

**Hemanth Kumar Kandikattu, Ph.D**

Post-Doctoral Fellow

Medicine-Pulmonary Diseases

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**Professional Networks:**Google Scholar: <https://scholar.google.com/citations?user=IL43KzUAAAAJ&hl=en>Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56801063500#nameVar>Orcid: <https://orcid.org/0000-0001-5114-3341>Research Gate: [https://www.researchgate.net/profile/Hemanth\\_Kumar\\_Kandikattu](https://www.researchgate.net/profile/Hemanth_Kumar_Kandikattu)LinkedIn: <https://uk.linkedin.com/in/kandikattu-hemanth-kumar-4a014861>**Academic profile**

Degree	Field of study	Completion date	Institution and location
Ph.D	Biochemistry	Program completed in 01/2015; Degree awarded in 04/2016	Defence Food Research Laboratory/University of Mysore, Karnataka, INDIA
Master of Science	Biochemistry	Program completed in 06/2009; Degree awarded in 06/2011	Sri Venkateswara University, Tirupati, Andhra Pradesh, INDIA
Bachelor of Science	Biotechnology (Biotechnology, Zoology and Chemistry)	Program completed in 06/2007; Degree awarded in 03/2010	Sri Venkateswara University, Tirupati, Andhra Pradesh, INDIA

**Positions and Employment**

Employment	Institution and location	Duration	Field of study
Post-Doctoral Fellow	Tulane University, New Orleans, Louisiana	04-13-2018 to Till date	Medicine-Pulmonary diseases
Post-Doctoral Fellow	University of Missouri, Columbia, Missouri.	08-09-2015 to 04-12-2018	Medicine-Cardiology
Post-Doctoral Fellow	Tulane University, New Orleans, Louisiana	03-20-2015 to 08-08-2015	Medicine-Cardiology
Junior Research Fellow	Indian Institute of Science Bangalore, India.	06-21-2009 to 05-14-2010	Plant molecular biology

**Research experience****Post-Doctoral Fellow:**

Immunology and Cancer: In ongoing studies, I am working on pancreatitis induced pancreatic cancer mouse model to investigate immune therapeutic approaches for pancreatitis and pancreatic cancer induced fibro-inflammation. Also working on identifying novel therapeutic and genetic interventions to treat allergy, asthma, eosinophilic esophagitis and allergic intestinal diseases.

Cardiovascular Medicine: I worked on transgenic, knock-out and wild type mouse models to delineate the role TRAF3 interacting protein 2 in heart failure development and progression. I also involved in investigating DPP4 inhibitors as therapeutic targets in western diet feeding in female C57BL6/J mice model of diet-induced cardiac fibrosis and diastolic dysfunction and oxidative stress.

**Ph.D:** During my Ph.D dissertation, I performed both *in vivo* and *in vitro* experiments to determine the efficacy of hydro-alcoholic extracts from *Cyperus rotundus*, *Celastrus paniculatus*, *Eclipta alba* on cognitive responses, exercise endurance and mechanisms of anti-apoptotic and anti-oxidative stress. In *in vivo* experiments, mice were fed with the plant extracts followed by exposure to hypoxia. In another set of experiments, I determined the effects of these extracts on exercise endurance that included swimming and treadmill exercise. In *in vitro* studies, I tested the efficacy of these plant extracts on oxidative stress and cell death using SHSY5Y human neuronal cells and C2C12 murine myoblasts. I found out that extracts from *Cyperus rotundus* and *Celastrus paniculatus* are beneficial and cytoprotective.

