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Dr.Rupinderjeetkaur

Experience

Sep, 2018 to date D.A.V. College, Sec-10, Chandigarh
Associate Professor, Department of Biotechnology

Aug 2006- to Dec 2016 D.A.V. College, Sec-10, Chandigarh
Assistant Professor (Department of Bioinformatics)

- Teaching undergraduate and postgraduate students.
- Supervising Projects and Dissertations for the postgraduate students.

Dec 2002-Jul 2005 UT Southwestern Medical Center Dallas, TX
USA

Postdoctoral fellow

- Understanding the phenomenon of HIV latency.
- Induction of latent HIV from patient cells.
- Finding alternative drugs for drug resistant HIV patients.
- Training students and assistants.

Jul 1997- Jul 2002 National Institute of Immunology New Delhi

Doctoral research

Studies on plasmid DNA based immunization against Japanese encephalitis virus

Education

1997-2002 National Institute of Immunology New Delhi
PhD

1995-1997 Delhi University
Delhi

MSc (Botany)

1992-1995 Delhi University
Delhi

BSc (Hons) Botany

Skills

Most of the commonly used molecular biology, Immunology and protein chemistry techniques.

Publications

1. **Kaur R, Sachdeva G, Vrati S.** Plasmid DNA immunization against Japanese encephalitis virus: immunogenicity of membrane-anchored and secretory envelope protein. *J Infect Dis.* 2002 Jan 1;185(1):1-12. Epub 2001 Dec 14.
2. **Rath A, Batra D, Kaur R, Vrati S, Gupta SK.** Characterization of immune response in mice to plasmid DNA encoding dog zona pellucida glycoprotein-3. *Vaccine.* 2003 May 16;21(17-18):1913-23.
3. **Kaur R, Vrati S.** Development of a recombinant vaccine against Japanese encephalitis. *J Neurovirol.* 2003 Aug;9(4):421-31. Review.
4. **Kaur R, Rauthan M, Vrati S.** Immunogenicity in mice of a cationic microparticle-adsorbed plasmid DNA encoding Japanese encephalitis virus envelope protein. *Vaccine.* 2004 Jul 29;22(21-22):2776-82.
5. **Rauthan M, Kaur R, Appaiahgari MB, Vrati S.** Oral immunization of mice with Japanese encephalitis virus envelope protein synthesized in *Escherichia coli* induces anti-viral antibodies. *Microbes Infect.* 2004 Nov;6(14):1305-11.
6. **Kaur R, Klichko V, Margolis D.** Ex vivo modeling of the effects of mycophenolic acid on HIV infection: considerations for antiviral therapy. *AIDS Res Hum Retroviruses.* 2005 Feb;21(2):116-24.
7. **Ylisastigui L, Kaur R, Johnson H, Volker J, He G, Hansen U, Margolis D.** Mitogen-activated protein kinases regulate LSF occupancy at the human immunodeficiency virus type 1 promoter. *J Virol.* 2005 May;79(10):5952-62.
8. **Kaur R, Bedimo R, Kvanli MB, Turner D, Shaw L, Margolis D.** A placebo-controlled pilot study of intensification of antiretroviral therapy with mycophenolatemofoetil. *AIDS Res Ther.* 2006 May 26;3:16.
9. **Klichko V, Archin N, Kaur R, Lehrman G, Margolis D.** Hexamethylbisacetamide remodels the human immunodeficiency virus type 1 (HIV-1) promoter and induces Tat-independent HIV-1 expression but blunts cell

- activation. *J Virol.* 2006 May;80(9):4570-9.
10. **R Kaur, M Khurana, M Bindal, A Sharma.** Formulation And Characterization Of Carageenan Gels Encapsulating Amphotericin B And Lactobacillus acidophilus Against Candidal Vaginitis" **Journal of Multidisciplinary Research in Healthcare.** 2017 October; 4(1), 105–117.
 11. **R Kaur, M Khurana, R K Virk, A Sharma.** Antibiofilm potential of metal based nanoparticles: Synthesis and mode of action. **Journal of Multidisciplinary Research in Healthcare.** 2018, 4(2), 79-84.
 12. **Anjali Sharma, Rupinderkaur Virk, Meenu Khurana, Rupinderjeetkaur.** Protein Interaction Databases: A Review. **Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences.** 2018, May-June 4(3), 223-234.
 13. **Rupinderjeetkaur, Tamanna Kaundal, Anjali Sharma.** Nanoparticulate Selenium synthesized by probiotics: Formulation, Characterization and Biofilm Scavenging activity. **Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences.** 2018, May-June 4(3), Page no 291-304
 14. **Anjali Sharma, Shabnam Sharma, Rupinderjeetkaur.** Synthesis and characterization of alginate nanoparticles encapsulating selenium and their antimicrobial evaluation. **Research & Reviews: A Journal of Microbiology & Virology.** 2018, 3(2), Page no 16-21
 15. **Anjali Sharma, Aparna Thakur, Rupinder Virk, Meenu Khurana, Rupinderjeetkaur.** Isolation and characterization of Rhamnolipid from Pseudomonas aeruginosa: Assessment of biofilm disruption potential. **Research & Reviews: A Journal of Microbiology & Virology.** 2018, 3(2), Page no 26-33
 16. **Rupinderjeet Kaur, Urvashi, Anjali Sharma.** Role of Tristetrapolin Protein in Muscle Regeneration: An Insilico Analysis. **The Pharma Innovation Journal.** 2018; 7(6): 376-379
 17. **Tejinder Kaur, Rupinderjeetkaur.** Insilico Functional Characterization of a hypothetical protein from Plasmodium Vivax Sal-1. *Applied Biological Research.* 2019; 21(1): 81-85
 18. **Meenu Khurana, Tamanna Kaundal, Anjali Sharma,**

Rupinderjeet Kaur, and NavneetBatra. Characterization, Antimicrobial and Anti-motility Activity of North Indian Propolis: Bulletin of Environment, Pharmacology and Life Sciences:, Vol 10 (6) May 2021 : 112-120.

19. Samriti Dogra, Rajesh Biswas, **Rupinderjeet Kaur**, Sangeeta Sharma, Kakoli Biswas.A novel trypsin inhibitor peptide MoCh I with antimicrobial activity derived from Momordicacharantia:Journal of Applied Biology & Biotechnology; 2023, 11(5): 213-220"