

**National Conference on  
“Impacts of Pollution on Health and Restoration of Quality Environment  
Through Biotechnology Applications” (EBAC- 2018)  
2 and 3 February 2018**

**Organized by**

**Postgraduate and Research Department of Zoology  
&  
Postgraduate Department of Immunology and Microbiology  
The American College  
(An Autonomous Institution Affiliated to Madurai Kamaraj University)  
(Accredited by NAAC with Grade A and a CGPA of 3.46 on a 4 point scale)  
Madurai- 625 002, Tamil Nadu.**

**Dear friends and colleagues**

We are happy to invite you to participate in the National Conference on “ Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications” on 2 and 3 February, 2018 to be held in The American College, Madurai.

**About the College**

Established in 1881, The American College is one of the first set of seven colleges to be made autonomous by the UGC in 1977-1978. Today the college offers thirty undergraduate and sixteen Postgraduate programmes. There are seven research centres offering M.Phil., and Ph.D programmes in various disciplines, and two autonomous centres like Department of Applied Sciences (DAS) and Study Centre for Indian Literature in English and Translation (SCILET) receiving national and international attention. Its alumni shine as luminaries internationally as scientists, intellectuals, administrators, corporate managers, statesmen and leaders. The College has active theatre groups, National Service Scheme, N.C.C. units and Service Learning Programme (SLP) that offer students a wide variety of opportunities to serve society. These activities add up to make the campus a vibrant for developing one's personality. Recently the college is reaccredited by NAAC with “A” Grade and a CGPA of 3.46 on a 4 point scale. The college has been sanctioned with DST-FIST grant and awarded with DBT- Star college scheme.

**Department of Zoology**

Department of Zoology was functioning as a collegiate department since the inception of The American College as a second grade college in 1881. Zoology was offered as a Part II subject to B.A. degree Group II in 1913. Postgraduate department of Zoology was added under Madras University in July 1959. B.Sc. special Zoology was offered from 1969 under Madurai Kamaraj University. Postgraduate department was recognized as Research Centre in 1982. M.Phil. programme was started from July 1987. The Department is awarded with DST-FIST grant and DBT-Star college scheme.

**Department of Immunology and Microbiology**

The undergraduate B.Sc. Microbiology (Spl. Immunology) was started in the year 1997 to meet the growing demand in the science community. The Department was upgraded as the Postgraduate Department of Immunology and Microbiology in the year 2002. This Department aims to train students in the working of the immune system, its activation, its role in the prevention of diseases, the immunological techniques & technologies underlying diagnostics and therapeutics. Core courses include Human and Veterinary Immunology, Molecular Immunology, Immunogenetics, Immunology of Infectious Diseases, Vaccinology and Immuno- Technology, Fundamentals of Microbiology, Microbial Physiology, Microbial Genetics and Molecular Biology, Microbial Gene Technology, Food and Dairy, Agriculture, Veterinary, Medical and Environmental Microbiology. This programme also includes allied courses like Cell Culture, Bioprocess

Technology and Bioinformatics. The programme in vogue provides hands on practical training in Immunological and Microbiological techniques and research projects in areas such as Isolation and Characterization of Microbes from vectors, Epidemiology of vector borne diseases, Assessment of the efficacy of Diagnostic kits, Genotoxicity, Agricultural and Environmental Microbiology, rDNA Technology and Cell Culture. Further, each student has the option to undergo summer training in research institutes/industries for a period of four to six weeks during vacation between the first and second year of study.

### **Objective of the conference**

The two day national conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications”** will highlight the detrimental effects of pollution on the health of organisms and the environment and biotechnological applications employed to restore its pristine nature. This conference will bring scientists of national repute together to share ideas and knowledge and to provide greater impact and motivation to young scientists and students to focus on their research career.