**Junior Research Fellow:** Worked in plant tissue culture project to develop transgenic rice cultivars.

**Publications: First author**

1. **Hemanth Kumar Kandikattu**, Sathisha Upparahalli Venkateshaiah, Anil Mishra. Synergy of Interleukin (IL)-5 and IL-18 in eosinophil mediated pathogenesis of allergic diseases. *Cytokines & Growth factor Reviews*. 2019. 47:83-98
2. **Hemanth Kumar Kandikattu**. Oxido-nitrosative stress and antioxidants in asthma. *International Journal of Basic Clinical Immunology*. 2018. 1: 9-12.
3. **Hemanth Kumar Kandikattu**, Anil Mishra. Immunomodulatory effects of tacrolimus (FK506) for the treatment of allergic diseases. *International Journal of Cell Biology Physiology*. 2018: 1:5-13.
4. **Hemanth Kumar Kandikattu**, Satya Narayan Deep, Sakina Razack, Narayanappa Amruta, Dipti Prasad, Farhath Khanum. Hypoxia induced cognitive impairment modulating activity of *Cyperus rotundus*. *Physiology & Behavior*. 2017. 175:56-65.
5. **Hemanth Kumar Kandikattu**, P. Rachitha, G.V. Jayashree, K. Krupashree, M. Sukhith, Abdul Majid, Narayanappa Amruta, Farhath Khanum. Anti-inflammatory and anti-oxidant

- effects of Cardamom (*Elettaria repens* (Sonn.) Baill) and its phytochemical analysis by 4D GCXGC TOF-MS. *Biomedicine & Pharmacotherapy*. 2017. 91:191-201.
6. **Kandikattu Hemanth Kumar**, M.P. Venuprasad, G.V. Jayashree, P. Rachitha, K. Krupashree, Ajay Pal, Farhath Khanum. *Celastrus paniculatus* Willd. mitigates t-BHP induced oxidative and apoptotic damage in C2C12 murine muscle cells. *Cytotechnology*. 2015. 67:955-967.
  7. **Hemanth Kumar Kandikattu**, P. Rachitha, K. Krupashree, G.V. Jayashree, Virat Abhishek, Farhath Khanum. LC-ESI-MS/MS analysis of total oligomeric flavonoid fraction of *Cyperus rotundus* and its antioxidant, macromolecule damage protective and antihemolytic effects. *Pathophysiology*. 2015. 22:165-173.
  8. **Hemanth Kumar Kandikattu**, Venuprasad M.P., Ajay Pal, Farhath Khanum. Phytochemical analysis and exercise enhancing effects of hydroalcoholic extract of *Celastrus paniculatus* Willd. *Industrial Crops and Products*. 2014. 55:217-224.
  9. **Kandikattu Hemanth Kumar**, Sakina Razack, Ilaiyaraja Nallamuthu, Farhath Khanum. Phytochemical analysis and biological properties of *Cyperus rotundus* L. *Industrial Crops and Products*. 2014. 52:815-826.
  10. **Kandikattu Hemanth Kumar**, Anand Tamatam, Ajay Pal, Farhath Khanum. Neuroprotective effects of *Cyperus rotundus* on SIN-1 induced nitric oxide generation and protein nitration: ameliorative effect against apoptosis mediated neuronal cell damage. *Neurotoxicology*. 2013. 34:150-159.
  11. **K. Hemanth Kumar**, Farhath Khanum. Hydroalcoholic extract of *Cyperus rotundus* ameliorates H<sub>2</sub>O<sub>2</sub>-induced human neuronal cell damage via its anti-oxidative and anti-apoptotic machinery. *Cellular and Molecular Neurobiology*. 2013. 33:5-17.

### **Publications: Co-author**

1. Alok K. Verma, **Hemanth Kumar Kandikattu**, Murli Manohar, Anshi Shukla, Sathisha Upparahalli Venkateshaiah, Xiang Zhu, Anil Mishra. Intestinal overexpression of IL-18 promotes eosinophils-mediated allergic disorders. *Immunology*. 2019. 157: 110-121
2. SathishaUpparahalliVenkateshaiah, Rituraj Niranjana, Murli Manohar, Alok K. Verma, **Hemanth K. Kandikattu**, Joseph A. Lasky, Anil Mishra. Attenuation of allergen, IL-13- and TGF- $\alpha$ -induced lung fibrosis following the treatment of IL-15 in mice. *American Journal of Respiratory Cell and Molecular Biology*. 2019. 61: 97-109.
3. Sudarshan Bilikallahalli Lakshmegowda, Sanjay Konasur Rajesh, **Hemanth Kumar Kandikattu**, Ilaiyaraja Nallamuthu, Farhath Khanum. In vitro and in vivo studies on hexane fraction of *Nitzschia palea* a freshwater diatom for oxidative damage protective and anti-inflammatory response. *Revista Brasileira de Farmacognosia*. 2019.

