Dr. D.Y. Patil Vidyapeeth's
Dr. D. Y. Patil Biotechnology And Bioinformatics Institute, Pune.

Dr. K.V Swamy

Designation: Asst. Professor

E mail id : k.swamy@dpu.edu.in

Phone: 020-65101870/71

Qualification: M.Sc., Ph.D.

Area of Specialization: Structural Bioinformatics, Protein - Drug interaction, drug design, Protein modeling, Molecular modeling, Molecular dynamics and simulations

Academic Qualification

Ph.D. (Biochemistry) (2010) Sri Krishnadevarya University, Anantapur, Andhra Pradesh, India Thesis Title: "*Computer aided Drug (CADD) design studies on Human histamine H2 Receptor* "

M.Sc. (Biochemistry.) (2003) Sri Krishnadevarya University, Anantapur, Andhra Pradesh, India

B.Sc. (Biochemistry.) (2000) Sri Krishnadevarya University, Anantapur, Andhra Pradesh, India

Professional Experience:

Asst. Professor (Jan 2015 onwards): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Pune.

Officer, Lab Administration (Nov, 2013 Aug 2014) Thyrocare Technologies Limited, Navi Mumbai, India

Head and Asst. Professor (**June, 2007 to October, 2013**).Department of Biotechnology and Bioinformatics, Dr.D.Y.Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Pune

Visiting faculty: Jaffna University, Sri Lanka
Awards: Young Scientist Award, by ICMPHP, George Washington, USA on September 8, 2012

Reviewer for International Journals

1. **Journal of Molecular modeling.**
2. **Interdisciplinary Sciences: Computational Life Sciences**
3. **Journal of Molecular modeling and Graphics**

Research projects guided to students: 34

Protein structures deposited to Protein Model Data Base: 32

Trainings

1. 2004 National workshop on Bio-computing tools (Bioinformatics) conducted by Kuvempu university, shimoga, Karnataka on 25th Oct, 2004

2. National workshop on Molecular modeling and drug designing using Tripos (Sybil software) conducted by Department of Genetics, Osmania University, Hyderabad on 9th Feb, 2005.
3. National workshop on Genome and Proteome analysi conducted by Dept. of Biochemistry, Sri Krishnadevaraya University, Anantapur, Andhra Pradeesh, India, on 21st Mar, 2005.

Invited Speaker

1. "Application of Structural Bioinformatics to Drug design and Discovery" on the account of 7th National workshop conducted by Department of Biochemistry, Sri Krishnadevaraya University, Anantapur, Andhara Pradesh, India on March 19-20th, 2011.
2. "Structural Bioinformatics" on the account of National Seminar conducted by Arts and Science College, Dandeli, Karnataka, India on Feb 12th, 2010.

Poster presentations at international level seminars

1. Oral presentation on " Molecular modeling and docking studies on curcumin and curcumin analogs with cyclooxygenase-2" at 4th International conference on Medicinal plants and Medicinal herbs, Johns Hopkins University, Washington, USA, 6-8th Sepetember, 2012
2. Poster presented on "**Homology modeling of D-alanine D-alanine lingase of *M.* tuberculosis CDC 1551"** at Osmania university, Hyderabad, Andhra Pradesh on 9th January, 2006
3. Poster presented on "**Homology modeling of Human histamine H2 receptor and Docking studies"** at AIIMS, New Delhi on 1st March, 2006
4. Poster presented on **"Homology modeling of Plasmodium Vivax protein phophatase V and validation of the structure'** at S.V. University, Tirupathi, Andhra Pradesh on 25th November, 2007.

National workshop/seminar

1) National workshop on **Biocomputing tools** (Bioinformatics) conducted by Kuvempu university, shimoga, Karnataka on 25 -10-2004
2) National workshop on **molecular modeling and drug designing using tripos (sibyl software)** conducted by department of genetics, Osmnia university, Hyderabad on 9 – 02-2005.
3) Second National workshop on **Genome and Proteome analysis** conducted by Dept. of biochemistry, Sri Krishnadevaraya university, Anantapur, Andhra Pradesh on 21 -03-2005.

Publications : 18

International: 17
National: 01

International Publications: 17

1) Prasad Dandawate, Kiranmayi Vemuri, **K. Venkateswara Swamy**, Ejazuddin M. Khan, Manjula Sritharan, Subhash Padhye (2014) Synthesis, characterization, molecular docking and anti-tubercular activity of Plumbagin-Isoniazid Analog and its β-cyclodextrin conjugate. *Bioorganic & Medicinal Chemistry Letters*, 24(21):5070-5075 *(***Impact factor 2.65**)

2) P Sharma. P Patil, N Rao, **K V Swamy**, M.B khetmalas, G D Tandon (2014). Mapping Biodiversity of Indigenous Freshwater Chlorophytes. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 5(3): 1632-1639 **(Impact factor 0.35)**

3) Prasad Dandawate, Aamir Ahmad, Jyoti Deshpande, K Venkateswara Swamy, Ejazuddin M Khan, Madhukar Khetmalas, Subhash Padhye, Fazlul Sarkar (2014).Anticancer phytochemical analogs 37: Synthesis, characterization, molecular docking and cytotoxicity of novel plumbagin hydrazones against breast cancer cells. *Bioorganic & Medicinal Chemistry Letters*, 24: 2900-2904 *(***Impact factor 2.65**)

