



Dr. Kirtan Dave

Assistant Professor, Bioinformatics, School of Science (SOS)

Education Qualification:

Ph.D. (Bioinformatics) Sardar Patel University
M.Sc. (Bioinformatics) Sardar Patel University
B.Sc. (Biotechnology) Sardar Patel University

Research Interest:

Bioinformatics, System Biology, Machine learning, Large-scale biological data analysis and integration, NGS data analysis

Publications:

1. Carlos Fernandez-Lozano, Enrique Fernandez-Blanco, **Kirtan Dave**, Nieves Pedreira, Marcos Gestal, Julian Dorado, Cristian Robert Munteanu “Improving enzyme regulatory protein classification by means of SVM- RFE feature selection”, Molecular Bio Systems, 10, 1063-1071,2014
2. **Kirtan Dave**, H Panchal, “ENZPRED-Enzymatic Protein Class Predicting By Machine Learning”, Current Topics in Medicinal Chemistry, 13(24),1674-1680, 2013
3. **Kirtan Dave**, H Panchal, “Metabolism Evolution Based on Network Degrees of Orthologous Enzymes”, Current Topics in Medicinal Chemistry, 13(5), 663-674,2013
4. **Kirtan Dave**, H Panchal, “Review on Chemogenomics Approach: Interpreting Antagonist Activity of Secreted Frizzled-Related Protein 1 in Glaucoma Disease with In-Silico Docking” Current Topics in Medicinal Chemistry, 12(16),1834-1842, 2012
5. **Kirtan Dave**, A Lahiry, “Conotoxins: Review and Docking Studies to determine potentials of Conotoxin as an Anticancer Drug Molecule”, Current Topics in Medicinal Chemistry, 12(8):845- 51,2012

6. **Kirtan Dave**, MGandhi, HPanchal, MVaidya, "Revision of QSAR, Docking, and Molecular Modeling Studies of Anti-Influenza VirusA (H1N1) Drugs and Targets: Analysis of Hemagglutinins 3DStructure", Current Computer-Aided Drug Design,7(4), 255-262, 2011
7. **Kirtan Dave**, L Mckechnie, H Panchal, "Application of Nano bioinformatics in Medical Science-A Probable Therapy", Current Bioinformatics, 6(2), 163-172, 2011
8. **Kirtan Dave**, A Banerjee, "Bioinformatics Analysis of Functional Relations Between CNPs Regions", Current Bioinformatics, 6(1), 122-128, 2011

Industry/Academic Experience:

- Assistant Professor in Bioinformatics, Center for Interdisciplinary Studies in Science and Technology (CISST), Sardar Patel University, Gujarat, India (September 2015-January 2021)
- CSIR-Senior Research fellow, G. H. Patel Post Graduate Department of Computer Science and Technology (GDCST), Sardar Patel University, Gujarat, India (April 2012-March2015)
- Software Developer Intern, Google Summer of Code 2014,National Resource for Network Biology (NRNB) organization and Google Inc, CA,USA(May 2014-August2014)
- Teaching assistant in Bioinformatics, Ashok & Rita Patel Institute of Integrated Study & Research in Biotechnology & Allied Sciences, New V.V .Nagar, India (June 2011–March 2012)
- Project Assistant, CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar, India (June 2010–June 2011)
- Research trainee, Total Potential Cell (P) Ltd, Vadodara, India (Dec 2009 -May2010)
- Research Project trainee, Gujarat State Biotechnology Mission (GSBTM), Gandhinagar, India (June 2009 – Dec 2009)

Courses Taught:

Bioinformatics, Computational Biology, Intellectual Property Rights, Computer Application in Biotechnology

Conference & Seminar:

- Participated in National Seminar on Bioinformatics-Emerging Trends, M.N. Virani Science College, Rajkot on 01st January,2006
- Participated in National workshop on Molecular Modeling and Drug Designing, Dept of computer Science and technology , Sardar Patel University, Vallabh Vidyanagar during 28th to 30th August, 2008
- Participated in National Conference on Genomic, Proteomic and System Biology, Sri Visvesvaraya Institute of Technology, Bangalore during 1st to 3rd October, 2008(08-09)
- Participated in National Symposium on Emerging trend in cell Biology, IIAR, Gandhinagar during 27th & 28th April, 2010
- Participated in National Symposium on status, challenge and opportunity in Life Science GSBTM and ARIBAS,NEW V.V .Nagar on 10th September, 2011

- Participated in National Seminar on Challenging role of Bioinformatician in next generation sequencing Era, GSBTM and Anand Agriculture University on 18th November, 2011
- Participated in National workshop on LC-MS-MS SICART, Vallabh Vidyanagar on 18th February, 2012
- Participated in UGC Sponsored National level Interdisciplinary Research Scholar Meet - 2016 (IRSM-2016), Sardar Patel University during 3rd - 4th March, 2016
- Attended Workshop on Multiscale Simulation & Mathematical Modelling of Complex Biological System. Jawaharlal Nehru University New Delhi, India, 28-29th January 2019
- Attended workshop on High Performance Computing and Deep Learning (C-DAC), GUJCOST, Gandhinagar 9 to 12th July 2019
- Attended Childhood Cancer Data Virtual Training workshop (online) ,Childhood Cancer Data Lab, PA,USA 22-26 June,2020
- Attended workshop on Gene manual annotation with Apollo (online),27 July 2020
- Attended 2nd TGCA workshop and conference, theme 'Towards Team Science for Multi-omics Cancer Research in South Asia' (online) December 3 – 5, 2020
- Attended Galaxy Admin Training workshop (online), 25-29 January,2021

Awards& Honors:

- Co-coordinator (Supercomputer facilities) for establishing Supercomputer facilities at Sardar Patel University funded by Gujarat Council on Science & Technology, Dept. Science and Technology, GoG (2019)
- Nodal officer award for establishing Bioinformatics lab at Sardar Patel University funded by Gujarat State Biotechnology Mission (GSBTM), Dept. Science and Technology, GoG (2017)
- Google Summer of Code 2014 -Contributed open source project on Cytoscape plugin (Network analysis) development with National Resource for Network Biology (NRNB) organization, San Francisco, CA, USA (2014)
- Travel Award from Newcastle University to present a session topic of "SBOL Extensible Plugin" at Synthetic Biology Open Language (SBOL) workshop, Newcastle University, England, UK (2013)
- CSIR-Senior Research fellowship award from Council of Scientific & Industrial Research, Government of India (2012)
- Young Scientist award for research work presentation on "Cluster analysis of breast cancer microarray data" at National Conference on Contemporary Developments at Biotech-Bioinformatics Interface, Gujarat (2010)
- Selected in Industrial Biotech Training Programme (IBTP), Gujarat State Biotechnology Mission, Government of Gujarat and Total Potential Cell Pvt. Ltd (2009)

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