
	<p><b>Modular Courses in ‘Regulatory Toxicologic Pathology’ at</b>  <b>Sree Chitra Tirunal Institute for Medical Sciences and Technology</b>  <b>Trivandrum 695012, India</b></p>	
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### Course announcement

## ‘Regulatory Toxicologic Pathology; Module III:

**Toxicologic Pathology of Lymphoid (immune) System, Endocrine System, Male Genital Systems and Female Genital system.**

**(Thursday, 08<sup>th</sup> to Saturday 10<sup>th</sup> February, 2018)**

Sree Chitra Tirunal Institute for Medical Sciences and Technology organises Modular Courses in ‘Regulatory Toxicologic Pathology’. The course has the close supervision of Dr C Gopinath, an internationally acclaimed toxicologic pathologist practicing the discipline in UK who acts as the Course Adviser for the programme, with a range of international faculty. The first and the second module were organised in **February, 2017** and **August, 2017** at Thiruvananthapuram and covered General Pathology and Toxicologic Pathology of Nervous, Cardiovascular, Urinary, hepatobiliary, gastrointestinal and respiratory systems. Dr C Gopinath (UK), Dr K Weber (Switzerland), Dr P Mullins (UK), Dr JR Foster, Dr MR Alison (UK) and Dr V Mowat (UK) were the faculty. Participants representing industry, academia, research community and graduate students attended the course.

After the successful conduct of the first and second modules, the organisers announce the Module-III (Thursday, 08<sup>th</sup>to Saturday, 10<sup>th</sup> February 2018) on the following topics.

- Toxicologic Pathology of lymphoid (immune) system
- Toxicologic Pathology of male and female genital systems
- Toxicologic Pathology of Endocrine system

The course is intended for Toxicologic Pathologists (as a refresher course) and recent graduates looking forward to taking Toxicologic Pathology as a career speciality. However, participants from academia, research-community and graduate students have also attended the

previous modules and found the course useful for advancing their areas of expertise on drug discovery and teaching/training.

Please note that attendance is restricted to registered candidates and there is no on the spot registration. Registration closes on 31 December 2017.

Course Fee: Rs 20,000/- per head or Rs 10,000/- per head for one day. A limited number of industry-sponsored scholarships are available that cover partial tuition fee (up to 50%). Please contact the Course Director for further details or clarifications.

The payment shall be acceptable only in the form of Demand Draft (or multi-city cheque), in favour of Course Director, Experimental Pathology Courses, S.C.T.I.M.S.T., payable at any nationalised bank in Thiruvananthapuram (Trivandrum) or direct bank transfer to Account No. 67388598374 (CIF No. 77154039600) in favour of 'EXPERIMENTAL PATHOLOGY COURSE' at the Poojappura Branch of the State Bank of India (IFSC: SBIN 0070032), Thiruvananthapuram 695012.

Contact details for all correspondences:

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Web site: <http://asvp.info/> or <https://www.sctimst.ac.in/Conferences/>

### **List of faculty for Module III (08<sup>th</sup> to 10th February, 2018)**



**Dr C Gopinath**

Dr Chirukandath Gopinath is an independent consultant in Toxicological pathology working from UK. He took his veterinary degree at Kerala Veterinary College, India. His postgraduate qualifications were from the university of Liverpool, UK where he also worked as lecturer in veterinary pathology. He was director of pathology and chief scientific officer at Huntingdon Research centre, Huntingdon, UK for several years. During his career in toxicological pathology he had held positions of President, BSTP, IFSTP and European director of IATP, chairman of board of examiners in Veterinary Pathology, Royal College of Pathology, London. He has chaired and participated in several PWGs and SAGs solving pathology issues. Dr Gopinath has published several papers in peer-reviewed journals and authored a few books and chapters in topics of toxicological pathology. He also has conducted educational seminars on topics in toxicologic pathology in different parts of the world.

