



# Society of Toxicologic Pathology - India

“TOX PATH”

NEWSLETTER MAY 2019

## EDITORIAL

It's our privilege and honor to be members of editorial committee of “Toxpath” newsletter of STP-I. The genesis of “Toxpath” dates back to May 2008 started by Dr. S.K. Vijayasarithi who was the first editor. Under his able vision the Toxpath took a wonderful shape and was well received both locally and globally. He chaired it for three years and later the baton was passed to Dr. Yogesh Murkunde who operated with all his might and functioned for three more years and improved the newsletter.

There was a lull period for 6 years. Now, the onus is on us. We dedicate to fulfill the commitment of the committee to toxicologic pathologists' fraternity.

Dr. Sowmya Bharath - Editor  
Dr.P. Kalaiselvan - Associate Editor  
Dr. M.R. Balaji - Member

## General Body Meeting (GBM) - 2018

General Body Meeting conducted during October 2018 STP-I conference. During this general body meeting, Dr. Madhav Marathe was selected unopposed as the President: STP-I. Also, a new Executive Committee (EC) was selected during the GBM of the STP-I.

Dr. Madhav Marathe appreciated contribution of past President: STP-I, Dr. Vijayasarithi S.K. and general Secretary Dr. Venkatesh Udupa and other EC members for their phenomenal work during past decade which enabled the society to grow and expand. He also congratulated the new EC members and wished them good luck and look forward to their best support.

New Executive Committee



# Society of Toxicologic Pathology - India

## COMMITTEE MEMBERS

### President

Dr. Madhav Marathe, M. V. Sc, DIBTP



### Vice President

Dr. Sowmya Bharath, M. V. Sc, DABT, DIBTP





# Society of Toxicologic Pathology - India

## General Secretary

Dr. M.R. Balaji, M. V. Sc



## Treasurer

Dr. Satish Panchal, M. V. Sc, DIBTP, ERT





# Society of Toxicologic Pathology - India

## Executive Committee Members

Dr. P. Kalaiselvan, M. V. Sc, DICVP, DIBTP, DABT,



Dr. Praful Patel, M. V. Sc, Ph.D





## Society of Toxicologic Pathology - India

Dr. Prashant Pansare, M. V. Sc, DIBTP



Dr. Sanjaykumar Paneliya, M. V. Sc, Ph.D, DIBTP





## Society of Toxicologic Pathology - India

Dr. Jaiprakash Bhelonde, M. V. Sc, DICVP, DABT



### **MESSAGE FROM STP-I PRESIDENT**

My association with Society of Toxicologic Pathology (STP-I) has been since its inception during 2004. The society has grown exponentially and successfully conducted several bi-annual conferences. During these years, team of Drs. Seshadri and Vijayasarithi, Geeta Nirodi, Shekhar Chelur, Venkatesh Udupa and many others have relentlessly worked hard to bring STP-I on Global map.

Current members are around 300 and growing.

Apart from these activities STP-I has launched a diploma course for toxicologic-pathologists viz: "Indian Board of Toxicologic Pathology-IBTP)" This diploma is highly appreciated and is recognized world over.

There are 43 diploma holders till date.

IBT-P holds work-shops exclusively designed to help the prospective candidates who would be appearing for the diploma examination, which is held during Oct-



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November. On 13-14 April 2019, a workshop was organized at Vadodara and two more workshops are also being planned at Bangalore and Hyderabad before October 2019.

A new Executive Committee (EC) of STP-I was selected during the GBM. I wish the new team the very best luck and look forward to doing their best.

The new EC immediately took over and decided to bring a 'News Letter' and purchase its own webinar system, so that relevant Webinars could be arranged for the benefit of STP-I members, at regular intervals from Global subject experts.

The new EC is just 6 months old but has shown vigor, enthusiasm and striving hard to do better job than yesterday and the team is joining hands to achieve all that is committed.

As a President, I can surely state that EC shall excel in all fronts. As part of one of the committed action points is to publish STP-I's "News Letter". I wish the team a big success in this endeavor.

Dr. Madhav Marathe

President, STP-I

### **EXCITING NEWS FOR WEB BROWSERS. OUR WEBSITE IS GETTING A NEW LOOK.**

Based on feedback received from different users, Executive committee of STP-I has decided to revamp STP-I website keeping in mind to include following points, but not limited to

(1) The registration of STP-I membership and IBTP application will be available online through secure online payment gateway.



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- (2) Membership number will be generated online upon completion of registration process.
- (3) Also, generation of background list of all registered participant / members will be available to EC members. These will help EC for keeping new updates or any development of STP-I
- (4) Members will be given a privilege access to restricted areas.
- (5) Each Sponsor is important for society. Considering the same Sponsor's web address will also be linked to our website.
- (6) There will be provision for members as well as non- members for subscription of newsletter and STPI updates.
- (7) List of IBTP holders will be available online and re-certification alert will be generated online.
- (8) Sticky bar will be added to website to scroll website and access of each page of website at any point on webpage.
- (9) Forum of case study discussion will be created on website.
- (10) Alert for any conference, webinar and workshop will be communicated to all members and non-members and registration will be possible through online.

