

**FINAL PROGRAMME**

**Joint**

**British Society for Haemostasis & Thrombosis,**

**UK Platelet Group &**

**United Kingdom Haemophilia Centre Doctors Organisation**

**Annual Scientific and general meeting**

**The Royal College of Surgeons of Edinburgh**

**Tuesday 7<sup>th</sup> to-Thursday 9th October 2014**

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## Tuesday 7<sup>th</sup> October

- 09:00**                      **Registration opens**
- 9:30 – 15:30**                **UKHCDO AGM**
- 12:30-13:30**                **Lunch**
- 13:30-15:00**                **Session 1: Chairpersons Nicola Mutch & Cedric Duval**
- 13:30-13:45**                **O1 THROMBIN REGULATES PROTOFIBRIL PACKING WITHIN FIBRIN FIBRES LEADING TO CHANGES IN CLOT STIFFNESS** Marco M. Domingues<sup>\*,‡</sup>, Cédric Duval<sup>\*</sup>, Helen McPherson<sup>\*</sup>, Simon Connell<sup>‡</sup>, Helen Philippou and Robert Ariëns<sup>\*</sup> \* Theme Thrombosis, Division of Cardiovascular and Diabetes Research, Faculty of Medicine and Health, University of Leeds, Leeds, UK. ‡ Molecular and Nanoscale Physics group, School of Physics and Astronomy, University of Leeds, Leeds, UK
- 13:45-14:00**                **O2 EFFECTS OF FXIII-A V34L ON FIBRIN CLOT FORMATION IN-VIVO** Duval Cedric ., Ali M., Chaudhry W., Ridger V.C., Philippou H., Ariëns R.A.S. Theme Thrombosis; Division of Cardiovascular and Diabetes Research; Leeds Institute of Genetics, Health and Therapeutics; University of Leeds; UK
- 14:00-14:15**                **O3 POLYPHOSPHATE DELAYS FIBRIN POLYMERISATION AND ALTERS THE MECHANICAL PROPERTIES OF THE FIBRIN NETWORK** Whyte CS<sup>1</sup>, Chernysh IN<sup>2</sup>, Connell S<sup>3</sup>, Weisel JW<sup>2</sup>, Ariens RAS<sup>4</sup>, Mutch NJ<sup>1</sup> <sup>1</sup> Institute of Medical Sciences, University of Aberdeen, Aberdeen, UK. <sup>2</sup> Department of Cell & Developmental Biology, University of Pennsylvania, USA. <sup>3</sup> Molecular and Nanoscale Physics Group, School of Physics and Astronomy, University of Leeds, UK. <sup>4</sup> Division of Cardiovascular & Diabetes Research, Faculty of Medicine & Health, University of Leeds, UK
- 14:15-14:30**                **O4 DYSREGULATED ANTICOAGULATION IN THE SKIN OF BURULI ULCER PATIENTS DUE TO MYCOLACTONE-DEPENDENT LOSS OF ENDOTHELIAL THROMBOMODULIN.** Joy Ogbечи<sup>1</sup>, Marie-Thérèse Ruf<sup>2,3</sup>, Belinda Hall<sup>1</sup>, Kikki Bodman-Smith<sup>1</sup>, Charles T. Esmon<sup>4</sup>, Josefin Ahnström<sup>5</sup>, Gerd Pluschke<sup>2,3</sup>, and Rachel Simmonds<sup>1</sup>. <sup>1</sup> Department of Microbial and Cellular Sciences, School of Biosciences and Medicine, Faculty of Health and Medical Sciences, University of Surrey, UK; <sup>2</sup> Swiss Tropical and Public Health Institute, Basel, Switzerland; <sup>3</sup> University of Basel, Basel, Switzerland; <sup>4</sup> Coagulation Biology Laboratory, Oklahoma Medical Research Foundation, Oklahoma City, OK; <sup>5</sup> Centre for Haematology, Faculty of Medicine, Imperial College London, UK
- 14:30-14:45**                **O5 AMINO ACID RESIDUES IN THE FIRST LAMININ G DOMAIN OF PROTEIN S INVOLVED IN TFPI INTERACTION** Sofia Somajo,<sup>1</sup> Josefin

Ahnström,<sup>2</sup> Juan Fernandez-Recio<sup>4</sup>, Bruno O. Villoutreix,<sup>3</sup> and Björn Dahlbäck<sup>2</sup>

<sup>1</sup>Department of Laboratory Medicine, Division of Clinical Chemistry, Lund University, Skåne University Hospital, Malmö, Sweden, <sup>2</sup>Centre for Haematology, Faculty of Medicine, Imperial College London, Hammersmith Hospital Campus, United Kingdom, <sup>3</sup>Protein Interactions and Docking Life Sciences Department, Barcelona Supercomputing Centre, ES-08034 Barcelona, Spain, <sup>4</sup>Inserm Unit U973, Therapeutic molecules in silico (MTi), Lamarck Building, 35 rue Helene Brion, FR-75013 Paris, France.