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**Prof John R Foster**

Dr John Foster started his career as a Toxicological Pathologists in 1978 at the British Industrial Biological Research Association, after PhD from the University College, Cardiff (UK). Later he

worked in ICI Central Toxicology Laboratory (1983-2000) and AstraZeneca Pharmaceuticals (2001-2013). He became a member of the UK's Royal College of Pathologists (RCPath) in 1988, and a Fellow in 1997. He was Chair of the panel of Examiners (Toxicology Specialty, 2006-2012) of the Royal College and President of the British Society of Toxicological Pathologists (BSTP, 2002-2004). He holds Honorary Fellowship of the BSTP and the Latin American Society of Toxicologic Pathology and current Vice President of the International Academy of Toxicologic Pathology. In 2010, he was made an Emeritus Professor (Faculty of Health and Medical Sciences) at the University of Surrey. He is an expert panel member of the UK Food Standards Agency's Committee on Toxicity of Chemicals in Food and the Environment. He has published over 150 research papers, review articles and book chapters in toxicological pathology, and was the Editor in Chief of the journal, Toxicologic Pathology, from 2008-2013. Dr Foster currently works as an independent consultant pathologist for ToxPath Sciences Ltd (UK) and also Regulatory Science Associates (UK).

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**Dr Nigel Roome**

Dr. Nigel Roome has worked in the Pharmaceutical Industry for more than the last 30 years and currently is an independent expert in Toxicology and Toxicologic Pathology working with a variety of pharmaceutical companies, Non-Governmental Organizations (NGOs) and consulting firms on scientific problem solving, dossier preparation, due diligences and interactions with regulatory agencies. He is also involved in teaching on several European and International programs. He is based in Versailles, France. After his initial B.Sc. degree in Physiology and M.Sc. degree in Experimental Pathology and Toxicology, he completed his Ph.D. in Experimental Pathology at the University of London. After Post-Doctoral experience at the

University of Marburg, he joined Synthelabo in 1984 as a Toxicological Pathologist with a speciality in Electron Microscopy. Since then he has held a variety of positions within the companies which now constitute Sanofi (including Head of Pathology, Head of Scientific Projects for Drug Safety and Global Scientific Coordination for the Safety Aspects of Development Projects). Most recently, he held a position within Sanofi R&D as a Global Scientific Advisor with responsibility for the overview of the scientific content and conformity of Regulatory Submissions and responses to questions from Agencies on safety issues and risk assessment as well as a role for evaluation of drug safety aspects of external opportunities and collaborations with both Governmental and Academic Institutions.

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Regulatory Toxicologic Pathology (RTP) is essentially professional practice of pathology as applied to Regulatory Toxicology. It involves morphological and functional evaluation of organs/tissues collected during safety studies. In India, it is mostly a self-trained or on-job-acquired specialty skill rather than earned-skill at university settings. Toxicological Pathology is largely practiced as a subspecialty, mainly by veterinary and medically qualified pathologists. In reality, no university in the country has any formal higher education or training program in the subject and only a very few institutions in the public sector have toxicologic pathology testing facilities. Therefore, the opportunity for acquiring toxicologic pathology skill is limited because of poor accessibility to trainers and training centres. On the other hand, the rapidly expanding pharmaceutical industry in the country needs more manpower to perform toxicologic pathology in toxicity studies. Very often they are asked to practice the discipline on internationally accredited quality platforms.

Sree Chitra Tirunal Institute for Medical Sciences and Technology is an institute of national importance under the ministry of Science and Technology, Government of India. Development and testing of biomedical devices and biomaterials are major activities of the Biomedical Technology Wing of the Institute. It is also a testing and calibration laboratory that functions on ISO17025 system and certified by COFRAC, the French accreditation agency. The Division of Experimental Pathology (EXP), a constituent laboratory of the Biomedical Technology Wing, practices Toxicologic Pathology. The Division has three Veterinary Pathologists and offers Experimental Pathology Module for MSc/ MPhil/ PhD courses.

The Modular courses in Regulatory Toxicologic Pathology teaches toxicologic pathology of induced lesions of all organ systems in laboratory animals, as required for safety evaluation studies. However, participants from academia, research-community and graduate students have found the content of the course very useful for advancing their skill/knowledge in experimental pathology. The course organisers also welcome applications from persons with basic skills and interest in furthering their career in histology. The training has been designed as four standalone Modules lead by eminent Toxicologic Pathologists around the globe and will be useful to toxicologic pathologists as a refresher course or those who want to follow a career in toxicologic pathology.

### **Organisation of the course modules**

The topics expected to be covered during the course is given below and they have been organised in modules (3-4 days each).