*And many more.....*

***Look out for an exciting new outlook of the website soon!***

STP-I Website committee

Dr. Praful Patel

Dr. Sanjaykumar Paneliya

Dr. Satish Panchal

Dr. M.R. Balaji





# Society of Toxicologic Pathology - India

## MESSAGE FROM REGISTRAR IBTP

**Indian Board of Toxicologic Pathology** established in 2011 is an affiliate of Society of Toxicologic Pathology – India with a purpose and objective to encourage the study of the science of toxicologic pathology and its allied fields; to stimulate the advancement of existing standards for professional practice; to prepare and administer procedures, including testing, for the recognition of such standards by certification for those members of the profession who, measured against such standards, demonstrate competence deserving recognition as “Diplomates of the Indian Board of Toxicologic Pathology”.

Charter diplomates selected by their credentials served the board for 5 years from the formation of board who are gradually being replaced with regular diplomates. Board consists of President, Vice President, members and Registrar with each of them serving as part of education, examination and finance committee.

Board members formulated curriculum and conduct 2-3 theory and practical microscopic evaluation training sessions per year. Several national and international scientists have contributed towards establishment of slide collection of nonneoplastic and neoplastic lesions from rat, mice and dog which are used in training programs. The training materials also includes, CD’s from ESTP and EPL, teaching materials from NCI etc. Board certification examination is being conducted yearly since 2012 and till date 43 experienced pathologists have passed the examination and qualified as “Diplomate of Indian Board of Toxicologic Pathology” (DIBTP).

Board has framed rules for recertification of diplomates once every 5 years after initial certification.

### **Eligibility criteria:**

Board examination eligibility criteria are as follows;



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1. The candidate must be a registered professional graduate (Veterinary/Medical) under the provision of veterinary/medical/ equivalent professional Council of India either with State or Central Council OR equivalent in overseas countries.
2. The candidate should be a Life Member of STP-I.
3. At the time of examination, the candidate should have completed at least
  - 5 years post M. V. Sc or M. D (Pathology) or 3 years post Ph. D (Veterinary Pathology) with Toxicologic Pathology working experience in Industry (Pharma/CRO etc) and attended minimum one IBTP-STPI workshop OR
  - 4 years post M. V. Sc or M. D (Pathology) or 2 years post Ph. D (Veterinary pathology) with Toxicologic Pathology working experience in Industry (Pharma/CRO etc) and attended minimum of 4 IBTP-STPI workshops OR
  - 5 years post M. V. Sc or M. D (Pathology) or 3 years with Ph. D (Veterinary Pathology) with working experience in a University or equivalent teaching and/or Research institute in the field of toxicologic pathology and attendance in at least two IBTP-STPI workshops. Supporting publication, guiding students related to toxicologic pathology research area is essential.

### **Examination pattern:**

Examination pattern included one theory examination and two practicals.

Theory examination: Type of questions to be all objective--Multiple choice and true or false. Theory paper to consist of Histopathology related to toxicology and also question component from clinical chemistry, hematology, gross pathology --all related to toxicopathology. Total of 120 questions--Total marks for 60 – duration 2 hours.

Practicals I: Microscopic examination and diagnosis of 8 common slides for all candidates and separate set of 7 slides



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for each candidate. Each slide carry 4 marks and time for each slide 4 min — Total marks for 60 – duration 2 hours.

Practicals II - Projection of 30 gross and microscopic images – time for each image is 4 minutes— Total marks for 60 – duration 2 hours.

Candidates must pass all the 3 sections to become eligible for diplomate status of IBTP.

Board examination of IBTP is one of few examinations offered exclusively for toxicologic pathologists. IBTP diplomates are increasingly recognized in the Indian toxicology industry. Pathologists pursuing their carrier should undertake this examination to get recognized among peers. For further details on curriculum/references, please visit <http://toxpathindia.com/about-ibtp.html>

Dr. Shekar Chelur  
Registrar IBTP

### **Treasurer's Report**

Continued financial support from our sponsors, conference/workshop registrations, IBTP exam fees and enrolment of new life members have provided sufficient funds to allow us to conduct our planned activities. Going forward, adding new sponsors, conducting educational activities, increasing registrations and membership fees are to be explored to ensure a more consistent funding for executing society activities.



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### **INCOME FY 2018-19**

Total income in 2018-19 was Rs. 31,09,035 compared to Rs. 3,23,437 in 2017-18. As there was no conference during 2017-18, hence this variance. Sponsorship income was of Rs.25,26,000 and registration income of Rs. 5,16,200 in 2018 conference. Income generated during the FY 2018-19 also included STP-I Life Membership fee, IBTP Examination fees and workshop registration fees. Given the challenges in ensuring sufficient funds from year to year to develop and execute plans, the STP-I committee will keep this situation under review and explore alternative funding sources to ensure it has sufficient resources to support planned activities.