4. Gowdiperu Sarika, Narayanappa Amruta, **Hemanth Kumar Kandikattu**, G.V. Basavaraju, H.K. Suma, B.L. Manjunath, C.H. Sravani. Chemical profiling of camptothecin and methoxy camptothecin in *Nothapodytes nimmoniana* Grah. (Mabb.) during seed development, seed germination and their effects on seed-borne pathogens. *South African Journal of Botany*. 2019. 123:113-123.
5. Sathisha Upparahalli Venkateshaiah, **Hemanth Kumar Kandikattu**, and Anil Mishra Significance of Interleukin (IL)-15 in IgE associated eosinophilic Esophagitis (EoE) *International Journal of Basic Clinical Immunology*. 2019. 2:1-14
6. Nathan L Sandersa, Sathisha Upparahalli Venkateshaiah, Murli Manohar, Alok K Verma, **Hemanth K Kandikattu**, Anil Mishra. Interleukin-18 has an important role in differentiation and maturation of mucosal mast cells. *Journal of Mucosal Immunology Research*. 2018. 2:1-7.
7. Murli Manohar, **Hemanth K Kandikattu**, Alok Kumar Verma, Anil Mishra. IL-15 regulates fibrosis and inflammation in a mouse model of chronic pancreatitis. *American Journal of Physiology-Gastrointestinal and Liver Physiology*. 2018. 315: G954-G965.
8. Jaume Padilla, Andrea J. Carpenter, Nitin A. Das, **Hemanth Kumar Kandikattu**, Susana López-Ongil, Luis A. Martinez-Lemus, Ulrich Siebenlist, Vincent G. DeMarco, Bysani Chandrasekar. TRAF3IP2 mediates high glucose-induced endothelin-1 production as well as endothelin-1-induced inflammation in endothelial cells. *American Journal of Physiology-Heart and Circulatory Physiology*. 2018. 314:H52-H64.
9. Narayanappa Amruta, **Hemanth Kumar Kandikattu**. Antifungal drug resistance mechanism in clinical and environmental *Aspergillus* species. *Advances in Agricultural Sciences*. 2018. 1:1-3.
10. Narayanappa Amruta, **Hemanth Kumar Kandikattu**. Apoptosis of inflammatory cells in Asthma. *International Journal of Cell Biology Physiology*. 2018. 1:1-6.
11. M.D. Pandareesh, **Hemanth Kumar Kandikattu**, Sakina Razack, Amruta Narayanappa, Ramesh Choudhari, Ajit Vikram, Prakash Doddapattar. Nutrition and nutraceuticals in neuroinflammatory and brain metabolic stress: Implications for neurodegenerative disorders. *CNS & Neurological Disorders - Drug Targets*. 2018. 17:680-688.
12. Sakina Razack, **Hemanth Kumar Kandikattu**, MP Venuprasad, Narayanappa Amruta, Farhath Khanum, Krishna Chuttani, Anil Kumar Mishra. Anxiolytic actions of *Nardostachys jatamansi* via GABA benzodiazepine channel complex mechanism and its biodistribution studies. *Metabolic Brain Disease*. 2018. 33:1533-1549.
13. Hurugalavadi Puttaswamaiah Ranjitha, Rame Gowda, Nagarajappa Nethra, Narayanappa Amruta, **Hemanth Kumar Kandikattu**. Biochemical and metabolomics on rice cultivars. *Rice Science*. 2018. 26:189-194.

