



Ajeenkya D Y Patil University

D Y Patil Knowledge City, Charholi Bk. Via Lohegaon, Pune – 412 105 (MH) INDIA

FACULTY PROFILE

NAME: Dr Nawneet Kumar Kurrey

DESIGNATION: Professor

E-MAIL: nawneet.kurrey@adypu.edu.in

QUALIFICATION: PhD



BIOGRAPHY:

Dr. Nawneet Kumar Kurrey is an accomplished scientist and academician in the fields of **Biotechnology, Cancer Biology, and Nutraceuticals**. With extensive experience in **cancer research, molecular biology, and preventive oncology**, Dr. Kurrey has significantly contributed to scientific advancements, particularly in cancer biomarker identification and dietary interventions for cancer prevention. Dr. Kurrey earned his **PhD in Biotechnology** from the **National Centre for Cell Sciences, Pune**, after completing his Master's in Biotechnology from **Guru Ghasidas Vishwavidyalaya, Bilaspur**. His postdoctoral research at the **School of Medicine, Southern Illinois University, USA**, focused on **cancer stem cells and targeted therapeutics**.

Students Project Guided: BE/B.Tech: 09

ME/ MS: 02

PhD: 04 (Registered)

CORE COMPETENCY AREAS: Cancer biology; Cancer Stem Cells; *in vitro* and *in vivo* models of human diseases; Stem Cells, and Ageing. Nutrigenomics and Nutri-genetics; Nutraceuticals in health & wellness

PUBLICATIONS:

1. **Nawneet K. Kurrey**, Swati P. Jalgaonkar, Alok V. Joglekar, Avinash D. Ghanate, Prasad D. Chaskar, Rahul Y. Doiphode, Sharmila A. Bapat. Snail and Slug mediate radio- and chemo-resistance by antagonizing p53-mediated apoptosis and acquiring a stem-like phenotype in ovarian cancer cells. *Stem Cells*, 2009 Sep; 27(9):2059-68. ISSN:1066-5099; Impact Factor: 4.0; Total Citations: 776

2. **Kurrey NK**, Amit K, S.A.Bapat. Snail and Slug are major determinants of ovarian cancer invasiveness at the transcription level. *Gynecologic Oncology*. 2005 Apr; 97(1): 155-65. ISSN: 0090-8258; Impact Factor: 4.5; Total Citations: 367

3. Bapat SA, Mali AM*, Koppikar CB and **Kurrey NK*** - Stem and progenitor-like cells contribute to the aggressive behavior of human epithelial ovarian cancer. *Cancer Research*; 2005; Apr 15; 65(8): 3025-9. ISSN:0099-7013; Impact Factor: 12.5; Total Citations: 1005 (* Equal contribution)

4. Bapat SA, Jin V, Berry N, Balch C, Sharma N, **Kurrey N**, Zhang S, Fang F, Lan X, Li M, Kennedy B, Bigsby RM, Huang TH, Nephew KP. Multivalent epigenetic marks confer microenvironment-responsive epigenetic plasticity to ovarian cancer cells. *Epigenetics*. 2010 Nov-Dec; 5(8):716-29. ISSN: 1559-2294; Impact Factor: 3.7; Total Citations: 65