### **EXPENDITURE**

Total administrative expenditure was Rs. 31,75,185 in 2018-19 compared to Rs. 3,23,437 in 2017-18. The difference largely due to the cost of 2018 conference, and preliminary costs for our 2018 conference (venue, logistics, conference bags, mementos to speakers, travel of speakers, etc).  
(FY 2018-19 accounts yet to be reviewed by CA).

### **LOOKING FORWARD**

Although this statement relates to the financial years 2018-19, we are pleased to report increased and more diverse sponsorship income for 2018 conference. This has supported organization of 2018 conference. Nevertheless, it is clear that a more consistent model of funding is needed to allow planning from year to year and to ensure that STP-I activities are fully supported. We hope that our corporate sponsors will continue to support the STP-I, without which STP-I would be unable to continue its important work in the field of Toxicologic Pathology. I would like to thank my fellow STP-I Council members, President, Vice-President and General Secretary for their efforts and for contributing their valuable time and expertise so generously.



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CA audited statement after filing IT returns will be shared with STP-I members in the next newsletter.

Dr. Satish Panchal

Treasurer

### WEBINAR

#### **IATP/STP-I Webinar: Translational Aspects of NAFLD/NASH Models: A pathologist's Perspective**

Speaker: Chandra Saravanan, DVM, MS, PhD, DACVP

April 16, 2019

The presentation emphasized the critical roles played by comparative pathologists in NAFLD/NASH model development/characterization. Few case examples were discussed, including development and utility of a model-specific histopathologic scoring system, tissue-based quantitation of NASH features in the context of changing liver volume, comparative target localization/validation in animal models and diseased human tissues and evaluation of translation of proof of mechanisms from animal models to humans.

Those who missed the webinar can access it from the following link

You will need to enter the following password to access this recording:

April162019

<https://iatpfellow.my.webex.com/recordingservice/sites/iatpfellow.my/recording/playback/08a49880230a4f058dccc5f4eea3e01b>



# Society of Toxicologic Pathology - India

*Reading materials*

## The Illustrated Dictionary of Toxicologic Pathology and Safety Science

**Pritam S. Sahota**

Global ToxPath, LLC., Kennewick, Washington, USA

**Robert H. Spaet**

RSPatholics, LLC., Granby, Colorado, USA

**Philip Bentley**

Toxicodynamix International, LLC., Hendersonville, North Carolina, USA

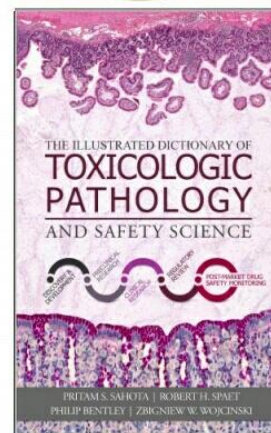
**Zbigniew Wojcinski**

Toxicology & Pathology Consulting, LLC., Ann Arbor, Michigan, USA



There has been a growing interest in toxicologic pathology, especially as related to its impact on the safety assessment of pharmaceuticals and chemicals, in drug development and in the environment. The Illustrated Dictionary of Toxicology Pathology and Safety Science (IDTP) aims to fill this need. The language of toxicologic pathology may be less familiar to a broad range of safety scientists, especially those involved in the safety evaluation of pharmaceuticals and chemicals. The IDTP format provides the brevity and clarity that the user will not find in a textbook, even if adequately indexed. With the inclusion of descriptions for terms used in toxicology, drug metabolism/pharmacokinetics, and regulatory science, the scope of the IDTP is considerably broadened and decidedly unique in its universal appeal to all safety scientists.

With over 800 photos and illustrations to provide visual context, the IDTP presents pathological changes as reference examples for terminology, nomenclature, and term descriptions for the entry-level as well as seasoned toxicologic pathologist. It will also aid students and non-pathology specialists such as study directors, senior toxicology report reviewers, scientific management, regulatory agencies, and drug development companies to better understand the biological significance of tissue changes following exposure to drugs or chemicals. The IDTP provides a single reference volume for all users to further their understanding and appreciation of biologically-significant pathology findings. All material has been thoroughly referenced, including links to on-line resources



### SELECTED CONTENTS

- 1) A-Z Dictionary section of IDTP covering all organ systems, plus relevant non-pathology terms supported by references.
- 2) Appendix 1: Overview of Drug Development, Nonclinical Safety & Toxicologic Pathology, plus Important/Special Topics, including: Adversity/NOAEL, Digital Pathology, Developing Biologics, and Vaccines.
- 3) Appendix 2: Diagnostic Criteria for Proliferative Lesions in Rodents (Rat and Mouse) and Selected Non-Rodent Laboratory Species.
- 4) Appendix 3: Mini-Atlas of Organ System Anatomy and Histology to help re-acquaint the non-pathologist safety scientist with many normal anatomical structures.

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*Members' contribution:*

*Hereby we are inviting members to contribute to newsletter by sending article, any special events pertaining to Toxicologic Pathology happened around you , what's your diagnosis etc.*