

Message from the President

I consider it a great honor to be elected President of the Society for Ultrastructural Pathology, and I will do my best to serve you during the next two years. We hope to produce a quarterly newsletter for the Society which will be sent electronically to the Society membership as well as the Electron Microscopy Working Group of the European Respiratory Society. The intent of the newsletter is to keep the membership informed regarding upcoming SUP events as well as other information that might be of interest. Your feedback is welcome.



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US-CAP Companion Meeting

The Society for Ultrastructural Pathology Companion Meeting to the United States-Canadian Academy of Pathology annual meeting will meet on Sunday morning, March 3, 2013 in Baltimore, MD. We have an exciting program with a number of excellent speakers who will address the theme of the role of electron microscopy in cytopathologic diagnosis. Dr. Elba Turbat-Herrera will give an overview of the topic, and Dr. John Hicks will speak regarding the use of ultrastructural evaluation in the diagnosis of metabolic storage disorders. Dr. Evelyn Lockhart will discuss diagnostic platelet electron microscopy and Dr. Sara Miller will discuss the role of electron microscopy in the diagnosis of infectious diseases in minute and unusual specimens. Finally, Dr. Frank Schneider will address the use of electron microscopy in evaluating cytologic specimens for asbestos-related disorders. We hope to see you all there!

Ultrapath XVII, with its theme of “**Multiscale Multidisciplinary Microscopy – EM and Beyond**” will be held in Portland, Oregon, USA, in the summer of 2014. Oregon Health and Science University (OHSU) will be the host institution, with meetings to be held near Portland’s downtown waterfront.

Our meeting will cover a continuum from advances in traditional contemporary electron microscopy to futuristic ultraimaging techniques. We will have our usual updates on patient-oriented electron microscopy and ancillary techniques. We will also talk about transitional techniques and interpretations, and futuristic and exciting new technologies – hopefully with tours of the Center for Spatial Systems Biomedicine, currently being built at OHSU’s South Waterfront.

Joe Gray, PhD (Chair, OHSU Department of Biomechanical Engineering) and Doug Weeks, MD (Chair, OHSU Department of Pathology) will be planning our program. Our social program will include outings around Portland in the heart of the beautiful Pacific Northwest.

We’ll keep you posted as the details come together. See you in Portland!

Richelle Malott (Weeks), MD

OHSU Department of Pathology

Ultrapath XVI, Regensburg August 6 – 10, 2012

The biennial Ultrapath meeting was held this year in Regensburg/Germany in the second week of August 2012. The delegates enjoyed meeting up again with their colleagues at the Sunday night welcome reception at the Klinikum campus (conference venue) and were treated to the story of the very early days of electron microscopy in a talk by T. Ruska, the nephew of the Nobel Prize winner - Ernst Ruska.

The meeting kicked off on Monday morning with a tutorial in “Pediatric Respiratory Diseases” chaired by John Hicks and Eric Wartchow, followed by an “Adult Respiratory Diseases” session chaired by Victor Roggli and Joseph Lloreta-Trull. Another tutorial, dealing with the basics of ciliopathy (chaired by Heymut Omran and Josef Schroeder), was given by a number of invited speakers on Tuesday morning (ciliogenesis, role in cell polarity/laterality of the body, impact in renal carcinoma and cystic kidney) and topped off by a dedicated session entitled “Ciliopathy Derived Diseases” (Focus PCD) chaired by Eric Wartchow and Kyriacos Kyriacou. On Wednesday, sessions covering the traditional diagnostic topics were held: “Ultrastructural Neuropathology in the Molecular Era”, “Transplantation Pathology –What EM has to Offer?”, “Tumor Pathology – Ongoing EM Value in Diagnostics of Neoplastic Lesions”, and “Dermatopathology- Pathological Clues from Morphological Epidermal and Connective Tissue Alterations”; the latest insights had been discussed on Thursday in dedicated sessions entitled “Mitochondria and Disease”, “Kidney-Focus on Structured Deposits” (one presentation was given via Skype-link from USA), “Infectious Agents”, “Cytopathology-Paucicellular Specimens and EM, the Perfect Match?”, and “New Technology-Multi Isotope Imaging Spectroscopy” . Friday was the day for highlights in EM basic research presented in two sessions.

