



XXXIV IPPA Advanced Course in Paediatric Pathology

15th – 21st September, 2012

La Granja de San Ildefonso, Spain



P R O G R A M M E

Local Organisers: ***Prof. Isabel Colmenero***
Prof. Fernando G. Casco

Course Director: ***PD Dr. Elisabeth Bruder***

Tutors

Dr. Michael T. Ashworth (UK)
Prof. Megan K. Dishop (USA)
Dr. Roger D. G. Malcomson (UK)
Prof. Paula E. North (USA)
Prof. Elizabeth J. Perlman (USA)
Prof. Edwina J. Popek (USA)

Local Guest Tutors

Dr. Juan Carlos López-Gutiérrez (Spain)
Dr. Manuel Ramírez-Orellana (Spain)
Prof. Luis Requena (Spain)
Dr. Irene Scheimberg (UK)
Dr. Antonio Torrelo (Spain)

Resident Tutors

Prof. Cheryl M. Coffin (USA)
Prof. Luc L. Oligny (Canada)

Saturday 15th September 2012



Registration and tea from 16.00

18.30 Dinner

20.00-21.00 Introductory Lecture

INTRODUCTION TO INSTITUTIONAL RIOJA WINES

JUAN BAUTISTA CHAVARRI

21.00 'Cata de vinos' Wine Tasting

Sunday 16th September 2012

Chair: Edwina Popek

08.15 OPENING

E. Bruder

08.30 LECTURE 1

HUMAN MOLECULAR EMBRYOGENESIS & ONCOGENESIS – AN INTRODUCTION L. OLIGNY

9.25 LECTURE 2

DIFFUSE LUNG DISEASE IN INFANCY: ACQUIRED & REACTIVE DISORDERS M. DISHOP

10.20– 10.45 Coffee

10.45 LECTURE 3

MULTIPLE CUTANEOUS TUMOURS AS PREDICTORS OF SYSTEMIC DISEASE L. REQUENA

11.40 LECTURE 4

EPIDERMAL NEVI AND RELATED SYNDROMES A. TORRELO

12.30 LECTURE 5

DIAGNOSTIC CHALLENGE OF PAEDIATRIC VASCULAR TUMOURS & MALFORMATIONS P. NORTH

13.30 Lunch

**14.30 – 18.00 Afternoon -Tour La Granja de San Ildefonso
& Course Photograph**



19.00 Dinner

Chair: Elisabeth Bruder & Roger Malcomson

20.00-21.00 LECTURE 6

ASK THE SPECIALIST IN PAEDIATRIC DERMATOPATHOLOGY L. REQUENA& A. TORRELO

21.00-22.30 LECTURE 7

PARTICIPANTS' SLIDE SEMINAR

Monday 17th September 2012

Chair: Paula North

8.15 LECTURE 8

CONGENITAL LUNG CYSTS AND MALFORMATIONS

M. DISHOP

9.10 LECTURE 9

PAEDIATRIC GONADAL TUMOURS: NON-GERM CELL TUMOURS

E. PERLMAN

10.05 – 10.30 Coffee

10.30 LECTURE 10

THE VALUE OF THE PATHOLOGIC EXAMINATION OF THE FETUS

E. POPEK

11.25 LECTURE 11

FETAL HEART DISEASE

M. ASHWORTH

12.20 LECTURE 12

DISORDERS OF THORAX & ABDOMEN: OMPHALOCELE & GASTROSCHISIS

L. OLIGNY

13.15 Lunch

14.30-18.00 Afternoon – Tour Segovia



19.00 Dinner

Chair: Elisabeth Bruder & Roger Malcomson

20.00-22.30 LECTURE 13

TUTORS' SLIDE SEMINAR

(part 1)

