

# CURRICULUM VITAE

**Dr.K.AnandSolomon**

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A researcher and academician with 24 years of experience in Natural Products Chemistry, Solid-State Formulation, and Computer-Assisted Drug Design. Proven expertise in crystallography, pharmacokinetics, and analytical chemistry. Holder of multiple patents and author of 54 publications and three books. Strong leadership experience in academia and research institutions.

## **PATENTS:**

S.no	Title of the Patent	Patent number
1.	Molecular Adducts of Embelin with enhanced Solubility	Appln.no.201841037652 date5/10/2018
2.	A Pharmaceutical composition of Forskolin with enhanced solubility	Granted, Application, Patent Number :314665
3.	Pharmaceutical cocrystals of Quercetin	WO/2010134085
4.	Novel cocrystals / molecular salts of mesalamine to be used as improved anti-inflammatory drug	WO 2012/090224, PCT/IN2011/000902
5.	Novel co-crystals/salts of metformin with amino acids ( $\alpha$ - amino acids)	WO/2011/051974
6.	Novel cocrystals/ molecular salts of metformin with oleoylethanolamide as an effective anti-diabetic+ anti-obesity agent	WO 2012/090225, PCT/IN2011/000903

- Completed Project funded by Department of Science and Technology- Government of India (2017-2020) titled **“Crystal Engineering of Nutraceuticals as New Chemical entities”**, File Number: EMR/2016/001226-~Rs.30,98490-/-Lakhs
- A Project titled **“MenB of Menaquinone Biosynthetic Pathway a Novel Enzymatic Target for the development of anti- mycobacterial drugs”** for Rs.24,41,100.00lakhs as Co-Principal Investigator has been sanctioned by ICMR(No6715/2020-DDI/BMs) in September 2020  
No.of Ph.D students guided:7

## PROFESSIONALEXPERIENCE

- June 2016-May 2025      **Professor & Chairman**  
 Department of Chemistry,  
 School of Engineering,  
 Dayananada Sagar University  
**Chairperson**-Board of Studies, Chemistry, Dayananda Sagar University  
**Member**- Board of Studies, Chemistry, Sri Sathya Sai Center for Human Excellence  
**Nodal Officer**-Anti-Raggingcell
- June2014-May2016      **Professor & Head**  
 Department of Chemistry,  
 Sri Sathya Sai Centre forHuman Excellence  
**Responsibilities**
  - Established the chemistry department with Infra-structural facilities
- June2010-May2014      **Head/PrincipalScientist**  
 Sankar Foundation Research Institute,  
 Vishakapatnam  
*Instrumental in gettingDSIR-SIRO recognition for the institute*  
**Responsibilities**
  - Established the infrastructure and equipments for an Analytical Lab which includes powder X-ray diffractometer, DSC/TGA, FT-IR apart from a fully fledged chemistry lab.
  - In-charge of the overall running of the lab Including project monitoring and research guidance
- April 2009-May2010      **SeniorResearchScientist,**  
 Institute of Life Sciences, ( A unit of  
 Dr.Reddy'slaboratories),Hyderabad  
**Responsibilities**  
 Worked on improving the physical properties of some Active Pharmaceutical Ingredients (API's)/drug molecules using crystal engineering approach.
- August2007-March2009**AssistantProfessor,**  
 Department of Bioinformatics,  
 Sri Ramachandra University, Chennai  
**Responsibilities**

- Handling classes for first year and second year M.Sc Bioinformatics
- Project guidance to final year students
- Organizing workshops/resource person
- Individual funded project

- July2001–August2007

**Research Scholar(JRF and SRF)**

Department of Crystallography & Biophysics  
University of Madras, Guindy Campus,  
Chennai

**Responsibilities:**

- Undertake core research in designing eco-friendly insecticides using X-Ray Diffraction, Spectroscopic techniques and Modeling studies
- Maintain the High Pressure Liquid Chromatography (HPLC) setup
- Maintain the CAD4X-Ray Diffractometer
- Set up crystallization trials, screening different crystallization conditions, and optimization
- Undertake a range of spectroscopic techniques
- Crystallographic data collection and data processing using a recognized software packages
- Undertake procedures for crystallographic refinement

