

## FACULTY PROFILE



<b>Name</b>	Yogesh Bhargava		<b>Date of Birth:</b> 24.10.1977							
<b>Designation</b>	Assistant Professor	<b>Date of holding Present Post</b>	28.05.2013							
<b>Name of the Department and School</b>	Department of Microbiology, School of Biological Sciences									
<b>Contact Details</b>	Email : <a href="mailto:yogesh.microbio@gmail.com">yogesh.microbio@gmail.com</a>		<b>Mobile:</b> 9425339482							
<b>Additional Responsibility in the university, if any</b>										
<b>Educational Qualifications (UG onwards)</b>	MSc, MPhil (IIT Bombay), PhD (Germany)									
<b>Research Area/Specialization</b>	Optical Imaging of Stress in Zebrafish									
<b>Awards/ Honors / Fellowship Conferred (With details thereof)</b>	<ul style="list-style-type: none"> <li>•Young Scientist Award research grant by Science and Engineering Research Board (SERB), New Delhi, India. (2013)</li> <li>•International Max Planck Research School (IMPRS) Fellowship, by Max Planck Society, Germany. (2005)</li> <li>•First Prize at Eureka (Inter-IIT poster competition) held at IIT Kanpur, India. (2003)</li> <li>•Merit First Award (M.Sc. Microbiology), Rani Durgavati University, Jabalpur, MP, India. (2000)</li> <li>•Qualified Graduate Aptitude Test in Engineering (GATE-2000) in Life Science subjects with All India Rank 135. (2000)</li> </ul>									
<b>Summary of Publications (Number only)</b>	<b>Research Papers</b>	20	<b>Books</b>	02	<b>Chapter in Books</b>	00	<b>Seminars/ Conferences Proceedings</b>	03	<b>Projects</b>	01

### Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Completed/ongoing
1.	Role of Super Oxide Dismutase 1 (SOD1) in modulating Nitric Oxide coupled cGMP (NO-cGMP) signalling	Science and Engineering Research Board (SERB), New Delhi	03 years	SB/FT/LS-439/2012, dated 22.10.2013	17,70,000/-	Completed

### PUBLICATIONS :

#### National Publications (Details of Research Papers) 2013 onwards:

2016	<p>1) Nema S, Hasan W, Jana UK and <b>Bhargava Y*</b>. "Neurotoxin cypermethrin alters motor behaviour distinct to state-anxiety in adult zebrafish". Madhya Bharti Journal of Science (India), 2016, 60 (2), 46 – 50. (ISSN: 09727434) (*Corresponding Author).</p> <p>2) Sahu H and <b>Bhargava Y*</b>. "Differential effect of carbendazim cytotoxicity on microbes and zebrafish embryos". Madhya Bharti Journal of Science (India), 2016, 60 (1), 35 – 39. (ISSN: 09727434) (*Corresponding Author).</p>
2020	1) Dohare S, <b>Bhargava Y</b> , Kango N. Bioremediation of hydrocarbon pollutants: A green approach. Madhya Bharti Journal of Science (India), 2020, Accepted manuscript.