Tuesday, 18th September 2012

Chair: Luc Oligny

8.15 LECTURE 14

PERINATAL INFECTION

E. POPEK

9.10 LECTURE 15

VASCULAR ANOMALIES OF BORDERLINE MALIGNANCY AND THOSE ASSOCIATED WITH COAGULOPATHY

P.NORTH

10.05 – 10.30

Coffee

10.30 LECTURE 16

PAEDIATRIC GONADAL TUMOURS: GERM-CELL TUMOURS

E. PERLMAN

11.25 LECTURE 17

UPDATE ON FIBROBLASTIC-MYOFIBROBLASTIC TUMORS IN YOUNG PATIENTS

C. COFFIN

12.20 LECTURE 18

DIFFUSE LUNG DISEASE IN OLDER CHILDREN

M. DISHOP

13.15 Lunch

Afternoon – free afternoon for private study



19.00 Dinner

Chair: Roger Malcomson & Michael Ashworth

20.00-22.30 LECTURE 19

TUTORS' SLIDE SEMINAR

(part 2)

Wednesday 19th September 2012

Chair: Michael Ashworth

8.15 LECTURE 20

THE LIFE OF AN ENDOTHELIAL CELL IN INFANTILE HAEMANGIOMA

P. NORTH

9.10 LECTURE 21

GESTATIONAL TROPHOBLASTIC DISEASE

E. POPEK

10.30 LECTURE 22

10.05 – 10.30

Coffee

PAEDIATRIC SKELETAL MUSCLE BIOPSIES

R. MALCOMSON

11.25 LECTURE 23

WILMS TUMOUR AND OTHER NEPHROBLASTIC LESIONS

E. PERLMAN

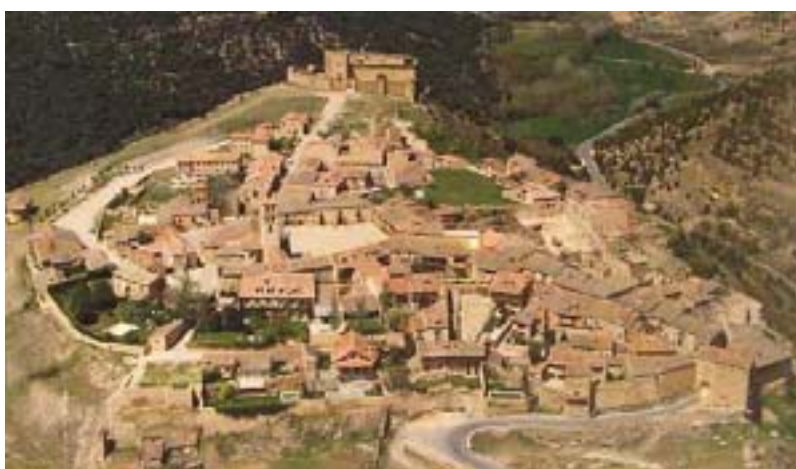
12.20 LECTURE 24

ONCOLYTIC VIROTHERAPY FOR PAEDIATRIC SOLID TUMOURS

M. RAMIREZ-ORELLANA

13.15 Lunch

14.30-18.00 Afternoon – Tour Pedraza



19.00 Dinner

Chair: Cheryl Coffin and Luc Oligny

20.00-21.00 LECTURE 25

BASICS OF THE FETAL HEART AUTOPSY

M. ASHWORTH

21.00-22.00 LECTURE 26

THE QUIZ

C. COFFIN

Thursday 20th September 2012

Chair: Megan Dishop

8.15 LECTURE 27

PROGRESS AND ONGOING CHALLENGES IN SARCOMA CLASSIFICATION AND GRADING IN THE YOUNG C. COFFIN

9.10 LECTURE 28

PLACENTAL PATHOLOGY ASSOCIATED WITH MATERNAL DISORDERS AND POOR NEONATAL OUTCOME E. POPEK

10.05 – 10.30 Coffee

10.30 LECTURE 29

PAEDIATRIC RENAL TUMOURS OTHER THAN WILMS TUMOURS E. PERLMAN

11.25 LECTURE 30

CURRENT CLASSIFICATION OF HEPATIC VASCULAR LESIONS P. NORTH

12.20 LECTURE 31

VASCULAR ANOMALIES OF INFANCY: SURGICAL TREATMENT J. C. LOPEZ-GUTIERREZ

13.15 Lunch

Afternoon- free for personal study



19.30

Course Dinner

Friday 21st September 2012

Chair: Isabel Colmenero & Fernando Casco

9.00 LECTURE 32

NORMAL FACIAL DEVELOPMENT: AN APPROACH TO FACIAL CLEFTS

L. OLIGNY

9.45 LECTURE 33

DIFFUSE LUNG DISEASE IN INFANCY: GENETIC & DEVELOPMENTAL DISORDERS

M. DISHOP

10.30-11.00

Coffee

11.00 LECTURE 34

FETAL HEART MALFORMATIONS IN SYNDROMES

M. ASHWORTH

11.45 LECTURE 35

INTRAPARTUM ASPHYXIA AND INTRAPARTUM TRAUMA

I. SCHEIMBERG

12.30 IPPA Course Business Meeting

INTRODUCTION TO IPPA 2013 JERUSALEM, ISRAEL

AYALA ARAD & ILANA ARIEL

13.00

Lunch and Depart



ORGANIZERS & TUTORS

