

## Pennathur Gautam

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### EDUCATION AND EMPLOYMENT INFORMATION

#### EDUCATION

PhD	Indian Institute of Science, Bangalore, India	1989	Inorganic & Physical Chemistry , Studies on Porphyrins & Their Metalloderivatives , Advisor: Prof. V. Krishnan
M. Sc.	Vivekananda College, University of Madras	1981	Chemistry
B. Sc	Vivekananda College , University of Madras	1979	Major: Chemistry, Minor: Physics & Chemistry

#### POSITIONS HELD– ACADEMIC

Anna University	Professor	2004–	Chemical Biology & Computational Biology
Anna University	Assistant Professor	1996–2004	Chemical Biology & Computational Biology
Anna University	Visiting Faculty	1993–96	Bioorganic Chemistry
Centre for Fast Kinetics Research University of Texas Austin	Post-Doctoral Fellow	1992–93	Time-Resolved Spectroscopy of Biological Molecules
Department of Chemistry , University of Chicago	Research Associate	1989–92	Time-Resolved EPR Spectroscopy of Biradicals. Advisor: G.L. Closs

#### POSITIONS HELD–ADMINISTRATIVE

Anna University	Director	2013–	Centre for Biotechnology
Anna University	Head	2013	Department of Biotechnology
Anna University	Chairperson	2008-2013	Faculty of Technology

## GRADUATE STUDENTS ( Ph.D )

S. No:	Name	Degree	Year	Area of Work	Thesis Title
1	Dr. B.S.Lakshmi	Ph.D	2000	Lipases and Monoxygenases	Studies on <i>Candida rugosa</i> Lipase and its Stereospecificity towards Resolution of Racemic Ibuprofen
2	Dr. V.Anuradha	Ph.D	2004	Metal Resistant Microorganisms	Studies on <i>Thiobacillus ferrooxidans</i> and <i>Serratia Marsescens</i> on their Metal Affinity and Pigment Secretion
3	Dr. Ramalingam. S	Ph.D	2005	Bioprocess Technology	Bioprocess Strategies for Enhanced Production of Recombinant Streptokinase in <i>E.coli</i>
4	Dr. Sharmila Anishetty	Ph.D	2005	Computational Biology & Molecular Modeling	Studies on Protein structure: Tripeptide Analysis and its Application
5	Dr. Jayant James	Ph.D	2005	Molecular Simulations	Studies on Molecular Dynamics Simulation of Lipases
6	Dr. Richard . W	Ph.D	2005	Metal resistant Microorganisms	Studies on Microbial Leaching of Lignite using <i>Bacillus cereus</i> & <i>Acidothiobacillus Ferrooxidans</i>
7	Dr. Kavitha R	Ph.D	2006	Secretion of Lipases	Studies on Lipase Production by <i>Candida rugosa</i> using Oil Seeds as Substrates
8	Dr. C. S. Latha	Ph.D	2008	Secretion of Lipases & Molecular Dynamics Simulations	Studies on <i>Pseudomonas aeruginosa</i> Lipase : Secretion & Molecular Dynamics Simulations
9	Dr. S. Karthikeyan	Ph.D	2008	Genomics	Studies on Landscape Elements in Genomic DNA

## GRADUATE STUDENTS CONTINUED ( Ph.D )

S. No:	Name	Degree	Year	Area of Work	Thesis Title
10	Dr. K. S. Vinod	Ph.D	2008	Pharmaceutical Chemistry	Studies on Embedded Tamarind Seed Polysacharride Matrices
11	Dr. R. Kaushik	Ph.D	2009	Food Technology	Studies on Isolaton of Steveoside
12	Dr. A. Nandhini	Ph.D	2009	Industrial Microbiology	Studies on Lipase from <i>Serratia Marcasens</i>
13	Dr. M. Saminathan	Ph.D	2009	Industrial Enzymes	Studies on Esterase from <i>Lysinbacillus sphaericus</i>
14	Dr. Vinatha Krishna	Ph.D	2009	Molecular Simulations	Studies om Molecular Dynamics of N-Acetytransferase
15	Dr. J. Narayanan	Ph.D	2010	Nanobiotechnology	Studies on Rhamnolipid from <i>Pseudomonas aeruginosa</i> and its Applications
16	Dr. V. Sujatha	Ph.D	2010	Bioanalysis	Studies on Metal Tolerant Bacteria & Applications of Porphyrin Derivatives
17	Dr. K. Senthil Kumar	Ph.D	2011	Molecular Biology	Studies on Mercury Transporter (merT)and Mercury Reductase (merA) Proteins
18	Dr. K. T. Kumaresan	Ph.D.	2011	Industrial Enzymes	Studies on Lipases from <i>Aeromonas veronii PG01</i>
19	Dr. Deepa Priya	Ph.D	2012	Industrial Enzymes	Studies on protease from <i>Bacillus megatarium</i>
20	Dr. T. Kothai	Ph.D	2012	Molecular Simulations	Studies on understanding domain movements and interaction of <i>Pseudomonas aeruginosa</i> lipase, <i>Rhizomucor miehei</i> lipase and <i>Candida rugosa</i> lipase with a lipid molecule: A Molecular Dynamics Approach

