

NATIONAL SEMINAR
On
DIABETES - RESEARCH AND REMEDIES

27th & 28th January, 2017

Organized by

**DEPARTMENT OF BIOCHEMISTRY AND
BIOINFORMATICS**



KARPAGAM UNIVERSITY
Karpagam Academy of Higher Education
*(Deemed University Established Under Section 3 of
UGC Act, 1956)*

**Pollachi Main Road, Eachanari Post,
Coimbatore - 641021.**
Phone: 0422-6453777, 6471113-5;
Fax: 0422-2611043
Web: <http://www.kahedu.edu.in>

ABOUT THE UNIVERSITY

Karpagam Charity Trust was founded in the year 1989 with the aim of providing excellent educational facilities by imparting practical knowledge and skills to the youth and also catering the needs of the society in general through charitable deeds.

Karpagam Academy of Higher Education is evolved in the year 2008 for the purpose of conferment of Deemed to be University status by Ministry of Human Resource Development, Vide No. F.9.24/2004.U.3 (A) dated 25.08.08.

The University Education, in today's scenario, is witnessing a huge paradigm shift and at Karpagam, we are geared to be a part of that transformation. We ensure that our education epitomizes excellence in every sphere.

Steered by the dynamic spirit of our Chancellor, Dr. R. Vasanthakumar, an eminent industrialist and philanthropist, Shri. K. Murugaiah, CEO, Dr. S. Sudalaimuthu, Vice Chancellor and Dr. G. Sekar, Registrar, work together to initiate the emergence of excellence.

Our university has been ranked under Elite category for the quality of research (Current Science, 107:3-389-396 2014) in India.

DEPARTMENT OF BIOCHEMISTRY

Established in the year 1995 with UG and extended with PG in 1999. The research was seeded in the year 2003. We have major and minor projects funded by ICMR, UGC, DST and Ministry of Forest and Environment. The thrust area of research includes Cancer biology, Diabetes, Medicinal plants and Microbial Enzymes. The department has more than 200 publications in high impact journals. Some of the

research findings were also patented and a **confidential disclosure agreement with Nuray Chemicals, Pvt. Ltd., Chennai was signed for the discovery of drug for diabetes.**

The Department of Biochemistry has well equipped laboratories with sophisticated equipments, well established Animal house and a separate lab for Animal and Plant Tissue culture Research.

ABOUT THE SEMINAR

- India is stated to be the diabetic capital of the world by 2025. In India alone, the prevalence of diabetes is expected to increase from 31.7 million in 2000 to 79.4 million in 2030. Even though type 2 diabetes mellitus is mainly prevalent in adults it currently occurs more often in children and teen agers because of life style changes.
- The clinical use of chemotherapeutic agents against diabetes is successful in many cases but suffers from major drawbacks due to various secondary complications leading to loss of vision, amputation, renal failure, heart disease and stroke. This seminar will be an eye opener to the young budding scientists in the field of diabetes research.

SCIENTIFIC SESSION

The scope of the proposed seminar will include the following areas:

- **Etiology of diabetes**
- **Prevalence of diabetes**
- **Understanding complications of diabetes**
- **Diagnosis-Traditional to modern**
- **Treatment modalities-Conventional and alternative**
- **Management of diabetes**

LEVEL OF PARTICIPANTS

Professors, Scientists, Research Scholars, Students from Indian Universities, Colleges, Research Institutes, Medical Colleges, Diabetic Research Foundations, Hospitals etc., could attend the conference by sending the registration form along with Demand draft in favor of "Karpagam University" payable at Coimbatore to the Organizing Secretary on or before 15th January, 2017. Spot registration may also be permitted on prior request. Registration fee includes conference kit, working lunch and refreshments.

REGISTRATION FEES

Students	Rs. 400
Research Scholars	Rs. 500
Academicians, Scientists	Rs. 600
For On- spot registration	Rs. 700

(Lodging will be provided to participants in guest house and hotels of their own expense)

ABSTRACT SUBMISSION (FOR ORAL / POSTER)

Abstracts should be submitted in MS-word format with the following specifications. Times New Roman, font size 12 and double spacing, as soft and hard copy. Abstract should not exceed 250 words. The soft copy of the abstracts must be sent to nsdrr.bc.ku@gmail.com

Last date for abstract submission on or before 15th January, 2017.