Michael T. Ashworth, Department of Histopathology, Great Ormond St Hospital for Children, London WC1N 3JH, UK, AshwoM@gosh.nhs.uk

Elisabeth Bruder, Institute of Pathology, Hospital of the University of Basel, Schoenbeinstrasse 40, CH-4031 Basel, Switzerland, elisabeth.bruder@unibas.ch Mobile Phone Number +41 79 827 33 82

Juan Bautista Chávarri, Winemaker of Bodega "La Grajera", Spain, juanbautista.chavarri@larioja.org, gestion.medios@larioja.org

Cheryl M. Coffin, Vanderbilt University Department of Pathology, 1161 21st Avenue South, Medical Center North-C3324, Nashville, TN 37232-2561, USA, cheryl.coffin@vanderbilt.edu

Fernando G. Casco, Pathology Department, Hospital Infantil Universitario Nino Jesus, Av. Menendez Pelayo 65, 28009 Madrid, Spain, fgcasco2000@yahoo.com.ar

Isabel Colmenero, Department of Pathology, Hospital Infantil Universitario Nino Jesus, Av. Menendez Pelayo 65, 28009 Madrid, Spain, isabelcolmenero@gmail.com

Megan K. Dishop, Department of Pathology and Laboratory Medicine, Children's Hospital Colorado, 13123 East 16th Avenue, Aurora, CO 80045, USA, Megan.Dishop@childrenscolorado.org

Juan Carlos López-Gutiérrez, Paediatric Surgeon, Hospital La Paz, Madrid, Spain, queminfantil.hulp@salud.madrid.org

Roger D. G. Malcomson, Histopathology Department, Leicester Royal Infirmary, Infirmary Close, Leicester, LE1 5WW, UK, roger.malcomson@uhl-tr.nhs.uk, webmaster@paedpath.org

Paula E. North, Professor of Pathology and Chief of Pediatric Pathology, Medical College of Wisconsin, Children's Hospital of Wisconsin, Department of Pathology and Laboratory Services, 9000 W. Wisconsin Avenue, Milwaukee, WI 53226, USA, pnorth@mcw.edu

Luc L. Oligny, Centre hospitalier universitaire Sainte-Justine, Pathology Department, 3175, Côte Ste-Catherine, Montreal (Quebec) H3T 1C5, Canada, luc_oligny@ssss.gouv.qc.ca

Elizabeth J. Perlman, Professor, Department of Pathology, Northwestern University's Feinberg School of Medicine, Pathologist-in-Chief, Children's Memorial Hospital, Ann and Robert H. Lurie Children's Hospital, Department of Pathology Room 08427, 225 East Chicago Ave, Chicago, IL 60611, USA, eperlman@luriechildrens.org

Edwina J. Popek, Director of Anatomic Pathology, Perinatal and Placental Pathology, Baylor College of Medicine, Texas Children's Hospital, Department of Pathology, Suite AB1195, 6621 Fannin Street, Houston, Texas 77030, USA, ejpopek@texaschildrens.org

Manuel Ramírez-Orellana, Paediatric Oncologist, Chairman of the Investigation Laboratory, Department of Oncology, Hospital Niño Jesús, Madrid, Spain, mramirezo.hnjs@salud.madrid.org

