NATIONAL LEVEL LECTURE WORKSHOP ON "AVENUES OF BIOTECHNOLOGY TO NEXT GENERATION-FROM DYNAMICS TO MOLECULAR MECHANISMS"

19th & 20th December, 2019

REGISTRATION FORM

Name Course /Designation Institution Institutional Address (Telephone, E-mail) Residential Address (Telephone, E-mail) Contact Phone No. E-mail ID Registration fee enclosed : Yes/No If Yes, DD No. / Receipt No. Name of the Bank & Branch Date Amount

Place: Date: Signature of the participant

CHIEF PATRON

Dr. R. VASANTHAKUMAR,

President, Karpagam Academy of Higher Education

PATRONS

Shri K. MURUGAIAH, Chief Executive Officer

Dr. S. SUDALAIMUTHU, Vice Chancellor

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CONVENER

Dr. A.Sangilimuthu, Head (i/c), Department of Biotechnology

Organizing Secretary

Dr. Archana.G

Assistant Professor, Department of Biotechnology

Members

Dr. S. Barathkumar
Dr. P.K. Anii Kumar
Dr. A. Arunkumar
Dr. A. Arunkumar
Dr. T. Sivaraman
Dr. A. R. Sumayya
Dr. Dr. Jeba Sweetly
Dr. M. Sivagnanavelmurugan
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Dr. Selvakumar
Dr. A. Ra Sumayya
Dr. D. Jeba Sweetly
Dr. S. Selvakumar
Dr. A. Kalaiselvi

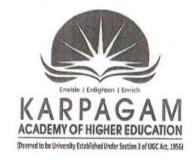
ADDRESS FOR COMMUNICATION: Dr. Archana.G

Organizing Secretary

DST-FIST Supported
Department of Biotechnology
Karpagam Academy of Higher Education,
Pollachi Main Road, Eachanari – Post,
Colmbatore – 641 021, Tamilnadu
e-mail: archana.g@kahedu.edu.in:Mobile: +919791082675

NATIONAL LEVEL LECTURE WORKSHOP ON "AVENUES OF BIOTECHNOLOGY TO NEXT GENERATION-FROM DYNAMICS TO MOLECULAR MECHANISMS"

19th & 20th December, 2019



Organized by

DST-FIST Supported

DEPARTMENT OF BIOTECHNOLOGY, FASH

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be 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



Karpagam Academy of Higher Education

The Karpagam Academy of Higher Education is located in a sprawling, green, lush campus extending 26 acres. It has emerged from Karpagam Arts & Science College (Autonomous) a unit under the Karpagam Charity Trust established in 1989 founded by the great philanthropist, industrialist and educationist Dr.R. Vasanthakumar with the vision of instilling originality in the learning minds, impart quality and value-based education and engage in Research and Development with the noble objective of creating unique men and women to serve and lead the society.

Karpagam Academy of Higher Education was conferred Deemed to be University status by the Ministry of Human Resource Development in August 2008 under section 3 of the UGC Act 1956. It is a recognized Deemed University by the UGC. It is a member of the Association of Indian Universities. The University has been accredited by the NAAC in 2015. It has been Ranked 90th place by NIRF, MHRD, Government of India in 2017.

The University has 4 Faculty - Faculty of Arts, Science and Humanities, Faculty of Engineering, Faculty of Architecture and Faculty of Pharmacy. It has 25 Departments offering a wide range of 78 academic programmes from graduation to doctorate levels. The University has more than 5,000 students on campus, with a strong contingent of more than 350 teaching faculty, well supported by an almost equal number of administrative and support staff. Faculty have got good number of research projects with financial support from various funding agencies like DBT / DST / ICMR and have filed more than 45 patents. As many as 1600 Research papers have been published by our faculty in SCOPUS and Peer Reviewed Journals. The University has entered collaboration with foreign Universities, industries, Research bodies for mutual benefit. The institute ensures that education epitomizes excellence in every sphere and students are prepared to take on the challenges of the day and become the next generation leaders.

The Department of Biotechnology at KAHE is a center for excellence with DST-FIST, New Delhi Sponsored in research. Biotechnology is the commercial application of living organisms and their metabolites can lead to the formation of pharmaceutical drugs. This implies a set of laboratory techniques developed within the last 20 years that have been responsible for the tremendous scientific and commercial interest in biotechnology, the rise of many new companies, and the redirection of research efforts and financial resources among established companies and universities.