## GRADUATE STUDENTS CONTINUED ( M.S )

S. No:	Name	Degree	Year	Area of Work	Thesis Title
1.	T. Kothai	M.S	2006	Molecular Simulations	Analysis of Lipase Sequences in Terms of Tripeptides
2.	Ashwin K	M.S	2008	Biochemical Engineering	A Study of the Extractive Fermentation of Esterase from <i>Bacillus sp.</i> Using Aqueous Two Phase Systems
3.	K. Divakar	M.S	2010	Industrial Microbiology	Studies on Extracellular Protease Isolated from <i>Aeromonas veronii</i>
4.	Abhinaya Sindhu	M.S	2011	Biofilms	Studies on EPS Characteristics of <i>Pseudomonas aeruginosa</i> Biofilms Grown in different Metal fatty Acid Medium
5.	N. Vijina	M. S	2012	Nanobiology	Studies on Phosphorylated Rhamnolipids

## PRESENT POSITION OF FORMER GROUP MEMBERS

Name	Area of Work	Position	Affiliation
Dr. B.S.Lakshmi	Bioorganic Chemistry	Assistant Professor	Centre for Biotechnology, Anna University
Dr. V.Anuradha	Proteomics	Post-Doctoral Fellow	University of Michigan, U.S.A
Dr. Ramalingam. S	Bioprocess Technology	Associate Professor	Centre for Biotechnology Anna University
Dr. Sharmila Anishetty	Computational Biology	Assistant Professor	Centre for Biotechnology, Anna University
Dr. Jayant James	Molecular Simulations	Post-Doctoral Fellow	Fox Chase Institute, U.S.A
Dr. Richard . W	Metal Resistant Microorganisms	Assistant Professor	SRM University, Chennai
Dr. Kavitha R	Enzyme Technology	Scientist	E. Merck, U.S.A
Dr. S. Karthikeyan	Genomics & Proteomics	Head Bioinformatics	Positive Biosciences , Mumbai
Dr. C. S. Latha	Industrial Microorganisms	WOS, DST	Anna University Chennai
Dr. K. S. Vinod	Pharmaceutical Chemistry	Research Scientist	Orchid Pharmaceuticals Ltd.

## PRESENT POSITION OF FORMER GROUP MEMBERS CONTINUED

Name	Area of Work	Position	Affiliation
Dr. R. Kaushik	Food Technology	Senior Consultant	Giract Consultantcies
Dr. A. Nandhini	Enzyme Technology	Analyst	Frost & Sullivan.
Dr. M. Saminathan	Enzyme Technology	Post-Doc	University of Illinois , USA
Dr. Vinatha Krishna	Molecular Simulations	DBT , Post-Doc	Anna University Chennai
Dr. V. Sujatha	Science Communication	Analyst	Frost & Sullivan
Dr. J. Narayanan	Nanobiology	Senior Scientist	Sankar Netralaya
Dr. K. S. Senthil	Protein Purification	Post-doc	University of Florida, USA
Dr. K. Thirumalaimuthukumaresan	Protein Purification	Research Associate	SRM University
Dr. Deepa Arul Priya	Micorbiology	Post-Doc	Korea
Dr. T.Kothai	Molecular Simulations	Member-Research	Centre for Biotechnology, Anna University
Dr. G. Nandhini Devi	Environmental Biotechnology	Assistant Professor	Centre for Biotechnology , Anna University
Dr. N. Velu	Enzyme Technology	Administrative Staff	Centre for Biotechnology, Anna University
Dr. M. Abhilash	Machine Learning	Post-doc	IISc, Bangalore