Luis Requena, Dermatopathologist, Chairman of Dermatology Department, Fundación Jiménez Díaz, Universidad Autónoma de Madrid, Madrid, Spain, lrequena@fjd.es

Irene Scheimberg, Paediatric and Perinatal Pathologist, Cellular Pathology Department, Barts and The London NHS Trust, London, UK, i.scheimberg@bartsandthelondon.nhs.uk

Antonio Torrelo, Paediatric Dermatologist, Chairman of Dermatology Department, Hospital Niño Jesús, Madrid, Spain atorrelo@aedv.es

Participants

Mudher Al-Adnani, Department of Histopathology, Sheffield Children's Hospital, Western Bank – Sheffield, S10 2TH, UK. Email: Mudher.Al-Adnani@sch.nhs.uk

Jackie Allotey, Paediatric Pathology, Birmingham Children's Hospital, Steelhouse Lane, Birmingham B4 6HN, UK. Email: jyallotey@doctors.org.uk

Ayala Arad, Department of Pathology, Bnai Zion Medical Center, 47A Vardia St., 34657 Haifa, Israel, Email: arad_a@internet-zahav.net

Mahlet ArayaSelassie, Department of Pathology, Addis Ababa University, Addis Ababa 170218, Ethiopia. Email: mahletaraya@yahoo.com

Jurate Asmundsson, Department of Pathology and Cytology, Karolinska University Hospital, Solna, Stockholm 17176, Sweden, Email: jurate.asmundsson@karolinska.se, jurkis@yahoo.com

Kate Bartlett, Auckland District Health Board/ Hospital, PO Box 110031, Park RD, Grafton 1148, New Zealand. Email: KBartlett@adhb.govt.nz

Gauri Batra, Department of Paediatric Histopathology, NHS, Central Manchester University Hospitals NHS Foundation Trust Hospital, Oxford Road, Manchester M13 9WL, UK. Email: gauribatra@gmail.com

Stefania Bitetti, Paediatric Pathology, RMCH, Oxford Road, Manchester M139WL, UK, Email: sbitetti@libero.it, stefania.bitetti@cmft.nhs.uk

Sigrid Bjørnstad, Center for Pediatric and Pregnancy Related Pathology, Department of Pathology, Oslo University Hospital, Ullevål, Kirkeveien 166, 0407 Oslo, Norway, Email: Sigrid.bjornstad@ullevaal.no, Sigrid.Bjornstad@uus.no

Jennifer Black, Department of Pathology, Microbiology and Immunology, Vanderbilt University, Vanderbilt Children's Hospital, 2200 Children's Way DOT 11223, Nashville, TN 37232-9065, USA, Email: Jennifer.black@vanderbilt.edu

Peter Bode, Institute of Surgical Pathology, University Hospital Zurich, Schmelzbergstrasse 12, 8091 Zurich, Switzerland, e-mail: peterkarl.bode@usz.ch

Dorothee Bouron-Dal Soglio, Department of Pathology, CHU S^{te} Justine, 3175 Chemin de la Côte Sainte Catherine, 43W 2N1 Quebec Montreal, Canada, Email: dorothee.bouron@gmail.com

Amanda Charlton, Histopathology, The Children's Hospital at Westmead, Corner Hawkesbury Rd and Hainsworth St., Westmead, NSW, 2145, Australia, Email: amandac6@chw.edu.au, Amanda.charlton@health.nsw.gov.au

Edmund Cheesman, Department of Paediatric Histopathology, Royal Manchester Children's Hospital, Oxford Road, Manchester M13 9WL, UK. Email: Edmund.cheesman@cmft.nhs.uk

Engin Cigerciogullari, Department of Pathology, Marmara University, Pendik Eğitim Araştırma Hastanesi. Yukarı, Kaynarca, Pendik, Istanbul 34890, Turkey. Email: ecigerciogullari@yahoo.com

