

## CURRICULUM VITAE



### AMITA SUNEJA DANG

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Centre for Medical Biotechnology  
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### EDUCATIONAL QUALIFICATION

- ❖ Ph.D. 2007, Department of Biosciences, M.D. University, Rohtak.(Haryana)
- ❖ CSIR JRF- NET, Dec 2000.
- ❖ M.Sc. (Zoology), 2000, M. D. University, Rohtak.



### POSITIONS AND AFFILIATIONS

#### Teaching Experience: 14 years

- ❖ **Sept,2022-Present: Associate Professor**, Centre for Medical Biotechnology, M.D. University, Rohtak
- ❖ **Sept,2010-Sept,20122: Assistant Professor**, Centre for Medical Biotechnology, M.D. University, Rohtak
- ❖ **Aug,2007- March 2010: Lecturer**, Govt. College for Girls, Sector-42, Chandigarh
- ❖ **Aug,2006- March,2007: Lecturer**, Govt. College, Sector-11, Chandigarh



### RESEARCH PROFILE

**Research Experience** : 15 years

**Research Area** : **Molecular Diagnostics**

#### Research Guidance (Ph.D.):

**Ongoing** : **Four**

**Completed** : **Four**



### RESEARCH PROJECTS

- ❖ Co-PI in the Interdisciplinary life science (IPLS) program for advance research and education for 'Proteomic analysis of malaria parasite and its vector under different physiological conditions' granted by DBT, New Delhi. (completed)
- ❖ "To study the association of IL-18 serum level with polycystic ovary syndrome" under Radha Krishanan fund 2013-2014 (completed)
- ❖ "Evaluating the role of rs2414096 polymorphism in predisposition of polycystic ovary syndrome" under Radha Krishanan fund 2017-2018 (completed)
- ❖ Evaluating the role of bioprimering and nanopriming in Cicer arietinum: a genomics and proteomics approach under drought stress 2022 (Ongoing)

