

CURRICULUM VITAE

Dr. Mohan C D

Personal Profile:

Name : Mohan C D
Official Address : Assistant Professor, Department of Studies in Molecular Biology,
University of Mysore, Manasagangotri, Mysuru-570006,
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Academic Profile:

- **Doctorate:** Ph.D. in Biochemistry; Thesis entitled “**Probing Small Molecules As Novel Inhibitors of Transcription Factors**” under the guidance of Prof. K. S. Rangappa, Vice-Chancellor, University of Mysore, Mysuru.
- **Post-graduation:** M.Sc in Biochemistry, 74.4%, Distinction, JSS College, Ooty Road, Mysuru-570025.
- **Graduation:** B.Sc in Biochemistry, Zoology, Food science & Nutrition, 72.3%, First Class, Yuvaraja’s College, University of Mysore, Mysuru-570005.

Academic Achievements

- Qualified **National Eligibility Test (NET)** in Life Sciences conducted by Joint CSIR-UGC with the All India Ranking of 54 (December 2013).
- Qualified **Karnataka State Eligibility Test (K-SET)** in Life Sciences conducted by University of Mysore (December 2013).
- Qualified **Graduate Aptitude Test in Engineering (GATE)** in Life Sciences conducted by Indian Institute of Technology (IIT), Kharagpur (February 2014).

Awards and Recognitions

- Awarded as **INSPIRE fellow** by Department of Science & Technology (DST), Ministry of Science & Technology, Government of India, India.
- Best Oral Presentation award in the two days’ National conference on “**Driving stem cell research towards therapy – a vision of the future**” organized by Pooja Bhagavat memorial Mahajana PG centre, Mysuru.

Professional Experience

- Assistant Professor in Department of Studies in Molecular Biology, University of Mysore, Manasagangotri, Mysuru (From 1st April 2016 to Present)
- Research Associate in DST-PURSE project at Department of Studies in Chemistry, University of Mysore, Mysuru (1st July 2015 to 30th November 2016)

Visits Abroad

- Visiting Researcher under the JSPS Core-to-Core project, Asia-Africa Science Platforms, Faculty of Advanced Life Science, Hokkaido University, Japan.

- Visiting Researcher under the DST-INSPIRE fellowship Yong Loo Lin School of Medicine, Department of Pharmacology, National University of Singapore, Singapore.

Research Credentials

- **Citations:** Over 165
- **H-Index:** 07
- **I10 Index:** 07

Journal Reviewer

- PLoS One

Patents

1. Rangappa KS, Basappa, Mohan CD, Shobith R, Bharathkumar H, Sethi G, Bender A, Lobie PE, Hui KM, Kumar AP, Pandey VK, Fuchs J, Shanmugam MK, Bulusu K, Dai X, Li F, Deivasigamani A; “**Compounds as modulator of JAK-STAT pathway, methods and applications thereof**”
 - a. USA Patent, 15/004114 dated 22-01-2016.
 - b. Indian Patent, 324/CHE/2015 dated 22-01-2015.