Academics

The Department offers 3-years UG degree and a 2-years PG degree, M.Phil and Ph.D research programme in Biotechnology.

Facilities

The Department has a well-furnished sofistigated lab, plant tissue culture lab, animal cell culture lab and instrumentation lab. Walk-in celd room, computer lab and central instrumentation facility with well sophisticated instruments including HPLC, HPTLC, RT-PCR, AAS, FT-IR, Gel Documentation system, PCR, ELISA, Fermentor, Lyophilizer, Fluorescence microscope, UV-Visible Spectrophotometer, asimal house facility etc., are available for teaching and research activities.

This 2-days workshop program will provide new ideas to the individuals/students regarding the basic techniques in molecular biology and genetic engineering using simple techniques. The workshop covers the topics regarding molecular advancement and extraction of bioactive compounds from bio waste using latest molecular techniques and assessing their properties at invitro level for potential applications in agriculture, pharma and various other fields.

The objectives of the workshop are:

- The 2 days lecture workshop will be of great help to students/ researchers/ faculty/ scientists in learning the latest science and technology related to molecular techniques.
- The workshop would provide an advanced understanding on the core principles and topics on how metabolites and metabolic networks impact gene regulation, recently discovered roles of metabolite molecules in disease, how this could open novel therapeutic avenues and their experimental basis.
- The workshop would enable students to acquire higher level thinking skills that are necessary for scientists and understanding of molecular techniques through the effective lecture and demonstration series.

The workshop will be held at the Department of Biotechnology, KAHE, Eachanari-Post, Pollachi Main Road, Coimbatore – 641 021.

B.Sc. / M.Sc., students and research scholars of Botany / Microbiology / Biochemistry / Biotechnology/life sciences disciplines.

Research Scholar ------Rs. 750/-Faculty member -------Rs. 1000/-

(Covers Workshop kit, working lunch and refreshments)

The number of participants had been limited to 25. The participants can pay the registration fee through a crossed bank draft drawn in favour of 'Karpagam Academy of Higher Education', payable at Coimbatore and shall send the same along with the duly filled registration form on or before 30th November, 2019 to the correspondence mentioned below.

Dr. ARCHANA.G
Organizing Secretary,
Department of Biotechnology, FASH
Karpagam Academy of Higher Education
Eachanari (Post), Pollachi Main Road, Coimbatore - 641021.
E-mail: archana.g@kahedu.edu.in: Phone: +91-9791082675.

| | Workshop Schedule | |
|-------|----------------------------------|-------------------------|
| S.No | Name and Address of | Proposed Title |
| S.IN0 | Resource person | of the Talk |
| | Day 1 (19.12.2019) | |
| | Registration | |
| | Inauguration | |
| | Phase I | |
| 1. | Dr. Kaushik Rajaram | Lecture talk on |
| | Assistant Professor, | "In vitro Display |
| | Department of Microbiology, | Techniques " |
| | CUTN, Neelakudi, | |
| | Thiruvarur – 610 005 | |
| | Phase II | T |
| 2. | Dr.A.Bharathi | Lecture talk on |
| | Assistant Professor, | "Molecular tools |
| | PG & Research Department of | of Biotechnology |
| | Advanced Zoology and | in Biomedical |
| | Biotechnology, | Applications" |
| | Sir Theagaraya College, Chennai- | |
| | 21 | - "D : |
| 3. | Dr.S.Bharath Kumar | Demo on "Basic |
| | Assistant Professor, | Molecular |
| | Department of Biotechnology, | Techniques" |
| | KAHE, Coimbatore-641021 | |
| | Day 2 (20.12.2019) | |
| | Phase III | T 11 |
| 4. | Dr. P. Ganesh | Lecture talk on |
| | Assistant Professor, | "Role of |
| | Division of Microbiology | Biotechnology in |
| | Annamalai University | Organic |
| | Chidambaram. | Farming" |
| 5. | Dr. K. Kolanjinathan | Demo on "Advancement of |
| | Assistant Professor, | 1 401 1 00000 |
| | Division of Microbiology | Food- |
| | Annamalai University | Biotechnology" |
| | Chidambaram. | <u> </u> |
| | Phase IV | |
| 6. | Valedictory Function | |