**14:45-15:00**      **O6 HISTONE-INDUCED ACUTE LUNG INJURY AND COAGULATION ACTIVATION ARE REDUCED BY C-REACTIVE PROTEIN IN THE ACUTE PHASE RESPONSE** Simon Timothy Abrams<sup>1</sup>, Nan Zhang<sup>2</sup>, Guozheng Wang<sup>1</sup> and Cheng-Hock Toh<sup>1</sup> <sup>1</sup>Institute of Infection and Global Health, University of Liverpool, Liverpool, United Kingdom. <sup>2</sup>The Medical School, Southeast University, Nanjing, China.

**15:00-15:30**      **Coffee/Tea**

**15:30-17:30**      **Session 2 Chairpersons Anne Goodeve & Jim Crawley**

**15.30-16.10**      **Bjorn Dahlback:** Factor V & Texas bleeding disorder

**16.10-16.50**      **Peter Lenting:** von Willebrand factor

**16.50-17.30**      **Jonas Emsley:** Structural aspects of contact activation

**17.30-1800**      **BSHT Annual General Meeting (members only)**

**17.30-19:00**      **Poster viewing Drinks reception 18.00-19.00**

## Wednesday 8<sup>th</sup> October

- 9.00- 1100**      **Session 3: Bleeding disorders**  
**Chairpersons: Mike Makris & Gerry Dolan**
- 9:00-9:30**      Gillian Lowe: Using old and new tools for the diagnosis of inherited platelet disorders
- 9:30-10:00**      Carolyn Millar: Is the classification of von Willebrand disease type important?
- 10:00-10:30**      Dan Hart: The use of genotype and modelling to predict inhibitor development in patients with haemophilia A
- 10:30-11:00**      Peter Collins: The diagnosis and management of inhibitors against coagulation factors other than factor VIII
- 11:00-11:30**      **Coffee/tea**
- 9:00-11:00**      **Session 4. Parallel oral communications (Platelets)**  
**Chairpersons Steve Watson & Tom McKinnon**
- 9:00-9:15**      **O7 GPVI-DIMER CLUSTERING: RELATIONSHIP TO GP IB, INTEGRIN A2B1, AND GPVI SIGNALING** Stephanie M. Jung<sup>1</sup>, Alice Y. Pollitt<sup>2</sup>, Natalie S. Poulter<sup>2</sup>, Dominique Bihan<sup>1</sup>, Richard W. Farndale<sup>1</sup>, Masaaki Moroi<sup>1</sup>, and Steve P. Watson<sup>2</sup> <sup>1</sup>Department of Biochemistry, University of Cambridge, CB2 1QW, United Kingdom <sup>2</sup>Centre for Cardiovascular Sciences, University of Birmingham, B15 2TT, United Kingdom
- 9:15-9:30**      **O8 IMPAIRED NUCLEAR LOCALISATION OF FLI1 AS A RESULT OF R337W AND Y343C SUBSTITUTIONS IN THE DNA-BINDING DOMAIN** Vincenzo Leo<sup>1</sup>, E Sabi<sup>1</sup>, B Wagner<sup>2</sup>, L Nicholson-Goult<sup>2</sup>, SP Watson<sup>3</sup>, ME Daly<sup>1</sup> on behalf of the UK GAPP Study Group. <sup>1</sup>Department of Cardiovascular Science, University of Sheffield Medical School, University of Sheffield, UK; <sup>2</sup>Electron Microscopy section, Histopathology department, Royal Hallamshire Hospital, Sheffield, UK; <sup>3</sup>Centre for Cardiovascular Sciences, School of Clinical and Experimental Medicine, College of Medical and Dental Sciences, University of Birmingham, UK;
- 9:30-9:45**      **O9 AURANOFIN, A THIOREDOXIN REDUCTASE INHIBITOR, CAUSES PLATELET NECROSIS THROUGH REACTIVE OXYGEN SPECIES AND CALCIUM OVERLOAD** Matthew T. Harper, University of Bristol. Bristol Platelet Group, School of Physiology and Pharmacology, University Walk, Bristol BS8 1TD
- 9:45-10:00**      **O10 PHOSPHATIDYLINOSITOL-3,4,5-TRISPHOSPHATE STIMULATES THROMBOXANE A2 FORMATION VIA CA<sup>2+</sup> ELEVATION AND AKT PHOSPHORYLATION IN HUMAN PLATELETS** Nick Kassouf<sup>1</sup>, Archana Ambily<sup>1</sup>, Stephanie Watson<sup>2</sup>, Sheila Hassock<sup>1</sup>, Harmeet S. Authi<sup>1</sup>, Steve Watson<sup>2</sup> and Kalwant S. Authi. <sup>1</sup>Cardiovascular Division, King's

