

DR. KANCHAN A PHATAK

PERSONAL INFORMATION

1. Name (in Block Letters) :- DR. KANCHAN A PHATAK
2. Designation: Assistant Professor
3. Name of the College: Modern Education Society's
Nowrosjee Wadia College, Pune-01
4. Department :- Zoology
5. Date of Joining: 15th June, 2009
6. Date and Place of Birth :- 23/10/1986, PUNE.
7. Sex :- Female
8. Nationality :- Indian
9. Category :- GENERAL
10. Email:- kaphatak23@gmail.com
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EDUCATIONAL INFORMATION

Examinations	School-Board/College/University	Year of Passing.	% of Passing	Class/Grade	Subjects
<u>S.S.C.</u>	Renuka Swaroop Girls High school (Maharashtra Board)	March 2002	83.73 %	Ist class with distinction	English, Marathi, Sanskrit, Science, Mathematics, Social Science.
<u>H.S.C.</u>	Abasaheb Garware College (Maharashtra board)	March 2004	69.67%	Ist class	Mathematics, Biology, Chemistry and Physics.
<u>B.Sc.</u>	Abasaheb Garware College (University of Pune)	June	94.44%	Ist class with distinction	Zoology, Botany and Chemistry

		2007			
<u>M.Sc.</u>	Department of Zoology, University of Pune	2009	AGP 5.80/6.00 (98%)	‘O’ Grade	Zoology
<u>CSIR-UGC NET</u>	CSIR- UGC	December 2008 June 2009	CSIR-JRF	NA	Life Sciences
<u>Ph. D</u>	Department of Zoology, Savitribai Phule University	27 th July, 2020	NA	NA	Zoology

- **Period of teaching experience :**

P.G. Classes (in years) 13 YEARS

U.G. Classes (in years) 13 YEARS

- **Research Interest:**

Nanotoxicology
Drosophila Genetics
 Biochemistry
 Bio-nanoscience
 Nano-biointeractions

RESEARCH PUBLICATION

Sr. No.	Author(s)	Publication year	Title	Journal details *	Indexed in **	Impact factor \$
1.	Phatak, K. A., Khanna, P. K., & Nath, B. B	2022	Safety evaluation of zinc oxide microparticles on <i>Drosophila</i> melanization pathway.	<i>Materials Today: Proceedings.</i> https://doi.org/10.1016/j.matpr.2022.02.084 ISSN 2214-7853 (article in press)	Scopus	1.24
2.	Phatak, K. A., Khanna, P. K., & Nath, B. B	2021	Study of Developmental and Immunogenic Consequences of Silver Nanoparticles in <i>Drosophila</i> .	<i>New Visions in Biological Science, Vol. 4,</i> 105-110. https://doi.org/10.9734/bpi/nvbs/v4/4736F	Scopus	--
3.	Phatak, K. A., Khanna, P. K., & Nath, B. B. ()..	2016	Particle size-independent induction of leucism in <i>Drosophila melanogaster</i> by silver: nano vs. micro	<i>Metallomics</i> , 8(12), 1243-1254. https://doi.org/10.1039/c6mt00152a	Scopus Web of Science	4.00
4.	Nambiar S, Phatak K, A.	2012	Study of Effects of Chloromequat Chloride on <i>Drosophila melanogaster</i>	National Journal of Life Sciences ISSN-0972-995X	--	---
5.	Sarfaraz S, Supekar S C, Phatak, K. A	2011	Study of Effects of Monosodium Glutamate on <i>Drosophila melanogaster</i>	Journal of Association of Zoologists, India. ISSN-2229-6549	--	--

BOOK CHAPTERS

Sr. No.	Author(s)	Publication year	Title	Journal details *	Indexed in **
1.	Phatak, K. A., Khanna, P. K., & Nath, B. B	2021	Study of Developmental and Immunogenic Consequences of Silver Nanoparticles in <i>Drosophila</i> .	<i>New Visions in Biological Science</i> , Vol. 4, 105-110. https://doi.org/10.9734/bpi/nvbs/v4/4736F	Scopus

PAPERS PRESENTATION IN CONFERENCES:

Sr. No.	Title of the paper presented	Title of Conference / Seminar	Organized by	Whether international /National/State /Regional/College or University level	Year
1	Developmental Effects of Monosodium Glutamate on <i>Drosophila melanogaster</i>	National conference on “Advances in Life Sciences For Sustainable Rural Development”	S. Khandelwal College, Akola.	National	2011
2.	Teratogenic Effects of Chlormequat Chloride on <i>Drosophila melanogaster</i>	International Conference on “Business Opportunities in Life Sciences	Modern College of Arts, Sciences, Commerce, Shivajinagar, Pune.	International	2012
3	Synthesis, characterization of Zinc Oxide nanoparticles and to study its Applications	ICPCCS12	Nowrosjee Wadia College, Pune-01 On 10 th -12 th	International	2012