## GRANT AND CONTRACT SUPPORT: COMPLETED PROJECTS

Agency	Title	Year	Status	Grant
Department of Science & Technology	Biosurfactant Production PI: P. Gautam, Co-PI: V. Murugan	2005-09	Completed	₹25,48,000
Department of Science & Technology	Nanotechnology PI: P. Gautam, Co-PI's: Sharmila Anishetty, R. B. Narayanan, B. S. Lakshmi	2006-09	Completed	₹1,00,07,000
Department of Biotechnology	Detection of Rice Tungro Virus PI: P. Gautam, Co-PI: P.V. Ramakrishna	2007-10	Completed	₹55,00,000
Department of Science & Technology	Biofilm Formation PI: P. Gautam, Co-PI: B. S. Lakshmi	2009-12	Completed	₹39,96,000
Department of Biotechnology	Hydrogen Production From Algae PI: P. Gautam, Co-PI: B. S. Lakshmi	2010-12	Completed	₹48,04,000

## GRANT AND CONTRACT SUPPORT: ONGOING PROJECTS

Agency	Title	Year	Status	Grant
Department of Biotechnology	DBT Program Support for Macromolecular Engineering & Design Anna University & Madurai Kamaraj University Coordinator : P. Gautam Co-Leader : S. Krishnaswamy, Co-PI's: R. Usha, Sharmila Anishetty, B. S. Lakshmi, G. Nandhini Devi, S. Ramalingam	2008-13	Ongoing	₹5,03,00,000

## PUBLICATIONS REFEREED JOURNAL ARTICLES

1. 1. Nanoscale investigation on *Pseudomonas aeruginosa* biofilm formed on porous silicon using Atomic Force Microscopy. Ashwin Kannan , C. S. Latha, Vinatha Krishna, T. Kothai & Pennathur Gautam *Scanning- A Journal of Microscopy* **36, 1, 2014.** .

- 2, A Study on *Pseudomonas aeruginosa* Biofilm Ashwin Kannan, G. Panneerselvam & Pennathur Gautam *Asian Journal of Microbiology Biotechnology & Environmental Science* **Accepted**
3. A Facile One–Pot Synthesis of Gold Nanoparticles by *Chlamydomonas Reinhardtii*. Divya Rao & Pennathur Gautam *Asian Journal of Microbiology Biotechnology & Environmental Science* **Accepted**
4. Statistical analysis of production of protease and esterase by a newly isolated *Lysinibacillus fusiformis* AU01: purification and application of protease in sub-culturing cell lines. M. Surya Prabha, J Deepa Arul Priya, K. Divakar, G Panneer Selvam, Pennathur Gautam *Ann. in Microbiol.* <http://link.springer.com/article/10.1007/s13213-014-0833-z>
5. Isolation, Purification and Characterisation of an Organic Solvent-Tolerant Ca<sup>2+</sup>-Dependent Protease from *Bacillus megaterium* AU02 J Deepa Arul Priya, K. Divakar, M Surya Prabha, G Panneer Selvam, Pennathur Gautam. *Appl. Biochem. Biotechnol.* **172, 910 , 2014.**
6. A Multi-Substrate Assay for Lipases/Esterases: Assessing acyl chain length selectivity by RP-HPLC. K.Divakar , Pennathur Gautam K. Divakar, Pennathur Gautam. *Analytical Biochemistry* **448, 38, 2014.** .
7. Understanding the lid movements of LolA in *Escherichia coli* using molecular dynamics simulation and *in silico* point mutation Priyadarshini Murahari, Sharmila Anishetty, Gautam Pennathur. *Computational Biology and Chemistry* **47, 71, 2013.**
8. Resonance Energy Transfer between Protein and Rhamnolipid capped ZnS quantum dots: Application in in-gel Staining of Proteins. Narayanan Janakiraman, Abhilash Mohan, Ashwin Kannan, Gautam Pennathur. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **95, 478, 2012.**
9. In-Gel Staining of Proteins in Native Poly Acryl Amide Gel Electrophoresis Using Meso–Tetrakis(4-sulfonato phenyl) Porphyrin (TPPS) Divakar. K, G. Nandhini Devi and Pennathur Gautam. *Methods in Molecular Biology* **869, 579, 2012.**
10. Lipase from *Aeromonas caviae* AU04: Isolation, Purification and Protein Aggregation. N. Velu, K. Divakar, G. Nandhinidevi, Pennathur Gautam *Biocatalysis and Agricultural Biotechnology* **1, 45, 2011** .
11. In-Gel Staining of Proteins in Native Poly Acryl Amide Gel Electrophoresis Using

