

Dr. ARJUN .H.A

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<https://scholar.google.co.in/citations?user=QYkO97sAAAAJ&hl=en>



➤ Citations: 154, h-index: 6, i10-index: 6

EDUCATION

Ph.D. Chemistry	Mar 2020
Annamalai University, Chidambaram, India.	
M.Phil. Chemistry	Oct 2017
Annamalai University, Chidambaram, India.	
M.Sc. Chemistry	Jun 2015
University of Mysore, Mysore, India.	
B.Sc. Chemistry	May 2013
University of Mysore, Mysore, India.	

PROFESSIONAL EXPERIENCE

April 2019- September 2020	Senior Research Fellow Title: Elucidation of mechanism of action and anti-cancer activity of novel iminoenamine derivatives to treat androgen independent prostate cancer Funded by: Department of Biotechnology (DBT), Government of India
April 2017- March 2019	Junior Research Fellow Title: Elucidation of mechanism of action and anti-cancer activity of novel iminoenamine derivatives to treat androgen independent prostate cancer Funded by: Department of Biotechnology (DBT), Government of India
11th- 20th March 2015	Dissertation Title: Characterization of active pharmaceutical drug -Valsartan by Gas Chromatography. Company: Jubilant Generics Limited

TECHNICAL SKILLS

- **Analytical Instruments:** NMR, IR, UV-Vis spectrophotometer, Single Crystal XRD and Melting Point apparatus.
- **Purification:** Column chromatography, crystallization.
- **Laboratory techniques:** Rotary evaporator, Glove box, High-pressure autoclave, Microwave synthesizer.
- **Software's:** Schrodinger (Mastreo 9.5), Gaussian09, OriginPro 9.0, MS office.

1. **Arjun H. Ananth**, N. Manikandan, Ravi Kumar Rajan, R. Elancheran, K. Lakshmithendral, M. Ramanathan, and S. Kabilan. "Design, Synthesis, and Biological Evaluation of 2-(2-Bromo-3-nitrophenyl)-5-phenyl-1,3,4-oxadiazole Derivatives as Possible Anti-Breast Cancer Agents" **Chemistry & Biodiversity – Wiley**, 2020, 17,e1900659. (<https://doi.org/10.1002/cbdv.201900659>) (Impact Factor- 2.408)
2. **H.A. Arjun**, Ravi Kumar Rajan, R. Elancheran, K. Lakshmithendral, M. Ramanathan, Atanu Bhattacharjee, S. Kabilan. "In Silico and In Vitro Studies of Benzohydrazide Analogues as Potent Androgen Receptor Antagonist" Conference on Drug Design and Discovery Technologies, **The Royal Society of Chemistry**, 2019,103-107. (<https://doi.org/10.1039/9781839160783-00103>) (Book Chapter)
3. **H. A. Arjun**, Ravi Kumar Rajan, R. Elancheran, M. Ramanathan, AtanuBhattacharjee, S. Kabilan*, "Crystal structure, Hirshfeld surface analysis, DFT and molecular docking studies on benzohydrazide derivatives as potential inhibitors of prostate cancer", **Chemical Data Collections - Elsevier** (<https://doi.org/10.1016/j.cdc.2020.100350>). (Impact Factor- 2.22)
4. **H.A. Arjun**, G.N. Anil Kumar, R. Elancheran, S. Kabilan. "Crystal structure, DFT and Hirshfeld surface analysis of (E)-N'-[(1-chloro-3, 4-dihydronaphthalen-2-yl) methylidene] benzohydrazide monohydrate" **Acta Cryst.** 2020. E76, 132-136. (<https://doi.org/10.1107/S2056989019017183>) (Impact Factor- 0.551)
5. **H.A. Arjun**, R. Anantha, G. Manikandan. "Microwave-Assisted Synthesis of Graphene/MnO₂ Nanocomposites for High Performance Electrochemical Supercapacitors" **Journal of Computational and Theoretical Nanoscience**, 2019, 16, 1536-1541(6). (<https://doi.org/10.1166/jctn.2019.8071>) (Impact Factor- 0.46)
6. G. Manikandan, **H.A. Arjun** & N. Saradhadevi, "Hydrothermal assisted synthesis of Graphene oxide doped Nickel oxide – a material for supercapacitor" *International Journal of Research and Analytical Reviews*, 2020, Vol.6 I I – 4, 57-68. (<https://www.researchgate.net/publication/344829337>)
7. S.L. Senthil, C. Raghu, **H.A. Arjun**, P. Anantharaman. "In vitro and in silico inhibition properties of fucoidan against α -amylase and α -D-glucosidase with relevance to type 2 diabetes mellitus" **Carbohydrate polymers**, 2019, 209, 350-355 (<https://doi.org/10.1016/j.carbpol.2019.01.039>) (Impact Factor- 9.381)
8. K. Lakshmithendral, K. Saravanan, R. Elancheran, K. Archana, N. Manikandan, **H. A. Arjun**, M. Ramanathan, N.K. Lokanath, S. Kabilan. "Design, synthesis and biological evaluation of 2-(phenoxyethyl)-5-phenyl-1, 3, 4-oxadiazole derivatives as anti-breast cancer agents" **European journal of medicinal chemistry**, 2019, 168, 1-10. (<https://doi.org/10.1016/j.ejmech.2019.02.033>) (Impact Factor- 6.514)

