

## **KANCHANA K PANDIAN**

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### **MY MOTIVE**

To work honestly in a reputed Institute and utilize the opportunity to pursue my future research where I can excel my skills and enhance my knowledge as a researcher.

### **RESEARCH INTERESTS:**

- Development of micro fluidics based healthcare diagnostics
- Single cell analysis using micro fluidic droplets
- Protein folding and pathological protein interactions
- Developing new therapeutic and diagnostic tool for Alzheimer's disease.

### **EDUCATIONAL QUALIFICATIONS:**

- **Masters of Science (MSc) (Advanced Biochemistry)** (68%) from University of Madras. Secured maximum credits of 97/100. (2011- 2013)
- **Diploma in Management and Laboratory Techniques – DMLT** (70%) from Holy Cross College (Affiliated to Bharathidasan University), Tiruchirapalli. (2009- 2010)
- **Bachelors of Science (BSc) (Biochemistry)** (80%) from Holy Cross College (Affiliated to Bharathidasan University), Tiruchirapalli. (2008- 2011)

### **ACADEMIC WORK & VOLUNTARY RESEARCH**

- **Current Position:** Working as Project Associate, on title “**Development of micro fluidics based healthcare diagnostics**” under the guidance of Dr. Ashis K Sen, Department of Mechanical Engineering, Indian Institute of Technology Madras, India. (2017)
- Have completed an online certificate course: The many faces of Dementia, offered by University College London. (Oct 2016)
- Have completed an online certificate course: Inside IELTS, offered by Cambridge English language assessment, University of Cambridge (Sep- Oct 2016)
- Attended summer student Program at Leiden Academic Centre for Drug Research (LACDR), Biopharmaceutical Sciences Department, Leiden University. (July 2015)

**Practical Courses Involved:** Cluster Drug and Target Discovery  
Cluster BioTherapeutics  
Cluster systems Pharmacology

And gained knowledge about the research work involved in the laboratories of Bio-pharmaceutical science department.

**Skills Involved:** Confocal Microscopy, Fluorescent Microscopy, Metabolomic study using Gas Chromatography – Mass Spectrometry (GC-MS), Compound Synthesis using Column Chromatography, DLS Zetasizer system, MTT Assay, ELISA and Cell Culture.

- **MSc PROJECT:** Title – “**The study of Secretory Granule Bio Genesis using Growth Hormone and Prolactin**” Under the guidance of Dr. Samir K Maji, Neurobiology Laboratory, Bio Science and Bio Engineering Department, Indian Institute of Technology Bombay, India. (2013 Jan- 2014 Jan )  
**Skills Involved:** Molecular Cloning, Transfection in cell lines, Animal Cell Culture, Stem cell culture, Spectro photometry, Western Blotting, CD, Scanning Electron Microscopy, Fluorescent Microscopy, Data Bases, Matlab basics, Adobe packages.

- **MSc INTERNSHIP:** Title- “Isolation and purification of Folate Receptor from Human Placenta” Under the guidance of Prof. Dr. Rama Shanker Verma, Biotechnology Department, Indian Institute of Technology Madras, India. ( 2012 April - July)

**Skills Involved:** Sample Homogenization, Sample Purification, Protein Assay by BCA method, Ultra Centrifugation, SDS PAGE and MS Office.

- **BSc PROJECT:** Title – “Study of Cardiac Marker Heart Specific Fatty Acid Binding Protein (- FABP) in diagnosing Myocardial Infarctions” Under the guidance of Doctor, S. Senthil Kumaran, Head of the Department, Doctors Diagnostic Centre, Tiruchirapalli, India. ( 2010 Nov - 2011 April)

**Skills Involved:** Blood Sample Collection, Troponin Tests, Data Collection and reporting the results.

- **Voluntary Research:** - Have gained knowledge about the Disabled children’s genetic profiles and mutations and its impact as disorders at Blossom school, Holy Cross College. (2010) - Have done blood group testing for the fresher students at Holy Cross College (2009)

