

1st Annual course in Toxicologic Pathology

“Road to Toxicopathology”

Organized by

Charles Louis Davis, D.V.M. Foundation

in association with

Society for Toxicologic Pathology in India

Best Western The Pride Hotel

5, University Road, Shivaji Nagar,
Pune, 411 005, India

13-15 March, 2008

Lectures to include:

- Comparative Approaches of Diagnostic vs. Toxicologic Pathology
- Morphologic Manifestations of Toxic Injury
- Differentiating Aging Changes versus Toxic Changes
- Artifacts vs. Real Changes in Tissues
- Novel Drug and Delivery Systems
- Advances in Digital Pathology
- Gross Pathology Practicum

Program Directors:

Dr. Srinivas Rao, DVM, DACVP, PhD, MBA

National Institutes of Health, USA

Dr. Zadok Ruben, DVM, PhD

Davis FDN Vice President for Toxicologic Pathology

Featured Speakers:

Dr. Matt Wallig, University of Illinois, USA

Dr. Suresh Pooala, National Institutes of Health, USA

Dr. S. K. Vijayasarithi, Advinus Therapeutics Pvt. Ltd, India

Dr. B. Murali Manohar, TANUVAS, India

Dr. Vyas M. Shingatgeri, Ranbaxy laboratories, India

Dr. Roli Khatri, Bioimagene, Inc.

Dr. Michael Royals, PharmaJet, Inc.

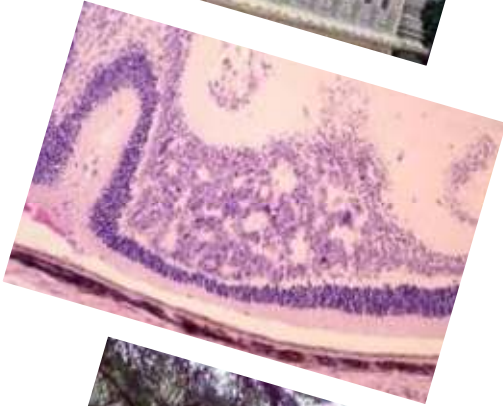
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Enabling Digital Pathology



MedImmune

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**Charles Louis Davis, D.V.M.
Foundation**

&

**Society for Toxicologic
Pathology in India**



**1st Annual Course in Toxicologic Pathology –
“Road to Toxicopathology”**

Date: 13-15 March 2008

Best Western The Pride Hotel

**5, University Road, Shivaji Nagar,
Pune, 411 005, India**

Primary Focus: Toxicologic Pathology for Diagnostic Veterinary Pathologists

Secondary Focus: Novel Experimental Pathology Techniques: Bioimaging and Delivery Systems

bio  **magene**

Enabling Digital Pathology



MedImmune

PharmaJet Inc.

Goal:

To educate and disseminate knowledge in the principles and advancements of general and toxicologic pathology for veterinary pathologists/trainees/students via lectures and discussion panels by a panel of international and local experts.

Program Director

Srinivas S. Rao, DVM, Ph.D., MBA, Diplomate ACVP

Chief, Laboratory Animal Medicine, VRC/NIH

E-Mail: srao@cldavis.org

CL Davis Liaison/Course Directors

Zadok Ruben, DVM, Ph.D.,

Diplomate, ACVP and ABT

VP, CL Davis foundation, Tox and Env.
Pathology

Matt Wallig, DVM, Ph.D.,

Diplomate, ACVP

University of Illinois, USA

STPI Liaison

Vijayarathi S. K., M. V. Sc, Ph.D.

President, STPI

Advinus Therapeutics Pvt. Ltd, India

e-mail: vijayarathi.k@advinus.com

CL Davis Liaison India

Vipan Kumar Gupta, M. V. Sc, PhD

Corporate Liaison

Roli Khattri, Ph.D.

BioImagene, CA, USA

Speakers:

- | | | | |
|----|--------------------|-----------------------|-----------|
| 1. | Srinivas Rao | VRC, NIH | USA |
| 2. | Zadok Ruben | Patoximed Consultants | USA |
| 3. | Matt Wallig | Univ of Illinois | USA |
| 4. | Suresh Poosala | NIH | USA |
| 5. | Michael Royals | Pharmajet | USA |
| 6. | S. K. Vijayarathi | Advinus | India |
| 7. | B. Murali Manohar | TANUVAS | India |
| 8. | Vyas M Shingatgeri | Ranbaxy Laboratories | India |
| 9. | Roli Khattri | BioImagene | USA/India |

