CONTACT DETAILS:

Dr. SANDEEP SWARGAM

Assistant Professor, Centre for Computational Biology and Bioininformatics,

Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, Kangra, Himachla Pradesh-176206

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ACADEMIC QUALIFICATIONS:

Ph.D in Bioinformatics from SVIMS University, Tirupati, AP, India.

M.Sc in Bioinformatics from SVIMS University, Tirupati, AP, India.

B.Sc in Microbiology from Osmania University, Telangana, India.

POSITIONS HELD:

- **2021-2022** worked as Bioinformatics Specialist at INSACOG, IDSP, **NCDC**, **MoHFW**, **Govt of India** on **COVID surveillance and Genomic analysis**
- **2019-2021** worked as Project Scientist-B at Jamia Hamdard Institute of Molecular Medicine, Jamia Hamdard University, New Delhi
- **2017-2018** worked as Research Associate at Animal Biotechnology Centre (ABTC), National Dairy Research Institute (NDRI), Karnal, Haryana
- **2014-2017** worked as Senior research fellow (ICMR-SRF) at Bioinformatics Centre, SVIMS University, Tirupati and Andhra Pradesh India
- **2010-2011** worked as DBT-Bioinformatics Traineeship at Bioinformatics Centre, SVIMS University, Tirupati, Andhra Pradesh.

SPECIALISATION:

Structural Bioinformatics, Next-Generation Sequencing analysis and Pipeline Development

RESEARCH INTEREST:

Computer-aided drug design, Developing databases for specific targeted diseases, Medical informatics, NGS research, and AI/ML.

TEACHING: Bioinformatics, Computer-aided drug designing, Basic Computer Programming languages, Medical Informatics, NGS analysis.

AWARDS

- Received and utilized **Travel Grant from DST-International** and attended the Albany2015: The 19th conversation in State University of New York, USA.
- Selected **for International Travel Grant from ICMR**.

- ICMR-SRF
- Best poster award received in the National Conference Organized by SPMVV University, Tirupati, and A.P. India.
- Best poster award received in the National Seminar on TRendys in Biochemistry, organized by Acharya Nagarjuna University, Guntur, and A.P. India

PUBLICATIONS

1. Khan NS, Pradhan D, Choudhary S, **Swargam S**, Jain AK, Poddar NK. The interaction analysis between human serum albumin with chlorpyrifos and its derivatives through sub-atomic docking and molecular dynamics simulation techniques. 3 Biotech. 2022 Oct;12(10):272. doi: 10.1007/s13205-022-03344-7.

2. Sahoo R, Sahu P, **Swargam S**, Kumari I, Behera B. Repurposing small molecules of Tephrosia purpurea against SARS-CoV-2 main protease. J Biomol Struct Dyn. 2022 Aug 18:1-12. doi: 10.1080/07391102.2022.2112616.

3. Swargam S, Kumari I, Kumar A, Pradhan D, Alam A, Singh H, Jain A, Devi KR, Trivedi V, Sarma J, Hanif M, Narain K, Ehtesham NZ, Hasnain SE and Ahmad S (2022) MycoVarP: Mycobacterium Variant and Drug Resistance Prediction Pipeline for Whole-Genome Sequence Data Analysis. Front. Bioinform. 1:805338. (doi: 10.3389/fbinf.2021.805338).

4. Prachi P. Parvatikar, **Sandeep S** et al., (2021). "Screening, development of Transglutaminase-2 Inhibitors and its derivative as anti-lung cancer agent by *in-silico* and *in vitro* approach". Current Computer-Aided Drug Design (DOI: 10.2174/1573409917666210322120350).

5. Hema K, **Sandeep S**, Pradeep N and Umamaheswari A (2019). In silico identification of leads targeting Interleukin-6 against the pathogenesis of atherosclerosis. Journal of Biomolecular Structure and Dynamics.; 37(supplement 1): 32-33, IF: 2.3

6. Pradeep N, Sudheer Kumar K, Umamaheswari A, Munikumar M, **Sandeep S**, Hema K, Praveen Kumar G and Mukesh Kumar G (2019). Scaffold hopping strategy on the route discerning novel Glutathione peroxidase agonists. Journal of Biomolecular Structure and Dynamics.; 37(supplement 1): 42-43, IF: 2.3.