- Tetrakis(4-sulfonato phenyl) Porphyrin (TPPS) Divakar. K, Sujatha. V., Barath Sridhar, Srinath Krishnamurthy, and Pennathur Gautam. *Analytical Sciences* **27, 101, 2011.**
12. Molecular dynamics simulations of human and dog gastric lipases: Insights into domain movements Anitha Selvan, Chandrabhan Seniya, Srinivas Niranj Chandrasekaran, Nithyanand Siddharth, Sharmila Anishetty, Gautam Pennathur *FEBS Letters* **584, 4599, 2010.**
13. Expression and single-Step purification of mercury transporter (merT) from *Cupriavidus metallidurans* in *E.coli*. K. Sendhil & Pennathur Gautam. *Biotechnology Letters* ,**32, 1663, 2010.**
14. Use of tetra ammonium tetrakis (4-sulphonato) phenyl porphyrin for bacterial cell imaging. , Sujatha V, Bharat Sridhar, Srinath Krishnamurthy, Vinod Kumar K S, Senthil Kumar K & Gautam Pennathur. *International Journal of Analytical Chemistry* , **Volume 2010, Article ID 697528 .**
15. Purification and Characterisation of Thermo-Stable Organic Solvent-Tolerant Protease From *Aeromonas veronii* PG01 , Divakar K, Deepa Arul Priya J, Pennathur Gautam. *Journal of Molecular Catalysis B: Enzymatic*, **66, 311 , 2010.**
16. Global Metal-Ion Binding Protein Fingerprint: A Method to Identify Motif-less Metal-Ion Binding Proteins Abhilash Mohan, Sharmila Anishetty & Pennathur Gautam. *Journal of Bioinformatics & Computational Biology* . **8, 717 , 2010.**
17. Synthesis, Stabilisation and Characterisation of Rhamnolipid Capped ZnS Nanoparticles in Aqueous Medium. Narayanan Janakiraman & Pennathur Gautam. *IET Nanobiotechnology* **4, 2 , 2010**
18. Investigation on Domain Movements of N-Acetyltransferases in Nanoscale. Vinatha Krishna, K. S. Vinod Kumar, Sharmila Anishetty & Pennathur Gautam. *Journal of Nanoscience & Nanotechnology* **9, 5493, 2009**
19. Molecular Dynamics Simulations of Lipases. Kaushik Ramakrisnan, Vinatha Krishna, Vinod kumar K.S, Lakshmi, B.S ,Sharmila Anishetty & Gautam Pennathur. *International Journal of Intergrative Biology*, **2,205, 2008**
20. Blue native electrophoresis study on lipases. M. Saminathan, K. Thirumalai Muthukumaresan, Srinivas Rengarajan, Nandhini Muthukrishnan & Pennathur Gautam. *Analytical Biochemistry* , **377, 270. 2008. (Top 25 Hottest Articles in Analytical**

**Biochemistry, April – June 2008, Article No: 13,**

**<http://top25.sciencedirect.com/subject/biochemistry-genetics-and-molecular-biology/3/journal/analytical-biochemistry/00032697/archive/18/>)**

21. Activation of *Candida rugosa* lipase at alkane–aqueous interfaces: A molecular dynamics study . J . James , B . Lakshmi , A . Seshasayee , P . Gautam. *FEBS Letters* , **581** , **4377,2007** .

22. Distribution of Tripeptides in MHC Binding Peptides. Sharmila Anishetty & Gautam Pennathur.*Protein and Peptide Letters*, **14**, **552** , **2007**.

23.*In silico* identification of putative metal binding motifs Richard Thilakaraj , Krishnan Raghunathan , Sharmila Anishetty & Gautam Pennathur. *Bioinformatics* **23**, **267**, **2007**..

24. Effects of post-induction feed strategies on secretory production of recombinant streptokinase in *Escherichia coli* Subramanian Ramalingam, Pennathur Gautam, Krishna Jyoti Mukherjee and Guhan11. Jayaraman. *Biochemical Engineering Journal*, **33**, **34** , **2007**.