Distinguished Colleagues,

It gives us immense pleasure to invite you on behalf of the organizing committee to attend the 1st Annual Course in Toxicologic Pathology – “Road to Toxicopathology” in Collaboration with Charles Louis Davis, D.V.M. Foundation, to be held on March 13-15, 2008, at Best Western The Pride Hotel, Pune, Maharashtra, India

The ‘Charles Louis Davis, D.V.M. Foundation’ is the largest Non-profit scientific organization in the world composed of individuals who are engaged in the formal or informal study, practice or teaching of Avian, Aquatic, Comparative, Veterinary, Wildlife and Zoological Pathology or Related Scientific Disciplines. The latter disciplines are those which contribute to the understanding of disease processes in animals, such as Allergy, Anatomy, Bacteriology, Biochemistry, Biology, Clinical Chemistry, Clinical Medicine, Cytology, Dermatology, Immunology, Microbiology, Nutrition, Ophthalmology, Parasitology, Psychology, Physiology, Teratology, Toxicology and Virology.

The ‘Society for Toxicologic Pathology in India’ established in 2004 with the objective of providing an excellent platform to share thoughts and update recent developments in Toxicologic Pathology to meet international standards, is organizing this scientifically valuable annual meeting in collaboration with Charles Louis Davis, D.V.M. Foundation. The course will offer an excellent opportunity to the participants for interaction with the reputed and eminent Toxicological Pathologists of India and Abroad and to gather and exchange information and ideas on International trends in Toxicology and Pathology. All scientists are requested to take the message personally for a larger participation and maximal benefit.

REGISTRATION

Participation is open to all individuals interested in the field of Veterinary Pathology, Toxicology and other allied sciences. Those desirous of attending should fill up the registration form and mail the same to the Treasurer, STPI.

Registration fee is

Industry: Rs. 2500

Academics: Rs. 1500

Students*: Rs. 500

* A certificate from the Head of Department is required for a bonafide PG student

PAYMENTS

All the payments should be made by Demand Draft drawn in favor of “Treasurer, Society for Toxicologic Pathology in India” payable at Bangalore.

Venue:

The city of Pune (also known as Poona), with a population of 4.5 million, is an important cultural, educational and industrial center of the state of Maharashtra in western India. (<http://www.punediary.com>). Pune has a recorded history of over a thousand years. Its golden age was in the 18th century when the Peshwas, Prime Ministers of the Maratha Kingdom governed the city, during which period historical monuments such as Shaniwarwada, Parvati temple, etc., were constructed.

Pune is located about 170 km south-east of Mumbai (earlier known as Bombay), on the Deccan Plateau about 550 m above mean sea level. It is well connected by air, rail and road to Mumbai, the nearest international airport. It is also connected by air to Delhi, Hyderabad, Calcutta, Ahmedabad, Bangalore and Chennai (earlier known as Madras).

The weather in Pune in March is generally pleasant and dry with a daytime maximum temperature of about 33°C.

Places of Interest:

Pune : Shaniwar Wada (an old fort of 18th Century), Ganpati temple (Sarasbaug), Parvati Hill, Agakhan Palace, Kelkar Museum, Lal Mahal, Pataleshwar Caves



Ellora : Just 250 Kms from Pune are the Ellora caves, cut of volcanic rocks and now a World Heritage site, abandoned and forgotten for centuries, the 34 cave temples dedicated to three different religions- Hinduism, Buddhism and Jainism. The most famous of them is the 8th Century Kailasnatha Temple, which is completely open to the elements.



Ajanta : Just 330 km from Pune are the world famous Ajanta Caves. Among the finest examples of some of the earliest Buddhist architecture, cave paintings and sculptures, these caves comprise Chaitya Halls, or shrines, dedicated to Lord Buddha and Viharas, or monasteries, used by Buddhist monks for meditation and the study of Buddhist teachings. The paintings that adorn the walls and ceilings of the caves depict incidents from the life of the Buddha and the various Buddhist divinities.

For more details, please visit: <http://www.maharashtratourism.gov.in>



Goa : Beautiful Beaches, Scenic Landscapes, Art Gallery & Handicraft Center, Mirabai Sculpture, ig Foot Dance Floor, Casa da Dona Maria, Anand Lotlikar's Ghor, Legend of Big Foot, The Farmer's House, Cross, Spring & Rakandar, The Fisherman's House, Escola da Musica, Bhati-the feni distillery, Tinto-the village market, Taverna- the country liquor shop, Goan Artisans, Bird Habitat, Spice Yard & Rubber Plantation.