#### International Publications (Details of Research Papers) 2013 onwards:

2013	<p>1) <b>Bhargava Y</b>, Hampden-Smith K, Chachlaki K, Wood K, Vernon J, Allerston CK, Batchelor AM, Garthwaite J. "Improved genetically-encoded, FlincG-type fluorescent biosensors for neural cGMP imaging". <b>Frontiers in Molecular Neuroscience</b>, 2013, 6, 26. DOI: 10.3389/fnmol.2013.00026. (Impact factor: 5.07) (ISSN: 16625099 and 16625099) <a href="http://www.ncbi.nlm.nih.gov/pubmed/24068983">http://www.ncbi.nlm.nih.gov/pubmed/24068983</a></p> <p>2) <b>Bhargava Y*</b>, Nicke A and Rettinger J. "Validation of Alexa-647-ATP as a powerful tool to study P2X receptor ligand binding and desensitization". <b>Biochemical and Biophysical Research Communications</b>, 2013, 438, 295 – 300. (Impact factor: 2.46) (ISSN: 10902104 and 0006291X) (*Corresponding Author) <a href="http://www.ncbi.nlm.nih.gov/pubmed/23896604">http://www.ncbi.nlm.nih.gov/pubmed/23896604</a></p>
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2016	<p>1) Nema S, Hasan W, Bhargava A, <b>Bhargava Y*</b>. "A novel method for automated tracking and quantification of adult zebrafish behaviour during anxiety". <b>Journal of Neuroscience Methods</b>, 2016, 271, 65 – 75. (Impact factor: 2.55) (ISSN: 01650270 and 1872678X) (*Corresponding Author) <a href="http://www.ncbi.nlm.nih.gov/pubmed/27396369">http://www.ncbi.nlm.nih.gov/pubmed/27396369</a></p> <p>2) Nema S and <b>Bhargava Y*</b>. "Designing and Testing of Self-Cleaning Recirculating Zebrafish Tanks". <b>Zebrafish</b>, 2016, 13, 369 – 373. (Impact factor: 2.24) (ISSN: 15458547 and 15578542) (*Corresponding Author) <a href="http://www.ncbi.nlm.nih.gov/pubmed/27096937">http://www.ncbi.nlm.nih.gov/pubmed/27096937</a></p>
2017	<p>1) Nema S and <b>Bhargava Y*</b>. "Open-RAC: Open-Design, Recirculating and Auto-Cleaning Zebrafish Maintenance System". <b>Zebrafish</b>, 2017, 14, 371 – 378. (Impact factor: 2.24) (ISSN: 15458547 and 15578542) (*Corresponding Author) <a href="https://www.ncbi.nlm.nih.gov/pubmed/28537503">https://www.ncbi.nlm.nih.gov/pubmed/28537503</a></p>
2018	<p>1) Gaur H, Pullaguri N, Purushothaman S, Nema S, <b>Bhargava Y*</b> and Bhargava A. "ZebraPace: An open-source method for cardiac rhythm estimation in untethered zebrafish larvae". <b>Zebrafish</b>, 2018, 15, 254 – 262. (Impact factor: 2.24) (ISSN: 15458547 and 15578542) (*Corresponding Author) <a href="https://www.ncbi.nlm.nih.gov/pubmed/29653072">https://www.ncbi.nlm.nih.gov/pubmed/29653072</a></p> <p>2) Nema S and <b>Bhargava Y*</b>. "Quantitative assessment of cypermethrin induced behavioural and biochemical anomalies in adult zebrafish". <b>Neurotoxicology and Teratology</b>, 2018, 68, 57 – 65. (Impact factor: 2.98) (ISSN: 08920362 and 18729738) (*Corresponding Author) <a href="https://www.ncbi.nlm.nih.gov/pubmed/29802885">https://www.ncbi.nlm.nih.gov/pubmed/29802885</a></p> <p>3) Gaur H, Purushothaman S, Pullaguri N, <b>Bhargava Y</b>, Bhargava A. "Sodium benzoate induced developmental defects, oxidative stress and anxiety-like behaviour in zebrafish larva". <b>Biochemical and Biophysical Research Communications</b>, 2018, 502, 364 – 369. (Impact factor: 2.46) (ISSN: 10902104 and 0006291X) <a href="https://www.ncbi.nlm.nih.gov/pubmed/29842881">https://www.ncbi.nlm.nih.gov/pubmed/29842881</a></p> <p>4) <b>Bhargava, Y*</b>. "Open-design Recirculating Systems for Zebrafish Culture". <b>Aquacultural Engineering</b>, 2018, 81, 71 – 79. (Impact factor: 2.00) (ISSN: 01448609 and 18735614) (*Corresponding Author) <a href="https://www.sciencedirect.com/science/article/pii/S0144860917301644">https://www.sciencedirect.com/science/article/pii/S0144860917301644</a></p>
2019	<p>1) Sharma RK, Nigam S, Chouryal YN, Nema S, Bera SP, <b>Bhargava Y</b> and Ghosh P. "Eu-Doped BaF<sub>2</sub> Nanoparticles for Bioimaging Applications". <b>ACS Applied Nano Materials</b>, 2019, 2, 927 – 936. (ISSN: 25740970) (<a href="https://pubs.acs.org/doi/10.1021/acsanm.8b02180">https://pubs.acs.org/doi/10.1021/acsanm.8b02180</a>)</p>
2020	<p>1) Pullaguri N, Nema S, <b>Bhargava Y*</b>, Bhargava A. "Triclosan alters adult zebrafish behavior and targets acetylcholinesterase activity and expression". <b>Environmental Toxicology and Pharmacology</b>, 2020, 75, 103311. (Impact factor: 3.06) (ISSN: 13826689) <a href="https://www.ncbi.nlm.nih.gov/pubmed/31841724">https://www.ncbi.nlm.nih.gov/pubmed/31841724</a>)</p>
<b>Books Published 2013 onwards</b>	
Year	(with author(s), title of the book, name of publisher, year of Publication, ISBN )
2017	<p>1) <b>Bhargava Y*</b> and Bhargava A*. "ZebraTrack: An Automated Method to study Zebrafish Behaviour". (Reference Book on new technologies. ISBN: 978-3-659-90051-8, Feb-2017, Lambert Academic Publishing, OmniScriptum GmbH &amp; Co. KG, Saarbrücken, Germany).</p> <p>2) <b>Bhargava Y*</b>. "Allosteric Interactions in P2X Receptor Subunits – Photolabeling and Fluorescence Technologies to Study P2X Receptors". (Reference Book on new technologies. ISBN: 978-620-2-02541-6, Sept-2017, Lambert Academic Publishing, OmniScriptum GmbH &amp; Co. KG, Saarbrücken, Germany).</p>
<b>National Seminar/Conference/Workshops (Attended) 2013 onwards</b>	
Year	(with topic, date and venue)
2016	National Seminar on Science and Technology for National Development at Dr. Harisingh Gour University, Sagar, MP.
2018	National Seminar on Future India: Science and Technology, Students By and For Research Colloquium at Dr. Harisingh Gour University, Sagar, MP.
<b>International Seminar/Conference/Workshops (Attended) 2013 onwards</b>	
Year	(with topic, date and venue)