ORAL / POSTER PRESENTATION AWARDS

- 2 Best Oral Presentation Award
- 2 Best Poster Award

INVITED SPEAKERS

Dr. Chandrasekharan Kartha, RGCB, Trivandrum, Kerala.

Dr. K. Dharmalingam, Aravind Eye Research Foundation, Madurai, Tamilnadu.

Dr. P. Kalaiselvi, Dept of Medical Biochemistry, University of Madras, Chennai.

Dr. S. Gayathri Devi, Dept of Biochemistry & Biotechnology, Avinashilingam University for Women, Coimbatore.

ORGANIZING COMMITTEE

Chief Patron

Dr. R. Vasanthakumar
Chancellor, KU, Coimbatore

Patron

Shri. K. Murugaiah, CEO, KEI
Dr. S. Sudalaimuthu Vice-Chancellor, KU
Dr. G. Sekar, Registrar, KU

Convenor

Dr. M. Palaniswamy, Dean, FASH, KU

Organizing Secretary

Dr. K. Devaki, Associate Professor and Head

Committee members

Dr. K. Poornima, Associate Professor
Dr. J. Anitha, Assistant Professor
Dr. M. Sridhar Muthusami, Assistant Professor
Dr. L. Hariprasath, Assistant Professor

CONTACT

Dr. K. Devaki
Organizing Secretary, NSDRR 2017,
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Karpagam University, Coimbatore.
Email: nsdrr.bc.ku@gmail.com
Mobile: 9442009357

REGISTRATION FORM

NATIONAL SEMINAR On DIABETES-RESEARCH AND REMEDIES

27th & 28th January, 2017

Full Name :
Designation :
Institution Name :
Address :
Contact No :
E Mail :
Title of the abstract (s) :
Preference: () Oral () Poster :
Category (Student / Research Scholar / Teacher / Scientist) :
Mode of Payment:
a) Cash :
b) DD :
DD No and Date :
Amount : Rs.
Name of the bank :
Accommodation Required: Yes / No :
(On Participants expense)
Date :
Place :


Signature

(Photostat copies of the registration form are also accepted)

Event Highlights (Brief report with Photographs)

(Financial Assistance to Seminar / Symposia)

SERB Sanction No:

 <p>Photograph of the convener (Passport size, 4x3)</p>	<p>Convener Name : Dr. K. Devaki</p> <p>Designation : Professor and Head</p> <p>Department : Biochemistry</p> <p>Institute Name & Address : Karpagam Academy of Higher Education, Pollachi Main Road, Eachanari, Coimbatore- 641 021.</p>
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1. Title of the Seminar / Conference / Workshop / Symposium etc.:
National Seminar on Diabetes-Research and Remedies
2. Duration / Period of the organized event: From 27/01/2017 to 28/01/2017
3. Grant Sanctioned: **Rs.75,00.00** (Seventy Five Thousand)
4. Have you submitted the Utilization Certificate,
Statement of Expenditure& Brief Report till date: **Yes / No**
(If No, then please submit the scan copies of the same with this report)
5. Brief Summary of the event (In One Page only):

India is stated to be the diabetic capital of the world by 2025. In India alone, the prevalence of diabetes is expected to increase from 31.7 million in 2000 to 79.4 million in 2030. Even though type 2 diabetes mellitus is mainly prevalent in adults it currently occurs more often in children and teenagers because of life style changes.

The clinical use of chemotherapeutic agents against diabetes is successful in many cases but suffers from major drawbacks due to various secondary complications leading to loss of vision, amputation, renal failure, heart disease and stroke. This seminar served as an eye opener to the young budding scientists in the field of diabetes research. Resources persons with clinical and research background shared their research ideas and modalities to accomplish the research objectives with the participants. Professors, Scientists, Research Scholars, Students from Indian Universities, Colleges, Research Institutes, Medical Colleges, Diabetic Research Foundations, Hospitals etc., attended the conference.

