

CURRICULUM VITAE OF DR. P. J. JOHN



Dr. P. J. John

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PRESENT STATUS AND OFFICIAL ADDRESS:

Head, Department of Zoology (19.02.2019- till date)
Associate Professor, (19th may, 2006 to till date)
Centre for Advanced Studies, Department of Zoology,
University of Rajasthan, Jaipur-302004
Rajasthan, India. (Ph. 0141-2711158)
E-mail: placheriljohn@uniraj.ac.in, placheriljohn@gmail.com.

ADDITIONAL POSITIONS:

Hony. Director, P.G. School of Life Science, University of Rajasthan, Jaipur.
Convener, COC in Microbiology, UOR, Jaipur.
Coordinator, PG Courses in Microbiology, UOR, Jaipur.
Deputy Chief-Coordinator, University Innovation Cluster in Biotechnology, UOR, Jaipur.
Joint Director- Cognitive and Neurosciences, CCT, UOR, Jaipur.
Co-coordinator- MHRD's Innovation Cell, UOR, Jaipur.

POSITIONS HELD:

Director -Administrative Services Pre-Training Centre, UOR, Jaipur (19.07.2018 to 18.07.2019).
Coordinator- Life Sciences, CCT, UOR, Jaipur from Nov.2011-June 2017.
Member, State Level Expert Appraisal Committee (SEAC) Rajasthan from Jan. 2015- Dec. 2017.
Assistant Professor: From 8th August, 1996 to 18th May, 2006.
Research Associate: From June 1993 to May, 1996.

ACADEMIC RECORDS

- Certificate in Environmental Studies: 2001: IGNOU, New Delhi.
- Ph.D. (Zoology- Ecotoxicology) 1993: Ch.C.S. University, Meerut, U.P. India.
Title of Thesis: *Xenobiotic Action of Certain Pesticides on Some Organs of *Mystus vittatus*.*
- M.Sc. (Zoology): 1987: Ch.C.S. University, Meerut, U.P. India.
- B.Sc. (Zoology Hons.): 1984: Kerala University, Kerala, India

CURRENT RESEARCH ACTIVITIES

1. (a). **Isolation, Purification and Characterization of industrially important enzymes from natural isolates.**

(b). **Isolation, Purification and Characterization of potential microorganisms (bacteria and fungi) and the enzymes which degrade the persistent environmental pollutants (pesticides, tannins, acrylamides, asbestos, poultry feather etc.) from soil and contaminated sites.**

General Objectives of the study includes:

- Screening and isolation of microorganisms from various sources.
- Optimization of growth conditions in vitro.
- Molecular characterization of isolates
- Isolation, purification, immobilization and characterization of enzyme from the isolates.

2. **Xenobiotic Action of Heavy metal, Pesticides and Nano-particles on Swiss albino mice and Wistar rats**

General Objectives of the study includes:

- Determination of LD50 value of nanoparticles on Swiss albino mice/Wister rat.
- Determination oxidative stress by estimating the reactive oxygen species such as Superoxide dismutase (SOD), Glutathione peroxidase (GPX) and Catalase (CAT) in the Blood.
- To study the effect of reactive oxygen species on DNA (DNA Damage assay).
- To study the changes in cell population and serum biochemistry.
- To study the pathological changes in brain, liver, Spleen, Kidney, Testis etc.

Post Doctoral students: 04

Ph.D. Students: 23 (Thesis Awarded: 18; Currently Working: 06)

M. Phil / M.Tech. Thesis: 05

EXPERIENCE:

a) Teaching (25Years) : Undergraduate Classes (B.Sc.) 25 Years.
Postgraduate Classes (M.Sc.) 25 Years

Subjects Teaching : Zoology, Microbiology and Biotechnology.

b) Research:

- Worked as **Junior Research Fellow (JRF)** in UGC sponsored project entitled “Toxicity evaluation of some pesticides on Pisciculture”, from Oct. 1987 - Sept. 1989.
- Worked as **Senior Research Fellow (SRF)** in UGC sponsored project entitled “Toxicity evaluation of some pesticides on Pisciculture”, from Oct. 1989 to May 1992.
- Worked as **Research Associate** in ICMR sponsored project entitled Assessment of Pesticide residue levels in pregnant women and its sources of Jaipur District. From June 1993 to May 1996.

c) Project Completed:

1. Screening of Pathogenic Bacteria from Dairy Industry for Better Sanitizer. **DST**, Govt. of Rajasthan, Jaipur.
2. Investigation of Radiomodulatory and Antioxidant Potential of Indian Medicinal Plant, *Alstonia scholaris* against Ionizing Radiation". (Co-Investigator) **DAE/BRNS**, Mumbai. (3 Years)
3. Acute Toxicity Study of Silver (Ag) Nanoparticles on Swiss Albino Mice, **DST**, Govt. of Rajasthan, Jaipur, 116/2010-11.
4. Toxicological evaluation of silver nanoparticles in Swiss albino mice. Principal Investigator **UGC**, 40-410/2011 (2011- 2014) 3.5 Years

d) Book Published:

A book entitled "**Practicals in microbiology and biotechnology**" for B.Sc. and M.Sc. students.

e) Book Chapter published:

Shabori Bhattacharya, Lalita Ledwani, and **P. J. John (2015)** Asbestos, the Carcinogen and Its Bioremediation in Book "Research Methodology in Chemical Sciences Experimental and Theoretical Approach" ISBN: 9781771881272

AWARDS:

- **Global Senior Scholar Exchange Program (GSSEP) Award 2020** from Society of Toxicology (SOT), USA.
- **Fellow, Society of Toxicology, (FST)** Society of Toxicology, India, **2008**.
- **International Travel Award** to attend 5th International symposium on Hormonal Carcinogenesis, held at **Montpellier, France** from 10-13 September 2006.
- **DAAD Fellowship**, German Academic Exchange Service, Bonn, Germany. **2005-2006**.
- **Fellow of the year (F.A.E.B.)** Academy of Environmental Biology, Lucknow, India, **1999**.
- "**BPA (Best Presentation Award)**" from the Academy of Environmental Biology, Lucknow, India, **1994**.

