

# **CURRICULUM VITAE OF PROF. P. J. JOHN**



## **Prof. P. J. John**

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Shantinagar, Gurjar Ki Thadi, Jaipur-302019  
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## **PRESENT STATUS AND OFFICIAL ADDRESS**

**Professor (19<sup>th</sup> May 2012 to till date)**  
**Centre for Advanced Studies, Department of Zoology**  
**Hony. Director, P.G. School of Life Science**  
**Director, Centre for Converging Technologies (CCT)**  
**University of Rajasthan, Jaipur-302004**  
**Rajasthan, India. (Ph. 0141-2711158)**  
E-mail: [placheriljohn@uniraj.ac.in](mailto:placheriljohn@uniraj.ac.in). [placheriljohn@gmail.com](mailto:placheriljohn@gmail.com).

## **ADDITIONAL ACADEMIC/ADMINISTRATIVE POSITIONS**

Chief-Coordinator, E-YUVA (University Innovation Cluster – Biotechnology), UOR, Jaipur  
Coordinator, Entrepreneur and Career Hub (ECH) Incubation Centre, UOR, Jaipur.  
Coordinator, Design Innovation Cluster (DIC), Centre for Converging Technologies, UOR, Jaipur.  
Convener, Board of Studies (Zoology), University of Rajasthan, Jaipur.  
Convener, COC in Microbiology, UOR, Jaipur.  
Co-coordinator- MHRD's Innovation Cell, UOR, Jaipur.

## **POSITIONS HELD**

Head, Department of Zoology (19.02.2019- 18.02.2022)  
Coordinator, PG Courses in Microbiology, UOR, Jaipur (19.02.2019- 18.02.2022)  
Additional Director- Cognitive and Neurosciences, CCT, UOR, Jaipur (August 2021-January-2023).  
**Member, Finance Committee, University of Rajasthan, Jaipur (2020-2022).**  
Co-Convener, Committee for creation and centre allotment for the exam, 2021, 2022, UOR, Jaipur  
Director -Administrative Services Pre-Training Centre, UOR, Jaipur (19.07.2018 to 18.07.2019).  
Dy. Chief-Coordinator, Uni. Innovation Cluster in Biotechnology, UOR, Jaipur. (15.07 2018- 14.06 2022)  
Joint Director, Cognitive and Neurosciences, CCT, UOR, Jaipur from July 2017 to July, 2021.  
Coordinator- Life Sciences, CCT, UOR, Jaipur from Nov.2011-June 2017.  
Head, Department of Zoology, University Maharajas College, Jaipur (13.03.2015-12.03.2017).  
Proctor, University Maharajas College, Jaipur (2012-2014).

Associate Professor, (19<sup>th</sup> May, 2006 to 18<sup>th</sup> May 2012)  
Assistant Professor: From 8<sup>th</sup> August, 1996 to 18<sup>th</sup> May, 2006.  
Research Associate: From June 1993 to May, 1996.

### **PRESENT ADMINISTRATIVE ASSIGNMENTS IN THE UNIVERSITY**

- Member, Library Committee, University of Rajasthan, Jaipur.
- Member, Book purchase Committee, Central Library, UOR, Jaipur
- Member, Committee to consider the medical reimbursement cases of University pensioners, UOR, Jaipur.
- Member, Committee for granting recognition /renewal of A.M. A's for treatment of University employees. UOR, Jaipur.
- Member, Study Leave Committee, University of Rajasthan, Jaipur.
- Convener, Committee for creation and centre allotment for the exam, 2023, UOR, Jaipur
- Member, Joint Prospectus Committee, 2021-2022, UOR, Jaipur
- Member, MSR and Minor Works Committee, UOR, Jaipur.
- Member, Technical Committee Rate Contract for supply of chemical, glass ware, Lab. Equipment etc., UOR, Jaipur.
- Member, Project Monitoring Unit (PMU) Committee for RUSA 1.0 & 2.0 Programme, UOR, Jaipur.
- Member, Steering Committee, Design Innovation Centre (DIC) at CCT, UOR, Jaipur.
- Member, Committee to redress and monitor the grievances/ concerns of the students during COVID-19 pandemic, UOR, Jaipur.
- Member, Local Fund Utilization Advisory Committee, University Rajasthan College, Jaipur
- Convener, Academic Journal Expert Committee, UOR, Jaipur