- June1995–June2001

**Lecturer**

Department of Chemistry  
Sri Sathya Sai University, Puttaparthi,  
Andhra Pradesh

**Responsibilities:**

- During my tenure as lecturer in Sri Sathya Sai Institute of Higher Learning, I worked on chronic renal failure as part of a collaborative project with Sri Sathya Sai Institute of Higher Medical Sciences – the Super Specialties Hospital at Puttaparthi; the results of the HPLC analysis of the urine and serum samples have been published (pub: 53-55)

**DOMAINSKILLS**

- Solid state analysis of APIs, Nutraceutical formulations
- Modification of solubility of APIs through solid state formulations
- Crystallization of compounds using different techniques viz. Vapor diffusion, Hanging Drop, Slow evaporation
- Single crystal data collection
- Isolation of natural products from various plant species using chromatographic techniques

**ANALYTICALEXPERIENCE**

- UV-Visible(TechComp8500Spectrophotometer)
- FT-IR(Bruker)
- DSC(NETZSCH)
- HPLC(ShimadzuLC-10ATVP)
- Enraf-NoniusCAD4Diffractometer(XRD)
- GC-MS(Thermo fisher scientific)
- PXRD(PANAnalytical)
- Modeling software used:
  - TRIPOS-SYBYL(Molecular descriptors, Flexi-dock)
  - Molecular Operating Environment(MOE)
  - INSIGHT-II[ACCELRYS]
  - AUTODOCK
  - SCHRODINGER SUITE

**PUBLICATIONS****Books**

- “ChemistryofNaturalProducts”-2011,MJPPublishers,Chennai,ISBN-978-81-8094-074-3
- “Studiesonantifeedantsfrommeliaceaefamily-2011, LAMBERT Academic publishers,Germany,ISBN-978-3-8443-1258-4
- “Molecular Modeling and DrugDesign”-2009–MJPPublishers,Chennai, ISBN, 978-8-1809-4060-6

**Journals**

1. Chandrashekar, S. J.; Eswaramoorthy, R.; Solomon, K. A. Solubility Enhancement and Structural Insights into Pipemidic Acid via Salt Formation With Benzoic Acid. *Eur. J. Chem.* **2025**, *16*, 104-116
2. Geethanjali N. Karthammaiah, N.S. Venkataramanan, K. Anand Solomon, Synthesis, characterization, computational studies and biological activity of gallic acid-picolinic acid cocrystal salt hydrate, *Journal of Molecular Structure*, Volume 1336, 2025, 142056.
3. Nikita Swarnkar, Anand Solomon Kamalakaran, Jagadeesh Chintha, Naga Sai Visweswar Kambhampati, Lakshminath Sripada, Suganya Bharathi Balakrishnan, Host-guest inclusion complexes of Tafamidis with  $\beta$ -Cyclodextrin: Preparation, characterization, and in vitro antibacterial and antioxidant approach, *Journal of Molecular Structure*, Volume 1332, 2025, 141649 [Impact factor: 3.8].