25. Accumulation of Acid Orange 7, Acid Red 18 and Reactive Black 5 by growing *Schizophyllum commune* S. Renganathan, W. Richard Thilagaraj, Lima Rose Miranda, P. Gautam, M. Velan. *Bioresource Technology* **97**, **2189** , **2006**.

26. A Sensitive Assay for Lipase using Tetra Sulfonatophenyl Porphyrin. K.S. Vinod Kumar, Bharathi Ramasubhan, B.S. Lakshmi and Pennathur Gautam. *Analytical Biochemistry* **356**, **294**, **2006**.

27. Understanding mutations and protein stability through tripeptides. Sharmila Anishetty, Ramesh Anishetty and Gautam Pennathur. *FEBS Letters* **580**, **2071** , **2006**.

28. Role of Hydrophobic Interactions and Salt–Bridges in  $\beta$  Hairpin Folding. Aswin Sai Narain Seshasayee, Krishnan Raghunathan, Karthikeyan Sivaraman, Gautam Pennathur. *J. Mol. Mod.* **12**, **197**, **2006**.

29. Potential Drug Targets in *Mycobacterium tuberculosis* through Metabolic Pathway Analysis. Sharmila Anishetty , Mridula Pulani , Pennathur Gautam. *Computational Biology and Chemistry*, **29**, **368** , **2005**., *Analytical Biochemistry* , **377**, **270**. **2008**. (**Top 25 Hottest Articles in Computational Biology & Chemmistry January–March 2006, Article No: 1,**

**<http://top25.sciencedirect.com/subject/biochemistry-genetics-and-molecular->**

**biology/3/journal/computational-biology-and-chemistry/14769271/archive/7/)**

30. Evidence of a Double-Lid Movement in *Pseudomonas aeruginosa* Lipase: Insights from Molecular Dynamics Simulations. Subbulakshmi Latha Cherukuvada, Aswin Sai Narain Seshasayee, Krishnan Raghunathan, Sharmila Anishetty, Gautam Pennathur. *PLoS Computational Biology* **1**, e28, 2005.
31. Promoter Addresses: Revelations from Oligonucleotide Profiling Applied to the *Escherichia coli* genome. Karthikeyan Sivaraman, Aswin Sai Narain Seshasayee, Krishnakumar Swaminathan, Geetha Muthukumaran, Gautam Pennathur. *Theoretical Biology and Medical Modelling* **2**, 20 2005.
32. Functionally Specified Protein Signatures for Individual Blue Copper Proteins and for a Combination of Blue and Green and Blue and Purple Copper Proteins. Anuradha V., Sharmila A and Gautam P. *BMC Bioinformatics* **5**, 127 2004.
33. A Novel Medium for the Enhanced Growth and Production of Prodigiosin from *Serratia marsescens* Isolated from Soil. Anuradha Giri., Nandini Anand Geetha Muthukumaran and Gautam Pennathur *BMC Microbiology* **4**, 11 2004. **Highly Accessed.**
34. Insights from Molecular Dynamics Simulation into pH Dependent Enantioselective Hydrolysis of Esters by *Candida rugosa* Lipase. Jayasunder J James, Baddireddy S Lakshmi, Venkateshamoorthy Raviprasad, Madhuranthagam J Ananth, Pandjassarame Kanguane, Pennathur Gautam. *Protein Engineering* **16** , 1017 2003. **The 50 Most-Frequently-Read Articles in Protein Engineering, Design and Selection during March 2006, <http://peds.oxfordjournals.org/reports/mfr9.dtl>**
35. Tripeptide Analysis of Protein Structures. Sharmila Anishetty; Pennathur Gautam , Ramesh Anishetty. *BMC Structural Biology*, **2**, 9 2002. **Highly Accessed .**
- 36... A Study on the Effect of Hydrophobicity on the Interfacial Activation of *Candida rugosa* Lipase. Lakshmi, B. S; Madhavi, K; Kanguanne, P; Mukut, S; Gautam, P. *J. Biochemistry Mol. Biol & Biophyscis*, **4**, 293 2000.
37. Molecular Basis for the Stereospecificity of *Candida rugosa* Lipase (CRL) towards Ibuprofen. Lakshmi, B. S; Kanguanne, P; Guo, Y.; Chen, . Z.; Gautam, P. *Biocatalysis and Biotransformations* , **17**, 475 2000.
38. Effect of Vegetable Oils in the Secretion of Lipase from *Candida rugosa* (DSM 2031). Lakshmi, B. S; Kanguanne, P; Abraham, B.; Pennathur, G. *Lett. Appl. Microbiol.*, **29**, 66

**1999.**

39. A Low Cost RS-232C based Computer Interface. Senthil Kumar, K.; Laskhmi, B. S.; Gautam, P. *Journal of Automatic Chemistry*, **20**, **189** **1998**.