7. Ravina Madhulitha N, Pradeep N, **Sandeep S**, Hema K, Chiranjeevi P, Sudheer Kumar K and Umamaheswari A (2017) E-Pharmacophore Model Assisted Discovery of Novel Antagonists of nNOS. Biochemistry and Analytical Biochemistry; 6(1): 1-9.

8. Hema K, **Sandeep S**, Pradeep N and Umamaheswari A (2016) Identification of Effectual Inhibitors against Human Insulin-like Growth Factor Binding Protein-2. Journal of Informatics and Data Mining; 2(1): 1-10.

9. **Sandeep S**, Hema K, Pradeep N, Suchitra MM, Rajeswari J and Umamaheswari A (2016) Molecular docking and dynamic studies of human growth factor receptor-bound protein (Grb) 2 insights to identify novel inhibitors. The Journal of Clinical and Scientific Research; 5(4): 252-258.

10. Chiranjeevi P, **Sandeep S**, Pradeep N, Hema K, Sudheer Kumar K, Ravina Madhulitha N and Umamaheswari A (2016) Inhibitor Design for VacA Toxin of Helicobacter pylori. Journal of Proteomics & Bioinformatics.; 9(9): 220-225.

11. **Sandeep S**, Hema K, Pradeep N, Suchitra MM, Rajeswari J and Umamaheswari A (2016) Ligand-based 3D-QSAR approach of EGFR. International Journal of Computational science, Mathematics and Engineering - Special Issue on Computational Science, Mathematics and Biology. IJCSME-SCSMB-16-March-2016. Doi: 10.18645/IJCSME/SPB.0004.

12. Sudheer Kumar K, Pradeep N, **Sandeep S**, Hema K, Chiranjeevi P and Umamaheswari A (2016) Inhibitor design against JNK1 through e-pharmacophore modeling docking and molecular dynamics simulations. Journal of Receptors and Signal Transduction; 36(6) : 558-571.

13. Hema K, **Sandeep S**, Pradeep N and Umamaheswari A (2016) In silico agonist for human extracellular superoxide dismutase SOD3. Online Journal of Bioinformatics; 17(1): 29-40.:

14. Pradeep N, **Sandeep S**, Hema K, Vengamma B and Umamaheswari A (2015) E-Pharmacophore Based Virtual Screening to Identify Agonist for PKA-Cα. Biochemistry & Analytical Biochemistry.; 4(4): 1-10.

15. Pradeep N, Munikumar M, **Sandeep S**, Hema K, Sudheer Kumar K. and Umamaheswari A. (2015) Combination of e-pharmacophore modeling, multiple docking strategies and molecular dynamic simulations to discover of novel antagonists of BACE1. Journal of Biomolecular Structure and Dynamics; 33 (supplement 1): 129-130.

16. Hema K, Vani Priyadarshini I, **Sandeep S**, Pradeep N, Chiranjeevi P. and Umamaheswari A. (2015) Subunit vaccine design against pathogens causing atherosclerosis. Journal of Biomolecular Structure and Dynamics; 33 (supplement 1): 135-136.

17. **Sandeep S**, Pradhan D, Pradeep N, Hema K, Siva Krishna V. and Umamaheswari A. (2015) Structure guided novel lead molecules against ERK proteins: application of multiple docking and molecular dynamics studies. Journal of Biomolecular Structure and Dynamics; 33 (supplement 1): 134-135.

18. **Sandeep S**, Priyadarshini I.V, Pradhan D, Munikumar M and Umamaheswari A. Docking and molecular dynamics simulations studies of human protein kinase catalytic subunit alpha with antagonist. Journal of Clinical and Scientific Research, 2012; 1(1):15-23.

19. Pradeep N, Priyadarshini IV, Pradhan D, Munikumar M, **Sandeep S**, Hema K, Vengamma B and Umamaheswari A (2016) E-pharmacophore-based virtual screening to identify GSK-3β inhibitors Journal of Receptors and Signal Transduction.; 36(5): 445-458.

20. Hema K, Priyadarshini V, Pradhan D, Munikumar M, **Sandeep S**, Pradeep N, Suchitra MM, and Umamaheswari A. (2015) Identification of Putative Drug Targets and Vaccine Candidates for Pathogens Causing Atherosclerosis. Biochemistry & Analytical Biochemistry; 4(2): 1-9.