College London, Franklin Wilkins Building, Stamford Street, London SE1 9NH. <sup>2</sup>Centre for Cardiovascular Sciences, Institute of Biomedical Research, The Medical School, University of Birmingham, Birmingham, UK;

**O11** EPHB2 MEDIATED CONTACT-DEPENDENT AND INDEPENDENT SIGNALLING IN THE REGULATION OF THROMBOSIS AND HAEMOSTASIS Sakthivel Vaiyapuri, Tanya Sage, Marfoua S. Ali, Rekha Rana, Amanda J. Unsworth, Chris I. Jones, Leonardo A. Moraes and Jonathan M. Gibbins. Institute for Cardiovascular and Metabolic Research, University of Reading, Reading, RG6 6AS, UK

**10:15-10:30**

**O12** MATHEMATICAL MODELLING OF THE COAGULATION CASCADE: A DISCRIMINATOR FOR MYOCARDIAL INFARCTION Joanne L. Dunster<sup>1,2</sup>, Joy R. Wright<sup>3</sup>, Helen M. Byrne<sup>4,5</sup>, Alison H. Goodall<sup>6</sup>. <sup>1</sup>Institute for Cardiovascular and Metabolic Research, School of Biological Sciences, University of Reading, <sup>2</sup>Department of Mathematics and Statistics, University of Reading, <sup>3</sup>Department of Cell Physiology and Pharmacology, University of Leicester. <sup>4</sup>Oxford Centre for Collaborative Applied Mathematics, Mathematical Institute, University of Oxford. <sup>5</sup>Computational Biology Group, University of Oxford. <sup>6</sup>Department of Cardiovascular Sciences & NIHR Cardiovascular Biomedical Research Unit, University of Leicester.

**10:30-10:45**

**O13** THE IMPORTANCE OF N-LINKED GLYCOSYLATION OF ANGIOPOIETIN 2 FOR THE PROTEIN'S EXPRESSION AND ACTIVITIES Yao Yu, Hasnain Asharia, Mike A Laffan and Tom A J Mckinnon. Centre for Haematology, Imperial College London, London UK.

**10:45-11:00**

**O14** USE OF VASP ASSAYS TO ASSESS PLATELET RESPONSE TO P2Y12 ANTAGONISTS IN ACS PATIENTS – DETECTION OF INSUFFICIENT AND EXCESSIVE INHIBITORY EFFECT Natalia Dovlatova, Ashwin Radhakrishnan, Jackie Glenn, Ann White, Jane May, Stan Heptinstall and Susan C Fox. Thrombosis and Haemostasis Research Group, Division of Clinical Neurosciences, University of Nottingham, Queens Medical Centre, Nottingham, NG7 2UH, United Kingdom.