### **Abstract Submission**

Abstracts are invited for oral/poster presentation. Abstract should be submitted in MS word format with the following specifications: Times New Roman, font size-12, 1.5 line spacing, as a soft copy. It should include title, author(s), affiliation(s) of the authors and keywords (4-6). It should not exceed 250 words and must be relevant to the conference theme. The soft copy of the abstracts must be sent to the email id: [ebcamc2018@gmail.com](mailto:ebcamc2018@gmail.com)

**Poster Dimensions:** 3' × 4'. All the presenters are requested to be present during the poster session to answer questions raised by the delegates viewing the posters. Poster should contain concise title, author and author affiliation, brief abstract, introduction, methodology, results and discussion, acknowledgement and references. Scientific committee will decide whether an abstract should be presented as a oral or poster presentation. Their decision is final and it will be communicated to each presenter in advance for her/his presentation.

Hard and soft copy of full length papers not exceeding 6 pages prepared on MS word format, Times New Roman, font size-12, with single spacing should be sent after the acceptance of the abstracts on or before 19<sup>th</sup> January, 2018. The selected papers will be published as conference proceedings with ISBN number. Cash Prize with certificate will be awarded for the best oral/poster presentation.

### **Important dates:**

Abstract Submission:	23 December, 2017
Acceptance Notification:	10 January, 2018
Last date for Full length paper submission:	19 January, 2018
Accommodation confirmation:	19 January, 2018

### **Registration fee**

Students and Research scholars	Rs. 500
Faculty/ Scientists	Rs. 700
Delegates from Industries	Rs. 1000

All payments are to be made by demand draft on any nationalized bank in favour of **“Bursar, The American College”**, payable at **Madurai** and should be sent to the **Organising secretary** on or before **19 January, 2018**.

### **Accommodation**

Accommodation can be arranged on request and payment for outstation participants in hotels.

**Venue:** B1 Seminar Hall, Binghamton Hall, The American College, Madurai

## **ORGANIZING COMMITTEE**

### **CHIEF PATRON**

**Dr. M. Davamani Christofer**  
Principal and Secretary

### **PATRON**

**Dr. J. Helen Ratna Monica**  
Bursar

### **ADVISOR**

**Dr. K. Navaneethakannan,**  
Associate Professor and Head, PG and Research Department of Zoology

### **ORGANIZING SECRETARY**

**Dr. A. Joseph Thatheyus,**  
Assistant Professor and UG Head, Department of Zoology

### **CONVENORS**

**Dr. E. Joy Sharmila**

Assistant Professor, Department of Zoology

**Mr. M. Andrew Pradeep**

UG Head, Department of Microbiology

### **EXECUTIVE MEMBERS**

#### **Zoology**

Dr. P. Velladurai  
Dr. T. Frederick Rajkumar  
Mr. M. Rajesh  
Mr. A. David Antony Raj  
Dr. T. Angeline  
Dr. Sivaruban Thambirathinam  
Mr. K. J. Dhananjeyan  
Dr. P. Dailiah Roopha  
Mrs. J. Stella Mary  
Dr. H. Raghuram  
Mrs. Jenita Sathya Priya

#### **Immunology and Microbiology**

Mr. J. Immanuel Suresh  
Ms. V. Nalini  
Mrs. D. Ramya  
Ms. N. Jennifer Michellin Kiruba  
Dr. A. Deborah Gnana Selvam  
Mrs. P. Margaret Sangeetha  
Mrs. J. Shirly Angelin