## RESEARCH PAPERS

- ❖ Batra, M., Bhatnager, R., Kumar, A., Suneja, P., & **Dang, A. S.** (2022). Interplay between PCOS and Microbiome: The road less travelled. *American Journal of Reproductive Immunology*. **(I.F-3.777)**
- ❖ Kumar, P., Rani, S., Dahiya, P., Kumar, A., **Dang, A. S.**, & Suneja, P. (2022). Whole genome analysis for plant growth promotion profiling of *Pantoea agglomerans* CPHN2, a non-rhizobial nodule endophyte. *Frontiers in Microbiology*, *13*, 998821. **(I.F-6.064)**
- ❖ Kumar, P., Chauhan, V., **Dang, A. S.**, Kumar, A., & Suneja, P. (2022). Draft genome sequence of *Pantoea agglomerans* CPHN2, a potential plant-growth-promoting Endophyte. *Microbiology Resource Announcements*, *11*(8), e00192-22.
- ❖ Rani, S., Kumar, P., Dahiya, P., **Dang, A. S.**, & Suneja, P. (2022). Biogenic Synthesis of Zinc Nanoparticles, Their Applications, and Toxicity Prospects. *Frontiers in Microbiology*, *13*. **(I.F-6.064)**
- ❖ Rani, S., Kumar, P., Dahiya, P., Maheshwari, R., **Dang, A. S.**, & Suneja, P. (2022). Endophytism: A Multidimensional Approach to Plant-Prokaryotic Microbe Interaction. *Frontiers in Microbiology*, *13*. **(I.F-6.064)**
- ❖ Bhutani, N., Maheshwari, R., Sharma, N., Kumar, P., **Dang, A. S.**, & Suneja, P. (2022). Characterization of halo-tolerant plant growth promoting endophytic *Bacillus licheniformis* MHN 12. *Journal of Genetic Engineering and Biotechnology*, *20*(1), 113.
- ❖ Lather, M., Mallick, P. K., Sharma, D., Kale, S., **Dang, A. S.**, Adak, T., & Singh, O. P. (2022). Population genetic structure of the malaria vector *Anopheles fluviatilis* species T (Diptera: Culicidae) in India. *Medical and Veterinary Entomology*, *36*(2), 194-202. **(I.F-2.479)**
- ❖ Deswal, R., Narwal, V., Kumar, P., Verma, V., **Dang, A. S.**, & Pundir, C. S. (2022). An improved amperometric sarcosine biosensor based on graphene nanoribbon/chitosan nanocomposite for detection of prostate cancer. *Sensors International*, *3*, 100174
- ❖ Bhatnager, R., Bhasin, M., Arora, J., & **Dang, A. S.** (2021). Epitope based peptide vaccine against SARS-COV2: an immune-informatics approach. *Journal of Biomolecular Structure and Dynamics*, *39*(15), 5690-5705. **(I.F-5.235)**
- ❖ Deswal, R., Narwal, V., **Dang, A.**, & Pundir, C. S. (2020). The prevalence of polycystic ovary syndrome: a brief systematic review. *Journal of Human Reproductive Sciences*, *13*(4), 261.
- ❖ Deswal, R., & **Dang, A. S.** (2020). Dissecting the role of micro-RNAs as a diagnostic marker for polycystic ovary syndrome: a systematic review and meta-analysis. *Fertility and sterility*, *113*(3), 661-669. **(I.F-7.490)**
- ❖ Deswal, R., Nanda, S., & **Dang, A. S.** (2019). Single nucleotide polymorphisms in treatment of polycystic ovary syndrome: a systematic review. *Drug Metabolism Reviews*, *51*(4), 612-622. **(I.F.: 6.984)**
- ❖ Deswal, R., Nanda, S., Ghalaut, V. S., Roy, P. S., & **Dang, A. S.** (2019). Cross-sectional study of the prevalence of polycystic ovary syndrome in rural and urban populations. *International Journal of Gynecology & Obstetrics*, *146*(3), 370-379. **(I.F-4.447)**
- ❖ Deswal, R., Nanda, S., & **Dang, A. S.** (2019). Association of Luteinizing hormone and LH receptor gene polymorphism with susceptibility of Polycystic ovary syndrome. *Systems Biology in Reproductive Medicine*, *65*(5), 400-408. **(I.F-2.958)**