2017	International conference on Interface of Physical, Chemical and Biological Sciences at Dr. Harisingh Gour University, Sagar, MP.
<b>National Seminar/Conference/Workshops (Organised) 2013 onwards</b>	
Year	(with topic, date and venue)
2019	1) DST sponsored workshop on Advance Imaging and Microscopy at Dr. Harisingh Gour University, Sagar.
<b>No. of Patents Filed (with date, title and other details) 2013 onwards</b>	
Year	
2019	1) Indian Patent application No. and Published date: 201921037378 on 11/10/2019. Title: A cost-effective multimodal optical imaging system to concurrently image diverse biomarkers from live-behaving, untethered whole animal. Inventors: <b>Yogesh Bhargava</b> and Shubham Nema.
<b>Invited Lectures delivered (Outside University) with title, date and place 2013 onwards:</b>	
Year	
2017	DBT Brainstorming Session on Glial Cell Research in Health and Disease, at Jiwaji University, Gwalior, MP.
<b>No. of Ph.D. Awarded:</b>	01
<b>No. of Ph.D. Scholars working:</b>	Nil
<b>No. of Foreign Visits 2013 onwards :</b>	
Year	Name of the country, Date, Place, Purpose of visit, duration, etc.
	Nil
<b>Memberships in Academic Bodies:</b>	
1) Life member of Indian Academy of Neuroscience (IAN) since 2016 2) Life member of Indian Science Congress Association (ISCA) since 2017.	
<b>Other Academic Achievements :</b>	
<b>(i) Reviewer of the Journal(s) (With details of the journal(s) and duration)</b>	
Reviewer at following Journals: <ol style="list-style-type: none"> <li>1. Chemosphere (2019) (Elsevier)</li> <li>2. Environmental Science and Pollution Research (2019) (Elsevier)</li> <li>3. Biology Open (2019) (The company of Biologist)</li> <li>4. Toxicological Sciences (2018) (Oxford Academics)</li> <li>5. Cell Biology and Toxicology (2014) (Elsevier)</li> </ol>	
<b>(ii) Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university)</b>	
<ul style="list-style-type: none"> <li>• Board of Studies at Department of Microbiology, at Dr. Harisingh Gour University, Sagar.</li> <li>• Board of Studies at School of Biological Sciences, at Dr. Harisingh Gour University, Sagar.</li> </ul>	