KARPAGAM ACADEMY OF HIGHER EDUCATION



(Deemed to be University)

Established under Section 3 of UGC Act 1956 Pollachi Main Road, Eachanari Post, Coimbatore – 641 021

DST – FIST SUPPORTED DEPARTMENT OF BIOTECHNOLOGY, FASH

Redially invites you all for the

Mational level lecture

workshop on

"AVA NUES BIOTECHNOLOGY TO NEXT GENERATION-FROM DYNAMICS TO LECULA MECHNISMS"

On 19th & Decomber, 2019,

Pr sides

Dr. S. SUDALAIMUTHE

Vice Chancellor,

Karpagam Academy of Higher Ed, cation

Coimbatore

ALL ARE INVITED

aug. of

PROGRAMME

Prayer song

Time: 9.30am

Welcome Address

Dr. A. SANGILIMUTHU

Head of the Department (i/c),

Department of Biotechnology, FASH

Presidential Address

Dr. S. SUDALAIMUTHU,

Vice Chancellor,

Karpagam Academy of Higher Education,

Coimbatore

Vote of Thanks

Dr. G. ARCHANA,

Assistant Professor,

Department of Biotechnology, FASH

National Anthem

Venue: MBA Seminar Hall, KAHE

Report on National Level Lecture Workshop on "Avenues of Biotechnology To Next Generation-From Dynamics To Molecular Mechanisms" 2019

As the Department of Biotechnology, conducted a National Level Lecture Workshop on "Avenues of Biotechnology To Next Generation-From Dynamics To Molecular Mechanisms" during 19th & 20th December, 2019 [Venue: Department of Biotechnology FASH, Karpagam Academy of Higher Education]. There were nearly twenty five students who attended the National Workshop. There was the presence of five well qualified speakers Dr.Koushik Rajaram,Asst Prof,Life Sciences, CUTN,Thiruvarur,Tamilnadu, Dr. A.Bharathi Assistant Professor, PG & Research Department of Advanced Zoology and Biotechnology, Sir Theagaraya College, Chennai, Dr. P. Ganesh Assistant Professor, Division of Microbiology Annamalai University Chidambaram, Dr. K. Kolanjinathan, Assistant Professor, Division of Microbiology, Annamalai University, Chidambaram and Dr.S.Barathkumar, Assistant Professor, Department of Biotechnology FASH, Karpagam Academy of Higher Education. The first day of lecture workshop was carried out by Dr.Koushik Rajaram and his Lecture was about "Invitro Display Techniques". His lecture gave splendid information about different invitro techniques corned with molecular biology. He gave elaborate information about for the study of protein-protein, protein-peptide, and protein-DNA interactions that uses bacteriophages.

He also gave a vivid description about the application of phage techniques in the determination of interaction partners of a protein (which would be used as the immobilised phage "bait" with a DNA library consisting of all coding sequences of a cell, tissue or organism) in order to study the function or the mechanism of the protein. The next session was carried out by Dr. A.Bharathi on Molecular tools of Biotechnology in Biomedical Applications which gave an elaborate throw on recent molecular diagnostics and their development. After completion of the morning session the afternoon session was carried out as a training workshop on molecular techniques, which was very useful for the students to identify the good quality of marine food. The hands on training on identification of edible and fresh fish species from landing was very precisely demonstrated by Dr.S.Barathkumar.

The Second day of the lecture workshop was carried out by Dr. P. Ganesh and her Lecture was about "Role of Biotechnology in Organic Farming". He delivered a wonderful lecture with real time information about advanced techniques in biotechnology and their impact on Human life. He also gave a brief distinguish between organic foods and genetically modified foods. He continued with nanotechnology in agriculture and genetical problems faced by the next generation. After completion of the forenoon seminar, the afternoon session was carried out as hands on training on identification on micrometry and oculometry, which was performed by Dr. K. Kolanjinathan from Annamalai University. He explained the technique well which exposed his high throughput on the relevant field.

Thus this lecture workshop was very much useful to target academic and scientific communities especially to the students and had a good exposure about advanced molecular techniques and its implications on day today life.

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