Publications

1. **Mohan CD**,[#] Srinivasa V,[#] Shobith R,[#] Mervin L, Surender M, Paricharak S, Baday S, Li F, Shanmugam MK, Chinnathambi A, Zayed ME, Alharbi SA, Bender A, Sethi G, Basappa, Rangappa KS; Trisubstituted-Imidazoles Induce Apoptosis in Human Breast Cancer Cells by Targeting the Oncogenic PI3K/Akt/mTOR Signaling Pathway; *PLoS One*, 2016, 11, e0153155 ([#]Equal first author).
2. Baburajeev CP, **Mohan CD**, Govindagouda SP, Shobith R, Pandey V, Anusha S, Fuchs JE, Bender A, Lobie PE, Basappa, Rangappa KS; Nano-cuprous oxide catalyzed one-pot synthesis of carbazole-based STAT3 inhibitor: A facile approach via intramolecular C-N bond formation reactions; *RSC Advances*, 2016, 6, 36775.
3. Nandeesh KN, Swarup HA, Sandhya NC, **Mohan CD**, Pavan Kumar CS, Kumara MN, Mantelingu K, Ananda S, Rangappa KS; Synthesis and Antiproliferative efficiency of novel bis(imidazol-1-yl)vinyl-1,2,4-oxadiazoles; *New Journal of Chemistry*, 2016, 40, 2823-2828
4. Keerthy HK, Paricharak S, **Mohan CD**, Bharathkumar H, Nagabhushana GP, Dinesh KR, Chandrappa GT, Bender A, Basappa, Rangappa KS; Nano-MoO₃ mediated synthesis of bioactive thiazolidin-4-ones acting as anti-bacterial agents and their mode-of-action analysis using *in silico* target prediction, docking and similarity searching; *New Journal of Chemistry*, 2016, 40, 2189-2199.
5. Anusha S[#], **Mohan CD**[#], Ananda H, Baburajeev CP, Shobith R, Mathai J, Fuchs JE, Li F, Shanmugam MK, Bender A, Sethi G, Basappa, Rangappa KS; Adamantyl-tethered-biphenylic compounds induce apoptosis in cancer cells by targeting Bcl homologs; *Bioorganic & Medicinal Chemistry Letters*, 2016, 26, 1056-1060 ([#]Equal first author)

6. Anusha S, Baburajeev CP, **Mohan CD**, Mathai J, Shobith R, Surender M, Chandra, Paricharak S, Mervin L, Fuchs JE, Mahendra M, Bender A, Basappa, Rangappa KS; A Nano-MgO and ionic liquid-catalyzed 'green' synthesis protocol for the development of adamantyl-imidazolo-thiadiazoles as anti-tuberculosis agents targeting sterol 14 α -demethylase (CYP51); *PLoS One*, 2015, 10(10): e0139798.
7. Baburajeev CP[#], **Mohan CD**[#], Ananda H, Shobith R, Fuchs JE, Jagadish S, Siveen KS, Chinnathambi A, Alharbi SA, Zayed ME, Zhang J, Li F, Sethi G, Girish KS, Bender A, Basappa, Rangappa KS; Development of Novel Triazolo-Thiadiazoles from Heterogeneous "Green" Catalysis as Protein Tyrosine Phosphatase 1B Inhibitors; *Nature Scientific Reports*, 2015, 5, 14195 ([#]Equal first author).
8. Ashwini N, Garg M, **Mohan CD**, Fuchs JE, Shobith R, Anusha S, Swaroop TR, Rakesh KS, Kanojia D, Madan V, Bender A, Koeffler HP, Basappa, Rangappa KS; Synthesis of 1,2-Benzisoxazole Tethered 1,2,3-Triazoles That Exhibit Anticancer Activity in Acute Myeloid Leukemia Cell Lines by Inhibiting Histone Deacetylases, and Inducing p21 and Tubulin Acetylation; *Bioorganic & Medicinal Chemistry*, 2015, 23, 6157-6165.
9. Bharathkumar H[#], **Mohan CD**[#], Shobith R, Kang T, Keerthy HK, Fuchs JE, Kwon NH, Bender A, Kim S, Basappa, Rangappa KS; Screening of Quinoline, 1,3-Benzoxazine, and 1,3-Oxazine-based Small Molecules Against Isolated Methionyl-tRNA Synthetase and A549 and HCT116 Cancer Cells Including an In Silico Binding Mode Analysis; *Organic & Biomolecular Chemistry*, 2015, 13, 9381-9387 (^{*}Equal first author, Inside Cover Page)
10. Anil Kumar CN, Sundaram MS, **Mohan CD**, Shobith R, Bulusu KC, Fuchs JE, Girish KS, Bender A, Basappa, Rangappa KS; A One Pot synthesis of Novel Bioactive Tri-substituted-Condensed-Imidazopyridines that Targets Snake Venom Phospholipase A₂; *PLoS One*, 2015, 10(7), e0131896.
11. Bharathkumar H, **Mohan CD**, Ananda H, Fuchs JE, Li F, Shobith R, Surender M, Bulusu KC, Girish KS, Sethi G, Bender A, Basappa, Rangappa KS; Microwave-Assisted Synthesis, Characterization and Cytotoxic Studies of Novel Estrogen Receptor α Ligands towards Human Breast Cancer Cells; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 1804-1807.
12. Mahabaleshwaraiah N[#], Dinesh KR[#], **Mohan CD**[#], Li F, Dai X, Siveen KS, Paricharak S, Mason DJ, Fuchs JE, Sethi G, Bender A, Rangappa KS, Kotresh O, Basappa; Novel synthetic coumarins that targets NF- κ B in Hepatocellular Carcinoma; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 893-897 ([#]Equal first author).
13. Roopashree R, **Mohan CD**, Swaroop TR, Jagadish S, Raghava B, Balaji KS, Shankar J, Basappa, Rangappa KS; Novel synthetic bisbenzimidazole that targets angiogenesis in Ehrlich ascites carcinoma bearing mice; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 2589-2593.
14. Srinivas V[#], **Mohan CD**[#], Baburajeev CP, Shobith R, Jagadish S, Fuchs JE, Sukhorukov AY, Chandra, Mason DJ, Sharath Kumar KS, Mahendra M, Bender A, Basappa, Rangappa KS; Synthesis and Characterization of Novel Oxazines and Demonstration that