***Module-I: February, 2017 (3 or 4 days)***

1. General Pathology
2. Toxicologic Pathology of Nervous System and Organs of Special Senses
3. Toxicologic Pathology of Cardiovascular System
4. Toxicologic Pathology of Urinary system

***Module-II: August, 2017 (3 or 4 days)***

5. Toxicologic Pathology of Gastrointestinal System
6. Toxicologic Pathology of Hepatobiliary System
7. Toxicologic Pathology of Respiratory system

***Module-III: February, 2018 (3 or 4 days)***

8. Toxicologic Pathology of Male Reproductive system
9. Toxicologic Pathology of Female Reproductive system
10. Toxicologic Pathology of lymphoid (Immune) system
11. Toxicologic Pathology of Endocrine system

***Module-IV: August, 2018 (3 or 4 days)***

1. Toxicologic Pathology of Musculoskeletal and skin
2. Local effects of implantation of biomaterials (soft tissue)
3. Local effects of implantation of biomaterials (hard tissue)

**Salient features of the Modular Course in Regulatory Toxicologic Pathology**

- Each module shall be stand alone components of the whole programme
- These are largely weekend programmes. Each module shall preferably start on the Friday/Thursday preceding the second Saturday of February/August
- Date wise time-table shall be announced well in advance
- Lectures/Practicals for each day shall cover toxicologic pathology of selected organ systems and the participants will have the option to choose lessons of their interest

- Attendance in any module shall not be mandatory for taking subsequent lessons or modules

### **Course fee**

**Course Fee:** Rs 20,000/- per head for each Module or Rs 10,000/- per head for one day (please contact the organisers for lecture/practical schedule). Registration closes a month before the course. If you need any clarification please contact the Course Director.

The payment shall be acceptable only in the form of Demand Draft (or multi-city cheque), in favour of Course Director, Experimental Pathology Courses, S.C.T.I.M.S.T., payable at any nationalised bank in Thiruvananthapuram (Trivandrum) or direct bank transfer to Account No. 67388598374 (CIF No. 77154039600) in favour of 'EXPERIMENTAL PATHOLOGY COURSE' at the Poojappura Branch of the State Bank of India (IFSC: SBIN 0070032), Thiruvananthapuram 695012.

A limited number of industry-sponsored scholarships are available that may offer partial financial assistance on course fee. Please contact the Course Director for further details.

### **Course Co-ordinators**

Course Advisor	: Dr C Gopinath, BVSc, <i>PhD, FRCPath, FIATP</i>
Course Director	: Dr TV Anilkumar, <i>PhD, Diplomate ICVP, FIATP</i>
Deputy Course Director	: Dr A Sabareeswaran, <i>MVSc, PhD</i>



### **Address for correspondence**

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**‘Regulatory Toxicologic Pathology; Module III: Toxicologic Pathology of Lymphoid (immune) System, Endocrine System, Male Genital Systems and Female Genital system (including regulatory reproductive studies)**

**(Thursday, 08th to Saturday 10th February, 2018)**

Registration form

1. Name :
2. Educational Qualification (indicate year):
3. Details of experience in histology/histopathology (if any):
4. Have you attended any of the Modular courses by the same organisers? If ‘YES’ give details
5. Contact details
  - 5.1. Postal address
  - 5.2. E-mail(main) :
  - 5.3. E mail (alternate) :
  - 5.4. Phone (Land line) :
  - 5.5. Phone (mobile/cell) :
6. Details of payment, Rs 20,000/- by one of the following (please indicate your choice)
  - Direct payment, dated \_\_\_\_\_, Payee bank with reference number \_\_\_\_\_ - \_\_\_\_\_ (please attach a copy of the payment details) to Account No 67388598374 (CIF No. 77154039600) in favour of ‘EXPERIMENTAL PATHOLOGY COURSE’ at the Poojappura Branch of the State Bank of India (IFSC: SBIN 0070032), Thiruvananthapuram.
  - Demand-Draft No \_\_\_\_\_ dated \_\_\_\_\_ in favour of ‘EXPERIMENTAL PATHOLOGY COURSE’ and made payable at State Bank of India, Poojappura Branch, Thiruvananthapuram-695012.

Place : \_\_\_\_\_ Signature  
Date : \_\_\_\_\_ Name