### **Papers as a Graduate Student & Post-Doc**

40. Coordination Aggregation of Mesoaryl Substituted Porphyrins. Gautam, P.; Krishnan, V. *Proceedings of the Indian National Academy of Sciences*, **107**, **412**, **1994**.

41. Internal Rotation in Auramine – O. Gautam, P.; Harriman, A. *Journal of Chemical Society Faraday Transactions*, **90**, **697** **1994**.

42. Temperature Dependence of the Exchange Coupling in Polyethylene Chain Biradicals Conclusion regarding the Mechanism of Coupling. Forbes, M. B. E.; Closs, G. L.; Calle, P.; Pennathur Gautam *J. Phys. Chem.*, **97**, **3384** , **1993**.

43. Steady State and Time Resolved Direct Detection of Fullerene Triplets in Liquid Solution and Glassy Matrices. Evidence of Dynamic Jahn-Teller Effect in Triplet C<sub>60</sub> . Closs, G. L.; Gautam, P.; Zhang, D.; Krusic, P.; Hill, S. A.; Wasserman, E. *J. Phys. Chem.* **96**, **5228** **1993**

### **PATENTS FILED**

1. Process For Preparing rhamnolipid capped metal nanoparticles. Pennathur Gautam, Narayanan Janakiraman, Centre fo Biotechnology, Anna University, Chennai - 600025, Tamilnadu India, Patent Application Publication, Application No.2143/CHE/2008 A India Date of filing of Application :02/09/2008 Publication Date : 21/11/2008. The Patent Office Journal

2. A Method to detect hydrolases and in-gel staining of proteins using tetra (4-sulphonato phenyl) porphyrin. P.Gautam , V.Sujatha ,K.S.Vinod Kumar D.Leelavathi. Application No.3161/CHE/2008 A. Date of filing of Application :16/12/2008 (43) Publication Date : 20/02/2009 The Patent Office Journal

3. A Method for microbial production of extracellular lipase using vegetable oilseed substrates. Pennathur Gautam, Cherukuvada Subbalakshmi Latha Application No.375/CHE/2009 A. Date of filing of Application :20/02/2009 Publication Date : 06/03/2009. The Patent Office Journal

4. A Process for production of water-based nanofluid using single walled carbon nanotubes.

P. Gautam, K.A.Padmanabhan, T.Mohan Das, R. Jayavel, A.Pandurangan, T.Somanathan, N.Rajaram, V. Ganpath Kumar, S. Nagaraja. Application No.2831/CHE/2008 Date of filing of Application :18/11/2008 Publication Date : 30/01/2009. The Patent Office Journal.

5. A Method for producing metal oxide nanoparticles using tamarind seed polysaccharide. P. Gautam, B.S. Lakshmi, K.S.Vinod Kumar, V. Sujatha, Appl. No. 832/CHE/2009 A. Date of filing of Application: 09/04/09 Publication Date : 12/06/2009. The Patent Office Journal.

6. A Method for live cell imaging of bacterial cells using anionic porphyrins and its metallo derivatives. P. Gautam, V. Sujatha, K.S. Vinod Kumar, Srinath Krishnamurthy, Bharat Sridhar. Appl. No. 1082/CHE/2009 A. Date of filing of Application: 11/05/09 Publication Date: 12/06/2009. The Patent Office Journal.

7. A Process for Production and Purification of Thermostable Organic Solvent Protease from *Aeromonas vernii* PG01. P. Gautam, K. Diwakar & J. Deepa Priya Appl. No. 491/CHE/2010 A. Date of filing of Application: 25/02/2010.

## SERVICE

### NATIONAL

Joint Treasurer of the Chemical Research Society of India 2014–17.

Member of Department of Biotechnology Task Force on Bioinformatics ,2003–2009, 2013–16.

Member of the Expert Committee of the University Grants Commission to Evaluate & Recommend Projects for Sanction in Biotechnology, Microbiology & Molecular Biology , 2006.

Member of the National Advisory Board of the International Conference in Computational Biology held in New Delhi , 2006.