Papers under Communication:

1. **H.A. Arjun**, Ravi Kumar Rajan, R. Elancheran, M. Ramanathan, AtanuBhattacharjee, S. Kabilan*, Design, synthesis, In silico and In vitro Studies of 7-methoxy-3-((4-phenylpiperazin-1-yl)methyl)-2H-chromen-2-one Analogues as Potent Androgen Receptor Antagonist, **Medicinal Chemistry Research – Springer**, 2022.

Technical Trainings and Workshops Participated

1. Design and development of self learning material for open distance learning conducted by KSOU. Nov 15th -17th 2021
2. NEP-2020- Changed Scenario of Teacher Education, Karnataka state open University, 2021.
3. Attended Hands on Workshop on “Molecular Modeling For Drug and Material Design” by **Schrodinger INC.**, U.S.A at Annamalai University during 18th -21st June 2019.
4. Attended National workshop on Bruker Single Crystal X-ray Diffraction & user Training by **Bruker** at Annamalai University, during 27th -28th September 2019.
5. Participated in National workshop on “Application Training Course on single Crystal XRD” by **Bruker** at Annamalai University during 10th -12th April 2019.
6. Participated in National workshop on “Interpretation of spectral data and identification of phytoconstituents” at Karpagam Academy of Higher Education, Coimbatore during 2016.
7. Attended International workshop on “Wireless Sensor Network For Home and Industrial IoT” at Annamalai University on 11th October 2018.

CONFERENCE PROCEEDINGS

1. Virtual conference on Recent Advances in Chemical Science and Medicinal Chemistry, University of Mysore, 2022
2. Presented a paper in the “International Conference on Drug Discovery” on 29th - 2nd March 2020 at BITS Pilani, Hyderabad.
3. Presented a paper in the “Conference on Drug Design & Discovery Technologies” on 21st -22nd November 2019 at Ramaiah University of Applied Science.
4. Paper presented in the “Application of Smart Materials” on 5th -7th February 2020 at Annamalai University.
5. Participated in the poster presentation at “Indian Science Congress (103rd)” held at University of Mysore, on 17th -18th October 2019.
6. Participated in the poster presentation at JSS Science and Technology University National conference on “Advance Materials for Health, Energy and Environment” on 6th -7th September 2019.
7. Participated in the poster presentation at Annamalai University, International Conference on “Recent Trends in Synthetic Methods and Material Chemistry” on 2nd -3rd February, 2018.
8. Paper Presented at International Conference on “Innovative Technologies in Electronics, Information and Communication” on 12th -13th October 2018 at Annamalai University.
9. Poster presented in National seminar on “Recent Advances in Chemical and Environmental Research” at Annamalai University on 20th -21st January 2017.
10. Participated in the poster presentation at “Recent Trends in Chemical Sciences” organized by Manipal University, 11th -12th January, 2016.
11. Participated in the poster presentation at Alagappa University, International conference on “Frontier Areas in Chemical Technologies-2016” on 21st -23rd March, 2016.
12. Attended “National seminar on Chemistry and Chemical Biology” held at University of Mysore , Mysore”