21. Narasimhulu N, Priyadarshini I.V, **Sandeep S**, Umamaheswari A. (2015) Identification of Novel Inhibitor Molecules for Choloylglycine Hydrolase of Enterococcus faecalis. International Journal of Scientific and Engineering Research; 6(2): 192-199.

22. Pradeep N, **Sandeep S**, Hema K, Umamaheswari A. (2014) E-Pharmacophore based virtual screening to identify lead molecules for GSK-3β induced Alzheimer's disease. J Clin Sci Res.; 3 (Suppl 1):S33.

23. Chiranjeevi P, **Swargam S**, Pradhan D, Umamaheswari A. (2014) In silico design of novel leads against p55 protein domain of VacA toxin. J Clin Sci Res; 3 (Suppl 1):S45.

24. Priyadarshini I.V, Pradhan D, Munikumar M, **Swargam S**, Umamaheswari A* and Rajasekhar D. (2014) Genome-based approaches to develop epitope-driven subunit vaccines against pathogens of infective endocarditis. Journal of Biomolecular Structure and Dynamics, DOI:10.1080/07391102.2013.79587.

25. Pradhan D, Priyadarshini I.V, Munikumar M, **Swargam S**, Umamaheswari A* and Aparna B (2014). Para-(benzoyl)-phenylalanine as a potential inhibitor against LpxC of Leptospira spp.: Homology modeling, docking and molecular dynamics study. Journal of Biomolecular Structure and Dynamics; 32(2), 171-185.

26. Mobeen A, Priyadarshini I.V, Pradhan D, Munikumar M, **Swargam S**. and Umamaheswari A. (2013) Identification of potent inhibitors for β-secretase through

structure based virtual screening and molecular dynamics simulations. Journal of Clinical and Scientific Research; 14(1):32-50.

27. Priyadarshini I.V, Pradhan D, Munikumar M, **Swargam S**. Umamaheswari A. and Rajasekhar D (2013) Molecular modeling, docking and dynamics studies of biotin carboxyl carrier protein of acetyl-CoA carboxylase to discover potential inhibitors. Journal of Clinical and Scientific Research; 2(2):72-80.

28. Priyadarshini I.V, Pradhan D, Munikumar M, **Swargam S**. and Umamaheswari A. (2013) Structure-based virtual screening towards identification of potential FabH inhibitors. Journal of Biomolecular Structure and Dynamics.31:sup1, 113-114.

29. Pradhan D, Priyadarshini I.V, Munikumar M, **Swargam S**. and Umamaheswari A. (2013) Discovery of potent KdsA inhibitors of Leptospira interrogans through homology modeling, docking, and molecular dynamics simulations. Journal of Biomolecular Structure and Dynamics.31:sup1, 105.

30. Munikumar M, Priyadarshini I.V, Pradhan D, **Swargam S**. and Umamaheswari A. (2013) T-cell vaccine design for Streptococcus pneumoniae: an in silico approach. Journal of Biomolecular Structure and Dynamics.31:sup1, 114-115.

31. Priyadarshini I.V, Pradhan D, Munikumar M, **Swargam S**, Umamaheswari A and Rajasekhar D. (2013) In Silico drug targets for infectious endocarditis. Online Journal of Bioinformatics14 (1):32-50.

32. Munikumar M, Priyadarshini I.V, Pradhan D, **Swargam S**, Umamaheswari A and Vengamma B (2012) In Silico Identification of common putative drug targets among the pathogens of bacterial meningitis. Biochemistry and Analytical Biochemistry (OMICS Publishing Group)1: 8.doi:10.4172/2161-1009.1000123.

33. Navya P, Hema K, Munikumar M, **Swargam S** and Umamaheswari A. (2012) Molecular docking of a beta-2-microglobulin drug target. Online Journal of Bioinformatics13 (1):93-201.