14. Narayanappa Amruta, M.K. Prasanna Kumar, M.E. Puneeth, Gowdiperu Sarika, **Hemanth Kumar Kandikattu**, K. Vishwanath, Sonnappa Narayanaswamy. Exploring the potentiality of novel rhizospheric bacterial strains against the rice blast fungus *Magnaporthe oryzae*. *Plant Pathology Journal*. 2018. 34:126–138.
15. Annayya R. Aroor, Javad Habibi, **Hemanth Kumar Kandikattu**, Mona Garro-Kacher, Brady Barron, Dongqing Chen, Melvin R. Hayden, Adam Whaley-Connell, Shawn B. Bender, Thomas Klein, Jaume Padilla, James R. Sowers, Bysani Chandrasekar, Vincent G. DeMarco. Dipeptidyl Peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. *Cardiovascular Diabetology*. 2017. 16:1-15.
16. John M. Erikson, Anthony J. Valente, Srinivas Mummidi, **Hemanth Kumar Kandikattu**, Vincent G. DeMarco, Shawn B. Bender, William P. Fay, Ulrich Siebenlist, Bysani Chandrasekar. Targeting TRAF3IP2 by genetic and interventional approaches inhibits ischemia/reperfusion-induced myocardial injury and adverse remodeling. *Journal of Biological Chemistry*. 2017. 292:2345-2358.
17. Ajay Pal, **Kandikattu Hemanth Kumar**, Bharat Bhushan, Vinod Saharan. Ashwagandha root extract inhibits acetylcholine esterase, protein modification and ameliorates H<sub>2</sub>O<sub>2</sub>-induced oxidative stress in rat lymphocytes. *Pharmacognosy Journal*. 2017. 9:302-309.
18. P. Rachitha, K. Krupashree, G.V. Jayashree, **Hemanth Kumar Kandikattu**, Narayanappa Amruta, Natarajan Gopalan, M.K. Rao, Farhath Khanum. Chemical composition, antioxidant potential, macromolecule damage and Neuroprotective activity of *Convolvulus pluricaulis*. *Journal of Traditional and Complementary Medicine*. 2017. 8:483-496.
19. M.P. Venuprasad, **Hemanth Kumar Kandikattu**, Sakina Razack, Narayanappa Amruta, Farhath Khanum. Chemical composition of *Ocimum sanctum* by LC-ESI-MS/MS analysis and its protective effects against smoke induced lung and neuronal tissue damage in rats. *Biomedicine & Pharmacotherapy*. 2017. 91:1-12.
20. Srinivas Mummidi, Nitin A. Das, Andrea J. Carpenter, **Hemanthkumar Kandikattu**, Maike Krenz, Ulrich Siebenlist, Anthony J. Valente, Bysani Chandrasekar. Metformin inhibits aldosterone-induced cardiac fibroblast activation, migration and proliferation *in vitro*, and reverses aldosterone+salt-induced cardiac fibrosis *in vivo*. *Journal of Molecular and Cellular Cardiology*. 2016. 98:95-102.
21. Manjunath Yariswamy, Tadashi Yoshida, Anthony J. Valente, **Hemanth Kumar Kandikattu**, Siva S. V. P. Sakamuri, Jalahalli M. Siddesha, SergiySukhanov, ZubaidaSaifudeen, Lixin Ma, Ulrich Siebenlist, Jason D. Gardner, Bysani Chandrasekar. Cardiac-restricted overexpression of TRAF3 Interacting Protein 2 (TRAF3IP2) Results in Spontaneous Development of Myocardial Hypertrophy, Fibrosis, and Dysfunction. *Journal of Biological Chemistry*. 2016. 291:19425-19436.