### **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

### **PERSONAL DETAILS**

- Father's Name : Mr. P. Y. Joseph
- Mother's Name : Mrs. Alyamma Joseph
- Place of Birth : Ernakulam Dist., Kerala State
- Nationality : Indian
- PAN No. : ABPPJ4576N
- Aadhaar No : 739081717749
- Passport No : V5473135; Date of Expiry: 28/12.2031

### **CURRENT RESEARCH ACTIVITIES**

1. **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 metals, Pesticides and Nano-particles on Fish, Swiss albino mice and Wistar rats**

### **General Objectives of the study includes:**

- Determination of LD50 value of nanoparticles on Fish, 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.

### **EXPERIENCE:**

a) **Teaching** (28Years) : Undergraduate Classes (B.Sc.) 28 Years.  
Postgraduate Classes (M.Sc.) 26 Years

**Subjects Taught/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) Projects Completed/Ongoing:**

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.
5. **" Providing low-cost solution and appropriate management framework for the reject disposal of Community-based RO Plants in many areas of Rajasthan ". DST -New Delhi. (2022-2025)**

### **e) Book Published:**

A book entitled “**Practicals in microbiology and biotechnology**” for B.Sc. and M.Sc. students. 2003, CBH Publishers Jaipur

### **f) 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 AND FELLOWSHIPS:**

- **ARCHANA AWARD-2022** from Academy Environmental Biology, Lucknow, India
- **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 5<sup>th</sup> 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.)** of Academy Environmental Biology, Lucknow, India, **1999.**
- **“BPA (Best Presentation Award)”** from the Academy of Environmental Biology, Lucknow, India, **1994.**

### **TRAININGS/WORKSHOPS/REFREHER COURSES ATTENDED:**

1. XXXXI Orientation Programme for University and College Teachers, Academic Staff College, University of Rajasthan, **Jaipur. 16<sup>th</sup> May 1999 - 11<sup>th</sup> June, 1999.**
2. Refresher Course in Recent Trends in Zoology, Organized by Department of Zoology, Academic Staff College, University of Rajasthan, **Jaipur. 29<sup>th</sup> April to 18<sup>th</sup> 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. 1<sup>st</sup> Dec 2005- 31<sup>st</sup> Jan. 2006.**
5. Refresher Course in Advances in Biophysics organized by NASI, INSA and IAS at CCMB, **Hyderabad, AP. 25<sup>th</sup> May 2007 to 8<sup>th</sup> June, 2007.**
6. **Refresher Course** on Animal cell culture organized by NASI, INSA and IAS at Rajiv Gandhi Institute of IT & Biotechnology, **Pune. 11<sup>th</sup> May 2009 - 23<sup>rd</sup> 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. 21<sup>st</sup> 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.
10. Research training in Animal Tissue Culture and Western Blotting at **University of Louisville, Kentucky, USA** under the guidance of Prof. J. Christopher States. **1<sup>st</sup> to 30<sup>th</sup> April 2022.**

### **MEMBER OF THE GOVERNING/ ACADEMIC BODIES**

- Senate, University of Rajasthan, Jaipur (from 2019-
- Academic Council, University of Rajasthan, Jaipur (2019-)
- Research Board, University of Rajasthan, Jaipur (2020-)
- **Special Committee of the School of Environmental Sciences, JNU, New Delhi (2023-2025)**