TRAINING/WORKSHOP/REFREHER COURSE ATTENDED:

1. XXXXI Orientation Programme for University and College Teachers, Academic Staff College, University of Rajasthan, **Jaipur. 16th May 1999 - 11th June, 1999**.
2. Refresher Course in Recent Trends in Zoology, Organized by Department of Zoology, Academic Staff College, University of Rajasthan, **Jaipur. 29th April to 18th May 2002**.
3. 15 days working knowledge about insect rearing, and bioassay of toxin from *Bacillus thuringiensis* and plant lectins against the pests of cotton, legume, sorghum and evaluation of wild relatives of chickpea for resistance to pest at International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, **Andhra Pradesh India**.
4. Research training in Molecular Biology (Gene Cloning and Protein expression) from Section Plant Developmental Biology, Technical University Munich, Germany, under the guidance of Prof. Kay Schneitz. TUM, **Munich, Germany. 1st Dec 2005- 31st Jan. 2006**.
5. Refresher Course in Advances in Biophysics organized by NASI, INSA and IAS at CCMB, **Hyderabad, AP. 25th May 2007 to 8th June, 2007**.
6. **Refresher Course** on Animal cell culture organized by NASI, INSA and IAS at Rajiv Gandhi Institute of IT & Biotechnology, **Pune. 11th May 2009 - 23rd May, 2009**.

7. Attended Training Programme on Vigyan Sabdawale Prayog Evam Mahatva organized by Commission for Scientific and Technical Terminology, S.S.V. College Hapur, December 15-16, 2014.
8. Participated in Training Programme for CPCSEA Nominees from 03.10.2016 to 07.10.2016 at National Institute of Animal Welfare (NIAW), Ministry of Environment, Forests and Climate Change, Govt. of India, Ballabgarh, Faridabad (Haryana).
9. 21st Indo US Flow Cytometry workshop and symposia on “Applications of Flow Cytometry in Biomedical Research” held at Punjab University, Chandigarh from 2-5 February, 2020.

MEMBERSHIP OF LEARNED SOCIETIES/ EDITORIALSHIP OF JOURNALS:

- Life Member, Nature Conservators, India.
- Life Member, Academy of Environmental Biology, India.
- Life Member, Society of Toxicology, India.
- Life Member, Association of Microbiologists of India.
- Life member, Indian Science Congress Association, India.
- Life member, Soft Materials Research Society, India
- Life Member, Healthcare & Biological Science research Association (HBSRA)
- Life Member, World Association for Scientific Research and Technical Innovation (WASRTI)
- Life member, Indian Society for the Study of Reproduction and Fertility (ISSRF), India.
- Reviewer, Springer Journals, Elsevier Journals.

PERSONAL DETAILS:

Father's Name : Late Mr. P.Y. Joseph
 Nationality : Indian
 Marital status : Married
 Language known : English, Hindi & Malayalam

LIST OF PUBLICATIONS:..

Google Scholar Citations: 1464

h-index: 18

i10-index: 23

1. Manoj Kumar, Tanuja Kumari, Jyoti Joshi, Sunil Chhimpa, **P.J. John**, Raj Rajeshwar Malinda and Bidya S. Joshi (2020): Sn-donor Triazine-3(2h)-thione chelating ligand and transition metal complexes: syntheses, characterization, in vitro antibacterial evaluation and electrochemical behaviour. Rasayan J. Chem., 13(3), 1653-1661. <http://dx.doi.org/10.31788/RJC.2020.1335846>. **(IF:1.220)**.
2. Manoj Kumar, Tanuja Kumari, Jyoti Joshi, Sunil Chhimpa, **P.J. John**, Bidya S. Joshi (2020): Cu(II), Zn(II), Cd(II), La(III), AND Sn(IV) Complexes of Bidentate 3-triazinyl thio acetic acid: Syntheses, Characterization and their in vitro Antibacterial Evaluation. International Journal of Technical Research & Science. V (V); 26-34. <https://doi.org/10.30780/IJTRS.V05.I05.004>.