FUTURE BOOK:

1. Editor in a book entitled, “Systems Biology, Bioinformatics and Livestock Science”

Link for the book:

https://benthambooks.com/future-books-by-subject/life-sciences/sub-category/systems-biology-bioinformatics/

CONFERENCE PAPERS –46

(As presenting author – 10 and co-author – 36)

1. **Sandeep S**, et al. In silico investigation of potent leads for MEK was presented, awarded as the best poster and published in the National Conference on Cutting edge Innovations and Future Prospects of Biotechnology, Department of Biotechnology, SPMVV, Tirupati, A.P. India from 27th to 28th February, 2017 (Best Poster Award).
2. **Sandeep S**, et al. In silico discovery of H-Ras inhibitors was presented and published in the 104th Indian Science Congress, Sri Venkateswara University, Tirupati, India From 03rd to 07th January, 2017.
3. **Sandeep S**, et al. Ligand based 3D-QSAR approach of EGFR was presented and published in the International Conference on Computational, Mathematical and Biological Modelling (ICCMBM16), Departments of Computer Science, Applied Mathematics and Sericulture, SPMVV University, Tirupati, India from 25th to 26th March, 2016 (Best Poster Award).
4. **Sandeep S**, et al. Exploration of novel inhibitors for B- Raf…. was presented in the National Seminar on Drug Discovery and Cancer Therapy, Department of Biochemistry and Molecular Biology, Pondicherry University, Pondicherry, Kalapet 605014, India from 25th to 26th February, 2016.
5. **Sandeep S**, et al. Systematic molecular docking and dynamic studies of Grb-2 …. was presented in the International Conference on Emerging Biotechnologies, Department of Biotechnology, Kakatiya University, Warangal, Telangana, India from 28th to 30th January, 2016.
6. **Sandeep S**, et al. Structure guided novel lead molecules against ERK proteins … was presented in the International Conference of Albany 2015: The 19th Conversation, Departments of Chemistry and Biological Sciences, State University of New York, Albany from 09th to 13th June, 2015.
7. **Sandeep Swargam,** et al. Ligand-based, 3D-QSAR analysis and molecular docking studies EGFR was presented as Poster in the APAS golden jubilee science congress, 2014, CSIR-IICT, Tarnaka, and Hyderabad, from 13th-15th November, 2014.
8. **Sandeep S,** Rajeswari J and Umamaheswari A. Exploration of potential EGFR inhibitors: … was presented awarded as the best poster in the National Seminar on TRendys in Biochemistry, 2014, Department of Bio-Chemistry, Acharya Nagarjuna University, and Guntur from 17th-18th October, 2014.

9. **Sandeep S,** Mahesh K and Umamaheswari A. Computer aided drug design studies to explore novel antagonist of human myotrophin, was presented in international conference on updates on protein drug discovery, formulation and production challenges, IPT, SPMVV (Women`s University) TIRUPATI, From 28 to 29 October 2011.
10. **Sandeep S**, Pradhan D. and Umamaheswari A. Identification of Potent Leads for Human cAMP Dependent Protein Kinase Catalytic Subunit Alpha…, was presented in International Conference on Recent Advances in Bioinformatics; from 3-5, September 2010, organized by Kalinga Institute of Industrial Technology, Bhubaneswar.

PAPER /POSTER PRESENTATIONS AS CO-AUTHOR - 36

11. Pradeep N., Sharon Alexander Priya., Sudheer Kumar K., **Sandeep S**., Hema K., Vengamma B and Umamaheswari A. E-pharmacophore based approach to identify potential APOE4 antagonists was presented and published in the National Conference on Cutting edge Innovations and Future Prospects of Biotechnology Organized by Department of Biotechnology, SPMVV, Tirupati, A.P. India From 27th to 28th February, 2017.
12. Pradeep N., Sudheer Kumar K., **Sandeep S**., Hema K., Vengamma B and Umamaheswari A. Design potential Gamma Secretase antagonists with core hopping approach was presented, awarded as the best poster and published in the National Conference on Current Challenges in Drug Discovery and Development Organized by Institute of Pharmaceutical Technology, SPMVV, Tirupati, A.P. India From 06th to 07th February, 2017.
13. Hema K., **Sandeep S**., Pradeep N., Chiranjeevi P., Suchitra MM and Umamaheswari A. Identification of effectual inhibitors against lpxA through multiple docking strategies and molecular dynamics simulations: a novel in silico approach was presented and published in the National Conference on Current Challenges in Drug Discovery and Development Organized by Institute of Pharmaceutical Technology, SPMVV, Tirupati, A.P. India From 06th to 07th February, 2017.
14. **Sandeep S**., Sudheer Kumar K., Hema K., Pradeep N., Suchitra MM., Rajeswari J and Umamaheswari A. Discovery of novel inhibitors for C-Raf through energy optimized structure based pharmacophore molecular docking and dynamics studies was presented and published in the National Conference on Trends in Cancer Research Under One Health Concept Organized by Department of Veterinary Surgery and Radiology, College of Veterinary Science, SVVU, Tirupati, A.P. India From 04th to 06th February, 2017.
15. Hema K., **Sandeep S**., Pradeep N., Suchitra MM and Umamaheswari A. Discovery of novel antagonists for rho through in silico approach was presented and published in the 104th

Indian Science Congress Organized by Sri Venkateswara University, Tirupati, India From 03rd to 07th January, 2017.

