CIRCULLAM VITAE

PAVAN KUMAR MANDALI

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OBJECTIVE

Seeking a challenging post-doctoral position in the field of Organic Synthesis, Metal Catalysis or Organometallic Catalysis in a well-established research group wherein my educational background along with my synthetic, analytical, and experimental skills will add value to the laboratory and team.

DOCTORAL RESEARCH EXPERIENCE

March 2014 -June 2014

Shastri Student Internship Project Fellow

Institution:	University of Montreal, Montreal, Quebec, Canada
Project:	Assembly of Pd(II) and BINAP and their use in amination reactions

July 2010 –July 2016

Institution:	Indian Institute of Technology (IIT), Madras
Thesis Title:	Palladium Nanoparticles Catalyzed Suzuki and SonogashiraTransformations

POSTDOCTORAL RESEARCH EXPERIENCE

Sep 2020-Till date	
Institution:	SASTRA Deemed-to-be University, Thanjavur, Tamil Nadu
Project:	Diabetic Retinopathy
• Design and	Southering of Namel Carbonne Malandar for developing Electric characterial concerns f

• Design and Synthesis of Novel Cerberus Molecules for developing Electro-chemical sensors for various bio-markers and fabricating the point-of-care devices by utilizing Screen Printer Electrodes.

March 2017 - July 2017

Institution:JNCASR, BangaloreProject:Asymmetric Catalysis

- Synthesis of Indirubin derivatives for biological applications
- Synthesis of Chiral Catalysts

August 2016 - November 2016

Institution:IIT Madras, ChennaiProject:Dye Sensitized Solar Cells

• Synthesis, Fabrication and Perfomance Evaluation of Dye Sensitized Solar Cell (DSSC): A novel approach enchance the Efficiency of DSSC

TEACHING EXPERIENCE

Role:	Senior Lecturer (February 2018 – July 2019)
Institution:	FIITJEE Ltd, Chennai
Job Description:	Novel Teaching Methodologies to train the students for prestigious IIT-JEE

REVIEWER ACTIVITY

1. Journal name: Polymers for Advanced Technologies, WILEY Publishers

FELLOWSHIPS AND AWARDS

- 1. Received **Prof. Werner Best Thesis Award** for best PhD thesis of the year (2016-2017) in Inorganic and Analytical Divison, Department of Chemistry, IIT Madras.
- 2. Received SSIP Shastri Student Internship Project (A Prestigious Indo-Canadian Fellowship
- 3. **IITM** Junior Research Fellowship and Senior Research Fellowship (July 2010 July 2015)
- 4. Secured 36 all India rank CSIR-NET National Eligible Test (June 2011)
- 5. Secured **390 all India rank -** GATE Graduate Aptitude Test in Engineering (March 2010)
- 6. Secured 3rd Rank in Master of Science NIT Trichy (2006-2008)

TEACHING AND RESEARCH PROFICIENCY

- 1. Conducted Organic & Inorganic chemistry laboratories for B.Tech and M.Sc students as a teaching assistant (TA) at IIT Madras, Chennai, India
- 2. Mentored for two PhD students and three MSc thesis work at IIT Madras, India.
- 3. Acquired excellent hands-on experience in handling air and moisture sensitive reagents to carry out reactions under inert condition using glove box and bench-top Schlenk lines.
- 4. Good experience in performing Vacuum distillation & Vacuum sublimation.

RESEARCH PUBLICATIONS

- 1. P. K. Mandali and D. K. Chand, Catal. Commun., 2013, 13, 16-20. (Most cited paper in 2017)
- 2. P. K. Mandali and D. K. Chand, Catal. Commun., 2014, 47, 40-44.
- 3. P. K. Mandali and D. K. Chand, Synthesis, 2015, 47, 1661-1668. highlighted in (www.organicchemistry.org/abstracts/lit4/976.shtm)
- 4. A. K. Pal, P. K. Mandali, D. K. Chand and G. S. Hanan, Synlett., 2015, 1408-1412.
- 5. P. K. Mandali, A. K. Pati, A. K. Mishra and D. K. Chand, Chemistry Select, 2017, 2, 5259-5265.
- 6. S. Nellaiappan, P. K. Mandali, A. Prabakaran and U. M. Krishnan, Chemosensors, 2021, 9, 182.
- 7. S. B. Annes, R. Saritha, K. Chandru, P. K. Mandali, S. Ramesh, J. Org. Chem, 2021, 86, 16473.

PATENT

"Squaramide-Boronic Acid Derivative and its application for Electrochemical Sensing of Glycated Hemoglobin (HbA1c)". (Application Number: 202141055245)

INSTRUMENT AND SOFTWARE HANDLED

- 1. FT NMR (Bruker DPX-400&500 MHz and JEOL-600 MHz)
- 2. UV-visible Spectrophotometer (Elico-model-SL171)
- 3. FT-IR (Perkin Elmer 882)
- 4. GC and HPLC (Waters)
- 5. Nano-ITC (TA Instruments)
- 6. MS-Office, Chemdraw, TopSpin, Scifinder and Origin 8.5.

REFERENCES

Dr. Dillip K. Chand	Dr. Garry S. Hanan	Dr. K. Uma Maheswari
Department of Chemistry	Department of Chemistry	Professor and Dean
IIT Madras	University of Montreal	SCBT
Chennai 600 036	Montreal QC H3T-IJ4	SASTRA Deemed-to-be University
Tamil Nadu, INDIA.	Quebec, CANADA.	Thanjavur 613401, INDIA.
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PERSONAL DETAILS

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