4. Geethanjali N. Karthammaiah, N.S. Venkataramanan, K. Anand Solomon, Journal of Molecular Structure, Volume 1326, 5 April 2025, 141119 [Impact factor: 3.8].
5. Ramarao B.V., Kamalakaran A.S. Development and validation of an LC-MS/MS method for pharmacokinetic assessment of tucatinib in rat plasma. J Appl Pharm Sci. 2025;15(04):225-233. [Impact factor: 1.4].
6. J.C. Shwetha, K. Pruthviraj, T. Bhaskara Rao, Anand Solomon K., Assessing the structural, antibacterial and dissolution properties of 1:1 doxycycline/ $\beta$ -cyclodextrin complexes, Journal of Molecular Structure 1321 (2025) 139977 [Impact factor: 3.84].
7. Ramarao B.V., Kamalakaran A.S. A selective, sensitive and fast LC-MS/MS method for cabotegravir quantification in rat plasma and pharmacokinetic investigations. Biomed Chromatogr. Volume 38, Issue 11, November 2024, e6009 [Impact factor: 1.90].
8. Bandaru Venkata Ramarao, Anand Solomon Kamalakaran, Development and validation of a reliable and rapid LC-MS/MS method for quantification of Siponimod in rat plasma and its application to a pharmacokinetic study, Eur. Chem. Bull. 2023, 12 (Special Issue 13), 995-1004.
9. Shwetha, J.C., Sharma, A. & Solomon, K.A. Molecular salts of pipemedic acid and crystal structure, spectral properties, and Hirshfeld surface analysis. JIRAN CHEM SOC 20, 3161-3176 (2023) [Impact factor: 2.27].
10. G.N. Karthammaiah, S.R. Amaraneni and A.K. Solomon, Co-crystal of nadifloxacin with oxalic acid. Acta Cryst. (2023). E79, 319-322.
11. Murali Krishna Chaitanya M.K. Mannava, Abhijit Garai, Manish Kumar Bommaka, K. Anand Solomon and Ashwini Nangia, Solubility and permeability enhancement of BCS class IV drug ribociclib through cocrystallization, CrystEngComm, 2022, 45, 7915-7923 [Impact factor: 3.38].
12. Murali Krishna Chaitanya M.K. Mannava, Manish Kumar Bommaka, Rambabu Dandela, K. Anand Solomon and Ashwini Nangia, Fluorobenzoic acid coformers to improve the solubility and permeability of the BCS class IV drug naftopidil, Chem. Commun., 2022, 58, 5582-5585 [Impact factor: 4.3].
13. Murali Krishna Chaitanya M.K. Mannava, Anilkumar Gunnam, Anurag Lodagekar, Nalini R. Shastri, Ashwini Nangia and K. Anand Solomon, Enhanced solubility, permeability, and tabletability of Nicorandil by salt and cocrystal formation, CrystEngComm, 2021, 23, 227 [Impact factor: 3.38].
14. Katta Eswar Srikanth, A. Veeraiah, T. Pooventhiran, Renjith Thomas, K. Anand Solomon, Ch. J. Soma Raju, J. Naveena Lavanya Latha, Detailed molecular structure (XRD), conformational search, spectroscopic characterization (IR, Raman, UV, fluorescence), quantum mechanical properties and bioactivity prediction of a pyrrole analogue, Heliyon, Volume 6, Issue 6, June 2020, e04106 [Impact Factor: 1.66].
15. Naftopidil Molecular Salts with Improved Dissolution and Permeation, M.K. Chaitanya Mannava, Rambabu Dandela, Srinu Tothadi, K. Anand Solomon, Ashwini K. Nangia, Crystal Growth & Design 2020, 20, 5, 3064-3076 [Impact Factor: 4.15].
16. Molecular Adducts of Isoniazid: Crystal Structure, Electronic Properties, and Hirshfeld Surface Analysis, A.S. Kamalakaran, Journal of Structural Chemistry, December 2018, Volume 59, Issue 7, pp 1518-1533 [Impact factor: 0.51].
17. XRD, FT-IR, Electronic and Fluorescence Spectroscopic Studies of Benzothiophenesulfone-2-methanol, Katta Eswar Srikanth, K. Anand Solomon, A. Veeraiah, International journal of pure and applied researches, 2018, Vol. 1(1), PP. 05-25.
18. Norfloxacin salts of carboxylic acids curtail planktonic and biofilm mode of growth in ESKAPE pathogens. Rene Christena Lowrence, Akshaya Ramakrishnan, Niranjana Sri Sundaramoorthy, Aswin Shyama Vidhyalakshmi Mohan, Himesh.M. V. Subbarao, Venkatasubramanian Ulaganathan, Thiagarajan Raman, Anand Solomon, Saisubramanian Nagarajan, Journal of Applied Microbiology 124(2), 408-422, 2018 [Impact factor: 2.09].