5. Erfan Eilati, Carolyn C Small, Stacey R McGee, **Nawneet K Kurrey**, Dale Buchanan Hales. Anti-inflammatory effects of fish oil in ovaries of laying hens' target prostaglandin pathways. *Lipids in Health and Disease* 2013, Oct 24;12:152. ISSN: 1476-511X; Impact Factor: 3.9. Total Citations: 24
6. Karen H. Hales, Sheree C. Speckman, **Nawneet K. Kurrey**, Dale B. Hales. Uncovering molecular events associated with the chemosuppressive effects of flaxseed: A microarray analysis of the laying hen model of ovarian cancer. *BMC Genomics*. 2014 Aug 24; 15(1):709. ISSN: 1471-2164; Impact Factor: 3.5; Total Citations: 21
7. J. Anu Bhushani, **Nawneet Kumar Kurrey**, C. Anandharamakrishnan. Nanoencapsulation of green tea catechins by electrospraying and its effect on controlled release and in-vitro permeability. *Journal of Food Engineering*; 2017; 199, 82-92. ISSN: 0260-8774; Impact Factor: 5.3; Total Citations: 140
1. Yashawini PS, **Kurrey NK**, Singh SA. Encapsulation of sesamol in phosphatidyl choline micelles: Enhanced bioavailability and anti-inflammatory activity. *Food Chemistry*; 2017 Aug 1; 228:330-337. ISSN: 0308-8146; Impact Factor: 8.5; Total Citation: 42
2. Kavalappa, Yogendra Prasad, Haranahalli Shivarudrappa, Arpitha, **Kurrey, Nawneet**, Udayawara Rudresh, Deepika, Ponesakki, Ganesan; B-carotene at physiologically attainable concentration induces apoptosis and downregulates cell survival and antioxidant markers in human breast cancer (MCF-7) cells. *Molecular and Cellular Biochemistry*; 2017: Dec;436(1-2):1-12. ISSN: 0300-8177; Impact Factor: 3.5; Total Citation: 82
3. Vipin. A.V., Raksha.Rao.K., **Nawneet Kumar Kurrey**., Anu Appaiah.K.A.Venkateswaran, G. Protective effects of phenolics rich extract of ginger against Aflatoxin B1-Induced oxidative stress and Hepatotoxicity. *Biomedicine and Pharmacotherapy*; 2017; 91 (July), 415-424. ISSN: 0753-3322; Impact Factor: 6.9; Total Citation: 127
4. M, Vijaykrishnaraj; BV, Mohan; SP, Muthukumar; **Kurrey, Nawneet**; Prabhasankar, Pichan. Antigen-specific gut inflammation and systemic immune responses induced by pro-longing wheat gluten sensitization in BALB/c murine model". *Journal of Proteome Research*: 2017: Oct 6;16(10):3514-3528; ISSN: 1535-3893; Impact Factor: 3.8; Total Citations: 12
5. Ravi Hindupur, **Kurrey Nawneet**, Yuki Manabe, Tatsuya Sugawara, Vallikannan Baskaran. Polymeric chitosan-glycolipid nanocarriers for an effective delivery of marine carotenoid fucoxanthin for induction of apoptosis in human colon cancer cells (Caco-2 cells). *Materials Science & Engineering C*; 2018 Oct 1; 91:785-795.; ISSN: 0928-4931; Impact Factor: 5.5: Total Citations: 56
13. Archer Ann Catherine, **Nawneet K. Kurrey**, Prakash M. Halami. In vitro adhesion and anti-inflammatory properties of native *Lactobacillus fermentum* and *Lactobacillus delbrueckii* spp. *Journal of Applied Microbiology*; 2018 Jul;125(1):243-256; ISSN: 1365-2672: Impact Factor: 3.2; Total Citations: 32
14. Ranjini A., **Kurrey NK.**, Manonmani HK. The positive intervention effects of resveratrol on acrylamide induced cyto-/genotoxicity in primary lymphocytes of rat. *Pharmacognosy Magazine*. Year : 2018 ; Volume : 14; Issue : 59; Page : 643-648. ISSN: 0973-1296; Impact factor: 0.6; Total Citations: 07
15. Manjulatha Devi S, **Nawneet K Kurrey** & Prakash M. Halami. In vitro anti-inflammatory activity and expression of immunomodulatory genes among probiotic *Lactobacillus* species. *Journal of Functional Foods*; 2018; 47;19-27. ISSN: 1756-4646; Impact factor: 5.6; Total Citations: 3.8; Total Citations: 53
16. Mahadevaiah*, **Nawneet K. Kurrey***, Gowtham G.K. & Somshekar R. Laser Ablation Synthesized Copper Nanoparticles for Cancer Treatment: An Animal Cell Lines Studies. *American Journal of Cancer Prevention* 2018. 6(2) 35-40. (*Equal contribution). ISSN:2328-7314
17. Mahadevaiah*, **Nawneet K. Kurrey***, Gowtham G.K. & Somshekar R. Laser Ablation Synthesized Nanoparticles

and Animal Cell Lines Studies. Journal of Biosciences. 2019; 44; 135. (* Equal contribution). ISSN: 0250-5991; Impact factor: 2.1

18. Mohan Kumar B.V., Vijaykrishnaraj M., **Nawneet K. Kurrey**, Vijay S. Shinde & Prabhasankar P. Prolyl endopeptidases degraded low immunoreactive wheat flour attenuates immune responses in caco-2 intestinal cells and gluten sensitized BALB/c mice. Food and Chemical Toxicology. 2019; Jul; 129:466-475.ISSN: 0278-6915; Impact factor: 3.9; Total Citations: 10