**11:00-11:30**

**Coffee/tea**

- 11.30-13.10**            **Session 5: Emerging UK fellows**
- Chairpersons Robert Ariëns & Mike Laffan**
- 11:30- 11:55**            Mari Thomas: The role of antibodies in acquired TTP
- 11:55-12:20**            Lucia Stefanini: Rap1 activation and signalling in platelets
- 12:20-12:45**            Isabelle Salles: From human to zebrafish and mice: defining the role of novel genes involved in haemostasis and thrombosis –A BAMBI’s tale.
- 12:45-13:10**            Monica Arman: Platelets in blood stream infections
- 13:10-14:00**            **Lunch and poster viewing**
- 14:00-15:30**            **Session 6: Chairpersons David Keeling and Claire Whyte**
- 14:00-14:15**            **O15** INTRAOPERATIVE CHANGES IN PLATELET AGGREGATION IN RELATION TO MODERATE HAEMORRHAGE DURING SURGERY  
Jonathan J. Hetherington, Isobel Ford, G Patrick Ashcroft, Jan O. Jansen. School of Medicine & Dentistry, University of Aberdeen; Aberdeen Royal Infirmary and Woodend Hospital, NHS Grampian, Aberdeen
- 14:15-14:30**            **O16** THE USE OF NEXT-GENERATION SEQUENCING TO SCREEN FOR DISORDERS OF COAGULATION USING A 24 GENE PANEL Patricia Bignell<sup>1</sup>, N. Curry<sup>2</sup>, J. Mason<sup>3</sup>, P. Wright<sup>1</sup>, D. Keeling<sup>2</sup>, P. Giangrande<sup>2</sup>, S. Henderson<sup>1</sup>, A. Schuh<sup>3,1</sup> - Molecular Haematology Department, <sup>2</sup> - Oxford Haemophilia and Thrombosis Centre, Oxford University Hospitals NHS Trust, and <sup>3</sup>- BRC/NHS Oxford Molecular Diagnostics Centre, Oxford, UK
- 14:30-14:45**            **O17** DEVELOPMENT AND VALIDATION OF ARRAY COMPARATIVE GENOMIC HYBRIDISATION (ACGH) IN VWD GENETIC ANALYSIS  
Simon Webster<sup>1</sup>, Daniel Hampshire<sup>1</sup>, Bimal Theophilus<sup>2</sup>, Reinhard Schneppenheim<sup>3</sup>, Daniel Bellissimo<sup>4</sup>, Ian Peake<sup>1</sup> and Anne Goodeve<sup>1</sup>. <sup>1</sup>Haemostasis Research Group, Department of Cardiovascular Science, University of Sheffield, UK, <sup>2</sup>Dept. Haematology, Birmingham Children’s Hospital, UK, <sup>3</sup>Department of Paediatric Haematology and Oncology, University Medical Centre Hamburg-Eppendorf, Hamburg, Germany, <sup>4</sup> Blood Research Institute, Blood Center of Wisconsin, Milwaukee, WI, USA.
- 14:45-15:00**            **O18** ADAMTS13 AND VON WILLEBRAND FACTOR EXOSITES Rens de Groot, David Lane, Jim Crawley. Centre for Haematology, Hammersmith Hospital Campus, Imperial College London.
- 15:00-15:15**            **O19** THE N-LINKED GLYCOSYLATION IS A MODULATOR OF ADAMTS13 EXPRESSION AND FUNCTION. Agata A Nowak, Eirene Yeung, Mike A Laffan, Thomas AJ McKinnon. Department of Haematology, Faculty of Medicine, Hammersmith Hospital Campus, Imperial Collage London

- 15:15-15:30**      **020 CONFORMATIONAL ACTIVATION OF ADAMTS13.** Kieron South, Brenda M Luken, Rebecca Phillips, Mari Thomas, James TB Crawley, Tillmann Pape, Louis Deforche, Karen Vanhoorelbeke and David A Lane. Centre for Haematology and Department of Life Science, Imperial College London, London W12 ONN. Laboratory for Thrombosis Research, IRF Life Sciences, KU Leuven, Kulak, Kortrijk, Belgium
- 15:30-16:00**      **Coffee/tea**
- 1600-17.30**      **Session 7: Chairpersons Paul Harrison and Jon Gibbins**
- 16:00-16:30**      Venizelos Papayannopoulos: Why Neutrophils make NETS
- 16:30-17:00**      Ed Rainger: The role of platelets, monocytes and vessel wall inflammation in atherogenesis (30 mins)
- 17:00-17:30**      Simon de Meyer: Thromboinflammation and Stroke (30 mins)
- 19:30**      **Conference dinner at The Royal College of Surgeons of Edinburgh**



**Thursday 9th  
October**

**9.00-11.00**

**Session 8: Complement and thrombosis**

**Chairpersons Henry Watson & David Stirling**

**9:00-9:30**

Marcus Huber-Lang: Role of Complement in thrombosis and multiorgan failure

**9:30-10:00**

Anita Hill: Paroxysmal Nocturnal Haemoglobinuria and thrombosis

**10:00-10:30**

Mike Greaves: Role of complement in APS

**10:30-11:00**

JP Westwood: Role of complement in TTP

**11:00-11:30**

**Coffee/Tea**

**11:30-13:00**

**Scientist in training symposium**

**Chairpersons David Lane & Martina Daley**

**11:30-11:45**

**021** FUNCTIONAL FACTOR XIII-A IS EXPOSED ON THE ACTIVATED PLATELET MEMBRANE Joanne L Mitchell, AS Lionikiene, SR Fraser, CS Whyte, NA Booth, NJ Mutch. Institute of Medical Sciences, University of Aberdeen, Aberdeen, UK.

