशाला | 20-21 DEC2019 | Dr. B.R.A. Govt. College, Sri Ganganagar |
| 5 | International Training Program on Leadership & Career Development for Women Scientist & Technologist | 2-6 SEP., 2015 | Department Of Science And Technology, IUSSTF And COAch |

BOOK/CHAPTOR PUBLISHED:

- 1 Review of structure and function of insulin, In Recent Advances In Science. 2019, 1 st volume. RADHIKA BOOKS
- 2 Identification of a non-functional luteinizing hormone receptor in Ishikawa cells. Frontiers in Molecular Endocrinology of Invertebrates and Vertebrates. 2006, University of Hyderabad,

SEMINARS /CONFERENCES:

| S.No | Title of Seminar/Conference/workshop | Title of paper presented | Date and year | Institution and Place | International/National/State/Local level | Attended/Paper presented/Resource person |
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| 1 | वैश्विक पर्यावरण संकट और सामाजिक साहित्यिक चिंतन। | Impact Of Deforestation In Desert Biodiversity | 15 NOV .. 2019 | Dr. B.R.A. Govt. College, Sri Ganganagar | National | Paper presented |
| 2 | International conference on Environmental Ethics, Resources Management and Regional Developmtent Issues. | Implement the Biological Diversity Act in its true spirit | 29-30 NOV .. 2019 | Dr. B.R.A. Govt. College, Sri Ganganagar | Inter-national | Paper presented |
| 3 | An International Conference on Emerging Challenges, Their Solution and Present Advances in Science | Characterization of Microbial Species in Relation With Device Associated Infection | 4-5 OCT, 2019 | Govt. Science College, Sikar | Inter-national | Paper presented |
| 4 | Natinal Conference on transformation Society Through Litrature and social movement | The Ecocentric Approach of Ancient Society for Sustainable Development | 6-7 SEP., 2019 | S.S. Jain Subodh P.G. College, Jaipur | National | Paper presented |
| 5 | National Seminar on modern Trends in research methodology | Characterization of Microbial Species in Relation With Device Associated | 2019 | Tantia University, Sriganganagar | National | Paper presented |

| | | Infection | | | | |
|----|---|-----------|----------------------------|---|---------------|-----------------|
| 6 | National Conference on Effect of Radiation on Human Race: Precautionary in future | | 2013 | Seth G.L.Bihani S.D. (PG) College, SGNR | National | Paper presented |
| 7 | National Convention of chemical Engineers | | 2007 | IIT Roorkee | National | Paper presented |
| 8 | National Biotechnology Conference on Current Trends & Future Perspectives | | 2006 | IIT Roorkee | National | Participated |
| 9 | Therapeutic and Diagnostic Products for reproductive Health | | 2006 | Iit Roorkee | International | Participated |
| 10 | Frontiers in Molecular Endocrinology | | 2005 | University of Hyderabad | International | Paper presented |
| 11 | National Webinar on Advances in Genomics Tools for Rice Improvement (AGTRI-2020) | | 12 th AUG ., 2020 | Bihar Agricultural University, Sabour | National | Attended |