

## **Kavishankar Gawli, PhD., PDF (Canada)**

Assistant Professor

Department of Life Sciences

Central University of Karnataka

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### **PROFILE**

Disciplines Trained in : Biochemistry, Molecular Biology, Pharmacology, Microbiology  
Research Disciplines : Physiology, Endocrinology, Molecular Biology, Biochemistry  
Area of Research : Molecular Aspects of Diabetes  
Fields of Application : Biomedical Aspects of Human Health  
Research Specialization : Drug Discovery, Drug Innovation, Signal Transduction, Glucose Homeostasis, Diabetes, Metabolic Peptides, Proteomics, Molecular Markers  
Countries : Canada, Sweden & India

### **DEGREES**

2012 – 2015 : Doctor of Philosophy, Biochemistry, University of Mysore, India  
2010 : Certificate, Pre-PhD, Biochemistry, Umea University, Sweden  
2007 – 2009 : Master's, Biochemistry (Distinction), University of Mysore, India  
2004 – 2007 : Bachelor's, Biochemistry, Botany, Microbiology (Distinction), University of Mysore, India

### **RESEARCH**

SHRF Postdoctoral Scholar, University of Saskatchewan, Canada  
*Molecular Aspects of Diabetes, Obesity and Metabolic Peptides*

Doctoral, University of Mysore, India  
*Diabetes Drug Discovery*

Pre-Doctoral Student, Umea University, Sweden  
*Protein Chemistry*

Project Fellow, University of Mysore, India  
*Drug Discovery*

### **AWARDS, FELLOWSHIPS & APPRECIATION**

Early Career Forum Award, ENDO 2017, Florida, USA.	2016 - 17
Saskatchewan Health Research Foundation (SHRF) Postdoctoral Fellowship, Canada	2015 - 19
Letter of Appreciation in Teaching, University of Mysore, India	2011 & 2014
Poster Presentation, International Conference on Diabetes (EICD), India	2012
PhD Fellowship (Major Research Project), UGC, India	2011

## **PROJECT**

UGC-BSR Start-Up grant (2021 to 2024) – ₹.1000000/-

## **P.G. THESIS AWARDED/SUBMITTED**

Awarded: 03 students (2021)

Awarded: 04 students (2022)

Awarded: 09 students (2023)

## **INTERNATIONAL COLLABORATION ACTIVITIES**

Collaborated with Prof. Antony Williams, Royal Society of Chemistry, US, in elucidating the structure of novel bioactive molecule.

## **MEMBERSHIP OF SCIENTIFIC SOCIETIES**

Endocrine Society, USA;

International Congress of Comparative Endocrinologist, Canada.

## **ADDITIONAL REMARKS**

Reviewer and Adaptor for Wiley Publishers' India:

1. Biochemistry: An Integrative Approach with Expanded Topics (International Adaptation) by John T. Tansey.
2. Textbook of Biochemistry with Clinical Correlations, 7th Edition by Thomas M. Devlin.
3. Essential Biochemistry, 5<sup>th</sup> Edition by Charlotte W. Pratt, Kathleen Cornely.

Reviewer for peer-reviewed journals: General and Comparative Endocrinology, Current Pharmaceutical Design, Brazilian Journal of Microbiology etc.

Additional Qualifications: Training and Courses Successfully Completed: Radiation safety, UACC rodent handling, WHMIS, Biosafety, Laboratory animal care, Laboratory safety, Clinical research methods, R-Excel, Care, breeding and management of laboratory animals, Proteomics and Genomics.

## **PRESENTATIONS**

### **Abstract**

- Kavishankar Gawli. Catechin regulates glucose homeostasis (Abstract No. IDF23-0363). IDF Virtual Congress 2023.
- Kavishankar Gawli and Sadiq Marea. Type 2 diabetes with obesity and hypertension: Prevalance and sociodemographic risk factors in Yemen. 3<sup>rd</sup> ICC23, Heart 2023.
- Kavya Sritha and Kavishankar Gawli. AMPK: a key target for connecting Diabetes and Alzheimer's disease. International Conference on Drug Discovery 2022.
- Kavishankar Gawli. Befunolol as a potential inhibitor of glycogen phosphorylase: an in silico approach. International Conference on Drug Discovery 2022.

- Nesfatin-1 like Peptide is a Novel Metabolic Factor that Suppresses Feeding and Regulates Whole-Body Energy Homeostasis in Male Wistar Rats. ENDO 2017.
- Antidiabetic effect of a novel N-Trisaccharide isolated from *Cucumis prophetarum* on streptozotocin-nicotinamide induced type 2 diabetes, OMICS group, 2013.