22. Sakina Razack, **Kandikattu Hemanth Kumar**, IlaiyarajaNallamuthu, Mahadeva Naika, Farhath Khanum. Antioxidant, biomolecule oxidation protective activities of *Nardostachys jatamansi* DC and its phytochemical analysis by RP-HPLC and GC-MS. *Antioxidants*. 2015. 4:185-203.
23. G.V. Jayashree, **Kandikattu Hemanth Kumar**, K. Krupashree, P. Rachitha, Farhath Khanum. LC–ESI–MS/MS analysis of *Asparagus racemosus* Willd. roots and its protective effects against t-BHP induced oxidative stress in rats. *Industrial Crops and Products*. 2015. 78:102-109.
24. GirindrababuVenkattappa Jayashree, PuttasiddiahRachitha, Krishnaswamy Krupashree, **Kandikattu Hemanth Kumar**, Farhath Khanum. Antioxidant and DNA damage protective effects of *Asparagus racemosus* in human colon and mice muscle cells. *Pharmacognosy Journal*. 2015. 7:182-190.
25. G.V. Jayashree, P. Rachitha, K. Krupashree, **Kandikattu Hemanth Kumar**, Farhath Khanum. Chemical composition of *Asparagus racemosus* root by GC–MS analysis. *Science, Technology and Arts Research Journal*. 2015. 4:124-126.
26. K. Krupashree, **K. Hemanth Kumar**, P. Rachitha, G.V. Jayashree, F. Khanum. Chemical composition, antioxidant and macromolecule damage protective effects of *Picrorhiza kurroa* Royle ex Benth. *South African Journal of Botany*. 2014. 94:249-254.
27. M.P. Venuprasad, **Hemanth Kumar Kandikattu**, Sakina Razack, Farhath Khanum. Phytochemical analysis of *Ocimum gratissimum* by LC-ESI-MS/MS and its antioxidant and anxiolytic effects. *South African Journal of Botany*. 2014. 92:151-158.
28. M.P. Venuprasad, **Kandikattu Hemanth Kumar**, Farhath Khanum. Neuroprotective effects of hydroalcoholic extract of *Ocimum sanctum* against H<sub>2</sub>O<sub>2</sub> induced neuronal cell damage in SH-SY5Y cells via its antioxidative defence mechanism. *Neurochemical Research*. 2013. 38:2190-2200.
29. Jayashree G.V, Rachitha P, Krupashree K, **Hemanth Kumar K**, Farhath Khanum. Phytochemical analysis of methanolic extract of roots of *Asparagus Racemosus* (Shatavari). *International Journal of Pharma and Bio Sciences*. 2013. 4:250-254.
30. B. Thirupal Reddy, D. Ali Moulali, E. Anjaneyulu, M. Ramgopal, **K. Hemanth Kumar**, O. Lokanatha, M. Guruprasad, M. Balaji. Antimicrobial screening of the plant extracts of *Cardiospermum halicacabum* L. against selected microbes. *Ethnobotanical Leaflets*. 2010. 14: 911-919.

### **Book Chapter**

1. Naveen Shivanna, **Hemanth Kumar Kandikattu**, Rakesh Kumar Sharma, Teenu, and Farhath Khanum. Nanoencapsulation of Iron for Functional Foods/Nutraceuticals. *NanoNutraceuticals*. CRC Press Taylor & Francis. Florida, USA. 2018. Chapter 13. 255-269.

**Conference proceedings**

1. **Hemanth Kumar Kandikattu**, Anil Mishra. IL-18 overexpression promotes eosinophils-mediated peanut-induced intestinal allergy. *Journal of Allergy and Clinical Immunology*. 2019. 143:AB254
2. **Kandikattu HK**. *Celastrus paninculatus* enhances endurance activity by improving angiogenesis, mitochondrial biogenesis, glucose and lactate transport and protect muscle cells against t-BHP induced oxidative and apoptotic damage.. *Proceedings of The Physiological Society*. 2013. PCB 323.
3. Annayya Aroor, **Hemanthkumar Kandikattu**, Javad Habibi, Mona Garro, Thomas Klein, James R Sowers, Anthony J Valente, Vincent DeMarco, Chandrasekar Bysani. Dipeptidyl Peptidase-4 (DPP-4) inhibition with linagliptin reduces the induction of proinflammatory/profibrotic TRAF3IP2 in the hearts of female mice fed a Western Diet. *The FASEB Journal*. 2017. 31: 977.8
4. Annayya R. Aroor, **Kandikattu Hemanth Kumar**, Javad Habibi, Megan S. Johnson, Thomas Klein, James R. Sowers, Bysani Chandrasekar, Vincent G. Demarco. Linagliptin Reduces the Pro-fibrotic LARP6 Expression in Hearts of Female Mice Fed a Western Diet. *American Diabetes association. Integrated physiology/obesity posters*. 2017. A543.
5. Ravi Nistala, Jianzhong An, **Hemanth Kumar Kandikattu**, Chandrasekar Bysani. DPP4 Gene Deletion Protects Mice from Larp6-mediated Fibrosis in Progressive Kidney Injury Models. *The FASEB Journal*. 2017. 31: 1030.25 (Citations: 1)
6. Rory Cunningham, Ryan Sheldon, Grace Meers, **Hemanth Kumar Kandikattu**, Bysani Chandrasekar, Randy Scott Rector. Western diet feeding downregulates hepatic RECK expression and induces NASH with fibrosis. *The FASEB Journal*. 2017. 31: 887.5