- Research Board, IIS University, Jaipur (2020-2024)
- Board of Studies (Zoology), Sophia Girls' College (Autonomous), Ajmer (2022-2024)
- Board of Studies (Zoology), Parishkar College of Global Excellence (Autonomous) (2022-25)
- Board of Studies (Zoology), SS Jain Subodh PG College (Autonomous) (2022-2025)
- **Board of Studies (Zoology), MDS University, Ajmer (2022-2025)**
- **Board of Studies (Toxicology), CCS University Meerut, UP, (2022-2025)**
- **Research Recommendation Committee (RRC), MDS University, Ajmer (2021-2024)**
- Board of Studies (Zoology), Raffles University Neemrana, Alwar, (2022-2023)
- Board of Faculties (Zoology), Nirwan University, Jaipur (2021-2023)
- Board of Studies (Zoology), IIS University, Jaipur (2019-2022)
- **Board of Studies (Zoology), MS University, Vadodara, Gujarat (2020-2023)**
- Board of Studies (Biosciences), VGU, Jaipur (2020-2023)
- **Board of Studies (Zoology), Dayalbagh Educational Institute, Agra, (2020-2023)**
- COC (Pharmaceutical Chemistry), University of Rajasthan, Jaipur (2019-2021)
- Hony. Secretary, Campus Nursery School, UOR, Jaipur (2021-2022)
- Governing Council & Executive Council, Campus Nursery School, UOR, Jaipur.
- Member, Rajasthan University Business Incubation and Cluster (RUBIC) Society.
- **Board of Studies (Zoology), Jai Narayan Vyas University, Jodhpur (2011-2014).**
- **State Level Expert Appraisal Committee (SEAC) Rajasthan (Jan. 2015- Dec. 2017).**
- Selection Committee, Kishore Vygyanik Prothsaan Yojana (KVPY), DST, Govt. of India.

#### **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.
- Life member, International Society for Life Science (ISLS), India.
- Reviewer; Springer Journals and Elsevier Journals.
- Associate Editor, Journal of Environmental Biology, Lucknow, India.

#### **RESEARCH SUPERVISION:**

**Post Doctoral students: 04**

**Ph.D. Students: 27 (Thesis Awarded: 20; Currently Working: 07)**

**M. Phil / M.Tech. Thesis: 05**

#### **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. University of Rajasthan, Jaipur, India. **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. University of Rajasthan, Jaipur, India. **Awarded in 2014.**
9. **Kumud Kant Awasthi:** Xenobiotic action of Nano-particles on Swiss albino mice. University of Rajasthan, Jaipur, India. **Awarded in 2014.**
10. **Manish Soni:** Isolation and Characterization of Gallic acid decarboxylase from natural Isolates. University of Rajasthan, Jaipur, India. **Awarded in 2015.**
11. **Nidhi Jain:** Isolation and identification of acrylamide degrading bacteria from soil. University of Rajasthan, Jaipur, India. **Awarded in 2015.**
12. **Shabori Bhattacharya:** Biotransformation of Asbestos using microbial Isolates. Manipal University, Jaipur, India. **Awarded in 2016.**
13. **Abhishek Agrawal:** Molecular profiling of rumen methanogens of sheep and goats reared on different feeding systems in semiarid region. University of Rajasthan, Jaipur, India. **Awarded in 2017.**
14. **Sunil Chhimpa:** Isolation, Purification and Characterization of Feather Degrading Microbial Enzyme from Poultry Waste. University of Rajasthan, Jaipur, India. **Awarded in 2017.**
15. **Naresh Kumar Nirmal:** Evaluation of testicular toxicity of Carbon nanomaterials in Wister rats. University of Rajasthan, Jaipur, India. **Awarded in 2017.**
16. **Vipin Yadav:** Regulation of multidrug resistance in human pathogenic fungi *Candida albicans*. University of Rajasthan, Jaipur, India. **Awarded in 2018.**
17. **Krati Vyas:** Evaluation of Neurotoxic potential of Iron Oxide Nanoparticles in Wistar Rat (*Rattus norvegicus*). University of Rajasthan, Jaipur, India. **Awarded in 2019.**
18. **Beena Kanwar Shekhawat:** Alkaline protease producing microorganisms from Semi-arid zone of Rajasthan. University of Rajasthan, Jaipur, India. **Awarded in 2020.**
19. **Gaurav Sharma:** Drug resistance profile of *Mycobacterium tuberculosis* isolates from children attending tertiary care centre at Jaipur (**Awarded in June 2022**).
20. **Gajraj Singh Varma:** Assessment of Testicular Toxicity of Iron Oxide Nanoparticles in Wistar Rat (*Rattus norvegicus*). (**Awarded in Sept. 2022**).