3. Naresh K. Nirmal, Kumud K. Awasthi, Placheril J. John (2020): Hepatotoxicity of graphene oxide in Wistar rats. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-020-09953-0>. (06 July 2020). **(IF:3.056)**.
4. A. Sharma, **P. J. John**, P. Bhatnagar (2019): Combination of fluoride and endosulfan induced teratogenicity and developmental toxicity in Swiss albino mice exposed during organogenesis. *Toxicology and industrial health* 35(9), 604-613. **(IF:1.635)**.
5. Beena Kanwar Shekhawat, Shabori Bhattacharya, Mohd Tanvir Qureshi & **P. J. John** (2019) Characterization and optimization of alkaline protease producing thermostable bacteria. *International Journal of Biosciences*. 14(5); 130-140.
6. N. Sharma, **P. J. John**, N. Meghwal, A. Owen, V. Mishra (2019): Effect of yoga therapy on patient with chronic musculoskeletal pain: a prospective randomized wait list-controlled trail. *Clinical Medicine* 19 (Suppl 3), 87.
7. NK Rajawat, I. Soni, F. Syed, R.Verma, **P. J. John**, R. Mathur (2019):Effect of β -cyfluthrin (synthetic pyrethroid) on learning, muscular coordination and oxidative stress in Swiss albino mice. *Toxicology and industrial health* 35 (5), 358-367. **(IF:1.635)**.
8. Savita Beniwal, Ashok Kumar, Sunil Chhimpaa, Jaya Rai, **P. J. John**, Yashpal Singh & Jyoti Sharma (2019) Synthesis and characterization of antimony (III) heteroleptic derivatives having oxygen, nitrogen and sulfur containing organic moieties with their antibacterial and antioxidant activities. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 194 (9), 879-886. DOI: 10.1080/10426507.2018.1528254. **(IF:0.674)**.
9. Beniwal S, Kumar Ashok, Chhimpaa S, **John PJ**, Singh Y, and Sharma J (2019): Syntheses, characterization, powder X-ray diffraction analysis and antibacterial and antioxidant activities of triphenylantimony(V) heteroleptic derivatives containing substituted oximes and morpholine dithiocarbamate. *Appl Organometal Chem*. e4712; 1-9. <https://doi.org/10.1002/aoc.4712> **(IF:2.452)**.
10. N. Sharma, **P. J. John**, CM Sharma (2018): Impact of yoga based intervention on chronic daily headache : Randomized single blind controlled trial. *Cephalalgia* 38, 99-99.
11. Bhagwendra Prakash, Suresh Kumr Sabal, Rajbala Verma, **PJ John**, Inderpal Soni (2018) Sodium Fluoride Induced Oxidative Stress And Histological Changes In Liver of Swiss Albino Mice And Amelioration by *Ocimum sanctum* Linn. *Asian Journal Of Pharmaceutical And Clinical Research*,11(9). Doi: [http:// dx.doi.org/10.22159/ajpcr.2018.v11i9.26840](http://dx.doi.org/10.22159/ajpcr.2018.v11i9.26840).
12. Farah Syed, Kumud K Awasthi, Lalit P Chandravanshi, Rajbala Verma, Neelu K Rajawat, Vinay K Khanna, **PJ John**, Inderpal Soni (2018): Bifenthrin-induced neurotoxicity in rats: involvement of oxidative stress. *Toxicology Research* 7 (1), 48-58 **(IF:1.969)**.
13. D Bhatt, K Vyas, S Singh, **PJ John**, I Soni (2018): Tartrazine induced neurobiochemical alterations in rat brain sub-regions. *Food and Chemical Toxicology* 113, 322-327. **(IF:3.8)**.
14. Krati Vyas, Diksha Bhatt, Inderpal Soni and **P.J. John** (2018): Iron oxide nanoparticle (ionp): chemical synthesis and neurotoxic studies in wistar rat. *International Journal of Zoology and Applied Biosciences*. 3 (1) 24-33. **(IF:0.916)**.
15. Naresh Kumar Nirmal, Kumud Kant Awasthi, **P. J. John** (2017): Effects of Nano-Graphene Oxide on Testis, Epididymis and Fertility of Wistar Rats. *Basic & Clinical Pharmacology & Toxicology*. 121 (3), 202-210. DOI: 10.1111/bcpt.12782 . **(IF:3.176)**.
16. Neha Sharma, Pradeep Bhatnagar, Sreemoyee Chatterjee, **P.J. John**, Inder Pal Soni (2017): Bio Nanotechnological Intervention: A Sustainable Alternative to Treat Dye Bearing Waste Waters. *Indian J. Pharm. Biol. Res.* 2017; 5(1):17-24.