## ADVISORY COMMITTEE

### National

Prof. Dr. P. Gunasekaran, Vice Chancellor, VIT University, Bhopal Campus.  
Prof. Dr. K Dhinakar Raj, Department of Animal Biotechnology, TANUVAS, Chennai.  
Dr. K. Thangaraj, Sr. Principal Scientist, CCMB, Hyderabad.  
Prof. Dr. K. Murugan, Vice Chancellor, Thiruvalluvar University, Vellore.  
Prof. Dr. K. Muthuchezhiyan, Former Vice Chancellor, Periyar University, Salem.  
Chairperson, School of Energy, Environment, and Natural Resources, MKU, Madurai  
Dr. K. Vasantharaj David, International Consultant, GLP, Safety Evaluation and Crop Protection, Chennai.  
Prof. Dr. M. Krishnan, Central University of Rajasthan, Rajasthan.  
Dr. A. P. Lipton, Visiting Research Professor (NER), DBT, GoI.  
Dr. R. Dinakaran Michael, Dean of Life Sciences, Vel's University, Chennai.  
Dr. R. Selvaraj Pandian, Former Professor, The American College, Madurai.  
Dr. M. Selvanayagam, Dean-Research, LICET, Chennai.  
Dr. V. Arul, Head, Department of Biotechnology, Pondicherry University, Pondicherry.  
Rev. Sr. Dr. T. Nirmala, Principal, JAC, Periyakulam.  
Prof. Dr. A. Jebanesan, Professor, Annamalai University, Annamalainagar, Chidambaram.  
Dr. S. John William, Associate Professor, Loyola College, Chennai.  
Rev. Fr. Dr. Baby Joseph, Research Dean, HITS, Chennai.  
Dr. Kaustav Nayak, Research Scientist, ICGEB, New Delhi.

### International

Dr. Thamarai Janganan, University of Bedfordshire, UK.  
Dr. Franklin Christopher Vincent, Universitat Regensburg, Germany.  
Dr. Rahuman Sheriff, EMBL-EBI, Cambridge, UK.  
Dr. S. Jonathan Nimal, CAAS/Hubei University, China.  
Dr. B. A. Venmathi Maran, Universiti Malaysia Salah, Malaysia.  
Dr. C. Sathesh Prabhu, UNIST, Korea.  
Dr. U. Gowthaman, Yale University, USA.  
Dr. C. Arun Richard, Senior Scientist, Confer Health Inc., USA

### FOR FURTHER DETAILS, CONTACT

**Dr. A. Joseph Thatheyus, M. Sc., M.Ed., PhD.**

**Organizing Secretary,**

Assistant Professor and UG Head,

PG and Research Department of Zoology,

Director, American College-Community College,

The American College, Madurai-625002.

Email ID: ebcamc2018@gmail.com

**National Conference on “Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications”**

**2 and 3 February 2018**

**Venue:** B 1 Seminar Hall, Binghampton Hall, The American College, Madurai.

**Programme details**

**02.02.2018, Friday**

<b>Time</b>	<b>Schedule</b>
9.00 am	Registration
10.00 – 11.00 am	<b>Inauguration and Keynote address</b>
11.15-11.30 am	<b>Tea Break</b>
11.30 – 11.55 am	Invited Lecture I <b>Dr. K. Thangaraj,</b> Sr. Principal Scientist Centre for Cellular & Molecular Biology (CCMB), Hyderabad <i>Topic: Impact of Environment in Health and Diseases</i> <a href="http://www.ccmb.res.in/index.php?view=scientist&amp;mid=0&amp;id=63&amp;grpId=55">http://www.ccmb.res.in/index.php?view=scientist&amp;mid=0&amp;id=63&amp;grpId=55</a>
12.00 – 12. 25 pm	Invited Lecture II <b>Dr. Kaustav Nayak</b> Research Scientist, ICGEB, New Delhi <i>Topic: Effect of Allergens on the Immune System</i> <a href="https://in.linkedin.com/in/kaustav-nayak-58744643">https://in.linkedin.com/in/kaustav-nayak-58744643</a>
12.30 – 12.55 pm	Invited Lecture III <b>Prof . Dr. A. J. Solomon Raju</b> Professor, Department of Environmental Sciences, Andhra University, Visakhapatnam. <i>Topic: Impacts of Bio-pollution on Human Health.</i> <a href="http://www.andhrauniversity.edu.in/andhrauniversity/Resume.php?var=E680">http://www.andhrauniversity.edu.in/andhrauniversity/Resume.php?var=E680</a>
1.00 – 2.00 pm	<b>Lunch Break</b>
2.00 – 2.25 pm	Invited lecture IV <b>Prof. Dr. A.G. Murugesan</b> Professor and Head, SPK Centre for Environmental Sciences M.S. University, Tirunelveli. <i>Topic: Impact of use and throw plastics on environment and life.</i> <a href="http://www.msuniv.ac.in/Profile/Environmental%20Science/Dr.A.G.Murugesan.pdf">http://www.msuniv.ac.in/Profile/Environmental%20Science/Dr.A.G.Murugesan.pdf</a>
2.30 – 2.55 pm	Invited Lecture V <b>Prof. Dr. N. Chandrasekaran</b> Sr. Professor & Director Centre for Nanobiotechnology VIT University , Vellore <i>Topic: Green Nano-biotechnology</i> <a href="http://chennai.vit.ac.in/research/centers/cnbt/people">http://chennai.vit.ac.in/research/centers/cnbt/people</a>