**Doctoral dissertations under progress:**

21. **Hemant:** Silica nanoparticles induced biochemical and histological changes in kidney of *Rattus norvegicus* (Reg. 2017) UGC-JRF.
22. **Sonam Yadav:** Evaluation of Neurotoxic Potential of Silica Nanoparticles in Wistar Rat (*Rattus Norvegicus*) (Reg. 2017).
23. **Regu Raj Singodia:** Ecological study of Kot Dam (Sarju Sagar Dam) of Jhunjhunu district, Rajasthan. Reg. 2019
24. **Navneet Kumar:** Toxicity assessment of prenatal and postnatal arsenic exposure in Wistar rat (*Rattus norvegicus*). Reg. 2019

25. **Astha Mathur:** Arsenic induced nephrotoxicity and its amelioration using vitamin-E on Wistar rat (*Rattus norvegicus*). Reg. 2019
26. **Gayatri Sharma (Admitted)**
27. **Mitashi Singh (Admitted)**

#### **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).

#### **Post-doctoral Fellows:**

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 (SiO<sub>2</sub>-NPs) on some organs of *Channa punctatus* (Bloch). **Department of Science and Technology (DST), New Delhi, 2017-2021.**
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, 2018-2022.**

#### **PERSONAL DETAILS:**

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

#### **DETAILS OF PUBLICATIONS:**

<b>Total Number of Publications</b>	<b>: 86</b>
<b>Google Scholar Citations</b>	<b>: 2159</b>
<b>Cumulative Impact Factor</b>	<b>: 125.337</b>
<b>h-index</b>	<b>: 22</b>
<b>i10-index</b>	<b>: 31</b>
<b>Gene Sequence Submitted</b>	<b>: 11</b>