17. Kanti Prakash Sharma, **P. J. John**, Pawas Goswami & Manish Soni (2017): Enzymatic synthesis of gallic acid from tannic acid with an inducible hydrolase of *Enterobacter* spp. *Biocatalysis and Biotransformation*, 35 (3), 177-184. DOI: 10.1080/10242422.2017.1306740.
18. Beniwal S, Chhimpa S, Gaur D, **John PJ**, Singh Y, and Sharma J (2017): Syntheses, characterization, antibacterial activity and molecular modelling of phenylantimony(III) heteroleptic derivatives containing substituted oximes and piperidine dithiocarbamate. *Appl Organometal Chem.* e3725; 1-9. <https://doi.org/10.1002/aoc.3725> (**IF:2.452**).
19. NK Nirmal, KK Awasthi and **PJ John** (2017): Effects of hydroxyl-functionalized multiwalled carbon nanotubes on sperm health and testes of Wistar rats. *Toxicology and Industrial Health*, 33 (6), 519-529. DOI: 10.1177/0748233716685661. (**IF:1.859**).
20. Vipin Yadav and **P. J. John** (2016): Production and characterization of a polyclonal antibody against *bur6* a subunit of nc2 complex involved in *candida albicans* drug resistances. *EJPMR*, 3(10), 157-162. (**IF:3.628**)
21. J. Vashistha, **P.J. John** and P.V. Paulose (2016): Water Quality Analysis of Lake Siliserh, India. *Int.J.Curr.Microbiol.App.Sci.* 5(10); 439-450.
22. Rajbala Verma, Kumud Kant Awasthi, Neelu Kanwar Rajawat, Inderpal Soni, **P.J. John** (2016): Curcumin modulates oxidative stress and genotoxicity induced by a type II fluorinated pyrethroid, beta-cyfluthrin. *Food and Chemical Toxicology* 97; 168- 176. (**IF:3.584**)
23. A. R. Agrawal, S. A. Karim, M. K. Tripathi, Rajiv Kumar, **P. J. John** (2016): Effect of feeding *Prosopis cineraria* leaves on methanogens, rumen fermentation, growth performance, blood biochemical constitute and nutrient utilization, in rumen content of Lambs and Kids. *Int. J. Biosci.* 9(2); 1-15. (**IF: 0.553**).
24. Ambica P. Jangid, V. P. S. Shekhawat, Hemant Pareek, D. Yadav, Praveen Sharma and **P. J. John** (2016): Effect of Lead on Human Blood Antioxidant Enzymes and Glutathione. *IJBCRR*, 13(1);1-9.
25. Sunil Chhimpa, Chandra Shekhar Yadav, **P. J. John** (2016): Isolation and identification of keratin degrading (keratinolytic) bacteria from poultry feather dumping sites. *J. Bio. Env. Sci.* 8 (6), 109-119. (**IF: 1.356**).
26. Shabori Bhattacharya, Lalita Ledwani, and **P. J. John** (2016): Siderophores, the answer for micro to nanosized asbestos fibre related health hazard. *AIP Conference Proceedings*, 1724, 020102; doi: 10.1063/1.4945222.
27. Shabori Bhattacharya, Lalita Ledwani, and **P. J. John** (2016): Asbestos, the Carcinogen and Its Bioremediation. *Research Methodology in Chemical Sciences- Experimental and Theoretical Approach*. Apple Academic Press Inc. Editors: Tanmoy Chakraborty, Lalita Ledwani. June, 2016; 231-250. ISBN: 9781771881272 (**Book Chapter**)
28. Shabori Bhattacharya, **P J John** and Lalitha Ledwani (2016): Fungal weathering of asbestos in semi arid regions of India. *Ecotoxicology and Environmental Safety*; 124, 186-192. (**IF: 2.76**)
29. Farah Syed, **PJ John**, Inderpal Soni (2016). Neurodevelopmental consequences of gestational and lactational exposure to pyrethroids in rats. *Environmental Toxicology* 31(12),1761-1770. DOI: 10.1002/tox.22178. (**IF: 3.19**).
30. Kumud Kant Awasthi, Anjali Awasthi, Rajbala Verma, Inderpal Soni, Kamalendra Awasthi, **P. J. John** (2015): Silver Nanoparticles and Carbon Nanotubes Induced DNA Damage in Mice Evaluated by Single Cell Gel Electrophoresis. *Macromol. Symp.* 2015, 357, 210–217.
31. KK Awasthi, R Verma, A Awasthi, K Awasthi, I Soni, **PJ John** (2015): In vivo genotoxic assessment of silver nanoparticles in liver cells of Swiss albino mice using comet assay. *Adv. Mater. Lett.*, 6(3), 187-193. (**IF:1.9**)

32. KK Awasthi, A Awasthi, R Verma, N Kumar, P Roy, K Awasthi, **PJ John** (2015): Cytotoxicity, genotoxicity and alteration of cellular antioxidant enzymes in silver nanoparticles exposed CHO cells. *RSC Advances* 5 (44), 34927-34935 (**IF:3.84**).
33. Shabori Bhattacharya, **P J John** and Lalitha Ledwani (2015): Bacterial weathering of asbestos. *Silicon* (2015) 7:419–431. (DOI) 10.1007/s12633-014-9260-9 (**IF:1.069**)
34. Vipin Yadav, Manish Soni, and **PJ John** (2014): Transcriptional Regulation of CDR1, a major efflux pump involved in multidrug resistance in *Candida albicans*. *Int.J.Curr.Microbiol.App.Sci.* 3(6) 399-407.
35. AR Agrawal, SA Karim, Rajiv Kumar, A. Sahoo and **PJ John** (2014): Sheep and goat production: basic differences, impact on climate and molecular tools for rumen microbiome study. *Int.J.Curr.Microbiol.App.Sci* 3(1): 684-706.
36. Ajit Kumar, Narain Bhoot, I.Soni, **PJ John** (2014): Isolation and characterization of a *Bacillus subtilis* strain that degrades endosulfan and endosulfan sulfate. *3 Biotech* 4:467-475. Doi: 10.1007/s 13205-013-0176-7.
37. S Chambial, S Dwivedi, KK Shukla, **PJ John**, P Sharma (2013): Vitamin C in Disease Prevention and Cure: An Overview. *Indian J Clin Biochem.* 28(4):314-328.
38. KK Awasthi, A Awasthi, N Kumar, P Roy, K Awasthi, **PJ John** (2013): Silver nanoparticle induced cytotoxicity, oxidative stress and DNA damage in CHO cells. *Journal of Nanoparticle Research* 15(9):1-12. doi: 10.1007/s11051-013-1898-5. (**IF:2.184**).
39. R Verma, KK Awasthi, I Soni, **PJ John** (2013): Evaluation of Cytogenetic Effects of β -Cyfluthrin in Swiss Albino Mice. *Int.J.Curr.Microbiol.App.Sci.*2 (6):30-40.
40. KK Awasthi, A Awasthi, Kamakshi, N Bhoot, **PJ John**, SK Sharma, K Awasthi (2013): Antimicrobial properties of electro-chemically stabilized organo-metallic thin films. *Advanced Electrochemistry.* 1:42-47 doi:10.1166/adel.2013.1013.
41. D Yadav, S Mishra, M Gupta, **PJ John** and P.Sharma (2013): Establishment of Reference Interval for Liver Specific Biochemical Parameters in Apparently Healthy North Indian Population. *Indian Journal of Clinical Biochemistry.* 28(1):30–37.
42. KK Awashi, **PJ John**, A Awashi, K Awashi (2013): Multi walled carbon nano tubes induced hepatotoxicity in Swiss albino mice. *Micron* 44:369-364. (**IF:1.988**).
43. Nidhi Jain, **PJ John**, KP Sharma and I Soni (2013): Isolation and identification of acrylamide degrading bacteria from soil. *International Journal of Applied Biology and Pharmaceutical Technology.* 4 (1):179-187. (**IF:0.996**).
44. AP Jangid, **PJ John**, D Yadav, S Mishra, M Gupta, P Sharma (2012) Elevated blood lead levels despite discontinuation of leaded petrol. *Ind J Physiol Pharmacol.* 56 (2):184-185.
45. M Soni, KP Sharma, S Kaushik, **PJ John** (2012): Purification and Characterization of gallic acid decarboxylase from *Enterobacter* spp. isolated from a region in Rajasthan, India. *International Journal of Biosciences (IJB)*, 2(12):97-104. (**IF: 0.553**).
46. A Kumar, **PJ John**, I Soni (2012): Enrichment and isolation of endosulfan degrading microorganism from natural resource. *J.Bio. & Env. Sci.* 2 (6), 41-53. (**IF:1.356**).
47. M Soni, KP Sharma and **PJ John** (2012): Characterization of Pyrogallol Production from Gallic acid by *Enterobacter* spp. *J. Microbiol. Biotech. Res.*, 2 (2):327-336.
48. AP Jangid, **PJ John**, D Yadav, S Mishra, P Sharma (2011): Impact of Chronic Lead Exposure on Selected Biological Markers. *Ind J Clin Biochem.* 27(1):83-89.
49. KP Sharma, **PJ John** (2011): Purification and Characterization of tannase and tannase gene from *Enterobacter* sp. *Process Biochemistry.* 46:240-244. (**IF: 2.516**).
50. F Syed, I Soni, **PJ John** and P Bhatnagar (2010): Evaluation of teratogenic potential of cyfluthrin, a synthetic Pyrethroid in Swiss albino mice. *Toxicology and Industrial Health.* 26(2):105-11. (**IF:1.859**).

