

BIOGRAPHICAL SKETCH
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NAME: Kathiresk Kumar Mani

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Postdoctoral Researcher

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
N.G.M Arts and Science College, (affiliated to Bharathiyar University, Coimbatore), Pollachi, India	B.Sc.	05/2003	Zoology
Goernment Arts and Science College (affiliated to Bharathiyar University, Coimbatore), Coimbatore, India	M.Sc.	04/2005	Zoology
University of Madras, Chennai, India	M.Phil.	08/2007	Endocrinology
Dr. ALM Institute of Basic Medical Sciences University of Madras, Chennai, India	Ph.D.	09/2015	Zoology-Endocrinology (inter disciplinary)

A. Personal Statement

I have the necessary background and preparation to be considered as a future junior investigator for this COBRE, which is focused on cellular transport physiology in obesity related disorders. I have been in training as a postdoctoral researcher for the past year under the eminent supervision of Dr. Uma Sundaram. I have been trained to work with transporters such as Na-Glutamine, SGLT-1 and NEH3 in the brush border membrane and IEC-18 cells. With my present research experience in intestinal nutrient transporters and their regulation and desire to become an independent investigator, I am confident I would be able to successfully transition to an become an independent investigator, as a result of the scientific and mentoring support I would receive from this COBRE.

B. Positions and Honors**Positions and Employment**

2016- Postdoctoral Fellow, Department of Clinical and Translational Sciences, Joan C. Edwards School of Medicine, Marshall University, Huntington, WV

2008-11 Worked as a Junior Research Fellow in a DST funded research project entitled "Molecular mechanism underlying male reproductive toxicity of chromium: study on Sertoli cell structural proteins and hormone receptors"

2013-16 Senior Executive Officer in Life Cell (Stem Cell Bank) International Private Limited, Chennai, India

Other Experience and Professional Memberships

2007-present Society for Reproductive Biology and Comparative Endocrinology (SRBCE)

Honors

2000-03 Bronze medal UG third rank holder

2008 Junior Research Fellowship (JRF), University of Madras, Chennai, India

- 2012 Dr. Kalaingar M. Karunanidhi Endowment award, University of Madras, Chennai, India
- 2013 First prize for poster presentation, Society for Reproductive Biology and Comparative Endocrinology, held at University of Karnataka, Dharwad, India
- 2014 First prize for poster presentation, Society for reproductive biology and comparative Endocrinology, held at Holy Cross College, Trichy, India
- Dec 2014 and Jan 2015 Best Employee award, Life Cell International Private Limited, Chennai, India

C. Contribution to Science

- a. N. S. Venkatesh, M. Kathiresh Kumar, S. Sambavi, J. Anabalagan, A. Sashi, M. Michael Aruldhas (2014). Transient neonatal hypothyroidism – induced specific changes in the mRNA expression of LHR and 5 α - reductase isoforms in Leydig cells of adult Wistar rats. *Journal of Endocrinology and Reproductive Biology*, 18:1.
- b. Samuel JB, Stanley JA, Vengatesh G, Princess RA, Muthusami S, Roopha DP, Suthagar E, Kumar KM, Sebastian MS, Aruldhas MM. Ameliorative effect of vitamin C on hexavalent chromium-induced delay in sexual maturation and oxidative stress in developing Wistar rat ovary and uterus. *Toxicol Ind Health*. 2012 Sep;28(8):720-33. doi: 10.1177/0748233711422728.
- c. P. Sekar, G. Vengatesh, M. Kathiresh Kumar, S. Balaji, M. A. Akbarsha and M. Michael Aruldhas (2011). Impact of gestational and lactational exposure to hexavalent chromium on steroidogenic compartments of post-natal rat testis. *Journal of Endocrinology and Reproductive Biology*, 15(1&2).
- d. Kathiresh M. Kumar, Mariajoseph Michael Aruldhas¹ Sheerin L. Banu, Balaji Sadasivam, Ganapathy Vengatesh, Karthik M. Ganesh, Shobana Navaneethabalakrishnan, Ajith Kumar Navin, Felicia Mary Michael, Sankar Venkatachalam, Jone A. Stanley, Ilangovan Ramachandran, Sakhila K. Banu, Mohammad Abdulkader Akbarsha. Male reproductive toxicity of CrVI: In-utero exposure to CrVI at the critical window of testis differentiation represses the expression of Sertoli cell tight junction proteins and hormone receptors in adult F1 progeny rats". *Reproductive Toxicology* (First Revision submitted to journal). Manuscript number: 5209.

Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/collections/public/1PgT7IEFIAJBtGMRDdWFmjWAO/?sort=date&direction=ascending>

D. Additional Information: Research Support and/or Scholastic Performance

Ph.D. work entitled "Mechanism underlying the adverse effect of transient gestational exposure to hexavalent chromium on the fertility of F₁ male progeny of Wistar rats." has taken for the partial fulfillment of Ph.D. degree. Grade – Thesis has "Highly recommended"

Completed a research project entitled "First report of *Eumenes fraternus* in south india and study of the architecture of the nest and prey paralyzing mechanism *Eumenes fraternus*". has taken for the M.Sc degree (self-interest project)