16. Pradeep N., Sudheer Kumar K., **Sandeep S**., Hema K., Vengamma B and Umamaheswari A. Virtual screening and core hopping to identify novel agonist for glutathione peroxidase was presented and published in the 104th Indian Science Congress Organized by Sri Venkateswara University, Tirupati, India From 03rd to 07th January, 2017.
17. Pradeep N., Sudheer Kumar K., **Sandeep S**., Hema K., Vengamma B and Umamaheswari A. Virtual screening and core hopping to identify novel agonist for glutathione peroxidase-2 was presented and published in the International Conference on Environmental Conservation and Human Health - Challenges and Strategies (ICECH-2016) Organized by Department of Zoology, Sri Venkateswara University, Tirupati, in assocition with Association of Biotechnology and Pharmacy, India From 21st to 23rd December, 2016.
18. Hema K., **Sandeep S**., Pradeep N and Umamaheswari A. Discovery of Novel Antagonist for mra Y through Bioinformatics Approach was presented and published in the National Conference of First Andhra Pradesh Science Congress on Science for Smart Technologies organized by SVU and SPMVV, Tirupati, A.P., India From 27th to 29th January, 2016
19. Pradeep N., Munikumar M., **Sandeep S**., Hema K., Vengamma B and Umamaheswari A. E-pharmacophore mapping, molecular docking and dynamics simulations to propose potential inhibitors of CDK5 was presented and published in the National Conference on 7th Annual Meeting of Proteomic Society, India organized by CBST, VIT University, Vellore, T.N., India From 03rd to 06th December, 2015.
20. Chiranjeevi P., **Sandeep S**., and Umamaheswari A. Structure-based inhibitor design towards vacA toxin of H. pylori was presented and published in the National Conference on Bioinformatics Panaroma in Agriculture and Health (NCBPAH-2015) organized by Society of Bioinformatics and Department of Computational Biology and Bioinformatics, Jacob School of Biotechnology and Bioengineering, Sam Higginbottom Institute of Agriculture Technology and Sciences (SHIATS), Allahabad-211007, U.P., India From 05th to 06th October, 2015.
21. Pradeep N., Munikumar M., **Sandeep S**., Hema K., Sudheer Kumar K. and Umamaheswari A. Combination of e-pharmacophore modeling, multiple docking strategies and molecular dynamic simulations to discover of novel antagonists of BACE1 was presented and published in the International Conference of Albany 2015: The 19th Conversation organized by Departments of Chemistry and Biological Sciences, State University of New York, Albany From 09th to 13th June, 2015.

22. Hema K., Vani Priyadarshini I., **Sandeep S**., Pradeep N., Chiranjeevi P. and Umamaheswari A. Subunit vaccine design against pathogens causing atherosclerosis was presented and published in the International Conference of Albany 2015: The 19th Conversation organized by Departments of Chemistry and Biological Sciences, State University of New York, Albany from 09th to 13th June, 2015.
23. Narasimhulu N, Priyadarshini V, **Sandeep S** and Umamaheswari A. Identification of novel inhibitor molecules for choloylglycine hydrolase of Enterococcus faecalis was published and presented as Poster presentation on UGC-SAP sponsored National Conference on Innovations in Microbial World NCIMW-2015 with special session on University industry linkage, Dept. of Applied Microbiology, Sri Padmavathi Mahila Visvavidyalayam, Tirupati, AP from 23-24th January 2015.
24. Priyadarshini V, Pradhan D, Munikumar M, **Sandeep S**, Pradeep N, Hema K, Umamaheswari A and Rajasekhar D. Discovery of potent RNA polymerase sigma-70 factor inhibitors against the pathogens causing infective endocarditis through molecular modeling, docking and dynamics simulations was presented in Annual National Conference of Indian College of Cardiology (ICCCON 2014) From 19th-21st September 2014.
25. Priyadarshini V, Pradhan D, Munikumar M, **Sandeep S**, Pradeep N, Hema K and Umamaheswari A. Molecular modeling, docking and dynamic studies to identify potent Infc inhibitors for pathogens causing infective endocarditis was Published and presented as Poster presentation in National Seminar on Present Status and Future Prospects of Modern Biotechnology and Their Applications (PSFPMBA.2014), Department of Biotechnology School of Herbal Studies & Naturo Sciences, Dravidian University From 27th-29th March 2014 and received young scientist award.
26. Natarajan Pradeep, **Sandeep Swargam**, Kanipakam Hema and Amineni Umamaheswari. E-Pharmacophore based virtual screening to identify lead molecules for GSK-3β induced Alzheimer's disease was published and presented as Oral presentation in 5th National seminar on Bioinformatics organized by Department of Bioinformatics, SVIMS University, Tirupati, from 14th -15th February, 2014.
27. Pasala Chiranjeevi, **Sandeep Swargam**, Dibyabhaba Pradhan and Amineni Umamaheswari. In silico design of novel leads against p55 protein domain of VacA toxin was published and presented as Poster in 5th National seminar on Bioinformatics organized by Department of Bioinformatics, SVIMS University, Tirupati, from 14th -15th February, 2014.
28. Munikumar M, Priyadarshini I.V., Pradhan D, **Sandeep S**, Pradeep N, Hema K, and Umamaheswari A. Discovery of potential lead molecules for lumazine synthase through