			December 2012		
4	Effects of Calcium carbide on <i>Drosophila melanogaster</i> .	ICPCCS 2012	Nowrosjee Wadia College, Pune-01 On 10 th -12 th December 2012	International	2012
5	‘Novel genetic and biochemical investigations on pigmentation pathway with silver nanoparticles using <i>Drosophila</i> as model system’	“International Conference on new Frontiers in Environmental and Allied Sciences”	Prof. Ramkrishna More ACS College, Akurdi on 15 th - 16 th February, 2019.	International	2019
6	Use of oxide of silver as melanization modulator	National Conference on chemistry of Chalcogenide compounds	Defence Institute of Advanced Technology (DIAT), during 14 th -15 th March, 2019.	National	2019
7	‘Effect of Chlormequat Chloride on <i>Drosophila melanogaster</i> ’	National conference on conservation of Biological Diversity	Mudhoji College, Phaltan on 1 st February, 2020.	National	2020
8	Calcium carbide: a potent teratogen for <i>Drosophila melanogaster</i>	International conference on Multifunctional and hybrid materials for energy and	29 th January 2020 to 31 st January 2020	International	2020

		environment			
9	Effects of Monosodium glutamate on <i>Drosophila melanogaster</i>	National conference on Interdisciplinary Approaches in Life Sciences	Yashvantrao Chavan Institute of Science, Satara on 2 nd and 3 rd February, 2020.	National	2020
10	Worked as a resource person in organized by	National level workshop on 'Basic techniques in <i>Drosophila</i> genetics and embryology'	Department of zoology, Nowrosjee Wadia College on 13 th -15 th February 2020.	National	2020
11	Sodium Fluoride: A common toothpaste ingredient causing teratogenic effects in <i>Drosophila melanogaster</i> "	National Conference on Chemistry of Chalcogenides-2021	Defence Institute of Advanced Technology (DIAT), during 24 th -25 th March, 2021.	National	2021
12	Invited talk on 'AgNPs in <i>Drosophila</i> : Characterization and Biological consequences'	International online conference on Nanomaterials (ICN- 2021)	Kottayam, Kerala during 9 th – 11 th April 2021.	International	2021
13	Biological impact of zinc oxide and zinc micro and nanoparticles on survival of <i>Drosophila melanogaster</i>	National Conference on Chemistry of Chalcogenides	Defence Institute of Advanced Technology (DIAT), during 12-13 January 2017	National	2017
14	LEUCISM IN <i>DROSOPHILA</i> : RESPONSE TO SILVER METAL STRESS	All India Cell Biology Conference	Jiwaji University Gwalior, MP	National	2016

15	Differential response of <i>Drosophila</i> melanization pathway towards silver and silver oxide nanoparticles	BIOSPECTRUM 2021 International Conference on Biotechnology & Biological Sciences	18 th to 20 th November 2021	International	2021
16	Melanin modulating potential of metal and metal oxides in <i>Drosophila</i>	Indian <i>Drosophila</i> Research Meeting 2021	IISER, KOLKATA, 13-17 th December 2021	National	2021
17	Mathematical Biology: An interdisciplinary subject to understand complex processes in biology		Department of Maths, Nowrosjee Wadia College, Pune-01	April, 2017	2017
18	Safety evaluation of Zinc oxide microparticles on <i>Drosophila</i> melanization pathway	International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects 2021		International	2021

CONFERENCE/ SYMPOSIA/ WORKSHOPS ATTENDED:

Sr no	Title of Conference / Seminar	Year
1.	Attended e-webinar on 'Winning the game of publishing a research paper ' by Wiley Webinar Series on 7 th September, 2021.	2021
2.	Attended teachers' workshop on 'New Revised syllabus of TYBSc Zoology, SPPU, Pune' on 8 th September, 2021.	2021
3.	Attended COVID-19 awareness programme on 24 th april 2020 organized by Shivaji University KOLHAPUR.	2020
4.	Participated in COVID-19 Awareness Quiz organized by T. C. College, Baramati on 25 th April 2020.	2020
5.	Participated in COVID-19 Awareness Quiz organized by PDEA's Annasaheb Magar College on 30 th April 2020.	2020
6.	Attended 3 days National level Seminar on 'Life Sciences 2020: Education and Innovation for future' during 5 th - 7 th May, 2020 organized by PDEA's- Annasaheb Magar College, Hadapsar.	2020
7.	Attended a webinar on 'Happy solutions to life's challenges: sustaining mental wellbeing of teachers in the COVID times' organized by IQAC, Nowrosjee Wadia College on 3 rd June, 2020.	2020
8.	Participated in National Quiz on 'Awareness about the few Indian acts related to women' organized by Interbnal Complaint Committee (ICC) Sinhagad Institute of Technology, Lonavala on 6 th June 2020.	2020
9.	Attended National level webinar on 'Bird flower and Flower birds' and 'Yes , we are healthy' on 28 th July 2020 organized by Department of Zoology botany and microbiology, Shri Shivaji Science arts college, Chikhali, Buldhana	2020
10.	Completed a one week online Faculty Development Program on E- Content development and online teaching during 24 th august – 30 th august 2020, organized by C. T. Bora College, Shirur.	2020