## **List of Publications:**

1. Placheril J. John and Navneet Kumar (2023): Mechanistic Basis of Arsenic Induced Carcinogenesis: Differential miRNA Expression. International Journal of Current Science Research and Review. 06 (02), 1599-1617. DOI: 10.47191/ijcsrr/V6-i2-81, (IF: 5.995)
2. Gajraj S Verma, Naresh K Nirmal, Placheril J John (2022): Iron oxide nanoparticles reversibly affect sperm quality in Wistar rats. Andrologia.e14631. (IF: 2.532)
3. Gaurav Sharma, B Malhotra, PJ John, S Gautam, S Bhargava (2022): Evaluation of GeneXpert and liquid culture for detection of Mycobacterium tuberculosis in pediatric patients. Indian Journal of Medical Microbiology. <https://doi.org/10.1016/j.ijmmb.2022.07.40> (4), 547-551. (IF: 1.347)
4. Gajraj S Verma, Naresh K Nirmal, Deepika Gunpal, Hemant Gupta, Monika Yadav, Navneet Kumar and **Placheril J John** (2021): Intraperitoneal exposure of iron oxide nanoparticles causes dose-dependent toxicity in Wistar rats. Toxicology and Industrial Health. 37 (12), 763-775. DOI: 10.1177/07482337211058668 (IF:2.273)
5. N K Nirmal, K K Awasthi, **P. J. John** (2021): Hepatotoxicity of hydroxyl-functionalized multiwalled carbon nanotubes in Wistar rats. Bull. Env. Pharmacol. Life Sci., 10 (5), 266-272.
6. Hemlata Verma, Rajbala Verma and **PJ John** (2021): Oxidative stress and genotoxicity assessment of silicon di oxide nanoparticle in snake headed murrel, *Channa punctatus*. International Journal of Applied Research; 7(7): 270-277.
7. Gaurav Sharma, Bharti Malhotra, **P. J. John**, Shipra Bhargava (2021): Detection of *Mycobacterium tuberculosis* and drug resistance in pediatric patients' suspected of pleural tuberculosis. Journal of Advanced Scientific Research, 12 (2), 140-144.
8. G S Verma, N K Nirmal, **P J John** (2021): Nanoscale Materials and their Effects on Male Reproductive System: A Comprehensive Review. Bull. Env. Pharmacol. Life Sci., 10 (4), 88-101.
9. N Manglani, D Bhatt, S Singh, **PJ John**, I Soni (2021): Estimation of Median Lethal Dose of Fenpropathrin in Wistar Rat. Journal of Ecophysiology and Occupational Health 21 (1), 16-22.
10. Rashmy Nair, Ravindra Singh Rao, **Placheril Joseph John**, Poonam Khandelwal (2021): Immunity modulators, Repurposed drugs and Candidate Vaccines for COVID-19: A Review. Coronaviruses 2 (1), 1-10. (January 2021); DOI: 10.2174/2666796702999210112203139.
11. Shabori Bhattacharya, **PJ John**, Lalita Ledwani (2021): Microbial siderophores an envisaged tool for asbestos bioremediation—A microcosm approach. Materials Today: Proceedings: 43, (5), 3110-3116. <https://doi.org/10.1016/j.matpr.2021.01.588> (IF: 0.97).
12. Anjali Awasthi, Kumud Kant Awasthi, **P. J. John** (2021): Nanomaterials in Biology. Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-021-13189-x>.
13. N K Nirmal, G S Verma, K K Awasthi, **P. J. John** (2020): Effects of Hydroxyl Functionalized Multiwalled Carbon Nanotubes on Histology of Various Organs in Wistar Rats. IISUniv. J. Sc. Tech., 9 (1), 33-37.
14. A. Sharma, **P. J. John**, P. Bhatnagar (2020): Fluoride and endosulfan together potentiate cytogenetic effects in Swiss albino mice bone marrow cells. Toxicology and Industrial Health. December 2020. <https://doi.org/10.1177/0748233720979423> (IF:2.273).
15. Rajbala Verma, Neelu Kanwar Rajawat, Kumud Kant Awasthi, Farah Syed, **PJ John**, Inderpal Soni (2020): ROS dependent neurotoxicity, genotoxicity & histopathological alterations triggered by  $\beta$ -cyfluthrin, a synthetic pyrethroid. Materials Today: Proceedings: <https://doi.org/10.1016/j.matpr.2020.10.959> (IF: 1.24).



16. Neha Sharma, **Placheril John**, Shekhar Sharma, Jaydeep Joshi (2020): Effect of Yoga Nasal Irrigation for the Treatment of Episodic Migraine: Randomized Controlled Trial. *Journal of Neuropsychiatry and Clinical Neurosciences*. 32 (3); E21-E22. (IF: 2.192)
17. 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).
18. 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*. 5 (5); 26-34. <https://doi.org/10.30780/IJTRS.V05.I05.004>.
19. 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:3.330).
20. 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:2.273).
21. 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.
22. 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 trial. *Clinical Medicine* 19 (Suppl 3), 87.
23. NK Rajawat, I. Soni, F. Syed, R.Verma, **P. J. John**, R. Mathur (2019):Effect of  $\beta$ -cyfluthrin (synthetic pyrethroid) on learning, muscular coordination and oxidative stress in Swiss albino mice. *Toxicology and industrial health* 35 (5), 358-367. (IF:2.273).
24. Savita Beniwal, Ashok Kumar, Sunil Chhimpa, 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).
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#### **GENE SEQUENCE SUBMITTED: 11**