- ❖ Bhatnager, R., Senwal, A., Nanda, S., & **Dang, A. S.** (2019). Association of rs6259 polymorphism with SHBG levels and Poly Cystic Ovary Syndrome in Indian population: a case control study. *Molecular biology reports*, 46(2), 2131-2138. **(I.F-2.742)**
- ❖ Bhatnager, R., Jalthuria, J., Sehrawat, R., Nanda, S., & **Dang, A. S.** (2019). Evaluating the association of TNF  $\alpha$  promoter haplotype with its serum levels and the risk of PCOS: a case control study. *Cytokine*, 114, 86-91. **(I.F-3.926)**
- ❖ Bhatnager, R., Bhasin, M., & **Dang, A. S.** (2018). Comprehensive analysis of damage associated SNPs of MMP9 gene: A computational approach. *Computational Biology and Chemistry*, 77, 97-108. **(I.F-3.737)**
- ❖ Bhatnager, R., & **Dang, A. S.** (2018). Comprehensive in-silico prediction of damage associated SNPs in Human Prolidase gene. *Scientific reports*, 8(1), 1-14. **(I.F-4.996)**
- ❖ Bhatnager, R., Nanda, S., & **Dang, A. S.** (2018). Plasma prolidase levels as a biomarker for polycystic ovary syndrome. *Biomarkers in Medicine*, 12(6), 597-606. **(I.F-2.498)**
- ❖ Bhatnager, R., Nanda, S., & **Dang, A. S.** (2018). The role of rs267606943 polymorphism in the prolidase gene and plasma prolidase in polycystic ovary syndrome. *British Journal of Biomedical Science*, 75(3), 153-155. **(I.F-2.432)**
- ❖ Bhatnager, R., Dangi, M., & **Dang, A. S.** (2018). Comprehensive analysis of damage associated SNPs of Sex Hormone Binding Globulin gene. *Journal of Applied Biology and Biotechnology*, 6(5), 1-1. **(I.F-**
- ❖ Deswal, R., Nanda, S., & **Dang, A. S.** (2019). Unveiling the association between Vitamin D receptor and poly cystic ovary syndrome—A systematic review and meta-analysis. *International Journal for Vitamin and Nutrition Research*, 87(3–4), 207-218. **(I.F-2.56)**
- ❖ Deswal, R., Yadav, A., & **Dang, A. S.** (2018). Sex hormone binding globulin-an important biomarker for predicting PCOS risk: A systematic review and meta-analysis. *Systems biology in reproductive medicine*, 64(1), 12-24. **(I.F-3.061)**
- ❖ Bhatnager, R., Kaur, R., Dahiya, T., & **Dang, A. S.** (2017). Computational prediction of damage associated non synonymous SNPs of CYP17A1 and CYP19A1 gene. *International Journal of Trend in Scientific Research and Development (IJTSRD)*, 1(6), 635-646. **(I.F-5.125)**
- ❖ Sharma, S., Kumar, S., Tahlan, S., **Dang, A. S.**, & Narasimhan, B. (2016). QSAR Studies of Thiazolidinone Derivatives as Antimicrobial Agents. *Der Pharma Chemica*, 8(12), 236-246.
- ❖ Bhatnager, R., Nanda, S., & **Dang, A. S.** (2016). Increased Prolidase Level and Altered Hormonal Profile in Women with Poly Cystic Ovarian Syndrome. *growth*, 9, 10. **(I.F-4.2)**
- ❖ Saini, Vandana., Sween, Vishal, **Dang, A. S** and Ajit Kumar(2016).Molecular Dynamics and Docking Simulation Studies of Human Voltage Gated Sodium Channel against Neurotoxins.*J Drug Des Res.*3(1)1022
- ❖ Saini, V., Piplani, S., **Dang, A. S.**, & Kumar, A. (2016). CoMFA, CoMSIA and Docking Studies of Saquinavir Based Peptidomimetic Inhibitors of HIV-1 Protease. *Current Enzyme Inhibition*, 12(2), 161-169.
- ❖ Lather, M., Sharma, D., **Dang, A. S.**, Adak, T., & Singh, O. P. (2015). Isolation and characterization of polymorphic microsatellite markers from the Malaria Vector Anopheles fluviatilis Species T (Diptera: Culicidae). *Journal of medical entomology*, 52(3), 408-412. **(I.F; 2.278)**
- ❖ Sharma, D., Lather, M., Mallick, P. K., Adak, T., **Dang, A. S.**, Valecha, N., & Singh, O. P. (2015). Polymorphism in drug resistance genes dihydrofolate reductase and dihydropteroate synthase in Plasmodium falciparum in some states of India. *Parasites & vectors*, 8(1), 1-9. **(IF.: 4.223)**

- ❖ Sharma, D., Lather, M., Dykes, C. L., **Dang, A. S.**, Adak, T., & Singh, O. P. (2016). Disagreement in genotyping results of drug resistance alleles of the *Plasmodium falciparum* dihydrofolate reductase (Pfdhfr) gene by allele-specific PCR (ASPCR) assays and Sanger sequencing. *Parasitology research*, 115(1), 323-328. **(I.F-2.383)**
- ❖ Sharma, D., Lather, M., Adak, T., **Dang, A.S.**, (2015). Allele-specific PCR (ASPCR) assays for the detection of mutations in dihydropteroate synthase gene of *Plasmodium falciparum* are highly unreliable. *Journal of international academic research for multidisciplinary* (5).
- ❖ Bhatnager, R., Rani, R., & **Dang, A. S.** (2015). Antibacterial activity of *Ferula asafoetida*: a comparison of red and white type. *Journal of Applied Biology and Biotechnology*, 3(2), 0-2. **(I.F-0.85)**
- ❖ **Dang, A. S., & Deswal, R.** (2014). Prevalence of Depression in Women with Polycystic Ovary Syndrome (PCOS) Research & Reviews: A Journal of Biotechnology Volume 4, Issue 311-16 **(I.F-3.307)**
- ❖ **Dang, A. S., & Deswal, R.** (2014). The metabolic syndrome: Time for addressal. *Journal of Health Research and Reviews*, 1(3), 59.