Sophie Collardeau-Frachon, MCU-PH, pathologie pédiatrique et foetopathologie, Centre de Pathologie Est, Faculté de médecine Lyon Est, Hospices Civils de Lyon, Groupement Hospitalier Est, 59 bd Pinel, 69677 Bron Cedex, France, Email: sophie.collardeau-frachon@chu-lyon-fr

Karin Collett, Department of Pathology, Haukeland University Hospital, Gades Institute, 5021 Bergen, Norway. Email: Karin.collett@helse-bergen.no

Ellen Degreef, Department of Pathology, Stichting PAMM, Michelangelolaan 2, 5623EJ Eindhoven, The Netherlands, Email: e.degreef@pamm.nl

Susan Dilly, Department of Cellular Pathology, Royal London Hospital, Whitechapel, London E1 2AD UK, Email: s.dilly@qmul.ac.uk

Milena Djukic, Department of Histopathology, Institute for Mother and Child Care of Serbia 'dr Vukan Cupic', Radoja Dakica 6-8, 11070 Belgrade, Serbia, e-mail: djukic.dr.milena@gmail.com

Karen Ernestus, Department of Pathology, University of Würzburg, Josef-Schneider-Str. 2, 97080 Würzburg, Germany, Email: Karen.ernestus@uni-wuerzburg.de

Meora Feinmesser, Department of Pathology, Rabin Medical Center, Beilinson Hospital, 36 Jabotinsky Street, 49100 Petach Tiqva, Israel. Email: meoraf@clalit.org.il

Joan C. Ferreres, Department of Pathology, 'Vall d' Hebron' University Hospital, Passeig Vall d' Hebron, 119-129. Barcelona 08.035, Spain. Email: joanfc@gmail.com

Darren J Fowler, Department of Cellular Pathology, University Hospital Southampton NHS Foundation Trust, Tremona Road, Southampton SO16 6YD, UK. Email: Darren.fowler@uhs.nhs.uk, Darren.fowler@nhs.net, Darren.fowler@suht.swest.nhs.uk

Maria Laura Galluzzo, Department of Pathology, Hospital Nacional de Pediatria Dr JP Garrahan, Combate de los Pozos 1881, Buenos Aires 1245, Argentina. Email: lauragalluzzoch@yahoo.com.ar

Justine Gearry, Department of Anatomical Pathology, Canterbury Health Laboratories. P.O.Box 151, Christchurch 8002, New Zealand. Email: Justine.Gearry@cdhb.health.nz justine.gearry@cdhb.govt.nz

Jacqueline Goedhals, Anatomical Pathology, University of the Free State and National Health Laboratory Service, Room 124, Lower ground, Block C, Faculty of Health Sciences, University of the Free State, DF Malherbe Road, Bloemfontein 9300, South Africa, Email: gnmbjg@ufs.ac.za

Marieke Hogenes, Department of Pathology, Laboratorium Pathologie Oost Nederland, Burgemeester Edo Bergsmalaan 1, 7512 AD Enschede, the Netherlands, Email: m.c.h.hogenes@umcutrecht.nl, m.hogenes@laborpath.nl

Casper Jansen, Department of Pathology, Laboratorium Pathologie Oost-Nederland, Burg. Edo Bergsmalaan 1, 7512 AD, Enschede, The Netherlands, e-mail: c.jansen@laborpath.nl

Caren Jayasinghe, Institute for Pathology, Kreiskrankenhaus Gummersbach, Wilhelm-Breckow-Allee 20, 51643 Gummersbach, Germany. Email: c.jayasinghe@gmx.de

Gareth Jevon, Department of Histopathology, Princess Margaret Hospital, Roberts Road, Subiaco, Western Australia 6008, Australia. Email: gareth.jevon@health.wa.gov.au gjevon@mac.com

Eva Juettner, Sektion Kinderpathologie, Institut für Pathologie, Haus 14, Universitätsklinikum Schleswig-Holstein, Arnold-Heller Strasse 3, 20105 Kiel, Germany, Email: ējuettner@path.uni-kiel.de

Ayper Kaçar, Department of Pathology, Ordu University, Turkey, Email: ayperkacar@yahoo.com