different docking strategies was published and presented as Oral presentation in International conference on Biotechnology and Human welfare organized by SASTRA University, TN, from 6th -8th December, 2013.

29. Pradhan D., Priyadarshini I.V., Munikumar M., **Sandeep S**. and Umamaheswari A. Multiple Docking Strategies, Prime/MM–GBSA Calculations and Molecular Dynamics Simulations for Lead Discovery against Leptospira interrogans was presented at Recent advances in computational drug design IISC Bangalore From 16th and 17th September 2013.
30. Priyadarshini I.V., Pradhan D., Munikumar M., **Sandeep S**. and Umamaheswari A. Genome-based approaches to develop epitope-driven subunit vaccines against pathogens of infective endocarditis were presented at Albany 2013: The 18th Conversation State University of New York, Albany NY USA from 11th to 15th June 2013.
31. Pradhan D., Priyadarshini I.V., Munikumar M., **Sandeep S.** and Umamaheswari A. Structure-based virtual screening towards identification of potential FabH inhibitors was presented at Albany 2013: The 18th Conversation State University of New York, Albany NY USA From 11th to 15th June 2013.
32. Munikumar M., Priyadarshini I.V., Pradhan D., **Sandeep S.** and Umamaheswari A. T-cell vaccine design for Streptococcus pneumoniae: an in silico approach was presented at Albany 2013: The 18th Conversation State University of New York, Albany NY USA From 11th to 15th June 2013.
33. Hema K., Munikumar M., Priyadarshini I.V., Pradhan D., **Sandeep S.** and Umamaheswari A. Prediction of agonists to human extracellular superoxide dismutase 3 was presented at at computer aided drug design, Bioinformatics center, SVIMS University, Tirupati From 15th and 16th February 2013.
34. Priyadarshini I.V., Pradhan D., Munikumar M., **Sandeep S**., Pradeep N., Hema K and Umamaheswari A. Discovery of potent Accd inhibitors for the pathogens of infective endocarditis through homology modeling, docking, molecular dynamics simulations was presented at computer aided drug design, Bioinformatics center, SVIMS university, Tirupati From 15th and 16th February 2013.
35. Umamaheswari A., Munikumar M., Priyadarshini I.V., Pradhan D., Sandeep S., Pradeep N., Hema K and Vengamma B. Computational approaches to identify common subunit vaccine candidates against bacterial meningitis was presented (oral) and published in International Conference on Environment impact on human health and therapeutic challenges organized by Dept. of virology, SV University, AP, India. From 20 to 22 December 2012.