19. Lohith Kunyeit, **Nawneet K Kurrey**, Anu K.A., and Reeta Rao. Probiotic yeasts inhibit virulence of Non-albicans Candida species. mBio. 2019; Oct15;10(5); Impact factor 6.4. ISSN: 2150-7511; Total Citations: 65

20. **Nawneet K Kurrey**, Vinayak Pradip Kale: Advances in Nutrigenomics and Personalized Nutrition International Journal of Food and Nutritional Sciences, Volume 11 , Issue 11 , Year 2022, Pages 16590-16597

21. Lohith Kunyeit, **Nawneet K Kurrey**, Anu K.A., and Reeta Rao. Secondary metabolites from food-derived yeasts inhibit virulence of Candida albicans. mBio. June 7; 2021; Impact factor 6.4. ISSN: 2150-7511; Total Citations:12

22. Shubha JR, Tripathi P, Somashekar BS, **Kurrey N**, Bhatt P. Woodfordia fruticosa extract supplementation stimulates the growth of L. casei and L. rhamnosus with adapted intracellular and extracellular metabolite pool. J Appl Microbiol. 2021 May 10. doi:10.1111/jam.15132.ISSN: 1365-2672:Impact Factor: 3.2;Total Citations: 02

23. Amit M, Ambika C, Abhishek S. Gosavi, Urjita P. Shirwadkar, Khushal V. Wangdale, Santosh Kumar Behera, **Nawneet Kumar Kurrey**, Kiran Kalia. Overview of Oral Cavity Squamous Cell Carcinoma: Risk factors, Mechanisms, and Diagnostics. Oral Oncology. 2021; 105451. ISSN: 1368-8375. Impact Factor: 4.0; Total Citations: 420

24. **Nawneet K Kurrey** , Aarya Suthar S: Nutritional Epidemiology: Methodologies and Applications: International Journal Of Food And Nutritional Sciences, Volume 11 , Issue 9 , Year 2022, Pages 4680-4688

25. NS Mathew, **NK Kurrey**, BK Bettadaiah, PS Negi; Anti-proliferative activity of *Ensete superbum* Roxb. Cheesman extract and its active principles on human colorectal cancer cell lines; Journal of Food Science 86 (11), 5026-5040; ISSN: 1750-3841: **Impact Factor: 3.2**; Total Citations: 10

26. **Nawneet K Kurrey**, Namdev Gopal Krishna Hadapad: Advancements in High-Pressure Processing for Food Preservation International Journal of Food and Nutritional Sciences, Volume 11, Issue 2, Year 2022, Pages 1556-1563

27. Bhupendra Baghel, Reeta Rani Singhanial, Anil Kumar Patel, **Nawneet Kurrey**, Chiu-Wen Chen & Cheng-Di Dong. Marine polysaccharides and potential enzymes for its degradation. Indian Journal of Experimental Biology Vol. 62, July 2024, pp. 447-462. **Impact Factor:1.2**; ISSN:0019-5189

28. Prashant Kumar, Reeta Rani Singhanial, Yamini Sumathi, **Nawneet Kumar Kurrey**, Chiu-Wen Chen, Anil Kumar Pate, Cheng-Di Dong. Investigating innovative techniques for biochar modification to enhance the removal of heavy metals from aqueous environments: a comprehensive review. Clean Technologies and Environmental Policy. 2024. <https://doi.org/10.1007/s10098-024-02962-4>. **Impact Factor:4.2. Total Citations: 03**; ISSN: 1618-9558

29. **Nawneet Kumar Kurrey**. Monitoring And Controlling Implantable Artificial Organs Through Wireless Systems Advances in Engineering and Technology, Volume 978-93-95060-77-6, Year 2024, Pages 708-721

30. **Nawneet Kumar Kurrey** . Evaluating the Water Quality in a Sewage Treatment Plant: A Case Study Advances in Engineering and Technology, Volume 978, Year 2024, Pages 722-737