1. Agrawal,A.R., Kumar,R., Karim,S.A., Kumar,S. and **John,P.J.** KT884532, Uncultured bacterium clone 6 16S ribosomal RNA gene, partial sequence, GenBank: KT884532.1, 04-NOV-2015.
2. Agrawal,A.R., Kumar,R., Karim,S.A. and **John,P.J.** KT884531, Uncultured bacterium clone 5 16S ribosomal RNA gene, partial sequence. GenBank: KT884531.1, 04-NOV-2015.
3. Agrawal,A.R., Kumar,R., Karim,S.A., Kumar,S. and **John,P.J.** KT884530, Uncultured bacterium clone 4 16S ribosomal RNA gene, partial sequence, GenBank: KT884530.1, 04-NOV-2015.
4. Agrawal,A.R., Kumar,R., Karim,S.A. and **John,P.J.** KT884529 Uncultured bacterium clone 3 16S ribosomal RNA gene, partial sequence, GenBank: KT884529.1, 04-NOV-2015.
5. Agrawal,A.R., Kumar,R., Karim,S.A., Kumar,S. and **John,P.J.** KT884528, Uncultured bacterium clone 2 16S ribosomal RNA gene, partial sequence, GenBank: KT884528.1, 04-NOV-2015.
6. Agrawal,A.R., Kumar,R., Karim,S.A., **John,P.J.** and Kumar,S. KT884527, Uncultured bacterium clone 1 16S ribosomal RNA gene, partial sequence, GenBank: KT884527.1, 04-NOV-2015.
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8. Agrawal,A.R., Kumar,R., Karim,S.A., **John,P.J.** and Kumar,S. KP752398, Uncultured bacterium clone 1 16S ribosomal RNA gene, partial sequence, GenBank: KP752398.1 06-APR-2015.
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11. Ajit, K, **Placheril, J. J.** and Inderpal, S.: EU258611; 1396bp DNA, *Bacillus subtilis* strain AKPJ04; NCBI GenBank; 21-Nov-2007.

#### **CONFERENCE / REFRESHER COURSE ORGANIZED:**

- 23rd Indo US Flow Cytometry workshop and symposia on “Applications of Flow Cytometry in Biomedical Research” held at University of Rajasthan, Jaipur from 7-10 March 2022.
- International Conference on “Multidisciplinary Approaches on Environmental Research for Human Health” organized by Department of Zoology, University of Rajasthan, Jaipur (Raj.), Dec. 22-24, 2021.
- Refresher Course in Life Sciences (Interdisciplinary), February 24<sup>th</sup> to 07<sup>th</sup> 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 Webinar on “Acquaintance with Animals and Human Welfare” organized by L. B. S Govt. College, Kotputli, on 29.07. 2021. (Invited Speaker).
- National Webinar on “Nanotechnology in Human Welfare” organized by R. G. Girls College, Bharatpur. (10.02. 2021) (Invited Speaker).
- Faculty Development Programme Online Training Programme held from 25<sup>th</sup> – 31<sup>th</sup> January 2021. Jointly Organized By Commissionerate College Education, Jaipur & Department of Zoology, Govt Dungar College, Bikaner (Invited Speaker).
- National Webinar on “Biodiversity Conservation, Environmental Protection and Immunity Against Diseases” organized by Govt. Girls College, Kotputli. (25 January 2021) (Invited Speaker).
- 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. 5<sup>th</sup> International symposium on Hormonal Carcinogenesis, held at **Montpellier, France** from 10-13 September 2006.
3. The 12<sup>th</sup> 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 28<sup>th</sup> 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 9<sup>th</sup> 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. 6<sup>th</sup> 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.
12. 21<sup>st</sup> 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.
13. 61st Annual Meeting of Society of Toxicology at the San Diego Convention Center in **San Diego, California, USA**, March 26–31, 2022.

#### **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 & December 3, 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. 22<sup>nd</sup> 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. 43<sup>rd</sup> 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. 23<sup>rd</sup> 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. 24<sup>th</sup> 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. 25<sup>th</sup> 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: 9<sup>th</sup> 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. 32<sup>nd</sup> 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).
32. National Symposium on “Latest Innovations in Science & Technology” organized by Department of Science, St. Wilfred’s College for Girls, Jaipur (March 1, 2019).
33. National Webinar on “Biodiversity Conservation, Environmental Protection and Immunity Against Diseases” organized by Govt. Girls College, Kotputli. (25 January 2021).



34. National Webinar on “Nanotechnology in Human Welfare” organized by R. G. Girls College, Bharatpur. (10.02. 2021).
35. National Webinar on “Acquaintance with Animals and Human Welfare” organized by L B. S Govt. College, Kotputli, on 29.07. 2021.

**(Prof. P. J. John)**