- they Specifically Target Cyclooxygenase 2; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 2931-2936 (#Equal first author).
15. **Mohan CD**, Bharathkumar H, Bulusu KC, Pandey V, Shobith R, Fuchs JE, Shanmugam MK, Dai X, Li F, Deivasigamani A, Hui KM, Kumar AP, Lobie PE, Bender A, Basappa, Sethi G, Rangappa KS; Development of a novel azaspirane that targets the JAK-STAT pathway in Hepatocellular Carcinoma in vitro and invivo; *Journal of Biological Chemistry*, 2014, 289, 34296-34307.
 16. Keerthy HK[#], **Mohan CD**[#], Siveen KS, Fuchs JE, Shobith R, Sundaram MS, Li F, Girish KS, Sethi G, Basappa, Bender A, Rangappa KS; Novel synthetic biscoumarins target tumor necrosis factor- α in hepatocellular carcinoma in vitro and in vivo; *Journal of Biological Chemistry*, 2014, 289, 31879-31890 (#Equal first author).
 17. Sebastian A, Anandakumar BS, **Mohan CD**, Nagabhushana GP, Priya BS, Rangappa KS, Basappa, Chandrappa GT; Preparation and use of combustion-derived Bi₂O₃ for the synthesis of heterocycles with anti-cancer property by Suzuki-coupling reactions; *RSC Advances*, 2014, 4, 52181-52188.
 18. Bharathkumar H, Paricharak S, Dinesh KR, Siveen KS, Fuchs JE, Shobith R, **Mohan CD**, Nima M, Kumar AP, Sethi G, Bender A, Basappa, Rangappa KS; Synthesis, biological evaluation and in silico and in vitro mode-of-action analysis of novel dihydropyrimidones targeting PPAR- γ ; *RSC Advances*, 2014, 4, 45143-45146.
 19. Keerthy HK, Garg M, **Mohan CD**, Madan V, Kanojia D, Shobith R, Nanjundaswamy S, Mason DJ, Bender A, Basappa, Rangappa KS, Koeffler HP; Synthesis and characterization of novel 2-amino-chromene-nitriles that target Bcl-2 in acute myeloid leukemia cell lines; *PLoS One*, 2014, 9(9): e107118.
 20. Rakesh KS, Jagadish S, Vinayaka AC, Hemshekhar M, Paul M, Thushara RM, Sundaram MS, Swaroop TR, **Mohan CD**, Basappa, Sadashiva MP, Kemparaju K, Girish KS, Rangappa KS; A new Ibuprofen derivative inhibits platelet aggregation and ROS mediated platelet apoptosis; *PLoS One*, 2014, 9(9): e107182.

Invited Talk

- Delivered an invited talk at Faculty of Advanced Life Science, Hokkaido University, Japan on November 13, 2014.