Distance from Pune : 480 km (298.3 miles)

For more details, please visit : <http://www.goatourism.org/>



Programme Details

March 13

8.00 - 8:30	Registration
8:30 - 9:00	Inauguration Chief Guest: Dr. R. N. S. Gowda, M. V. Sc., Ph.D Vice Chancellor, KVAFSU, Bidar, Karnataka, India
9.00-9.30	Overview of the Course and Goals/Objectives - Dr. Srinivas S. Rao
9.30-10.00	International Advancement in Veterinary and Comparative Pathology at the C L Davis Foundation- Dr. Zadok Ruben
10.00-1.15	BREAK
10.15 - 12:00	Morphologic Manifestations of Toxic Injury: a Practical Approach- Dr. Matt Wallig
10.15 – 11.00	Part I - Cell Injury
11.15 – 12.00	Part II - Oncotic Necrosis
12:00 - 1:30	WORKING LUNCH – Topic: Digital Pathology Demystified- Dr. Roli Khattri
1.30-2.15	Part III - Apoptosis
2.15 – 3.00	Part IV – Sequelae to Necrosis
3.00 - 3:15	BREAK
3.15 – 4.30	Comparative Approaches of General Diagnostic vs Toxicologic Pathology I- Dr. Zadok Ruben
4.30 - 5:30	Toxicologic Pathology: What is an Artifact? What is Real and How to Interpret? – Dr. Vijayasarithi
5:30 - 6:00	BREAK
6:00 - 8:00	Discussion/Dinner: How can CL Davis best help the toxicologic/experimental pathologists and Industry in India? – Drs. Rao & Ruben

March 14

- 8:00 - 9:00 Topic TBA – *Dr. Matt Wallig*
- 9:00 - 10:30 Comparative approaches of General Diagnostic vs Toxicologic Pathology II – *Dr. Zadok Ruben*
- 10:30 -10:45 BREAK
- 10:45 - 12:00 Pathology of Aging Rodents: Differentiating Aging Changes from Induced Changes I – *Dr. Suresh Poosala*
- 12:00 -1:30 WORKING LUNCH – Topic: Novel Approaches to Drug and Vaccine Delivery: Needle free systems – *Dr. Michael Royals*
- 1:30 - 2:30 “Roads to Boards”: Making sense of alphabetical soup (ACVP, ECVP ...) *Dr. Srinivas Rao*
- 2:30 - 3:30 Toxicological Pathology- A vital tool of Toxicogenomics – *Dr. Vyas Madhavrao Shingatgeri*
- 3.30-3.45 BREAK
- 3:45 – 5.00 Gross Pathology Practicum/ Quiz - *Dr. Srinivas Rao*

March 15

- 8:00 - 9:00 Pathology of Aging Rodents: Differentiating Aging Changes from Induced Changes II – *Dr. Suresh Poosala*
- 9:00 - 10:00 Role of immunohistochemistry in Toxicologic Pathology – *Dr. B. Murali Manohar*
- 10:00 - 10:15 BREAK
- 10:15 - 11:30 Answers to Gross Pathology Practicum/ Quiz – *Dr. Srinivas Rao*
- 11:30 - 1:00 Wrap up and feedback on the course – **Moderated by *Drs. Rao & Ruben***
- 1:00 - 3:00 WORKING LUNCH- Student/Industry Pathologist Interface: opportunity for face to face interaction and networking

Speaker's Profile

Dr. B. Murali Manohar, M. V. Sc, Ph. D

Director, Centre for Animal Health Studies

Tamilnadu Veterinary and Animal Sciences University, Chennai, India

Dr. B. Murali Manohar graduated from Madras Veterinary College in the year 1975 and obtained his Master's degree in Veterinary Pathology in 1980 and Ph.D degree in 1988 from the same institute. He was appointed as Assistant Professor in the year 1976 and became Associate Professor in 1988, Professor in 1994, Head of the Department of Veterinary Pathology in 1999 and Director, Centre for Animal Health Studies, Tamilnadu Veterinary and Animal Sciences University in 2006. He has published more than 200 papers in scientific journals of which 32 were in international journals. He has bagged prestigious Tamilnadu State Science and Technology award for the contribution in Poultry Pathology in the year 1996. He has obtained seven research projects. He was awarded FAO fellowship to undergo training on Toxicopathology for three months in Ames, Iowa, USA. He had guided 10 M.V.Sc., and five Ph.D students. He has organised seven national seminars and two training programmes. He was instrumental in modernization of post-mortem block and establishment of molecular pathology laboratory.