4) Shibnath Ghataka, Alok Vyas, Suniti Misra, Paul O'Briend, Ajit Zambre, Victor M. Fresco, Roger R. Markwald, **K. Venkateshwara Swamy**, Zahra Afrasiabif, Amitava Choudhury, Madhukar Khetmalas, Subhash Padhye. (2013) Novel di-tertiary-butyl phenylhydrazones as dual cyclooxygenase-2/5-lipoxygenase inhibitors: synthesis, COX/LOX inhibition, molecular modeling, and insights into their cytotoxicities. *Bioorganic & Medicinal Chemistry Letters*, 24: 317-324 *(***Impact factor 2.65**)

5) Siddiqui A, Dandawate P, Rub R, Padhye S, Aphale S, Moghe A, Jagyasi A, **Venkateswara Swamy K**, Singh B, Chatterjee A, Ronghe A, Bhat HK. (2013) Novel Aza-resveratrol analogs: Synthesis, characterization and anticancer activity against breast cancer cell lines. *Bioorganic & Medicinal Chemistry Letters*, 23: 635–640 *(***Impact factor 2.978**)

6) Y. Nanda Kumar, K. Kalpana, **K. Venkateswara Swamy**, P.V.G.K.Sarma,M. Bhaskar (2012) Molecular dynamics simulations of mody2 mutated glucokinase structures revealed significant conformational variations explaining reasons for hyperglycemic condition, International Journal of Pharma and Bio Sciences, 493 - 499.

7) Dipti Shingnapurkar, Prasad Dandawate, Christopher E. Anson, Annie K. Powell, Zahra Afrasiabi, Ekkehard Sinn, Sheetal Pandit, **K. Venkateswara Swamy**, Scott Franzblau, Subhash Padhye (2012) Synthesis and Characterization of Pyruvate-Isoniazid Analogs and their Copper Complexes as Potential ICL Inhibitors**.** *Bioorganic & Medicinal Chemistry Letters*, 22: 3172–3176 *(***Impact factor 2.978**)

8) Prasad Dandawate, Ejazuddin Khan, Subhash Padhye, Himanshi Gaba, Swati Sinha, Jyoti Deshpande, **K. Venkateswara Swamy**, Madhukar Khetmalas, Aamir Ahmad, Fazlul Sarkar (2012) Synthesis, Characterization, Molecular Docking and Cytotoxic Activity of Novel Plumbagin Hydrazones against Breast Cancer Cells. *Bioorganic & Medicinal Chemistry Letters*, 22: 3104–3108 (**Impact factor 2.978**)

9) Dandawate PR, Vyas A, Ahmad A, Banerjee S, Deshpande J, **Swamy KV**, Jamadar A, Dumhe-Klaire AC, Padhye S, Sarkar FH. (2012) Inclusion Complex of Novel Curcumin Analogue CDF and β-Cyclodextrin (1:2) and Its Enhanced *In Vivo* Anticancer Activity Against Pancreatic Cancer *Pharm Res,* 29:1775-1786 **(Impact factor 4.456)**

10) **K.Venkateswara swamy** , Jyothi Deshpande, Jasmine Soumya Pathageri ,Vidya Kothekar, Subhash Padhye (2011) Molecular Docking Studies On Estrogen Receptor - α And Chalcone Derivatives. *International Journal of Advances in Pharmacy and Biological Sciences* (IJAPBS) 1(3): 87– 93.

11) Parul J, Sagar N, **Swamy K V** and Suresh Kumar C (2011) An insight into blood clotting disorders in humans. *Journal of Computational Biology and Bioinformatics Research.* 3(1): 8-14.

12) Padhye S, Ahmad A, Oswal N, Dandawate P, Deshpandye J, **Swamy K.V**, Farkar F.H (2010). Fluorinated 2' –Hydroxychalcones as Garcinol analogs with enhanced antioxidant and anticancer activities. *Bioorganic & Medicinal Chemistry Letters* 1; 20(19):5818-21. (PMID: 20729081) (**Impact factor 2.65**)

13) Padhye S, chavan D, Pandey S, Deshpande J, **Swamy KV**, Sarkar (2010). Perspectives on chemopreventive and therapeutic potential of curcumin analogs in medicinal chemisty. *Medicinal chemistry*, 10, 1-16 (PMID:20370702) (**Impact factor.3.12**)

14) Subhash P, Sanjeev B, Deepak C, Shubhangini P, **Swamy K V**, Shadan A, Jing Li, Q. Fazlul H. Sarkar (2009) Fluorocurcumins as Cyclooxygenase-2 Inhibitor: Molecular Docking, Pharmacokinetics and Tissue Distribution in Mice. *Pharmaceutical Research*, 26(11):2438-2448(**Impact factor 4.5**) (PMID:19714451)

15) Chitta Suresh Kumar, C.M. Anuradha, **K. Venkateswara Swamy**, Niamat Ali Khan. (2006) Structural and Functional Characterization of Cation-Transporting Atpase of *Mycobacterium tubeculosis* CDC 1551 By in Silico Methods Int. J. Genomics and Proteomics, Volume 2, Number 1

16) Chitta suresh Kumar, C.M. Anuradha, K. Venkata Rao, **K. Venkateswara Swamy** (2006) In silico Characterization of Fatty acid synthase of *Mycobacterium tuberculosis* H37Rv. Int. J. Genomics and Proteomics, volume 2, Number 1

17) Chitta Suresh Kumar, C. M. Anuradha, **K. Venkateswara Swamy** (2005), Genomic characterization of Chromosome 1 *Plasmodium falciparum* by computational Method. Int .J. Microbiology Volume 1 Number

National publication: 01

1) **Swamy KV**, Supriya Kore, Rachna Pandey, Madhukar Khetmalas (2011) Extraction, isolation, molecular modeling and optimization of antimicrobial agents from *Coriandrum sativum. Current Trends in Biotechnology and Pharmacy*. 4 (5):1033-1038.