51. F Syed, I Soni, **PJ John** and P Bhatnagar (2009): Embryotoxic and teratogenic evaluation of cyfluthrin in Swiss albino mice. *Toxicol. Int.* 16 (2):121-126.
52. V Mathur, **PJ John**, I Soni, P Bhatnagar (2008): Blood Levels of Organochlorine Pesticide Residues and Risk of Reproductive Tract Cancer among Women from Jaipur, India. *Adv. Exp. Med. Biol.* 617:387-394. **(IF: 2.21)**.
53. **PJ John**, N Sharma, SC Sharma, Aravind (2007): Effectiveness of holistic approach of Yoga therapy on migraine patients in randomized controlled trial: A pilot study. *Headache*; 47:654-661. **(IF: 3.189)**.
54. **PJ John** (2006): Alterations of certain blood parameters of freshwater teleost *Mystus vittatus* after chronic exposure to metasystox and sevin. *Fish Physiology and Biochemistry*.33:15-20. **(IF:1.622)**.
55. A Kumar, A Baroth, I Soni, P Bhatnagar **PJ John** (2006): Organochlorine pesticide residues in milk and blood samples from lactating women belonging to different strata of society, Anupgarh, Rajasthan, India. *Environmental Monitoring and Assessment*, 116:1-7. **(IF: 1.679)**.
56. N Bakore, **PJ John**, P Bhatnagar (2004): Organochlorine pesticide residues in wheat and drinking water samples from Jaipur, Rajasthan. *Environmental Monitoring and Assessment*, 98:381-389. **(IF: 1.679)**.
57. **PJ John**, A Prakash (2003): Bioaccumulation of pesticides on some organs of freshwater catfish *Mystus vittatus*. *Bulletin Environ. Contam. and Toxicol* 705:1013-1016. **(IF: 1.255)**.
58. A Baroth, I Soni, **PJ John**, P Bhatnagar and PP Bakre (2002): Assessment of organochlorine pesticides and its source in Keoladeo National Park, Bharatpur. *J. Ecophysiol. Occup. Hlth.* 2:291-297
59. **PJ John**, Rekha Meena (2002): Acute Toxicity of Household Detergents to Freshwater fish *Tilapia mossambica*. *Indian J. Toxicol.* 9 (2):69-75
60. N Bakore, **PJ John**, P Bhatnagar (2002): Evaluation of organochlorine insecticide residue levels in locally marketed vegetables of Jaipur city. *J. of Environ. Biology*, 23 (3):247-252. **(IF: 0.563)**.
61. **PJ John**, N Bakore, P Bhatnagar (2001): Assessment of organochlorine pesticide residue levels in dairy milk and buffalo milk from Jaipur City, Rajasthan, India. *Environment International*. 26:231-236. **(IF: 5.559)**.
62. **PJ John**, A Prakash (1998): Acute toxicity of Metasystox and Sevin to *Mystus vittatus*. *J. Ecotoxicol. Environ. Monit.* 8(3):169-177
63. **PJ John**, R Saxena, A. Prakash (1990): Comparative Acute Toxicity of Metasystox to *Heteropneustes fossilis* and *Ophiocephalus striatus*. *Nat. Acad. Sci. Letters.* 13 (11):427-430. **(IF: 0.292)**.
64. A Prakash, **PJ John**, VS Rathore, R Saxena, Rekha (1989): Impact Assessment of Pesticides in Fish - A review. *Proc. Symp. Environ. Prot.* 115-131
65. VS Rathore, R Saxena, **PJ John**, Rekha (1989): Acute toxicity of Textile dyes on *Channa punctatus*. *J. Natcon.* 1(2) :155-157
66. **PJ John**, VS Rathore. A Prakash (1989): Metasystox generated Haematological Anomalies in *Heteropneustes fossilis*. *Proc. Symp. Nat. Dev. and Natu. Res. Con.* 160-165

GENE SEQUENCE SUBMITTED:

1. **John,P.**, Sharma,K. and Goswami,P.: GQ438735: Enterobacter sp. KPJ03,16S ribosomal RNA gene, partial sequence.NCBI GenBank; 08. Sept.2009.
2. Sharma,K.P., Paul,A., Goswami,P., **John,P. J.**, Kumar,S. and Ahuja,P.S.GQ268323: Enterobacter sp. KPJ03 tannase gene, partial cds.NCBI GenBank; 18-July,2009.
3. Ajit, K, **Placheril, J. J.** and Inderpal, S.: EU258611; 1396bp DNA, *Bacillus subtilis* strain AKPJ04; NCBI GenBank; 21-Nov-2007.