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**Total Citations: 436; h-index: 12; i10-index: 15**

**(Google Scholar: <https://scholar.google.com/citations?user=IL43KzUAAAAJ&hl=en>)**

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**Honors**

<b>Date</b>	<b>Honors</b>
<b>November 2019</b>	Abstract submission has been selected as a late breaking award discovery oral presentation for CURED EGID research conference at Cincinnati, OH, USA
<b>December-2017</b>	Awarded second prize for poster presentation at Health Sciences Research Day, November, 2017. University of Missouri, Columbia, Missouri, USA.
<b>December-2017</b>	Awarded American Physiological society very best recently published articles in physiological research "TRAF3IP2 mediates high glucose- induced endothelin-1 production as well as endothelin-

	1-induced inflammation in endothelial cells" The American Physiological Society-December-2017.
<b>April 2013-February 2015</b>	Awarded CSIR-INDIA senior research fellowship for Doctoral studies. Awarded ICMR-INDIA senior research fellowship for Doctoral studies.
<b>September 2014</b>	Adjudicated for the best poster award and cash prize of US \$ 100 at IBRO 4th Tehran school of neuroscience: Basic approaches in neurological diseases, held at Tehran, Iran, 2014.
<b>December 2014</b>	Awarded first prize for best publication of the year on DFRL establishment day Dec 28, 2014.
<b>December 2013</b>	Adjudicated for the young scientist award for the oral presentation in the international symposium IEPNG-2013 held at Vikrama Simhapuri University, Nellore, Andhra Pradesh, India
<b>March 2012</b>	Awarded first prize for the oral presentation in the national conference ETAHDT-2012 held at Teresian college, Mysore, India.
<b>September 2011</b>	Awarded first prize for the poster presentation in the International conference held during 2011 at Defence Food Research Laboratory, Mysore, India.

### Travel grants

<b>Date</b>	<b>Travel grants</b>
<b>November 2019</b>	Awarded travel grant to attend CURED EGID research conference at Cincinnati, OH, USA
<b>March 2019</b>	Awarded travel grant to attend • American Academy of Allergy, Asthma & Immunology (AAAAI) conference, SanFrancisco, CA, USA
<b>September 2014</b>	Awarded travel grant to attend 4th Tehran school of neuroscience: Basic approaches in neurological diseases, held at Tehran, Iran, 2014, organized by International Brain Research Organization (IBRO).
<b>June 2013</b>	Awarded travel grant to attend 37th Congress of the International Union of Physiological Sciences (IUPS) held at Birmingham, UK, 2013.

### Abstracts

1. **Hemanth Kumar Kandikattu** and Anil Mishra. Tacrolimus (FK506) treatment improves blood, and tissue eosinophilia in IL-5 mediated Eosinophilic Gastrointestinal Disease (EGID). CURED EGID research conference, November, 2019, Cincinnati Childrens hospital, Cincinnati, OH, USA
2. **Hemanth Kumar Kandikattu**, Anil Mishra. Mouse model of chronic pancreatitis associated pancreatic ductal adenocarcinoma that progress in lung squamous cell