Elena Kikina, Department of Pathomorphology, Cytology and Genetics, Irkutsk Regional Diagnostic Center, 109 Baikalkaia Street, 664047 Irkutsk, Russia, Email: lena_kikina@mail.ru

May Leong, Department of Pathology and Laboratory Medicine, KK Women's and Children's Hospital, 100 Bukit Timah Road, Singapore 229899, e-mail: mayyingl@yahoo.com

Kathrin Ludwig, Department of Medicine (DIMED), Surgical Pathology and Cytopathology Unit, University of Padova (IT), Via A. Gabelli 61, 35121 Padova, Italy. Email: kathrin.ludwig@studenti.unipd.it, nostradame@gmx.de

Maria Silvana Maglio, Department of Pathology, Hospital de Niños Dr Ricardo Gutierrez, Barrio Septiembre UF 078, Escobar. Buenos Aires 1625, Argentina. Email: silvanamaglio@gmail.com

Andreas Marnnerides, Clinical Pathology & Cytology, Perinatal Pathology Group, Karolinska University Hospital, Hälsovägen F46, 141 86 Stockholm, Sweden, Email: amarnneride@hotmail.com
andreas.marnnerides@karolinska.se

Lisa Leth Maroun, Department of Pathology, Diagnostic Center, unit 5443, Rigshospitalet, Blegdamsvej 9, Copenhagen Ø, DK-2100, Denmark, e-mail: lisa. leth.maroun@rh.regionh.dk

Anne-Elisabeth Mas, Department of Pathology, APHP Hôpital Antoine Béclère, 157 rue de la porte de Trivaux, 92140 Clamart, France. Email: anne-elisabeth.mas@abc.aphp.fr

Charlotte Mechler, Division of Cellular Pathology, Royal London Hospital, 80 Newark Street, E1 2ES, UK. Email: charlotte.dahmani@aquilant.com

Annette M. Müller, Department of Paediatric Pathology, University Clinic Bonn, Sigmund-Freud-Strasse 25, 53127 Bonn, Germany, Email: annette.mueller@ukb.uni-bonn.de

Amanda Murphy, Department of Paediatric and Perinatal Pathology, Southern General Hospital, Glasgow, Department of Pathology, Level 3, Laboratory Medicine FM Building, Southern General Hospital, Govan Road, Glasgow G51 4TF, UK. Email: mandabloom@gmail.com

Anita Nagy, Histopathology Department, Addenbrooke's Hospital, Box 235, Hills Road, Cambridge CB2 0QQ, UK, Email: anita.nagy@addenbrookes.nhs.uk

Ina U Nicklaus-Wollenteit, Perinatal Pathology, Birmingham Women's Hospital, Mindelsohn Way, Birmingham B15 2TG, UK, and Department of Paediatric Pathology, Birmingham Children's Hospital, Steelhouse Lane, Birmingham B4 6NH, UK. e-mail: WollenteitNicklaus@web.de Ina.Nicklaus-Wollenteit@doctors.org.uk

Diclehan Orhan, Department of Paediatric Pathology, Hacettepe Üniversitesi Tıp Fakültesi İhsan Doğramacı Çocuk Hastanesi, 3 nolu kapı Pediatrik Patoloji Ünitesi Sıhhiye ANKARA 06100, Turkey, Email: diclehan@hacettepe.edu.tr

Claudia Peña, Department of Anatomical Pathology, Center Hospital 'Dr Ignacio Morones Prieto', Venustaino Carranza 2395, University Zone, 78000 Mexico. Email: clopez@yahoo.com.mx

Dawn Penman, Department of Paediatric Pathology, Department of Pathology, Laboratory Medicine and Facilities Management Building, Southern General Hospital, 1345 Govan Road, Glasgow G52 4TF, UK. Email: dawn.penman@ggc.scot.nhs.uk

Komala Pillay, Department of Histopathology, National Health Laboratory Services, University of Cape Town, Red Cross Children's Hospital, Room 111, ICH Building, Klipfontein Road, Rondebosch 7700, South Africa. Email: Komala.Pillay@uct.ac.za

