

Curriculum Vitae

Dr. Kandasamy Neelamegam Ph.D.

Post-doctoral Fellow

Louisiana State University Health Sciences Centre

E-mail: drnkandasamy@gmail.com; kneela@lsuhsc.edu

EDUCATION

January 2021- present	Louisiana State University Health Sciences Centre, New Orleans, Louisiana, USA	Post-doctoral fellow
October 2018- December 2020	Tulane University School of Medicine, New Orleans, Louisiana, USA	Post-doctoral fellow
February 2011 - October 2014	Annamalai University, Tamilnadu, INDIA	Ph.D. in Biochemistry
April 2009	Prist University, Tamilnadu, INDIA	M.Phil. (Biochemistry)
April 2004	Bharathidasan University, Tamilnadu, INDIA	M.Sc. (Biochemistry)
April 2002	Bharathidasan University, Tamilnadu, INDIA	B.Sc. (Biochemistry)

PROFESSIONAL EXPERIENCES

- Jan 2021 - Present** : Post-Doctoral Fellow, Department of Physiology, Louisiana State University Health Sciences Centre, New Orleans, Louisiana, USA.
- Oct 2018 - Dec 2020** : Post-Doctoral Fellow, Department of Physiology, Tulane University-School of Medicine, New Orleans, Louisiana, USA.
- Feb 2016 - Aug 2018** : Senior Scientist, Department of Discovery Biology, Syngene International Limited, Bangalore, INDIA.

- Feb 2011 - Oct 2014** : Ph.D Research Scholar, Department of Biochemistry, Annamalai University, INDIA.
- May 2009 - Dec 2010** : Senior Executive, Department of Quality control, Micro labs Limited, Bangalore, INDIA.
- Aug 2006 - Apr 2009** : Executive, Department of Quality control, Kumar Organics product Limited, Bangalore, INDIA.
- May 2004 - Jun 2006** : Analytical Chemist, Department of Quality control, Quantum Drugs and chemicals, Tamilnadu, INDIA.

RESEARCH EXPERIENCES

1. Animal handling

2. Molecular biology techniques

- ✓ Quantitative real-time PCR
- ✓ siRNA treatment
- ✓ western blotting
- ✓ ELISA (Microplate Reader)
- ✓ Method development, method validation, calibration for HPLC, GC, and Spectrophotometer.
- ✓ Vasoreactivity assay.
- ✓ Tail-Cuff (Visitech Systems: BP-2000) and Radiotelemetry.
- ✓ Histology staining and immunohistochemical techniques.
- ✓ Light and Fluorescence microscopy

AWARDS AND HONOURS RECEIVED

- ✓ SAFMR/SSCI Trainee Research Award
- ✓ Awarded Junior Research Fellow by University Grants Commission (UGC)
- ✓ Awarded outstanding contribution for the client project by Syngene International Limited

RESEARCH PUBLICATIONS

1. Das S, Neelamegam K, Peters WN, Periyasamy R, Pandey KN. Depletion of cyclic-GMP levels and inhibition of cGMP-dependent protein kinase activate p21Cip1/p27Kip1 pathways and lead to renal fibrosis and dysfunction. **The FASEB Journal**. 2020; 34 (9): 11925-43.

2. **Kandasamy N**, Ashokkumar N. Protective effect of bioflavonoid myricetin enhances carbohydrate metabolic enzymes and insulin signaling molecules in streptozotocin–cadmium induced diabetic nephrotoxic rats. **Toxicology and applied pharmacology**. 2014; 279 (2): 173-85.
3. **Kandasamy N**, Ashokkumar N. Renoprotective effect of myricetin restrains dyslipidemia and renal mesangial cell proliferation by the suppression of sterol regulatory element binding proteins in an experimental model of diabetic nephropathy. **European journal of pharmacology**. 2014; 743: 53-62.
4. **Kandasamy N**, Ashokkumar N. Myricetin modulates streptozotocin–cadmium induced oxidative stress in long term experimental diabetic nephrotoxic rats. **Journal of Functional Foods**. 2013; 5 (3): 1466-77.
5. **Kandasamy N**, Ashokkumar N. Myricetin, a natural flavonoid, normalizes hyperglycemia in streptozotocin-cadmium-induced experimental diabetic nephrotoxic rats. **Biomedicine & Preventive Nutrition**. 2012; 2 (4): 246-51.
6. **Kandasamy N** and Ashokkumar N. Myricetin restrains TGF- β /Smad pathways and suppresses the renal inflammation and fibrosis in an experimental rat model of diabetic nephropathy. **Chemico-Biological Interactions**. (Under review).

ABSTRACTS/ PAPERS PRESENTED AT INTERNATIONAL/ NATIONAL CONFERENCES

1. **Kandasamy Neelamegam**, Chandramohan Ramasamy, and Kailash N. Pandey. Evaluation of glucose tolerance test in guanylyl cyclase/natriuretic peptide receptor-a gene-targeted mutant mice. Southern Section-American Federation for Medical Research held on February 25-27, 2021. Tulane University Health Sciences Centre, New Orleans, Louisiana, USA.
2. **Kandasamy Neelamegam**, Chandramohan Ramasamy, and Kailash N. Pandey. Increased Glucose Levels in Guanylyl Cyclase/Natriuretic Peptide Receptor-A Gene-Knockout Gene-Duplication Mutant Mice. Experimental Biology held on April 27-30, 2021. Tulane University Health Sciences Centre, New Orleans, Louisiana, USA.
3. Prerna Kumar, **Kandasamy Neelamegam**, Ramachandran Samivel, Huijing Xia, Chandramohan Ramasamy, Hanqing Zhao, Christian Nguyen1 Venkateswara R.

Gogulamudi, Daniel R. Kapusta, and Kailash N. Pandey. Regulation of Blood Pressure and Renal Fibrosis by Class I Specific HDAC Inhibitor, Mocetinostat, in Npr1 Gene-targeted Male and Female Mice. Experimental Biology held on April 27-30, 2021. Tulane University Health Sciences Centre, New Orleans, Louisiana, USA.

4. **Kandasamy Neelamegam** and Ashokkumar Natarajan. Presented a paper orally entitled “Beneficial effect of Myricetin on glucose metabolism in STZ-Cd induced diabetic nephrotoxic rats.” in international conference on Omics group 3rd world congress on Diabetes and Metabolism held on September 24-26, 2012. Marriott Convention Centre, Hyderabad, India.
5. **Kandasamy Neelamegam** and Ashokkumar Natarajan. Presented a paper orally entitled “Myricetin modulates streptozotocin-cadmium induced oxidative stress in long term experimental diabetic nephrotoxic rats” in international conference on Phytochemicals in Health and Disease “ICPHD” held on January 23-25, 2013. Annamalai University, Annamalainagar, Tamilnadu, India.
6. **Kandasamy Neelamegam** and Ashokkumar Natarajan. Presented a paper orally entitled “Renoprotective effect of myricetin in long term experimental diabetic nephrotoxic rats” in one day state level symposium on “Recent scenario in clinical Biochemistry” Vels University, Chennai India, held on April 20, 2013.
7. **Kandasamy Neelamegam** and Ashokkumar Natarajan. Presented a paper orally entitled “Protective effect of bioflavonoid myricetin enhances carbohydrate metabolic enzymes and insulin signaling molecules in streptozotocin–cadmium induced diabetic nephrotoxic rats” in International Conference on “Recent Trends in Atherosclerosis” (ISAR), Annamalai University, Annamalainagar, Tamil Nadu, India, held on 25th September 1-03, 2012.