Dr. Suresh Poosala, D.V.M., M.S., Ph.D., Staff Scientist

Chief, Comparative Medicine Section and Animal Program Director, GRC/NIA/NIH

Dr. Poosala received his undergraduate degree in Veterinary Sciences and Masters in Veterinary Microbiology from AP Agricultural University, India. Dr. Poosala received his Ph.D. in Veterinary Pathology from Iowa State University, Ames in 1994. He did his postdoctoral fellowship at the St. Jude Children's Hospital, Memphis and his Laboratory Animal Medicine Residency at the University of Maryland. He was the attending veterinarian and veterinary pathologist at UMD during his residency program. He started his job as veterinary pathologist and research fellow at NIA in 2001.

Research Interests: Dr. Poosala's current research interests include the AGEMAP (Atlas of Gene Expression in Mouse Aging) project, wound healing in different strains of transgenic mice, dietary influences on aging, and topical applicants that promote wound healing in mice.

Dr. Srinivas S. Rao D.V.M., Ph.D, M.B.A., Diplomate, ACVP,

Chief, Laboratory Animal Medicine, Vaccine Research Center, NIAID/NIH

D.V.M.: UAS, Bangalore, India

M.S: Center for Vaccine Development, University of Maryland, Baltimore,

Ph.D.: Pathology, University of Maryland. Baltimore

MBA: RH Smith School of Business, University of Maryland. College Park, MD

Dr. Srinivas Rao is a board certified veterinary pathologist and Laboratory animal veterinarian, research scientist, and clinical veterinarian with broad-based experience in veterinary pathology,

toxicology, basic and applied cellular and molecular biology research, biotechnology research facility operations, preclinical testing, budgetary oversight and program manager. Currently Chief, Laboratory Animal Medicine, Animal Program Director at Vaccine Research Center (VRC), National Institute of Allergy and Infectious Diseases (NIAID), NIH. Dr. Srinivas Rao has worked as Assistant Director, Comparative Medicine, University of Maryland Medical School, Baltimore, Maryland.

Dr. Zadok Ruben, DVM, PhD

Patoximed Consultants, Westfield, NJ

Vice President, Charles Louis Davis, D.V.M. Foundation

EDUCATION: B.S. (Zoology, 1969), Doctor of Veterinary Medicine (1972), M.S. (Veterinary Pathology, 1973) Iowa State University; A.M. (Experimental Pathology, 1975) Harvard University; Ph.D. (Pathobiology, 1980) University of Connecticut.

DIPLOMATE, American College of Veterinary Pathologists and the American Board of Toxicology

Founded Patoximed Consultants in 1995 after over 15 years experience in preclinical toxicologic evaluation and in investigative research projects related to development and discovery of novel drugs at G.D. Searle & Co. and at Hoffmann-LaRoche Inc. At Searle and Roche, served as director of general pathology; study pathologist; study director; principal investigator/collaborator; reviewer of drug resumes; author of toxicology summaries; presenter of toxicology-pathology data at the FDA; member of R&D project teams, various committees and task forces.

Member of national and international professional societies for pathology, toxicology, pharmacology, laboratory animals, tissue culture, experimental biology and medicine. Editorial-board member, J. Toxicol. Environ. Health and Exp. Biol. Med. (Pharmacology/Toxicology) ; Ad-hoc reviewer of manuscripts for several professional journals and book chapters; chair/co-chair of pathology nomenclature committees and toxicology symposia.

Program Director, Northeast Division of the Charles Louis Davis, D.V.M. Foundation for international advancement in veterinary and comparative pathology, and member of the Board of Directors and faculty of the Foundation; adjunct faculty, The Rockefeller University, New York; visiting assistant-professor of Pathology, Rush Medical College, Chicago.

Dr. Vijayasarithi, S. K. M. V. Sc., Ph. D

Head, Pathology, Safety Evaluation, Advinus Therapeutics Pvt. Ltd, Bangalore, India

Dr. S. K. Vijayasarithi graduated in the year 1966 and completed M.V.Sc in Veterinary pathology in 1968 and Ph.D in 1982. He is involved in teaching and research work for nearly 35 years (1969-2004) at UAS, Bangalore. Guided 25 M.V.Sc and 4 Ph.D students and also worked as a member of advisory committee for more than 150 students. Dr. Vijayasarithi is recipient of several awards including the ICAR best teacher award. Has published 82 scientific papers in various scientific journals. Presented scientific papers in several National and International conferences. He has worked as a consultant pathologist to several Pharmaceutical companies for more than 25 years. Member of several scientific bodies including President of STPI.