31. Jyoti Srivastava, Khushbu Iqbal Siddiqui, **Nawneet Kurrey**, Shabab Mohammed: Green Synthesis of

32. **Nawneet K Kurrey**, Namdev Gopal Krishna Hadapad: Dietary Patterns and Mental Health Outcomes International Journal of Food and Nutritional Sciences, Volume 11 , Issue 9 , Year 2022, Pages 4720-4726

ACHIEVEMENTS/AWARDS/RECOGNITION:

- **INSPIRE Faculty Award** (2012) by DST, Govt. of India
- **Qualified CSIR-UGC JRF Exam** (Dec 2002) & eligible for SPM Fellowship (2003)
- **Qualified GATE (Biotechnology)** (2003)
- **Best Herbal Oral Presentation Award** – International Conference on Medicinal Plants Research(2024)
- **Best Poster Award** – 7th Asia Pacific NMR Symposium & NMRS Meeting (Feb 2017, IISc Bangalore)
- **Travel Grant Awardee** – 10th Young Investigator’s Meeting, IndiaBioscience (2018)
- **Recipient of Travel Award** – 6th Young Investigator’s Meeting, Hyderabad (2014)

SEMINARS / WORKSHOPS / CONFERENCES ATTENDED:

- ❖ Presented research work at 10th **Young Investigator’s Meeting (YIM)** organized by Indiabioscience at Thiruvanthapuram, India in March 5-8th, 2018.
- ❖ Presented research work at Cell Symposia: Hallmarks of Cancer held at San Fransisco, United States in October 29-31, 2012.
- ❖ Presented research work at INSPIRE Faculty monitoring cum Interaction meet conducted by DST, Govt. of India at IISER-Pune, India in February 3-4, 2017.
- ❖ Recipient of travel award to attend 6th **Young Investigator’s Meeting (YIM)** held at Hyderabad, India in February 9-12, 2014.
- ❖ Attended 33rd Annual Convention of Indian Association for Cancer Research (IACR) held at Thiruvanthapuram, India in February 13-15, 2014.
- ❖ Speaker at “Ovarian Cancer Mini-symposium” organized at School of Medicine, Southern Illinois University, Carbondale, United States in March, 10th 2011.
- ❖ Presented poster on “Uncovering Molecular Events Associated with Chemosuppressant Effects of Flaxseed: A Microarray Analysis in Laying Hen Model of Ovarian Cancer” at 44th Annual Meeting - Society for the Study of Reproduction held at Portland, Oregon, United States in July, 2011.
- ❖ Presented poster at 11th Annual Meeting – Illinois Symposium on Reproductive Sciences held at Champaign-Urbana, Illinois, United States in October 29-31, 2011.
- ❖ Presented poster at 1st Indiana-Illinois End Epithelial Ovarian Cancer Coalition Workshop held at University of Notre Dame, June 10-11, 2012.
- ❖ Presented poster at Simmons Cancer Institute Annual Research Symposium held at Springfield, Illinois, United States in November, 2011.
- ❖ Presented poster on “ Modulation of gene expression by transcription factors, Snail and Slug in Epithelial Ovarian Cancer” at Model Organisms and Stem cells in Development, Regeneration and Disease, held at National Centre for Biological Science, TIFR, Bangalore, India in February, 2008.
- ❖ Presented poster on “ Transcription factors Snail and Slug downregulates junction components and enhances invasiveness of Epithelial Ovarian Cancer” in 24th Annual Convention of Indian Association for Cancer Research & International Symposium on “Human Papillomavirus & Cervical Cancer” held at Institute of Cytology & Preventive Oncology (ICMR) NOIDA, India in February, 2005.
- ❖ Attended Indo-US Workshop on “Tissue Engineering & Stem Cell Technologies” organized by Sree Chitra Tirunal Institute for Medical Science & Technology at Trivandrum in February, 2004.

- ❖ Attended training cum workshop on “Basic Cell Culture and EBV Transformation of Lymphocyte” at Department of Genetics, Guru Nanak Dev University, Amritsar, India.

PROFESSIONAL BODY MEMBERSHIP

1. Life member of the Indian Association for Cancer Research, India.
2. Associate member of The Endocrine Society (USA)
3. The EMT International Association (TEMTIA), Australia

Editorial Responsibilities:

1. ADYPU International Journal of Innovation & Research (Editorial board member)
2. Academia Biology (Editorial board member)
3. SM Journal of Gynecologic and Obstetrics (Editorial board member)
4. Roger Journal of Food and Nutrition (Editorial board member)