RESEARCH SUPERVISION:

Ph.D. Thesis Awarded:

1. **Ajit Kumar:** Bioremediation of Endosulfan (Organochlorine pesticide) by Natural Isolates-A Biotechnological Approach. University of Rajasthan, Jaipur, India. **Awarded in 2007.**
2. **Neha Sharma:** Biochemical and Autonomic Anomalies in Migraine Patients and Role of Yoga in its Management. University of Rajasthan, Jaipur, India. **Awarded in 2008.**
3. **Anju Sharma:** Teratogenic study of Fluoride and Endosulfan in Swiss albino mice. University of Rajasthan, Jaipur, India. **Awarded in 2009.**
4. **Kanti Prakash Sharma:** Isolation, Purification and Characterization of Tannase and Tannase gene from Natural Isolates. University of Rajasthan, Jaipur, India. **Awarded in 2010.**
5. **Vimal Mohan:** Studies on Plant Growth Promoting Rhizobacteria and Nitrogen Fixation in *Cyamopsis tetragonoloba* (L.) Taub. University of Rajasthan, Jaipur, India. **Awarded in 2011.**
6. **Ambica Prasad Jangid:** Blood Lead Levels in Jaipur Population in Relation with Antioxidant Enzymes and Nutrients. **Awarded in 2011.**
7. **Balvant Singh Khajja:** Evaluation of Hypoglycemic, Hypolipidemic and Antioxidant efficacies of *Moringa oleifera* Lam. And *Enicostemma hyssopifolium* Wild. Extract. University of Rajasthan, Jaipur, India. **Awarded in 2012.**
8. **Narain Bhoot:** Isolation and purification of Enzyme system form *Bacillus subtilis* for Endosulfan degradation. **Awarded in 2014.**
9. **Kumud Kant Awasthi:** Xenobiotic action of Nano-particles on Swiss albino mice. **Awarded in 2014.**
10. **Manish Soni:** Isolation and Characterization of Gallic acid decarboxylase from natural Isolates. **Awarded in 2015**
11. **Nidhi Jain:** Isolation and identification of acrylamide degrading bacteria from soil. (**Awarded in 2015**).
12. **Shabori Bhattacharya:** Biotransformation of Asbestos using microbial Isolates. (**Awarded in 2016**)
13. **Abhishek Agrawal:** Molecular profiling of rumen methanogens of sheep and goats reared on different feeding systems in semiarid region. (**Awarded in 2017**)
14. **Sunil Chhimpa:** Isolation, Purification and Characterization of Feather Degrading Microbial Enzyme from Poultry Waste. (**Awarded in 2017**).
15. **Naresh Kumar Nirmal:** Evaluation of testicular toxicity of Carbon nanomaterials in Wister rats. (**Awarded in 2017**)
16. **Vipin Yadav:** Regulation of multidrug resistance in human pathogenic fungi *Candida albicans*. (**Awarded in 2018**)
17. **Krati Vyas:** Evaluation of Neurotoxic potential of Iron Oxide Nanoparticles in Wistar Rat (*Rattus norvegicus*) (**Awarded in 2019**)
18. **Beena Kanwar Shekhawat:** Alkaline protease producing microorganisms from Semi-arid zone of Rajasthan (**Awarded in 2020**)

M.Phil Thesis Awarded

1. **Pankaj Kunar Jain:** Evaluation of Sodium Arsenite Toxicity with reference to Male Gonads of Albino Rats. Vinayaka Missions University, Salem Tamil Nadu, India. (**2008**).

M.Tech. Thesis Awarded:

1. **Vinay Sharma:** Evaluation of hepatotoxicity and oxidative stress induced by multi walled carbon nanotubes in Swiss albino mice (**2012**).

2. **Archana Dular:** Computational prediction of functional amino acid mutations in red blood cell disorders (2012).
3. **Shilpi:** Predict the role of hydrophobic and hydrophilic nature of amino acids by performing in-silico method (2012).
4. **Durgar Shanker Meena:** Intracellular protein profiling of *Bacillus subtilis* grown in endosulfan containing carbon deficient medium (CDM) (2013).
5. **Aastha Saraf:** Isolation and identification of tannase producing bacteria from soil (2014).

Doctoral dissertations under progress:

1. **Gaurav Sharma:** Drug resistance profile of Mycobacterium tuberculosis isolates from children attending tertiary care centre at Jaipur (Reg. 2015).
2. **Hemant:** Silica nanoparticles induced biochemical and histological changes in kidney of *Rattus norvegicus* (Reg. 2017) UGC-JRF.
3. **Sonam Yadav:** Evaluation of Neurotoxic Potential of Silica Nanoparticles in Wistar Rat (*Rattus Norvegicus*) (Reg. 2017).
4. **Gajraj Singh Varma:** Teacher Fellow
5. **Reguraj Singh Singodia:** Teacher Fellow admitted
6. **Navneet Kumar:** MPAT-18 Admitted.