19. K. Anand Solomon, Olivier Blacque, Ramanathan Venkatnarayan, Molecular salts of 2,6-dihydroxybenzoic acid (2,6-DHB) with N-heterocycles: Crystal structures, spectral properties and Hirshfeld surface analysis, *Journal of Molecular Structure* 1134 (2017) 190-198 [Impact factor: 1.70].
20. G. Sridhar, I. Mohammed Bilal, D. Easwaramoorthy, S. Kutti Rani and K. Anand Solomon, Crystal structure of 7-chloro-2,3,3a,4,9,9a-hexahydro 3,9,9-trimethyl-5-nitro-1H-cyclopenta[b]Quinolone, *International Journal of ChemTech Research*, Vol. 9, No. 06, pp 362-366, 2016.
21. G. Sridhar, I. Mohammed Bilal, D. Easwaramoorthy, S. Kutti Rani and K. Anand Solomon, Crystal structure of 3,9,9-Trimethyl-2,3,3a,4,9,9a-hexahydro-1H-cyclopenta-[b]quinolin-4-ium chloride, *Acta Cryst*, E71, o525- o526, (2015) [Impact factor: 0.347].
22. J. Satyanarayana Reddy, B.N. Vedhahari, K. Anand Solomon, Molecular Characterisation and Dissolution Profile of Solid Formulations of Metformin, *Journal of Biopharmaceutics Sciences*, Vol. 2, No. 1, 2014, 7-14, DOI:10.7508/JBS-V2-N1-7-14.
23. Satyanarayana Reddy Jaggavarapu, Anand Solomon Kamalakaran, Jagadeesh Babu Nanubolu, Venkata Prasad Jalli, Sravan Kumar Gangisetty, Gopikrishna Gaddamanugu, Direct access to novel chromeno-pyrimidine-N-oxides via tandem base catalyzed double nucleophilic addition/dehydration reaction, *Tetrahedron Letters*, Volume 55, Issue 27, 3629-3720, 2014 [Impact factor: 2.376].
24. J. Satyanarayana Reddy, K. Anand Solomon, M.R. Ganesh, Gopikrishna Gaddamanugu, Facile eco-friendly synthesis of novel chromeno [4,3-b]pyridine-2,5-diones and evaluation of their anti-microbial and antioxidant properties, *Journal of Chemical Sciences*, 2014, Volume 126, Issue 1, pp 187-195 [Impact factor: 1.298].
25. Satyanarayana Reddy Jaggavarapu, Anand Solomon Kamalakaran, Jagadeesh Babu Nanubolu, Venkata Prasad Jalli, Sravan Kumar Gangisetty, Gopikrishna Gaddamanugu, Synthesis of novel benzopyrano [3,2-c]coumarins via tandem base promoted nucleophilic substitution and intramolecular electrophilic aromatic cyclization, *Tetrahedron Letters*, Volume 55, 27, 2014, 3670-3673 [Impact factor: 2.19].
26. J. Venkata Prasad, N. Ravi Kumar, K. Anand Solomon, K. R. S. Sudar Nilaventhana, Rene Christene Lowrence, N. Saisubramanian & G. Gopikrishna, One pot synthesis of fused chromeno-pyrano-pyrimidines and evaluation of their antimicrobial activity, *Indian Journal of Chemistry-B*, Vol. 53B, March 2014, 345-351 [Impact factor: 0.648].
27. Arvind, K.; Anand Solomon, K.; Rajan, S.S., 3D-QSAR studies on Diclofenac analogues as potent Cyclooxygenase inhibitors using CoMFA and CoMSIA, *Medicinal Chemistry Research*, April 2014, Volume 23, Issue 4, pp 1789-1796 [Impact factor: 2.6].
28. Kilari Eswar, Nelli giribabu, Anand Solomon, Antidiabetic effect of  $\alpha$ -mangostin and its protective role in sexual dysfunction of streptozotocin induced diabetic male rats, *Systems Biology in Reproductive Medicine*, 2013, Vol. 59, No. 6, Pages 319-328 [Impact factor: 3.061].
29. Arvind, K.; Anand Solomon, K.; Rajan, S.S., QSAR Studies of Tetranortriterpenoids: An Analysis Through CoMFA and CPSA Parameters, *Letters in Drug Design & Discovery*, Volume 10, Number 5, p. 427-436 (10) [Impact factor: 0.845].
30. J. Satyanarayana Reddy, N. Ravikumar, Gopikrishna Gaddamanugu, K.N. Naresh, S.S. Rajan, K. Anand Solomon, Synthesis, crystal structure, spectral characterization and fluorescence studies of salts of  $\alpha$ -mangostin with APIs, *Journal of Molecular Structure* 1039 (2013) 137-143 [Impact factor: 1.404].
31. S.S. Sai Madhukar, Anand Solomon, Viswanath Das, K. Anil Kumar and S. Krupanidhi, In Silico Design of Inhibitors for  $\beta$ -Secretase: Implications for Alzheimer's Disease, *Current Trends in Biotechnology and Pharmacy*, Vol. 6 (4) 556-564, 2012, ISSN 0973-8916.
32. Venkata Prasad Jalli, Satyanarayana Reddy Jaggavarapu, Anand Solomon Kamalakaran, Sravan Kumar Gangisetty, Jagadeesh Babu Nanubolu, Gopikrishna Gaddamanugu, Direct access to novel chromeno-pyrimidine-N-oxides via tandem base catalyzed double