- carcinoma. Health Sciences Research Day, March, 2019, Tulane University, New Orleans, Louisiana, USA
3. **Kandikattu HK**, Mummidi S, Das NA, Carpenter AJ, Sukhanov S, Kumar S, Abou el ela A, Domeier TL, Siebenlist U, Day SM, Chandrasekar B. TRAF3IP2 expression is increased in failing human hearts of ischemic origin and mediates the pro-fibrotic responses of TGF- $\beta$ -in cultured cardiac fibroblasts. Health Sciences Research Day, November, 2017. University of Missouri, Columbia, Missouri, USA.
  4. **Kandikattu HK**, Das NA, Carpenter AJ, GM Meers, RS Rector, Li Lee, Ma L, Aroor AR, Kim N, DeMarco VG, Roy R, Krenz M, Siebenlist U, Chandrasekar B. Minocycline administration inhibits pressure-overload induced adverse myocardial remodeling and contractile dysfunction. Health Sciences Research Day, November, 2017. University of Missouri, Columbia, Missouri, USA.
  5. **Kandikattu HK**, Erikson JM, Valente AJ, Mummidi S, DeMarco VG, Bender SB, Fay WP, Siebenlist U, Chandrasekar B. Targeting TRAF3IP2 by genetic and interventional approaches inhibits ischemia/reperfusion-induced myocardial injury and adverse remodeling. 24th Annual Cardiovascular Day, February 2017. University of Missouri. Columbia, MO, USA
  6. **Kandikattu HK**, Raikwar S, Valente AJ, Ma L, DeMarco VG, Krenz M, Roy R, Yoshida T, Siebenlist U, Chandrasekar B. Silencing TRAF3IP2 by a Modified 27-mer siRNA Attenuates Pressure-overload induced Myocardial Hypertrophy and Fibrosis. Health Sciences Research Day, November, 2016. University of Missouri, Columbia, Missouri, USA.
  7. Aroor AR, **Kandikattu HK**, Habibi J, Garro M, Johnson MS, Klein T, Sowers JR, Chandrasekar B, DeMarco VG. Linagliptin reduces the pro-fibrotic LARP6 expression in hearts of female mice fed a Western Diet. The American Diabetes Association's 77TH Scientific Sessions. June 2017, San Diego, California, USA.
  8. Aroor AR, **Kandikattu HK**, Habibi J, Garro, Klein T, Sowers JR, Valente AJ, Chandrasekar B, DeMarco VG. Dipeptidyl Peptidase-4 (DPP-4) inhibition with linagliptin reduces induction of proinflammatory/profibrotic TRAF3IP2 in the heart of Western Diet (WD) fed female mice. Experimental Biology, April 2017, Chicago, USA
  9. Li E. Lee, Sudhanshu P. Raikwar, **Hemanth K. Kandikattu**, Bysani Chandrasekar, Lixin Ma. Detection of myocardium fibrosis and cardiac functions using magnetic resonance imaging. Life Science Week, April, 2017, University of Missouri, Columbia, Missouri, USA.
  10. Nistala R, Jianzhong AN, **Kandikattu HK**, Chandrasekar B. DPP4 gene deletion protects mice from Larp6-mediated fibrosis in progressive kidney injury models. Experimental Biology, April 2017, Chicago, USA.
  11. Cunningham R, Sheldon RD, Meers GM, **Kandikattu HK**, Chandrasekar B, Rector RS. Western diet feeding downregulates hepatic RECK expression and induces NASH with fibrosis. Experimental Biology, April 2017, Chicago, USA.
  12. Yariswamy M, **Kandikattu HK**, Yoshida T, Valente AJ, Sukhanov S, Gardner JD, Saifudeen Z, Solange AN, Chandrasekar B. Cardiac-restricted TRAF3IP2 overexpression results in spontaneous development of myocardial hypertrophy, fibrosis and dysfunction. VA Research Day, March, 2015. Harry S Truman Memorial Hospital and Research, Columbia, Missouri, USA.
  13. **Kandikattu HK**, Prasad D, Khanum F. Hypoxia induced cognitive impairment and oxidative stress modulating activity of total oligomeric flavonoids fraction of *Cyperus*