Silvia Planas, Pathology Department, Hospital Sant Joan De Deu, Passeig Sant Joan de Deu, Esplugues de Llobregat, Barcelona 08950, Spain. Email: silvia_planas@yahoo.es

Aylar Poyraz, Department of Pathology, Gazi University Medical School, Gazi Üniversitesi Tıp Fakültesi Fakültesi Gazi Hastanesi Patoloji AD, Beşevler, Ankara 06500, Turkey. Email: aylar@gazi.edu.tr
poyrazaylar@gmail.com

Rodriguez Maria Matilde, Department of Pathology, University of Miami/ Jackson Memorial Hospital, 1611 NW 12 Avenue, Holtz Center-2142, Miami, Florida 33136, USA. Email: mmrod@miam.edu
MRodrig2@med.miami.edu

Yolanda Rodriguez-Gil, Department of Surgical Pathology, Doce de Octubre University Hospital, Avda de Córdoba SN, Edificio General, Planta Semisótana, Departamento de Anatomía Patológica, Hospital Universitario 12 de Octubre, Madrid 28045, Spain. Email: yolandarodriguezgil@hotmail.com
Rodriguez.hdoci@salud.madrid.org

Anne-Laure Rougemont, Division of Clinical Pathology, Geneva University Hospitals, Rue Gabrielle-Perret-Gentil 4, 1211 Geneva 4, Switzerland. Email: anne-laure.rougemont@hcuge.ch

Carlota Rovira-Zurriaga, Department of Pathology, Hospital Sant Joan de Déu, Pg Sant Joan de Déu n° 2, 08950 Barcelona, Spain. Email: crovira@hsjdbcn.org

Victor Saldivar, Department of Pathology, San Antonio Children's Hospital, 333 N. Santa Rosa Strett, San Antonio, Texas 78207, USA. Email: victor.saldivar@christushealth.org vicsal@me.com

Chitra Sethuraman, Department of Histopathology, Sheffield Children's NHS Foundation Trust, Western Bank, Sheffield S10 2TH, UK. Email: drcsethuraman@yahoo.com

Alicia Georgina Siordia-Reyes, Department of Pathology, Instituto Mexicano del Seguro Social, Av. Cuauhtemoc 303, Mexico City, Mexico. Email: georginasiordia@hotmail.com

Jens Stahlschmidt, Department of Histopathology, Leeds Teaching Hospital Trust, Beckett Street, Leeds LS9 7TF, UK. Email: jens.stahlschmidt@leedsth.nhs.uk

Pauline Storm-Bogaard, Department of Pathology, Patologisk Institut, Postbox 561, 9100 Aalborg, Denmark. Email: p.bogaard@rn.dk

Kate Strachan, Anatomic Pathology, LabPlus, POBox 110031, Auckland City Hospital, Auckland 1148, New Zealand. Email: katestrachans@gmail.com

Nina Tatevian, Department of Pathology and Laboratory Medicine, University of Texas Health Science Center at Houston, 6431 Fannin Street, MSB 2230, Houston, Texas 77030, USA. Email: nina.tatevian@uth.tmc.edu

Irimi Thymara, First Department of Abatomy Pathology, Medical School, University of Athens, Mikras Asias 75, Goudi, Athens 11527, Greece. Email: ei_thymara@yahoo.gr

Gitta Turowski, Department of Pathology, Oslo University Hospital Ullevål, Kirkeveien 166, 0407 Oslo, Norway, e-mail: gitta.turowski@uus.no g.e.turowski@medisin.uio.no gitta.turowski@ullevål.no UXTUGI@ous-hf.no Gitta.Turowski@oslo-universitetssykehus.no

Patrick van der Voorn, Department of Pathology, VU University Medical Center (VUMC), Singel 6, Amsterdam, 1012 VD, The Netherlands, e-mail: JP.vanderVoorn@vumc.nl

Mike Watson, Anatomical Pathology, LabPlus, Auckland City Hospital, Park Rd, Auckland 1010, Mew Zealand. Email: MWatson@adhb.govt.nz



accredited by the
European Accreditation Council for Continuing Medical Education

EACCME