- nucleophilic addition/dehydration reaction, *Tetrahedron Letters*, Volume 54, 11, 2013, Pages 1491-1494 [Impact factor: 2.376].
33. Satyanarayana Reddy Jaggavarapu, Anand Solomon Kamalakaran, Gayatri Gaddamanugu, Matsyendranath Shukla, Kavita Dorai, Gopikrishna Gaddamanugu, Facile access to novel chromeno-2,6,9-trioxabicyclo[3.3.1]nonadienes via tandem nucleophilic substitution and [4+2] hetero Diels-Alder reaction: Experimental and Theoretical study, *Tetrahedron*, Volume 69, Issue 9, 2013, 2142-2149 [Impact factor: 2.899].
34. Ravikumar Nagalapalli, Satyanarayana Reddy Jaggavarapu, Venkata Prasad Jalli, Anand Solomon Kamalakaran, and Gopikrishna Gaddamanugu, Ultrasound Promoted Green and Facile One-Pot Multicomponent Synthesis of 3,4-dihydropyrano[c]chromene Derivatives, *Journal of Chemistry*, Volume 2013 (2013), Article ID 593803, 8 pages [Impact factor: 0.662].
35. N. Ravikumar, Gopikrishna Gaddamanugu, K. Anand Solomon, Structural, spectroscopic (FTIR, FT Raman) and theoretical studies of the 1:1 Cocrystal of isoniazid with p-coumaric acid, *Journal of Molecular Structure* 1033 (2013) 272-279 [Impact factor: 3.84].
36. K. Arvind, K. Anand Solomon and S.S. Rajan, in-silico interactions studies on inhibitory action of tetranortriterpenoids on actin, *Int J Pharm Bio Sci* 2012 Oct; 3(4): (B) 193-203.
37. N. Ravikumar, J. Satyanarayana Reddy, G. Gopikrishna, K. Anand Solomon, GC-MS determination of bioactive constituents of *Cycas Beddomei* cones, *Int J Pharm Bio Sci* 2012 July; 3(3): (P) 344-350 [Impact factor: 0.67].
38. Veeraiah, K. Anand Solomon, G. Gopi Krishna, J. Satyanarayana Reddy, V. Veeraiah, K. Chaitanya, Vibrational and Electronic Absorption Spectra of (Z)-2-(4-Nitrobenzylidene)-1-benzofuran-3(2H)-one, *Journal of Molecular Structure*, Volume 1026, 2012, Pages 36-43 [Impact factor: 1.404].
39. N. Ravikumar, G. Gopikrishna and K. A. Solomon, 3,3'-[(4-Nitrophenyl)methylene]bis(4-hydroxy-2H-chromen-2-one), *Acta Cryst.* (2012). E68, o265 [Impact factor: 1.172].
40. J. Satyanarayana Reddy, N. Ravi Kumar, J. Venkata Prasad, G. Gopikrishna and K. Anand Solomon, (Z)-2-(4-nitrobenzylidene)benzofuran-3(2H)-one, *Acta Cryst.* (2011). E67, o2961 [Impact factor: 1.172].
41. J. Venkata Prasad, J. Satyanarayana Reddy, N. Ravikumar, K. Anand Solomon, and G. Gopikrishna, An efficient ultrasound promoted catalyst-free protocol for the synthesis of chromeno[4,3-b]quinolin-6-ones, *J. Chem. Sci.* Vol. 123, No. 5, September 2011, pp. 673-679 [Impact factor: 1.40].
42. J. Satyanarayana Reddy, Saraswatula Viswanadha Ganesh, Ravikumar Nagalapalli, Rambabu Dandela, K. Anand Solomon, K. Anil Kumar, N. Rajesh Goud, Ashwini Nangia, Fluoroquinolones salts with carboxylic acids, *Journal of Pharmaceutical Sciences*, Volume 100, Issue 8, pages 3160-3176, 2011 [Impact factor: 3.53].
43. J. Satyanarayana Reddy, N. Ravi Kumar, J. Venkata Prasad, G. Gopikrishna and K. Anand Solomon, (Z)-2-(2-Hydroxy-4-methoxybenzylidene)-1-benzofuran-3(2H)-one, *Acta Cryst.* (2011). E67, o1330 [Impact factor: 0.347].
44. M. Prabhakar, J.S. N. Reddy, N. R. Kumar, S. V. Ganesh and K. A. Solomon, Ethyl 4-(2-furyl)-2-oxochroman-3-carboxylate, *Acta Cryst.* (2010). E66, o1310 [Impact factor: 0.347].
45. J. Venkata Prasad, Maddela Prabhakar, K. Manjulatha, D. Rambabu, K. Anand Solomon, G. Gopi Krishna, K. Anil Kumar, Efficient catalyst-free Domino approach for the synthesis of novel 2-benzazepine derivatives in water, *Tetrahedron Letters* 51 (2010) 3109-3111 [Impact factor: 2.376].
46. Kamalakaran Anand Solomon, Srinivasan Sundararajan and Veluchamy Abirami, QSAR Studies on N-aryl Derivative Activity towards Alzheimer's Disease, *Molecules* 2009, 14(4), 1448-1455 [Impact factor: 4.41].
47. G. Anitha, J. Josepha Lourdu Raj, V. Radhakrishnan, S. Narasimhan, K. Anand Solomon, S. S. Rajan, Semi-Synthetic Modification of Nimbolide to 6-Homodesacetylnimbin and 6-