Organization of Conference/Symposium

- Member of organizing committee of “**103rd Indian Science Congress**” hosted by University of Mysore, Mysuru.
- Member of organizing committee of “**International symposium on Challenges in Drug Discovery programme-2011**” hosted by Karnataka State Open University, Mysuru.
- Member of organizing committee of “**International symposium on Chemical Biology – Drug Discovery Programme-2014**” hosted by University of Mysore, Mysuru.

Poster/Oral Presentation in conference

- Presented a Poster entitled **“Osteoarthritis”** in Poster presentation competition-2008 organized by Department of studies in Biotechnology & Microbiology, Pooja Bhagavat memorial Mahajana PG centre, Mysuru.
- Presented a Poster entitled **“Synthesis, Characterization and antibacterial studies of novel thiazolidine-4-ones that target FtsK motor domain”** in International symposium on Chemical Biology – Drug Discovery Programme-2014 hosted by University of Mysore, Mysuru.
- Presented a Poster entitled **“Synthesis and Characterization of Novel 2-Amino-Chromene-Nitriles that Target Bcl-2 in Acute Myeloid Leukemia”** in the international conference on Biotech for a better tomorrow India, Bio – 2014 organized by Vision group on Biotechnology.
- Delivered an oral presentation on **“Probing Small Molecules As Novel Inhibitors of Transcription Factors”** in the two day National conference on “Driving stem cell research towards therapy – a vision of the future” organized by Pooja Bhagavat memorial Mahajana PG centre, Mysuru.
- Delivered an oral presentation on **“Novel 2-Amino Chromene-3-Carbonitril Induce Anticancer Effect Through Inhibiting Bcl-2 In Acute Myeloid Leukemia Cell Lines”** in the two days National conference on “Recent Trends in Bioorganic Chemistry and its Application to Society” organized by Sarada Vilas College, Mysuru.
- Presented a Poster entitled **“Suppression of JAK-STAT Pathway by Novel Small Molecule Inhibits Growth of Hepatocellular Carcinoma in Vitro and in Vivo”** in the International symposium on Chemical Biology-2015 organized by University of Mysore, Mysuru.

Participation in Conferences/Seminars/Workshops

- One-day seminar on **“Nutrition & Health 2006”** organized by the Department of Home science, Teresian College, Mysuru.
- **“International Symposium on Challenges in Drug Discovery Programme-2011”** hosted by Karnataka State Open University, Manasagangotri, Mysuru.
- Conference on **“Recent Advances in Computational Drug Design”** held at IISc, Bengaluru.
- Workshop on **“Exploring Scifinder (Chemical Abstracts) for Scientific Research in Academia”** organized by Library, University of Mysore, Mysuru.
- **“National Conference on Cancer Biology”** organized by department of studies in Biochemistry, University of Mysore, Mysuru.
- National conference on **“Recent Trends in Chemical Biology: An Overview”** organized by Department of Chemistry & Biotechnology, Teresian College, Mysuru.

- Completed the training programme on handling of laboratory Mice and Rat offered by National University of Singapore.
- **“National symposium on Lipids and Cardiovascular diseases”** organized by Department of Studies in Biochemistry, University of Mysore, Mysuru.
- One day **“Molecular Biology Lecture series”** organized by Department of Molecular Biology, Yuvaraja’s College, Mysore & Department of Studies in Biochemistry, University of Mysore, Mysuru.
- **“National Conference on Pure and Applied Chemistry-2014”** organized by Department of Studies in Chemistry, University of Mysore, Mysuru.
- **“102nd Indian Science Congress”** held at University of Mumbai, Mumbai.
- Workshop on **“Computational Methods in Small Molecule and Bio-Pharmaceutical Drug Discovery”** Vijnana Bhavan, University of Mysore, Mysuru.
- One day **“National Seminar on Chemistry and Chemical Biology”** organized at University of Mysore, Mysuru.
- **“103rd Indian Science Congress”** organized by University of Mysore, Mysuru.

Membership

- Life member of **The Indian Science Congress Association**
- Life member of **Society of Biological Chemists, India**

Extra-curricular activities

- **Vice President and Founder member** of the Non-governmental organization **“Belaku Sewa Samsthe Charitable Trust[®]”**.
- Won **11 Gold, 28 Silver and 16 Bronze medals** in swimming competitions in 2006-2015.