Post-doctoral students:

1. **Dr. Sangeeta Chatterjee:** Molecular mechanisms of translation regulation of the Heme -Regulated Eukaryotic Initiation Factor 2a Kinase (EIF2AKI)- **DBT_Biocare 2012-2014**
2. **Dr. Chandra Shekhar Yadav:** A toxicogenomic approach to assess risk factors involved in pancreatic and biliary diseases. **UGC- Dr. D.S. Kothari Post-Doctoral Fellow 2014-2017**
3. **Dr. Hemlata Verma:** Structural changes and oxidative stress induced by silicon nanoparticles (SiO₂-NPs) on some organs of *Channa punctatus* (Bloch). **Department of Science and Technology (DST), New Delhi, 2017-2020.**
4. **Dr. Shabori Bhattacharya:** Cloning and stimulation of FUR genes to enhance production of arid and semiarid bacterial siderophores for commercial applications. **Department of Science and Technology (DST), New Delhi, 2018-2021.**

CONFERENCE / REFRESHER COURSE ORGANIZED:

- Refresher Course in Life Sciences (Interdisciplinary), February 24th to 07th March, 2020, organized by UGC-HRDC and Department of Zoology, University of Rajasthan, Jaipur.
- Refresher Course in Life Sciences: Challenges in New Millennium, Nov. 27 to Dec. 16, 2017, organized by UGC-HRDC and Department of Zoology, University of Rajasthan, Jaipur.
- National Conference on Herbal Medicine: Current Strategies & Future Prospects (NCHM-2015) organized by Department of Zoology, University of Rajasthan, Jaipur (Raj.), Dec. 22-24, 2015.
- National Seminar on “Science for shaping the future of India”, organized by Centre for Converging Technology, University of Rajasthan, Jaipur, India. Oct. 6-7, 2012.
- International Conference on Multidisciplinary Approaches on Diabetes Research & Health” (ICMADRH) organized by Department of Zoology, University of Rajasthan, Jaipur (Raj.), Nov. 14-16, 2010.

INVITED TALKS/SESSIONS CHAIRED IN CONFERENCE/SEMINAR/SYMPOSIA

- National Symposium on “Latest Innovations in Science & Technology” organized by Department of Science, St. Wilfred’s College for Girls, Jaipur (March 1, 2019). (Invited Speaker).
- National Seminar on “Recent Trends and Developments in Microbiology” organized by C. U. Shah Institute of Life Sciences, CU Shah University, Wadhwan City, Surendranagr, Gujarat (October 5, 2018). (Invited Speaker).
- National Workshop on “Fold Scope Microscopy” Organized at Vivekanda Global University (VGU) Jaipur. (October 29, 2018). (Invited Speaker).
- National seminar on “Recent Advances in Bio-Sciences” & Annual General Meeting of Zoological Society of Assam organized by Department of Zoology, Pragjyotish College, Guwahati (September 21-22, 2018). (Keynote Speaker and Chairperson).
- Seminar on Biodiversity, Bioprospecting and Environmental Awareness at Kanoria PG Mahila Mahavidyalaya, Jaipur (December 22, 2016). (Chaired Session).
- Innovation in Science Pursuit for Inspired Research (INSPIRE-2016) at the Center for Development of Physics Education (CDPE), University of Rajasthan, Jaipur (September 7-11, 2016). (Invited Speaker).
- National Conference on Herbal Medicine: Current Strategies & Future Prospects (NCHM-2015) organized by Department of Zoology, University of Rajasthan, Jaipur (Raj.), Dec. 22-24, 2015. (Chaired session)
- Innovation in Science Pursuit for Inspired Research (INSPIRE-2015) at the Center for Development of Physics Education (CDPE), University of Rajasthan, Jaipur (October 3-7, 2015). (Invited Speaker).

CONFERENCE/SEMINAR/SYMPOSIA ATTENDED:

International:

1. International Conference on ‘ENVIRONMENT AND AGRICULTURE’ held at **Kathmandu, Nepal** (1-3, Nov. 1998).
2. 5th International symposium on Hormonal Carcinogenesis, held at **Montpellier, France** from 10-13 September 2006.
3. The 12th Biological Sciences Graduate Congress 2007: 17-19 December, 2007, held at Institute of Biological Sciences, Faculty of Science, **University of Malaya, Kuala Lumpur, Malaysia**.
4. International Conference on “Free Radicals & Natural products in Health” (FRNPH-2008) and ‘Seventh Annual Meeting of the Society of Free Radical research-India’ held at Centre for Advanced Studies, Department of Zoology, **University of Rajasthan, Jaipur**.
5. International Symposium on “Monitoring and Modulation Global Resources of Environmental and Food Contaminants: Nature versus Chemicals” and 28th Annual Conference of Society of Toxicology (STOX), India: 16-18, October, 2008, held at Department of Pharmacology & Toxicology, College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University, **Ludhiana, India**.
6. International Conference on Radiation Biology & Translational Research in Radiation Oncology and 9th Biennial Meeting of Indian Society for Radiation Biology (ISRB): 10-12 November, 2008, held at Department of Zoology, **University of Rajasthan, Jaipur**.
7. International Conference on Reproductive Health: Centre for Advanced Studies in Zoology, University of **Rajasthan, Jaipur**. (Feb. 8-10, 2010).
8. 6th Biyani’s International Conference 2011 BICON-11, Innovations in the latest healthcare issues. Biyani Group’s of colleges **Jaipur**. Sept.19-21, 2011.
9. International Conference on microbial Biology for sustainable development. Panjab University, **Chandigarh**. Nov. 3-6, 2011.
10. XXXI Annual Conference of STOX. The IIS University, **Jaipur**, December 22-24, 2011.

11. 53rd Annual Meeting of Society of Toxicology at the Phoenix Convention Center in **Phoenix, Arizona, USA**, March 24–27, 2014.