3.00 – 3.15 pm	<b>Tea break</b>
3.15 – 3.40 pm	Invited Lecture VI <b>Dr.R.Sundararaj</b> Scientist G Forest and Wood Protection Division, Institute of Wood Science & Technology Bangalore. <i>Topic: Trees for healthy environment and mitigation of climate change.</i> <a href="http://www.iaws.org.in/contactus.htm">http://www.iaws.org.in/contactus.htm</a>
3.45 – 5.00 pm	Oral / Poster Presentation

**03.02.2018, Saturday**

<b>Time</b>	<b>Schedule</b>
9.30 – 9.55 am	Invited Lecture VII <b>Prof. Dr. R. Muthukumar</b> Professor and Head Department of Environmental Science & Dean, School of Earth Science Systems Central University of Kerala, Kasargod, Kerala. <i>Topic: " Sustainable Production of Energy from Wastewater - A Novel Approach"</i> <a href="http://cukerala.ac.in/index.php?option=com_content&amp;view=category&amp;id=95&amp;language=en">http://cukerala.ac.in/index.php?option=com_content&amp;view=category&amp;id=95&amp;language=en</a>
10.00 – 10.25 am	Invited Lecture VIII <b>Dr. Joseph Selvin</b> Coordinator (Microbiology) School of Life Sciences, Pondicherry University Puducherry. <i>Topic: Exploration – Exploitation- Extinction.</i> <a href="http://www.pondiuni.edu.in/profile/dr-joseph-selvin">http://www.pondiuni.edu.in/profile/dr-joseph-selvin</a>
10.30 – 10.55 am	Invited Lecture IX <b>Dr. V. Salom Gnana Thanga</b> Associate Professor Department of Environmental Sciences University of Kerala Kariavattom, Thiruvananthapuram, Kerala, India. <i>Topic: "Microbial degradation of persistent organic pollutants"</i> <a href="http://www.keralauniversity.ac.in/dept/staff-Details">http://www.keralauniversity.ac.in/dept/staff-Details</a>

11.00-11.15 am	<b>Tea Break</b>
11.20 – 11.45 am	<p>Invited Lecture X</p> <p><b>Dr. G. Kumaresan</b>  Professor  Department of Genetics, School of Biological Sciences,  Madurai Kamaraj University, Madurai.</p> <p><i>Topic: Environment and Cancer</i></p> <p><a href="http://www.genomicsmku.org/FAC%20PROF/KUMARESAN.html">http://www.genomicsmku.org/FAC%20PROF/KUMARESAN.html</a></p>
11.50 – 12. 15 pm	<p>Invited Lecture XI</p> <p><b>Dr. A. Joseph Thatheyus</b>  Head, UG Dept of Zoology  The American College  Madurai.</p> <p><i>Topic: Bioremoval of Heavy metals</i></p> <p><a href="http://americancollege.edu.in/wp-content/uploads/2015/06/A.-JOSEPH-THATHEYUS.pdf">http://americancollege.edu.in/wp-content/uploads/2015/06/A.-JOSEPH-THATHEYUS.pdf</a>  <a href="http://americancollege.edu.in/departments/biological-sciences/zoology/zoology-department-faculty/">http://americancollege.edu.in/departments/biological-sciences/zoology/zoology-department-faculty/</a></p>
12.20 – 1.00 pm	Oral Presentation
1.00 – 2.00 pm	<b>Lunch Break</b>
2.00 – 4.00 pm	Oral/ Poster Presentation
4.00 – 5.00 pm	<b>Valedictory session</b>