The deliberations are made in the following area

- * Etiology of diabetes
- * Prevalence of diabetes
- * Understanding complications of diabetes
- * Diagnosis-Traditional to modern
- * Treatment modalities-Conventional and alternative
- * Management of diabetes

6. Event Highlights (Technical writing):

The incidence of diabetes is increasing at an alarming rate in India according to Indian council for medical research (ICMR) report. To enhance the importance of diabetes research and to discuss the remedies available in diabetes, a national seminar was organized by our department on 27 and 28th January'2017. D. Chandrasekharan Kartha, Honorary Distinguished Professor, RGCB has inaugurated the seminar and deliver a lecture on "Frontiers in Diabetes Research", wherein he has highlighted various clinical causes and consequences of diabetes. This lecture was followed by another invited lecture from Dr. P. Kalaiselvi on Gymnemic acid, a component of *Gymnema sylvestre* in modulating DPP IV mediated beta cell regeneration. Both the speakers then chaired the oral presentation session – I and gave their expert opinion to young participants. The chair persons also clarified various doubts raised by the participants. The scientific session II started with another invited lecture by Dr. S. Gayathri Devi on "Nano formulation in diabetes management" where she has given an elaborate lecture on green synthesis of nanoparticle and their utilization in diabetes management which was followed by the oral presentation session- II chaired by Dr. S. Gayathri Devi and Dr. K. Devaki. In this session 7 participants presented their findings which were evaluated by the judges and suggestions were also given accordingly. Scientific Session- III started on the second day of the seminar with an invited lecture by Dr. K. Dharmalingam, Director research, Aravind Medical Research Foundation, Madurai who enlightened the participants with a topic "Diabetic retinopathy". In his speech he elaborated the mechanism of development of diabetic retinopathy and the molecular markers for the identification damages in different stages of retinopathy which was very much useful for the research scholars of life sciences. The session was continued by an invited lecture "Diabetic nephropathy" given by Dr. Ramarajan, Assistant Professor, Karpagam Faculty of Medical Sciences and Research, Coimbatore. His speech shed light on complication of diabetes with special reference to nephropathy in clinical samples which was also useful to the student community. Oral presentation session - III, chaired by Dr.K.Dharmalingam and Dr.K.Poornima comprised four oral presentations and add their valuable suggestions to scholars. Scientific Session - IV was poster presentation which was evaluated by Dr.J.Anitha And Dr.L.Hariprasath of biochemistry department . A total of eleven posters were presented and two out of them were chosen for prizes. Evaluation was made based on theme adherence, clarity of presentation, depth of knowledge and satisfactory answer to the queries. A topic entitled "Alternative medicine in the management of diabetes" was given by Dr. K. Devaki. The seminar came to an end by the valedictory address from Dean, FASH, Karpagam University and the prizes were distributed to the winners. The seminar was funded by DST-SERB and Karpagam University. The organizing secretary thanked the delegates for their interaction and thought provoking suggestions to young researchers. She also thanked the DST-SERB, Management and University authorities for their help in the successful conduct of the event.

Participation Information:

S. No	Participation in the event	Nos. Only
I.	Key-note speakers	06
II.	Senior Scientist	05
III.	Young Scientist	20
IV.	Postgraduate Students	20
V.	Undergraduate Students	30
VI.	Industry persons	-
VII.	Other category (Please specify each category)	-
Total		81

Photographs Section: Please paste high resolutions photographs in given spaces below or send the same as attachments, in JPEG format only, by email to seminar.symposia@serb.gov.in.

1. **Inaugural Session:** Honourable Vice Chancellor Dr. S. Sudalai Muthu, Chief Guest Dr. Chandrasekar Kartha, Convenor Dr. K. Devaki and Dr. K. Poornima lighting the lamp to inaugurate the seminar



2. **General Photograph:** Participants listening to the deliberations



3. **Technical Session Photograph:** Dr. S. Gayathri Devi delivering a lecture on Management and treatment of diabetes mellitus by nanomedicine.



4. **Technical Session Photograph:** Young participants receiving best presentation award from the convenor.

