



Vishnu Priya Kanakaveti

Postdoctoral Scholar, Oncology

Bio

HONORS AND AWARDS

- INSPIRE Award, Department of Science and Technology, INDIA (2014-2019)
- Research Excellence Award, Indian Institute of Technology, Bombay, INDIA (2012)
- Research Internship Award, Indian Institute of Technology, Bombay, INDIA (2011-2012)
- Gold Medal, Yogi Vemana University, INDIA (2012)

PROFESSIONAL EDUCATION

- Master of Science, Unlisted School (2012)
- Doctor of Philosophy, Indian Institute of Technology, Madras (2021)
- Ph.D., Indian Institute of Technology, Madras, IITMadras , Cancer Therapeutics (2021)
- Integrated M.Sc, Yogi Vemana University, India , Biotechnology and Bioinformatics (2012)

STANFORD ADVISORS

- Dean Felsher, Postdoctoral Faculty Sponsor
- Dean Felsher, Postdoctoral Research Mentor

Research & Scholarship

RESEARCH INTERESTS

- Data Sciences
- Science Education

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am interested in elucidating molecular mechanisms of MYC-driven drug resistance and immune evasion in cancer using computational and experimental models.

LAB AFFILIATIONS

- Dean Felsher, Felsher lab (5/12/2022)

Publications

PUBLICATIONS

- **Lactobacillus acidophilus potentiates oncolytic virotherapy through modulating gut microbiota homeostasis in hepatocellular carcinoma.** *Nature communications*
Zhang, J., Yang, J., Luo, J., Wu, W., Luo, H., Wei, W., Lyu, H., Wang, Y., Yi, H., Zhang, Y., Fan, Z., Lyu, H., Kanakaveti, et al
2025; 16 (1): 3315
- **Novel BH4-BCL-2 Domain Antagonists Induce BCL-2-Mediated Apoptosis in Triple-Negative Breast Cancer** *Cancers*
Kanakaveti, V., Ramasamy, S., Kanumuri, R., et al
2022
- **Computational approaches for identifying potential inhibitors on targeting protein interactions in drug discovery** *ADVANCES IN PROTEIN CHEMISTRY AND STRUCTURAL BIOLOGY, VOL 121*
Kanakaveti, V., Shanmugam, A., Ramakrishnan, C., Anoosha, P., Sakthivel, R., Rayala, S. K., Gromiha, M.
edited by Donev, R.
2020; 121: 25-47
- **Amarogentin, a secoiridoid glycoside, activates AMP- activated protein kinase (AMPK) to exert beneficial vasculo-metabolic effects** *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*
Potunuru, U., Priya, K., Varsha, M., Mehta, N., Chandel, S., Manoj, N., Raman, T., Ramar, M., Gromiha, M., Dixit, M.
2019; 1863 (8): 1270-1282
- **Forging New Scaffolds from Old: Combining Scaffold Hopping and Hierarchical Virtual Screening for Identifying Novel Bcl-2 Inhibitors** *CURRENT TOPICS IN MEDICINAL CHEMISTRY*
Kanakaveti, V., Rathinasamy, S., Rayala, S. K., Gromiha, M.
2019; 19 (13): 1162-1172
- **Influence of Amino Acid Mutations and Small Molecules on Targeted Inhibition of Proteins Involved in Cancer** *CURRENT TOPICS IN MEDICINAL CHEMISTRY*
Kanakaveti, V., Anoosha, P., Sakthivel, R., Rayala, S. K., Gromiha, M. M.
2019; 19 (6): 457-466
- **Drug-Target Interactions: Prediction Methods and Applications** *CURRENT PROTEIN & PEPTIDE SCIENCE*
Anusuya, S., Keshewani, M., Priya, K., Vimala, A., Shanmugam, G., Velmurugan, D., Gromiha, M.
2018; 19 (6): 537-561
- **Importance of functional groups in predicting the activity of small molecule inhibitors for Bcl-2 and Bcl-xL** *CHEMICAL BIOLOGY & DRUG DESIGN*
Kanakaveti, V., Sakthivel, R., Rayala, S. K., Gromiha, M.
2017; 90 (2): 308-316
- **Ligand-Based Pharmacophore Modeling and Virtual Screening of RAD9 Inhibitors** *JOURNAL OF CHEMISTRY*
Prasad, N. K., Kanakaveti, V., Eadlapalli, S., Vadde, R., Meetei, A., Vindal, V.
2013; 2013