- Desacetylnimbin and their Cytotoxic Studies, Journal of Asian Natural Products Research, Vol. 9, Issue 1, 73-78, 2007 [Impact factor: 1.57].
48. Anitha Genupur, Josepha Lourdu Raj Jesu, Narasimhan Srinivasan, Anand Solomon Kamalakaran, Rajan Sundararajan Sundar, Synthesis and Cytotoxicity of Novel Isomeric C-Seco Limonoids, European Journal of Medicinal Chemistry, Vol. 41, 997-1002, 2006 [Impact factor: 6.51].
  49. G. Anitha, J. Josepha Lourdu Raj, S. Narasimhan, K. Anand Solomon, S. S. Rajan, Nimbolide and Isonimbolide, Journal of Asian Natural Products Research, Vol. 8, No. 5, 445-449, 2006 [Impact factor: 0.948].
  50. K. Anand Solomon, R. Malathi, S. S. Rajan, G. Anitha, J. Josepha Lourdu Raj, S. Narasimhan, G. Suresh, Geetha Gopalakrishnan, The Isomeric Compounds--Nimbolide and Isonimbolide, Acta Crystallographica Section C, C61, 70, 2005 [Impact factor: 1.172].
  51. Anand Solomon K., Rajan S. S., Gopalakrishnan G., Kashinath V., Santhana Krishnan V. P., 8-(2-Bromo-3-Methoxy-3-Methylbutyl)-7-Methoxycoumarin, Acta Crystallographica Section C, C59, 40-41, 2003 [Impact factor: 0.492].
  52. Anand Solomon K., Malathi R., Rajan S. S., Narasimhan S. and Nethaji M., Swietenine, Acta Crystallographica Section C, C59, 1519-1521, 2003 [Impact factor: 1.172].
  53. Geetha Gopalakrishnan, Vishwanathan Kashinath, Pradeep Singh N. D., Santhana Krishnan V. P., Anand Solomon K., and Rajan S. S., Microwave Assisted Regioselective Bromomethoxylation of Alkenes Using Polymer Supported Bromine Resins, Molecules, Vol. 7, p. 412-419, 2002 [Impact factor: 4.411].
  54. V. Siva Kumar, B. Siddhartha Kumar, S. Kishore Babu, T. Suresh Kumar, R. N. Sathya Sai, A. Solomon, K. Anil Kumar, Serum Amino Acid Profile in Chronic Renal Failure, Journal of Nephrology, Vol. 8, No. 2, 52-54, 1998.
  55. S. Kishore Babu, V. Siva Kumar, Rajeev Agarwal, B. S. Kumar, A. Solomon, A. Kumar, Serum Indoxyl Sulphate in Chronic Uraemics, Indian Journal of Nephrology, Vol. 8, No. 3, 85-86, 1998.
  56. V. Siva Kumar, A. Kumar, K. Babu, A. Solomon, S. Kumar, Para-Hydroxyhippuric Acid-- An Alternative Marker of Renal Function in Chronic Renal Failure, Indian Journal of Nephrology, Vol. 6, 64-66, 1997.