Invited to Give a Talk at the Indo–US Science forum in Genomics held in Bangalore , 2004.

Invited to Give a Talk at the ICMR Centre at Parel as part of the 150th Anniversary Celebrations of the University of Mumbai , 2006.

Thesis examiner for Doctoral Students of NCBS, Bangalore; IIT Mumbai; JNU, New Delhi; Madurai Kamaraj University & University of Madras, University of Pondicherry University of Delhi,

Member of Expert Committee, for Selecting Senior Research Fellows and Research

Associates, CSIR, New Delhi, TDR – 81, 2007– .

Co-Convenor of Chennai Chemistry Conference 2011, 2013.

Member of the National Committee on Setting up the National Computational Biology Centre, DBT, Government of India, 2011.

Member of the National Committee for allocating XII Plan Funds for Bioinformatics, Computational Biology & Systems Biology organized by Department of Biotechnology Government of India, 2011.

### **UNIVERSITY SERVICE – ANNA UNIVERSITY**

Chairman , Faculty of Technology, Anna University Chennai, 2008 –2013.

Member Academic Council Anna University – Chennai, 2008-13.

Member of the Research Advisory Committee of Anna University 2002–2008.

Member of the Research Board of Anna University 2008–13.

Member , Screening Committee for Recruitment of New Faculty, Anna University, 2003.

Member , Granting Affiliation to other Colleges Anna University.

### **UNIVERSITY SERVICE – OTHER UNIVERSITIES**

Member Selection Committee for Assistant Professors in Biotechnology in Biotechnology, University of Madras, 2014.

Member Selection Committee for Associate Professors in Biotechnology in Biotechnology, Jawaharlal Nehru University, 2013.

Member Selection Committee for Lecturers , Assistant Professors & Professors, in Biotechnology, Molecular Biology & Bioinformatics, Central University, Pondicherry in 2006, 2008 & 2010..

Member Committee for Selection of Lecturers , Readers & Professors in Genetics & Molecular Biology , under the Career Advancement Scheme at the University of Madras, 2006.

Member Committee for Selection of Lecturers , Readers & Professors in Genetics & Molecular Biology , under the Career Advancement Scheme at the Central University of Hyderabad, 2012.

Chancellor's Nominee for selection of Assistant Professor's , Professors in Biotechnology & Life Sciences, University of North Bengal, Siliguri, 2012–14

Member Selection Committee for Lecturers, Assistant Professors, Vellore Institute of Technology, 2005.

Member Selection Committee for Lecturers, Assistant Professors, of the Private Engineering Colleges.

Member Selection Committee for Lecturers, Information officers in Bioinformatics, North–Eastern Hill University, Shillong, 2008 & Devi Ahilya University Indore.

Member, Executive Committee , DIC Bioinformatics Centre, Kerala Agricultural University, Thrissur.

Member, Executive Committee , COE, Bioinformatics Centre, Madurai Kamaraj University, Madurai.

## **SERVICE TO THE PROFESSION**

### **Professional Societies:**

American Chemical Society (2000 – 2003 )

Biosensor Society of India.

Consulting Editor of Resonance – A Journal of Science Education 1997.

Member Governing Council of Chemical Research Society of India , 2008–.

### **Manuscript and Proposal Reviews:**

Proposal Reviewer for Projects submitted to Department of Biotechnology , Department of Science & Technology, Government of India.

Reviewer of manuscripts submitted to Current Science, Journal of Molecular Modeling , PLoS Computational Biology & Bioresource Technology.

## **4. PROFESSIONALLY-RELATED SERVICE TO THE PUBLIC**

Resource Person in Biology for the Gifted Children Scheme held in Anna University in 1994 & 1995.

Resource Person to give Lectures to College & University Teachers under the University Grant Commission Refresher Course, Annamalai University , 2000 – 2005.

Resource Person to give Lectures to College & University Teachers under the University Grant Commission Refresher Course, University of Kerala , 2005.

Resource Person to give Lectures to College & University Teachers under the University

Grant Commission Refresher Course, Bharathiyar University , 2005.

Resource Resource Person to give Lectures to School Students under Meet the the Scientist programme of National Children Science Congress , INSPIRE & Tamilnadu Science Forum.

## **AWARDS**

Receipient of the UGC-CSIR Scholarship for Doctoral Research 1983.

Receipient of UGC–BSR one time grant in 2012.

Indian National Science Academy Teachers Award 2012.