

International Conference on Diabetes and Phytotherapy (ICDP)-2017



18-20 August, 2017
Venue


Annamalai University
Chidambaram, Tamil Nadu
INDIA

**Theme: A Global Platform to Join and Raise Hands
against Diabetes**

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Dear Prof/Dr./Scientist/Researcher

On behalf of the Organizing Committee Members, I welcome you as a **SPEAKER/DELEGATE** at the upcoming “**International Conference on Diabetes and Phytotherapy-(ICDP)-2017**” being organized by influential personalities in the field of Diabetes and Phytotherapy in August **18-20 2017 Annamalainagar (Chidambaram), Tamil Nadu, India.**

Diabetes is increasing in epidemic proportions worldwide. In India alone, more than 68 million people have Diabetes. Diabetes Mellitus is a multi-factorial disease, the available pharmaceuticals, despite their sensible treatment, target mostly one pathway to control hyperglycemia and encounter several side effects. Therefore, new therapeutic paradigms aim to hit several pathways using only one agent such as antidiabetic plants and their phytochemicals may fulfill this need. This conference will provide a platform for discussing the role of natural products and their bioactive constituents in the prevention and control of diabetes.

It is an immense pleasure and privilege having you here with us to honour your hard-earned scientific discoveries, innovations and would like you to share, extend and impart your valuable thoughts to the global scientific community.

With Kind Regards,

Prof. Dr. Leelavinothan Pari

Organizing Secretary –ICDP-2017

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REGISTRATION FEE: Foreign Delegates - 150 USD; Research Scholar/Student - Rs.1200; Industries - Rs.2500; Faculty Member - Rs.1500

Early booking deadline approaching: 21 June 2017

Worldwide 1 in 11 has diabetes (415 million) –Fight against diabetes!



Title: Myrtenal ameliorates hyperglycemia by enhancing GLUT2 through Akt in the skeletal muscle and liver of diabetic rats

Name: xxxxxxxx

Phytopharmacology and Molecular Biology Research Laboratory, Department of Biochemistry and Biotechnology, Faculty of Science, Annamalai University, Annamalai Nagar, 608002 Tamilnadu, India.

Insulin signaling pathway is an important role in glucose utilization in tissues. Our Previous study has established that myrtenal has antihyperglycemic effect against diabetic rats. The aim of this study was to explore the molecular mechanism of myrtenal in Streptozotocin-induced diabetic rats. Experimental diabetes was induced by single intraperitoneal injection of Streptozotocin (STZ) (40 mg/kg bw) in Wistar albino rats. Diabetic rats were administered myrtenal (80 mg/kg bw) for a period of 28 days. Diabetic rats showed an increased the levels of plasma glucose, decreased the levels of plasma insulin, down-regulation of insulin receptor substrate 2 (IRS2), Akt and glucose transporter 2 (GLUT2) in liver and insulin receptor substrate 2 (IRS2), Akt and glucose transporter 4 (GLUT4) protein expression in skeletal muscle. However, myrtenal treated diabetic rats revealed decreased the levels of plasma glucose, improved the plasma insulin levels, up-regulation of IRS2, Akt and GLUT2 in liver and IRS2, Akt and GLUT4 protein expression in skeletal muscle. The up-regulation of glucose transporters enhances the glucose uptake in liver and skeletal muscle. The histopathology and immunohistochemical analysis of the pancreas also corroborates with the above findings. Our findings suggest that myrtenal could be a potent phytochemical in the management of diabetes. **(Up to 250 words)**

Keywords: Diabetic rats; Insulin signaling pathway; Monoterpene; Myrtenal; Pancreas

Biography

XXXX has completed his PhD at the age of 25 years from Andhra University and postdoctoral studies from Stanford University School of Medicine. He is the director of XXXX, a premier Bio-Soft service organization. He has published more than 25 papers in reputed journals and has been serving as an editorial board member of repute. **(Up to 100 words)**

Presenting author details

Full Name:

Contact Number:

Category: Invited Presentation/ Oral presentation/ Poster presentation