## EDUCATION/PROFESSIONAL QUALIFICATIONS

5<sup>th</sup> April 2007

(2001-07)

### **Ph.D in Chemistry (Crystallography)**

Department of Crystallography & Biophysics,  
University of Madras, Guindy campus, Chennai

#### **Specialization**

Natural Product Chemistry and Crystallography

#### **Title of Thesis**

Plant to Lead Molecules—Design of Eco-friendly Bio-insecticides Using X-Ray Diffraction, Spectroscopic Techniques & Modeling Studies

22<sup>nd</sup> November 1995 **Masters Degree in Science (Honors)**

(1993-95)

Sri Sathya Sai Institute of Higher Learning (Deemed University), Puttaparthi, Andhra Pradesh

#### **Specialization: Chemistry**

#### **Dissertation**

A Phytochemical investigation of the flowers of  
Calotropis gigantea R. Br.



22<sup>nd</sup> November 1992 **Bachelors Degree in Science (Honors)**

(1990-93)

Sri Sathya Sai Institute of Higher Learning  
(Deemed University), Puttaparthi, Andhra Pradesh

**Specialization:** Chemistry

**1999–Cleared NET (Lecturership) UGC-Refno:2-40/99(i) E.U-II, ref.**

**Roll.No-10954**

## ACCOMPLISHMENTS

Senior Research Fellow (2003-2005) [CSIR]

Junior Research Fellow (2001-2003) [CSIR]

Cleared the CSIR-UGC NET exam for lectureship (2000)

## MINOR RESEARCH PROJECT

“Chemoinformatic approach in the database development of terpenoids of Phytochemical Origin” (University Funded Project - Sri Ramachandra University - 2009)

## M.Sc projects guided

1. Genestodrugs-Computer aided design of anti-tubercular agents
2. Antimalarial drug design
3. Virtual library based design of anti-obesity drugs
4. Development of anti-cancer agents through *insilico* methods
5. *insilico* modeling of inhibitors for Alzheimer's disease

## WORKSHOP

Organized a National workshop on Molecular modeling & Drug Design at Department of Bioinformatics, Sri Ramachandra University, Porur, Chennai-January 16<sup>th</sup> & 17<sup>th</sup>, 2007.

## DELIVERED

- **Guest lecture at summer school on “Bioinformatics & its Applications in Animal Health and Veterinary Research”** organized by Tamilnadu Veterinary and Animal Sciences University, Chennai (August 2<sup>nd</sup> - 22<sup>nd</sup>, 2009)
- **Invited lecture on “Molecular Modelling”**, during “Training programme on Bioinformatics & Information Technology” conducted by the Madras Veterinary College, Chennai (Jan 7<sup>th</sup> – 11<sup>th</sup>, 2008)
- **Invited Lecture in National conference on “Biosciences in innovative Health Care”** conducted by Sri Sathya Sai University, Puttaparthi, (Feb 2 - 2008)
- **Guest Lectures on “insilico Drug design Methodology”** at, Department of Bioinformatics, Sri Venkateshwara University, Tirupathi (December 20<sup>th</sup> - 27<sup>th</sup>, 2007)
- **Invited Lecture in conference on Integrated Approach to Herbal Technology on “Bioinformatics & Herbal Medicine”** organized by Asthagiri Herbal Research Foundation, Chennai (January 4<sup>th</sup> & 5<sup>th</sup> - 2013)

## PROFESSIONAL MEMBERSHIPS

Indian Association of Crystallography