The scientific program included a total of 75 oral presentations, 30 poster contributions and two pre-congress technological and instrumental workshops sponsored by industry. The congress program was shaped in two parts including the option of daily registration to offer more attendance flexibility to participants suffering financial (or workload) restrictions. There were 163 registered participants in total (including 11 invited speakers), 17 industrial representatives, and 13 accompanying persons. The Ultrapath XVI conference was accredited by the European Accreditation Council for Continuing Medical Education (EACCME); German attendees were awarded 6 CME points each day by the Bavarian Medical Association and international attendees with 23 European CME credits (recognized by the American Medical Association and other equivalent institutions).

The social activities consisted of small tours (Monday, guided visits to an original Himalayan Temple from Nepal, the local BMW car factory or the Walhalla Hall of Fame) and a grand tour (Tuesday) including the Falconry Station Rosenburg, a Crystal Museum in Riedenburg with unique mineral samples, and the Bavarian World of Beer with the picturesque tower of Hundertwasser. On Wednesday a guided tour familiarised the delegates with the historical Regensburg; the highlight was the conference dinner held on Thursday evening in the Haus Heuport in the centre of the town.

The Ultrapath XVI Conference Award winner for the best oral presentation was Marianna Nearchou, from Nicosia/Cyprus; the prize for the best poster went to Michaela Schweizer, from Hamburg/Germany. Abstracts of all submitted presentations were issued in a printed “Program & Abstract” conference booklet. For those who could not attend the meeting, there is a post-congress website (www.ultrapathXVI.de) containing selected video presentations of the ciliopathy sessions for free download (and some photographic impressions from the meeting too).

The organizers are deeply grateful to all participants and sponsors for making the Ultrapath XVI meeting in Regensburg a great platform for scientific ideas and diagnostic experience exchange for both “young” and “experienced” EM-orientated pathologists and scientists. Danke !

Josef Schroeder/Chairman Ultrapath XVI



40th Annual Meeting of **SCUR** (Society for Cutaneous Ultrastructure Research) will be held in Salzburg, Austria on May 12th –14th, 2013. This is a combined meeting with the **SSSR** (Society for Skin Structure Research). For more information go to <http://www.scur.org>

We are happy to announce that the video streams of the "Conference on Diagnostic Electron Microscopy, Basic Research and Oncology" are online. Selected topics presented on Tuesday, 07 August, 2012 in the "Ciliopathy sessions" were video-recorded and combined with the shown PP-slides for download on demand as a kind of a "post-congress" webinar. Please follow the link to the [Mediathek-Server of the University Regensburg](#) hosting the recordings (no login or password is necessary). We recommend the HD-version; if your internet connection bandwidth is low please use the SD-version. The free VLC-player usually has no problems with the playback. You can watch the recordings as often as you like or save it on your PC and learn about the ciliopathy at your leisure. Note also the option for a tablet-PC format conform download. We thank all the authors for giving the green light for the recordings and hope you enjoy the presentations! Dr. Josef A. Schroeder

Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique

Editors: John W Stirling, Alan Curry, Brian Eyden.

Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique is a multi-author volume that summarises the current interpretational applications of TEM in diagnostic pathology. This concise and accessible volume provides a working guide to the main, or most useful, applications of the technique including practical topics of concern to laboratory scientists. The text features both a screening and interpretational guide for TEM diagnostic applications and current diagnostic tissue preparation methods pertinent to all clinical electron microscope units worldwide. Containing high-quality representational images, this up-to-date text includes detailed information on the most important diagnostic applications of TEM as well as instructions for specific tissues and current basic preparative techniques.