National: (Since 2000)

1. Symposium on ‘Eco-physiological consequences of environmental pollution’ held at N.D.A.U. Faizabad (U.P), 7th Nov. to 9th Nov. 2000.
2. MICROBIOTECH 2000. 41st Annual Conference of Association of Microbiologists of India. November 25-27, 2000. BISR, Jaipur.
3. XX Annual conference of The Society of Toxicology, India, and National Symposium on Regulatory Toxicology Testing, held at Jai research Foundation (JRF), Vapi, Gujarat. (2nd & December3, 2001).
4. National Symposium on Advances in Microbial and Industrial Biotechnology- Prospects and Problems, held at the Dept. of Botany, University of Rajasthan, Jaipur. (March 15-16, 2002).
5. 22nd Annual Session of The Academy of Environmental Biology and National Symposium on Biodiversity and Resource Management, held at National Bureau of Fish Genetic Resources, Lucknow. (Sept. 11-13, 2002).
6. 43rd Annual conference of Association of Microbiologists of India and Symposium on Microbes and Environment, held at CCS Haryana Agricultural University, Hisar. (Dec. 11-13, 2002).
7. 23rd Annual Session of The Academy of Environmental Biology and National Symposium on RECENT TRENDS IN BIOLOGY, held at Department of Zoology, Shivaji University, Kolhapur (Oct. 09-11, 2003).
8. 24th Annual Session of The Academy of Environmental Biology and National Symposium on Biodiversity, Biotechnology and Environmental Toxicology in the New Millennium, held at Department of Zoology, Institute of Sciences, Mumbai (Nov. 22-24, 2004).
9. 74th Annual Session of the Academy of Sciences, India and National Symposium on Science and technology for Desert Development, held under the joint auspices of the University of Rajasthan, Jaipur and the Birla Institute of Scientific Research, Jaipur (Dec.2-4, 2004).
10. 25th Annual Session of The Academy of Environmental Biology and National Symposium on Recent Trends in Environmental Biology and Biotechnological Approach to Conserve Biodiversity, held at Department of Zoology, Gulbarga University, Gulbarga, Karnataka. (Oct. 22nd – 24th, 2005).
11. National Conference on Environment and Natural Disaster management, held in the Department of Zoology, University of Rajasthan, Jaipur. (Nov. 28-30, 2005).
12. National Symposium on AIDS-Awareness and Prevention Strategies, Centre for Advanced Studies, Department of Zoology, University of Rajasthan, Jaipur. (Dec. 1, 2006).
13. National Symposium on Cancer: Diagnosis, Awareness & Treatment, Centre for Advanced Studies, Department of Zoology, University of Rajasthan, Jaipur. (Feb. 24, 2007).
14. National Seminar on Frontiers of Biosciences-2008: 10-11 January, 2008, held at Gyan Vihar School of PG Studies, Jaipur.
15. National Seminar of Review of Zoology Syllabi: Retrospective and Prospective Analysis: 1-2 February, 2008, Held at Centre for Advanced Studies, Department of Zoology, University of Rajasthan, Jaipur.
16. National Seminar on Health Impact of Radiation: Current Status & Future prospects: 9th February, 2008, held at Department of Zoology, University of Rajasthan, Jaipur.
17. National Symposium on “Contemporary Environmental Problems and Biotechnological Applications in Their Management”: 7-8 March, 2008, held at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.
18. National Conference on Fluoride, Fluorosis and Mitigation: University Maharani’s College, Jaipur (Feb. 24-26, 2010).
19. National conference on AIDS: Current scenario and future challenges. University of Rajasthan, Jaipur (Dec. 1-3 2011).

20. 32nd Session of The Academy of Environmental Biology and National symposium on “Emerging pollutants and pathogens: Challenges and Risk reduction, organized by CSIR-Indian Institute of Toxicology Research (IITR), Lucknow (Sept. 20-22, 2012).
21. National Seminar on “Science for shaping the future of India”, organized by Centre for Converging Technology, University of Rajasthan, Jaipur (Oct. 6-7, 2012).
22. National Conference on Use of Animals and Alternatives in Biomedical Research with Emphasis on Drug Development, organized by Department of Zoology, University of Rajasthan, Jaipur (Dec. 14-16, 2012).
23. All India seminar on Pollution Prevention Through Development of Bio Based Material and Energy organized by the Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur (February 22-23, 2013).
24. National Symposium on Green Economy & Harnessing Natural Products for Sustainable Development, Jaipur (July 12, 2014).
25. National seminar on Reproductive health Awareness conference organized by Department of Zoology, The IIS University, Jaipur (September 12-13, 2014).
26. Symposium on AIDS: Awareness, Prevention & Challenges organized by Department of Zoology, University of Rajasthan, Jaipur (December 1, 2014).
27. National Conference on Herbal Medicine: Current Strategies & Future Prospects (NCHM-2015) organized by Department of Zoology, University of Rajasthan, Jaipur (Raj.) (Dec. 22-24, 2015).
28. National Conference on Environmental Challenges, Human Health and Society, organized by International Society for Life Sciences (ISLS), Jaipur (September 8-10, 2016).
29. National Vet-Medico CME on Influenza Preparedness & Control organized jointly by Amity University, Jaipur and SMS Medical College, Jaipur (April 6-7, 2017).
30. National seminar on “Recent Advances in Bio-Sciences” & Annual General Meeting of Zoological Society of Assam organized by Department of Zoology, Pragjyotish College, Guwahati (September 21-22, 2018).
31. National Seminar on “Recent Trends and Developments in Microbiology” organized by C. U. Shah Institute of Life Sciences, CU Shah University, Wadhwan City, Surendranagr, Gujarat (October 5, 2018).

(Dr. P. J. John)