## Conference

- Kavya Sritha and Kavishankar Gawli. AMPK: a key target for connecting Diabetes and Alzheimer's disease. International Conference on Drug Discovery 2022. BITS Pilani K K Birla, Goa Campus, 10th and 11th November 2022.
- Kavishankar Gawli. Befunolol as a potential inhibitor of glycogen phosphorylase: an in silico approach. International Conference on Drug Discovery 2022. BITS Pilani K K Birla, Goa Campus, 10th and 11th November 2022. Nesfatin-1 like Peptide is a Novel Metabolic Factor that Suppresses Feeding and Regulates Whole-Body Energy Homeostasis in Male Wistar Rats. Endocrinology Society Abstracts. Poster presentation delivered at ENDO 2017, Orlando, FL, USA.
- NLP is a Novel Metabolic Factor. International Congress of Comparative Endocrinology Abstracts. Poster presentation delivered at ICCE18, Banff, Alberta, Canada.
- N-Trisaccharide: A novel antidiabetic principle isolated from *Cucumis prophetarum* against type 2 diabetes. International conference & exhibition on Pharmacognosy, Phytochemistry & Natural products. Poster presentation delivered at OMICS group 2013, Hyderabad, India
- Antidiabetic and antioxidant potency evaluation of different fractions obtained from *Cucumis prophetarum* fruit. National conference on Emerging Trends in Ayurveda and Herbal Drug Technology. Poster presentation delivered at ETAHDT-2012, DBT, New Delhi, India.
- Antidiabetic and Antioxidant activity of secoisolariciresinol diglucoside (SDG) in streptozotocin induced diabetic rats. First Euro-India International conference on Diabetes. Poster presentation delivered at EICD-2012, Kottayam, Kerala, India.
- Diabetes and Medicinal Plants. National symposium on Immunology Today: Recent Development in Health & Disease. Poster presentation delivered at Dept. of Biochemistry, UOM, India

## SELECTED PUBLICATIONS

- Molecules and targets of antidiabetic interest. **Kavishankar Gawli** and Kavya Sritha Bojja (2024). *Phytomedicine Plus* 4 (1): 100506 <https://www.sciencedirect.com/science/article/pii/S2667031323001021>.
- Type 2 diabetes with obesity and hypertension: prevalence and sociodemographic risk factors in Yemen. Sadiq S Mareai and **Kavishankar Gawli** (2023). *Diabetes Mellitus* 26 (2): 4-10. ISSN 2072-0351 (Print) ISSN 2072-0378 (Online).
- Befunolol as a potential inhibitor of glycogen phosphorylase: an in silico approach. Pavani Nadavapalli, Padmini Nadavapalli, Kavya Sritha Bojja, **Kavishankar Gawli** (2023). *Journal of Applied Pharmaceutical Science* 01-13. ISSN Online: 2231-3354.
- In silico analysis of potential inhibitors of aldose reductase. Padmini Nadavapalli, Pavani Nadavapalli, Kavya Sritha Bojja, **Kavishankar Gawli** (2023). *Journal of Applied Pharmaceutical Science* 01-13. ISSN Online: 2231-3354.
- Hexacosylidenecyclohexane inhibits enzymatic breakdown of dietary sugars and modulates glucose homeostasis. **Kavishankar Gawli**, Akshatha Katteri Nataraja, Sadiq Mareai, Lakshmidevi

Nanjaiah, Mahadev Murthy Subbaiah (2022). Phytomedicine Plus. <https://doi.org/10.1016/j.phyplu.2022.100222>.

- Sadiq S. Mareai, Khalid M Naji, **Kavishankar Gawli**, J Rajesha. (2018). Protective effect of secoisolariciresinol diglycoside in carbon tetrachloride induced hepatotoxicity in rats. *J Clin Cell Immunol.* 9:567.
- **Kavishankar Gawli**, Naresh R, Suraj Unniappan. (2017). Nesfatin-1 Like Peptide is a novel metabolic factor that suppresses feeding and regulates whole-body energy homeostasis in male wistar rats. *PLoS ONE* 12(5): e0178329.
- Naresh R, **Kavishankar Gawli**, Venkatakiran P, Suraj Unniappan. (2017). Metabolic & cardiovascular effects of nesfatin-1: implications in health and disease. *Current Pharma Design.* 23:1-12.
- **Kavishankar Gawli**, N Lakshmidhevi. (2015). Antidiabetic and antioxidant potency evaluation of different fractions obtained from *Cucumis prophetarum* fruit. *Pharmaceutical Biology.* 53:689-94.
- **Kavishankar GB**, Moree SS, Lakshmidhevi N. (2014). Hepatoprotective and antioxidant activity of N-Trisaccharide in different experimental rats. *Phytomedicine.* 21: 1026-1031.
- **Kavishankar GB**, Lakshmidhevi N. (2014). Anti-diabetic effect of a novel N-Trisaccharide isolated from *Cucumis prophetarum* on streptozotocin-nicotinamide induced type 2 diabetic rats. *Phytomedicine.* 21: 624-630.
- Sadiq S. Moree, **Kavishankar GB**, Rajesha J. (2012). Antidiabetic effect of secoisolariciresinol diglycoside in streptozotocin-induced diabetic rats. *Phytomedicine.* 20(3): 237-245.

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