- rotundus* L. 4th Tehran IBRO School of neuroscience workshop: Basic approaches in neurological diseases, Oct, 2014. Tehran, Iran.
14. **Kandikattu HK.** *Celastrus paniculatus* enhances endurance activity by improving angiogenesis, mitochondrial biogenesis, glucose and lactate transport and protect muscle cells against t-BHP induced oxidative and apoptotic damage. 37th Congress of the International Union of Physiological Sciences (IUPS) July 2013. Birmingham, UK.
  15. **Kandikattu HK,** Venuprasad MP, Khanum F. GC-MS characterization of *Celastrus paniculatus* Willd. Seed extract and its protective effects against t-BHP induced oxidative and apoptotic damage of C2C12 muscle cells. International Symposium on Environmental Pollution, Nutrition and Genetics and a special symposium on Cancer Biology and Therapeutics. 2013. Vikrama Simhapuri University, Nellore, Andhrapradesh, India.
  16. **Kandikattu HK,** Khanum F. Hydroalcoholic extract of *Cyperus rotundus* ameliorates H<sub>2</sub>O<sub>2</sub> induced human neuronal cell damage via its anti-oxidative and anti-apoptotic machinery. International Symposium on Environmental Impacts, Health Implications and Therapeutic Approaches. 2012. Vikrama Simhapuri University, Nellore, Andhrapradesh, India.
  17. **Kandikattu Hemanth Kumar,** Anand Tamatam, Ajay Pal, Farhath Khanum. Neuroprotective effects of *Cyperus rotundus* on SIN-1 induced nitric oxide generation and protein nitration: Ameliorative effect against apoptosis mediated neuronal cell damage. National Symposium on Emerging trends in Ayurveda and Herbal Drug Technology. 2012. Terresian college, Mysore, India.
  18. **K. Hemanth Kumar** and Farhath Khanum. Antioxidant and Neuroprotective activity of hydroalcoholic extract of *Cyperus rotundus* L against *in vitro* and *in vivo* toxicity induced by free radicals. International Symposium on Recent Trends in Processing and Safety of Speciality and Operational Foods. 2011. Defence Food Research Laboratory, Mysore, Karnataka, India.
  19. **Hemanth Kumar Kandikattu,** Ediga Anjaneyulu, Balaji Meriga, P.B. Kavi Kishore. A study on differential response of rice cultivars (*Oryza sativa* L.) to aluminium toxicity. Plant Biotechnology and Genomics conference, 2009. Yogi Vemana University, Kadapa, Andhrapradesh, India.
  20. **Hemanth Kumar Kandikattu,** Ediga Anjaneyulu, Balaji Meriga, A. Madhu Sudana. Study of biochemical parameters and bone mineral density in premenopause to postmenopause osteoporosis patients. 2008. SBCI conference, IIT Madras, India.

### Membership

- American Society for Biochemistry and Molecular Biology, Rockville, MD, USA
- American Academy of Allergy, Asthma & Immunology (AAAAI), Milwaukee, WI, USA
- European Academy of Allergy and Clinical Immunology, Zurich, Switzerland
- American Gastroenterological Association, Bethesda, MD, USA
- National Postdoctoral Association, Rockville, MD, USA
- National Environmental Science Academy (NESA), Delhi, India

### **Training / Project undertaken**

- Participated in 4<sup>th</sup> Tehran IBRO School of neuroscience workshop: Basic approaches in neurological diseases, Oct 2014. Tehran, Iran.
  - M.Sc. dissertation work for two months at Biochemistry Department, Indian Institute of Sciences, Bangalore, INDIA from April 2008 to June 2008.
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### **Editorial duties**

**Editorial board member:** Journal of Cardiology and Cardiovascular Medicine 2017- Till date

**Associate Editorial board member:** Endocrine, Metabolic & Immune Disorders - Drug Targets 2019- Till date

**Associate Editorial board member:** Current Traditional Medicine 2019- Till date

**Journal Reviewer (Ad hoc):** European Journal of Pharmacology, Cardiovascular Diabetology, Cellular Physiology and Biochemistry, Molecular and Cellular Biochemistry, Nutrition Journal, Food Research International, Journal of Food Biochemistry, Journal of Herbal Medicine, Environmental Toxicology and Pharmacology, Phytomedicine, Phytotherapy Research, Pathophysiology, Austin Journal of Reproductive Medicine & Infertility, Biomedicine & Pharmacotherapy, Pharmaceutical and Biomedical Research, Hypertension, Journal of Cardiovascular Pharmacology and Therapeutics, Journal of Cardiology and Cardiovascular Medicine, Journal of Integrative Medicine, Scientific Reports, Journal of Clinical Medicine, Journal of Food and Nutrition Sciences

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