11.	Attended two days online national webinar on 'Innovations in Zoological Research and Skill development' organized by Post graduate department of Zoology and Research Centre, Shri shiv chhatrapati college , Junnar on 30 th - 31 st March 2021.	2020
12.	Attended state level seminar on 'Concept, Tools and Techniques in Ecology and Behavioural Research' on 11-12 th February, 2020 organised by SP College, Pune	2020
13.	Attended one day lecture series at Department of Zoology, Nowrosjee Wadia College on 1 st October, 2019.	2019
14.	Completed one week workshop on 'Basic Techniques in Animal Tissue Culture' organized by TLC, SPPU at Sir Parshurambhau College during 9 th - 14 th December, 2019.	2019
15.	Attended a three days workshop on Research based teaching pedagogies organized by IISER PUNE on 19 th – 21 st August, 2019.	2019
16.	Attended a state level workshop on 'Bio-safety in teaching and Research' organized by Institutional Bio-safety committee (IBSC-SPPU), SPPU on 4 th October 2017	2017
17.	Attended one day state level workshop on 'The Sexual Hrrassment of Women at Workplace act, 2013' orgnised by Nowrosjee Wadia College, Pune-01 on 3 rd March 2017	2017
18.	Attended one day workshop on 'Common birds Monitoring Programme'organised by BNHS on 10 th February 2017	2017
19.	Attended two days state level workshop on 'Bioinformatics and Biostatistics using R- Software' organized by SP College, Pune-01 on 30thsept- 1 st October 2016	2016
20.	Attended a state level seminar on 'Tools and Techniques in Animal Sciences' organized by Ahmednagar College on 29 th September 2016	2016
21.	Attended one day state level symposium on 'Concepts in Molecular Biology' organized by SP College, Pune-01 on 27 th September 2016	2016
22.	Attended a national symposium on 'Recent Trends in Biology' on 28 th March by SPPU	2016
23.	Attended a Nnational Seminar on 'Current Trends in Biodiversity Conservation and Climate Change' on 24-25 th February 2016 organised by Y M College, Pune	2016
24.	Attended a workshop on 'Understanding Origin and Endnote Software'organised by Centre for Sensor studies on 17 th October 2015	2015

25.	Attended national workshop on 'Sensitisation and technological empowerment of women for their S and T endeavours' organized by National academy of science on 25 th September 2015	2015
26.	Attended All India Cell Biology Conference and symposium on 'Cellular Response to Drugs on 10-12 th December 2014	2014
27.	Attended Rotary youth Leadership Program on 4 th February 2014	2014
28.	Attended a national conference on 'Biodiversity monitoring and research current practice and future needs organized by Fergusson college on 7 th -8 th December 2012'	2012
29.	Attended All India Cell Biology Conference and symposium on 'Stem cells and Pattern Formation on 4-6 th December 2008'	2008
30.	Title of Conference / Seminar	Year
31.	Attended a National level webinar on importance of applied zoology in current scenario on 4 th November 2020 organized by department of Zoology and IQAC, Swami Muktanand College of Science, Yeola (Nasik).	2020

RESEARCH FUNDING:

- Completed a minor Research Project 'Toxicity Assessment of Silver and Zinc Oxide Nanoparticles using *Drosophila melanogaster* as a model system' funded by BCUD-SPPU. Year 2016-18. Amount: 1,60,000/-

RESEARCH PROJECT GUIDANCE:

- Successfully guided more than 20 M.Sc and B.Sc students for their Research Projects till to date in the subjects such as Zoology and Biotechnology from Nowrosjee Wadia College, Modern College Shivajinagar and SPPU.

GUEST LECTURES:

1. Invited as a Guest Lecturer for F.Y. and S.Y. B.Sc Zoology students at Department of Zoology, BJS College, Wagholi.

MEMBERSHIPS:

Sr No	Details
1	Life Member of Association of Teachers of Biological Science, Homi Bhabha Centre for Science and Education (HBCSE), TIFR, Mumbai, India
2	Life member of Society For Materials Chemistry, Bhabha Atomic Research Centre (BARC), Trombay, Mumbai

AWARDS AND RECOGNITIONS:

Sr No	Details
1	Received best platform award and a cash prize of Rs. 5000/- for a paper entitled 'Novel genetic and biochemical investigations on pigmentation pathway with silver nanoparticles using <i>Drosophila</i> as model system' in "International Conference on new Frontiers in Environmental and Allied Sciences" organised by Prof. Ramkrishna More ACS College, Akurdi on 15 th - 16 th February, 2019.
2	Received second prize for oral presentation of paper in National Conference on chemistry of Chalcogenide compounds organised by Defence Institute of Advanced Technology (DIAT), during 14 th - 15 th March, 2019.

Collaboration and MoUs

1. Collaboration is established with **Dr. Pawan Kumar Khanna, Professor, Department of Applied Chemistry, Defence Institute of Advanced Technology (DIAT)**, a deemed to be University, Girinagar.

Topic: Toxicity Evaluation of Nanoparticles using Insect model system

Nature of Collaboration: Collaboration is established to share infrastructure and laboratory facilities between the Collaborators and guidance for M.Sc students for their research Projects

2. Collaboration is established with **Prof. B. B. Nath, Director MIE-SPPU Institute of Higher Education Doha, Qatar for research**