### PROCEEDINGS

- ❖ Ritu Deswal, Manisha and **Amita Suneja Dang.**(2015) Association of Interleukin 18 with Polycystic ovary syndrome (PCOS). Proceedings of National Seminar on Innovative researches in life sciences
- ❖ Richa Bhatnagar, Monika, Reena Rani and **Amita Suneja Dang.**(2015) Evaluation of antibacterial activity of *Moring oleifera* extracts, Proceedings of National Seminar on Innovative researches in life sciences
- ❖ Pooja Suneja and **Amita Suneja** (2014) Probiotics. Proceedings National Seminar “Next Generation Science: vision 2020 & Beyond” March 8, 2014. Department of Zoology, Maharshi Dayanand University, Rohtak (Haryana)
- ❖ **Amita Suneja Dang** and Pooja Suneja (2014). Gut microbiota, major health concern: A Review Proceedings National Seminar “Next Generation Science: vision 2020 & Beyond ” March 8, 2014. Department of Zoology, Maharshi Dayanand University, Rohtak (Haryana)
- ❖ **Amita Suneja Dang**, Preeti, Pooja Suneja Madan and Ajit Kumar A (2013). Primary characterization of staining effects of *Lawsonia inermis* extracts on plant tissues. Proceedings National Seminar “Promising trends in Science Galaxy” March 20, 2013. Department of Zoology, Maharshi Dayanand University, Rohtak (Haryana).

### BOOK CHAPTERS

- ❖ Suneja, P., Kumar, P., Rani, S., Simran, Dang, A.S. (2023). Identification of Fungal Endophytes by ITS rDNA Technique. In: Sankaranarayanan, A., Amaesan, N., Dwivedi, M.K. (eds) *Endophytic Microbes: Isolation, Identification, and Bioactive Potentials*. Springer Protocols Handbooks. Humana, New York, NY. [https://doi.org/10.1007/978-1-0716-2827-0\\_11](https://doi.org/10.1007/978-1-0716-2827-0_11)
- ❖ Rani, S., Kumar, P., Deepika, Dang, A.S., Suneja, P. (2023). Detection of Endophytes by Reactive Oxygen Staining. In: Sankaranarayanan, A., Amaesan, N., Dwivedi, M.K. (eds) *Endophytic Microbes: Isolation, Identification, and Bioactive Potentials*. Springer Protocols Handbooks. Humana, New York, NY. [https://doi.org/10.1007/978-1-0716-2827-0\\_9](https://doi.org/10.1007/978-1-0716-2827-0_9)

- ❖ Kumar, P., Rani, S., Sarita, Dang, A.S., Suneja, P. (2023). Detection of Endophytes by Electron Microscope. In: Sankaranarayanan, A., Amaresan, N., Dwivedi, M.K. (eds) Endophytic Microbes: Isolation, Identification, and Bioactive Potentials. Springer Protocols Handbooks. Humana, New York, NY. [https://doi.org/10.1007/978-1-0716-2827-0\\_8](https://doi.org/10.1007/978-1-0716-2827-0_8)
- ❖ Ritu Deswal, Smiti Nanda and Amita Suneja Dang .Evaluating the Association of Vitamin D Receptor Gene Polymorphism with the Risk of Polycystic Ovary Syndrome Trends in Technology for Agriculture, Food, Environment and Health *Editors* R. K. Behl Machiavelli Singh Achim Ibenthal Manfred J. Kern Pg -495-503 Agrobios Digitals, Jodhpur
- ❖ Amita Suneja Dang, Neha Verma, Shiv Kumar Giri and Anil Kumar. Probiotics and Health Benefits Nutraceuticals: Food Applications and Health Benefits 978-1-68507-209-30 Nova Science Publishers, USA



## ASSOCIATION WITH PROFESSIONAL BODIES

- ❖ Life Member, Indian Science Congress Association
- ❖ Life Member, Biotech Research Society of India
- ❖ Life member, Association of Microbiologists of India

**Amita Suneja Dang**