Dr. Vyas M Shingatgeri, M. V. Sc., Ph D

Director, Drug Safety Evaluation, Ranbaxy Laboratories Ltd., R&D, Gurgaon, India

Dr. Vyas M Shingatgeri graduated from Bombay Veterinary College in the year 1981 and obtained his master's degree in 1983 from the same institute. He started his professional carrier as Veterinary Pathologist at Hindustan Ciba-Geigy Research Centre, Mumbai. Between 1984 and 1989, he worked at Cancer Research Centre, Mumbai and Commonwealth Scientific and Industrial Research Organisation (CSIRO)/AUSTREX. Dr. Vyas M Shingatgeri was appointed as Assistant Professor, Department of Veterinary Pathology, Bombay Veterinary College in the Year 1989. He obtained PhD from College of Veterinary and Animal Sciences, Kerala Agriculture University in 1996 and joined Ranbaxy Laboratories Ltd., Research & Development, Gurgaon in 2001, currently working as Director, Drug Safety Evaluation. Dr. Vyas M Shingatgeri is recipient of Prestigious Jawaharlal Nehru Award (Govt. of India) for the best post graduate research work (Indian Council of Agriculture Research). He has authored/co-authored of 52 publications in National and International Journals.

Dr. Matthew A. Wallig, DVM, PhD

Professor, Pathobiology

Chair of Comparative Pathology, Pathobiology

Residency Coordinator, Div. of Comparative Pathology

B.S., 1976, University of Wyoming, Laramie

D.V.M., 1981, University of Minnesota, St. Paul

Ph.D., 1987, Colorado State University, Fort Collins

Professional Interests: Dr. Wallig's professional interests include studying the potential synergy that exists between bioactive compounds found in cruciferous vegetables (e.g. broccoli, brussels sprouts, cabbage) and the prevention of cancer. Dr. Wallig also has numerous collaborative projects related to the chemopreventive effects of phytochemicals with faculty in several other departments including Nutritional Sciences, Food Science & Human Nutrition and Natural Resources & Environmental Sciences. Among those projects are the effects on grapeseed extract on the prevention of colon cancer, green teas and their prevention of liver cancer, and glucosinolate derivatives from broccoli and their effects on prevention of a variety of cancers. In addition, he collaborates on projects defining the effects of fructose on lipid metabolism, dietary fiber and infant formulas and their impacts on neonatal gut development and the influence of exercise on tumor growth and development. Dr. Wallig is also Residency Coordinator for Anatomic Pathology and Advisor for the Student Chapter of the ACVP. Dr. Wallig is co-editor of "Handbook of Toxicologic Pathology". Dr. Wallig has authored book chapter "Specific methods for detection of apoptosis in tissue sections: In: Apoptosis in Pharmacology and Toxicology: Detection, Mechanisms, and Quantification", Davis, MA (ed), Humana Press, pp.59-76, (2002).

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Enabling Digital Pathology



BioImagene is a leading provider of total imaging solutions for pathologists, researchers and drug developers in clinical diagnostics and life sciences. Our mission is to bring affordable digital pathology to every pathologist in every laboratory worldwide. Our systems automate pathology workflows for acquisition, analysis, management, archival, reporting and sharing of tissue images. Our solutions can significantly boost productivity, ensure accuracy and reduce bottlenecks in all aspects of life science workflows.

ASSOCIATE SPONSOR



MedImmune

MedImmune strives to provide better medicines to patients, new medical options for physicians, rewarding careers to employees, and increased value to shareholders. Dedicated to advancing science and medicine to help people live better lives, the company is focused on the areas of infectious diseases, cancer and inflammatory diseases. The company has three marketed products and an advancing pipeline of promising candidates, all designed to treat or prevent a number of debilitating or life-threatening diseases.

PharmaJet Inc.

PharmaJet Inc., affiliated with Genesis Medical Technologies, is a needle-free drug delivery technology company. Through the use of its needle-free jet injection technology, the Company's goal is to make a positive difference in improving global world health, helping to break the cycle of poverty and disease associated with needle-stick injury and needle re-use.



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REGISTRATION FORM

Name: _____

Designation: _____

Educational Qualification: _____

Department /Division: _____

Official/contact Address: _____

Phone / Fax: _____

E-mail: _____

Registration fee: _____

Draft No. : _____ Amount: _____

Bank: _____ Date: _____

Date: _____ Signature: _____

To register, complete the above registration form and forward along with Demand Draft towards registration fee in favor of 'Treasurer, Society for Toxicologic Pathology in India' payable at Bangalore and send to **Dr. Kamala K**, Advinus Therapeutics Private Limited, 21&22, Peenya Industrial Area, Phase II, Bangalore - 560 058, Phone (O): 080-28394959 e-mail: kamala.kannan@advinus.com