36. Priyadarshini I.V., Pradhan D., Munikumar M., **Sandeep S**., Pradeep N., Hema K and Umamaheswari A. Molecular modeling, docking and dynamics studies of DNA topoisomerase IV to discover potential inhibitors was presented and published in International Conference on Environment impact on human health and therapeutic challenges organized by Dept. of virology, SV University, AP, India. From 20 to 22 December 2012.
37. Pradhan D., Priyadarshini I.V., Munikumar M., **Sandeep S**., Pradeep N., Hema K., Umamaheswari A and Vengamma B. A Discovery of potent MurC inhibitor of Leptospira interrogans through structure based drug designing was presented and published in International Conference on Environment impact on human health and therapeutic challenges organized by Dept. of virology, SV University, AP, India. From 20 to 22 December 2012.
38. Munikumar M., Priyadarshini I.V., Pradhan D., **Sandeep S**., Pradeep N., Hema K., Umamaheswari A and Vengamma B. In silico identification of common putative drug targets among the pathogens of bacterial meningitis was presented and published in International Conference on Environment impact on human health and therapeutic challenges organized by Dept. of virology, SV University, AP, India. From 20 to 22 December 2012.
39. Vani Priyadarshini I.V., Pradhan D, Munikumar M, **Sandeep S**, Pradeep N, Hema K and Umamaheswari A. In silico identification of potential inhibitors against acetyl-coA carboxylase, biotin carboxyl carrier protein associated with infective endocarditis was presented and published in National conference on pharmaceutical industry and academic partnership-for professional excellence organized by Sri Padmavathi Mahila Visvavidyalayam (Women's University) Tirupati, From 5 and 6 October 2012.
40. Sandhya A., **Sandeep S** and Umamaheswari A. Identification of novel agonist for human apolipoprotein A-1 using structure based virtual screening was presented and published in National conference on pharmaceutical industry and academic partnership-for professional excellence organized by Sri Padmavathi Mahila Visvavidyalayam (Women's University) Tirupati, From 5 and 6 October 2012.
41. Tejaswi G., **Sandeep S** and Umamaheswari A. Structure based virtual screening to design novel activators for human HCFII involved in cardiovascular diseases was presented and published in Advanced Biopharmaceutical Strategies-A Regulatory Perspective (ABS 2012)organized by Sree Vidyanikethan College of Pharmacy, Tirupati, Rangampet , From 13 and 14 July 2012.
42. Priyadarshini I.V., Pradhan D., MuniKumar M., **Sandeep S** and Umamaheswari A. Genome-based approaches to develop epitope-driven subunit vaccines against infective endocarditis was presented and published in National Seminar on Emerging Trends in Biotechnology:

Challenges and Opportunities organized by Dravidian University, Kuppam, From 13 and 15 March 2012.

43. Pradhan D., Priyadarshini I.V., MuniKumar M., **Sandeep S** and Umamaheswari A. Homology modeling, docking and molecular dynamics simulations for designing potential inhibitors against KDO-8-phosphate synthase of Leptospira interrogans , was presented and published in National Symposium on Bioinformatics: Bioinformatics: Challenges in the post-genomic era organized by University of Jammu, Jammu, on 2 December 2012.
44. Priyadarshini IV, Pradhan D, Munikumar M, **Sandeep S** and Umamaheswari A. Homology modeling, docking and molecular dynamics simulations revealed potential inhibitors of Legionella pneumophilla MurB reductase, was presented in 3rd National seminar on Computer aided drug design, organized by Bioinformatics centre, SVIMS University, Tirupati, From 29th-30th, December 2011.
45. Reshma B., **Sandeep S** and Umamaheswari A. Homology modeling and docking studies to explore the novel drug for monocyte differentiation antigen CD14, was presented and published in International conference on updates on protein drug discovery, formulation and production challenges, organized by Institute Of Pharmaceutical technology, SPMVV (Women`s university) TIRUPATI, From 28 to 29 October 2011.
46. Hema K., Giribabu S., **Sandeep S** and Umamaheswari A. Prediction of novel inhibitors for human RNase1 involved in cardiovascular disease through in silico screening, was presented (oral) and published in National Seminar on Emerging Trends in Biotechnology & Annual Meeting of Society for Biotechnologists, September 24-26, Acharya Nagarjuna University, Guntur, A.P.

ROLE AS A REVIEWER IN JOURNALS:

1. PLOS ONE
2. Journal of Cancer Research and Therapeutics
3. Infection, Genetics and Evolution
4. Journal of Biomolecular Structure and Dynamics

PROFILE LINK:

1. https://orcid.org/0000-0002-7311-2551
2. https://www.researchgate.net/profile/Sandeep-Swargam
3. https://scholar.google.com/citations?user=h38NgyoAAAAJ&hl=en&oi=ao