### WORKSHOPS/ CONFERENCES/ SEMINARS

- Attended a seminar on **Neuromorphic Engineering** by Prof. Andre Van Sheik, Western Sydney University at Indian Institute of Science, Bangalore, 2015.
- Attended a seminar on **Brain Behaviour and Neuro imaging** at Indian Institute of Technology Bombay, 2013.
- Attended an International Conference on “Biotechnological Innovations towards global Development” at Bishop Heber College, Tiruchirapalli, 2013.
- Attended as a volunteer in the collaborative Science Seminar on “MOLECULAR DYNAMICS” at National Chemical Laboratory, Pune, India, 2013.
- Attended a workshop on MatLab for Beginners at Indian Institute of Technology Bombay, 2013.
- Attended a National Conference on “The roll of Free Radicals in Health and Diseases at University of Madras, India, 2012.
- Attended “AIIMT 20<sup>th</sup> Congress of Biomedical Laboratory Science” at St. Joseph College, Tiruchirapalli, India, 2010.
- Participated in the state level seminar on “Challenges in the Management of Obesity” at Holy Cross College, Tiruchirapalli, 2010.
- Participated in state level seminar on “Nanotechnology in Biology and Medicine” at Holy Cross College, 2009.

### CONFERENCE AND SEMINAR PRESENTATIONS

- **Kanchana K Pandian**, Subhadeep Das and Samir K Maji. “Study of secretory granule Bio Genesis using Growth Hormone and Prolactin”. Poster presentation to be delivered at the LACDR, summer student Program, Universitet Leiden, July, 2015.
- **Kanchana K Pandian**, Subhadeep Das and Samir K Maji. “Study of secretory granules using Growth Hormone and Prolactin”. Poster presentation to be delivered in International Conference on “**Neurodegenerative Diseases: Pathogenesis to therapy**” at Centre for Brain Research, Indian Institute of Science Bangalore, November, 2015.
- **Kanchana K Pandian**, Lekshmi Narendrakumar, Rama S Verma. “Isolation and purification of Folate Receptor from Human Placenta”. Poster presentation to be delivered in International Conference on “**Biotechnological innovations towards global development**” at Biotechnology and Bioinformatics Department, Bishop Heber College, Tiruchirapalli, January, 2013.
- Presented a poster (Literature Review) in International Seminar and **won first prize**, titled on “**Resveratrol- A boon for treating Alzheimer’s Disease**” at Holy Cross College, Tiruchirapalli, 2011.

### **RELATED COURSEWORK**

Chemistry of Bio molecules, Gene therapy, Hormonal Biochemistry, Recombinant DNA technology, Molecular Cell Biology, Cellular trafficking, Signal transduction, Eukaryotic gene expression, Microbiology, Clinical Biochemistry, Intermediary metabolism, Genetics, Biostatistics, Immunology, Stem cell Biology, Enzymology, Metabolic disorders, Metabolic regulation.

### **ACADEMIC ACHIEVEMENTS**

- Awarded fellowship for the summer student program in LACDR, Leiden University, Netherlands (2015)
- Awarded Honorarium from my Project Guide Dr. Samir K Maji in Indian Institute of Technology Bombay.
- Secured 80% (Distinction) in BSc in Major papers and positioned Third place of my batch.
- Scored overall 97 credits out of 100 in my Post Graduation and awarded Endowment Scholarship.

### **EXTRA CURRICULAR ACTIVITIES AND HONOURS**

- Presented a poster and won First Prize on “Women Welfare and Development in Holy Cross College.
- I rendered commendable service and honoured as a ‘Red Ribbon Club Leader’ from 2008- 2010.
- I rendered commendable service and honoured as Assistant Class Representative from 2010- 2011.
- Won second prize in District Level Science Exhibition and Essay Writing Competition.
- Won General Championship in Table Tennis at IIT Bombay.
- I successfully finished the German Language at the beginners level I.
- Have Participated Indian Administrative Coaching classes.
- Awarded Best Cadet in National Cadet Corps and ranked as SGT.