The book is relevant to both trainee and practising pathologists who are expected to understand and evaluate/screen tissues by TEM. In addition, laboratory science students and technical and scientific staff involved in tissue preparation and diagnostic tissue evaluation/screening by TEM will find this text useful.

Descriptive and interpretational material covers: native and transplant kidney, skeletal muscle, nerve, tumours, microbes, cilia, lysosomal storage disorders, and more!

Practical topics and techniques include: traditional tissue preparation, virology, microwave technology and telemicroscopy, digital imaging and uncertainty of measurement.

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Society for Ultrastructural Pathology

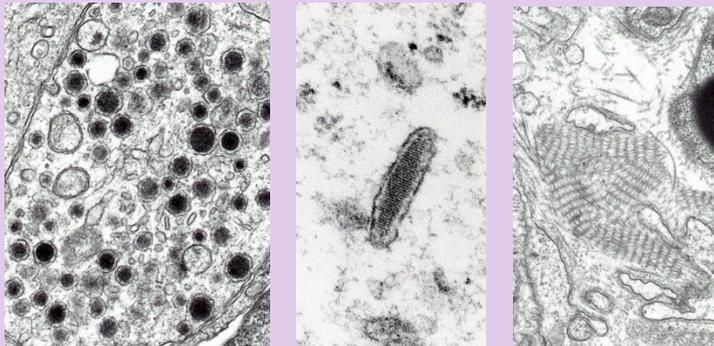
The Ultrastructure of Human Tumours: Applications in Diagnosis and Research

Brian Eyden PhD, S Sankar Banerjee MD FRCPath, Yongxin Ru MD and Pawel Liberski MD PhD

Zhejiang University Press (Hangzhou, China) with Springer (October, 2012)

The Zhejiang University Press of Hangzhou, China, and Springer are publishing a major new work on human tumour ultrastructure. Written by Brian Eyden and Sankar Banerjee from the Christie Hospital in Manchester (England), Yongxin Ru from the Blood Diseases Hospital in Tianjin (China), and Pawel Liberski from the School of Medicine, Łódź (Poland), this volume brings together the authors' own experience of human tumour ultrastructure, encompassing a cumulative total of some 7 decades, and complementing and adding to the existing knowledge and understanding in this field. The classical training in medicine and pathology of three of the authors ensures that the purely ultrastructural content is placed in the wider pathological context of clinical data and immunohistochemical and molecular biological findings.

In particular, malignant lesions are emphasised, since these are the ones predominantly entering into the common diagnostic problems faced by tumour pathologists today. Accordingly, the volume is divided into 8 chapters – chapter 1 consisting of introductory principles and technique; chapter 2 on epithelial tumours; chapter 3 on melanocytic lesions with special reference to malignant melanoma; chapter 4 on tumours of soft tissue and bone; chapter 5 on lymphoma and leukaemia (co-authored by Dr Ru); chapter 6 on tumours of the central nervous system (sole author, Professor Liberski); chapter 7 on tumours of the neuroendocrine system and peripheral nervous system; and chapter 8 on miscellaneous tumours and tumour-like lesions.



Significantly, the book includes new images of familiar tumours, as well as images of newly described variants – all providing novel perspectives on tumour cell differentiation. Wherever possible, images of normal cells have also been included, to provide information on the 'normal cellular counterpart' of tumours, which can be important for understanding tumour cell differentiation. With over 660 pages and some 800 figures, it is hoped that this book will help pathologists in their routine diagnostic work, as well as scientists and doctors engaged in cancer research and the development of anti-cancer therapies, since all of these areas demand an understanding of tumour cell differentiation. The authors, finally, have not shied away from including some controversial interpretations, which, it is hoped, will spark enthusiasm for future ultrastructural investigations of some unusual tumour entities.

Further enquiries on definitive date of publication, price and ordering procedure: Tel: +49 6221 345 4301 Email: orders-HD-individuals@springer.com