**11:45-12:00**

**022** THROMBIN-ACTIVATABLE FIBRINOLYSIS INHIBITOR AND ABDOMINAL AORTIC ANEURYSMS Katherine Bridge,<sup>1,2</sup> Mark Hesketh,<sup>1</sup> Lize Bollen,<sup>3</sup> Fraser Macrae,<sup>1</sup> Anne Johnson,<sup>1,2</sup> Helen Philippou,<sup>1</sup> D Julian Scott,<sup>1,2</sup> Ann Gils,<sup>3</sup> Robert Ariëns<sup>1</sup>. 1. Theme Thrombosis, Division of Cardiovascular and Diabetes Research, University of Leeds, Leeds, UK2. The Leeds Vascular Institute, Leeds General Infirmary, Leeds, UK. 3. Laboratory for Therapeutic and Diagnostic Antibodies Department of Pharmaceutical and Pharmacological Sciences, KU Leuven, Belgium

**12:00-12:15**

**023** FACTOR V AS A SYNERGISTIC COFACTOR TOGETHER WITH PROTEIN S IN THE INHIBITION OF FXA BY TFPI Natalia Reglińska-Matveyev, Hang Y.F. Liu, James T.B. Crawley, David A. Lane and Josefín Ahnström Centre for Haematology, Faculty of Medicine, Imperial College London, Hammersmith Hospital Campus, United Kingdom

**12:15-12:30**

**024** A NOVEL APPROACH TO GENE DISCOVERY IN RARE BLEEDING AND PLATELET DISORDERS COMBINING HIGH-THROUGHPUT SEQUENCING AND DETAILED PHENOTYPING WITH THE HUMAN PHENOTYPE ONTOLOGY Claire Lentaigne<sup>1</sup> on behalf of the BRIDGE-Bleeding and Platelet Disorders consortium. <sup>1</sup>Centre for Haematology, Hammersmith Campus, Imperial College Academic Health Sciences Centre, Imperial College London.

**12:30-12:45**

**025** CHARACTERIZATION OF FIVE AIIB INTEGRIN DEFECTS ASSOCIATED WITH GLANZMANN'S THROMBASTHENIA Essa Sabi<sup>1</sup>, V Leo<sup>1</sup>, A Al-Marwani<sup>1</sup>, M Makris<sup>1</sup>, ME Daly<sup>1</sup>. <sup>1</sup>Department of Cardiovascular Science, University of Sheffield Medical School, University of Sheffield, UK

**12:45-13:00**

**026** SINGLE NUCLEOTIDE VARIANTS RS1063857 AND RS1063856 ARE ASSOCIATED WITH INCREASED VWF PLASMA LEVELS Ahmad H. Mufti, Anne C. Goodeve and Daniel J. Hampshire. Haemostasis Research Group, Department of Cardiovascular Science, University of Sheffield, Sheffield, UK.

**13:00**

**Lunch and finish**

## Poster presentations

- P1.** DVT – A TRUE EPIDEMIC? Helena Edlin, Sarah Cleal, Toni Tinken, JV Smyth, J Thachil. Vascular Lab, Manchester Royal Infirmary, Oxford Rd, Manchester, M13 9WL
- P2.** POOR CORRELATION BETWEEN ACTIVATED PARTIAL THROMBOPLASTIN TIME AND ARGATROBAN LEVELS IN PATIENT SAMPLES. S.J.Guy, S.Kitchen, J.J.Van Veen, & R.M.Maclean. Sheffield Thrombosis and Haemostasis Centre, Sheffield, UK.
- P3.** INVESTIGATION OF THE SENSITIVITIES OF FOUR ACTIVATED PARTIAL THROMBOPLASTIN TIME REAGENTS TO ARGATROBAN. S.J.Guy, S.Kitchen, J.J.Van Veen, & R.M.Maclean. Sheffield Thrombosis and Haemostasis Centre, Sheffield, UK.
- P4.** THE PROBLEM OF PULMONARY EMBOLISM DIAGNOSIS IN PREGNANCY Roxanne Ramsay, Louise Byrd, Louise, Clare Tower, Jacqueline James, Mary Prescott, Jecko Thachil, Manchester Royal Infirmary, Oxford Rd, Manchester, M13 9WL
- P5.** GETTING THE ANTICOAGULATION RIGHT IN THE INTENSIVE CARE. Heap L, Nash M, Hay CRM, Thachil J. Manchester Royal Infirmary, Oxford Rd, Manchester, M13 9WL
- P6.** A RETROSPECTIVE ANALYSIS OF THE MANAGEMENT OF PRIMARY IMMUNE THROMBOCYTOPENIA IN PREGNANCY; A SINGLE CENTRE STUDY Mairi-Annabel Leggatt<sup>1</sup>, Clare Tower<sup>1</sup>, Louise Byrd<sup>1</sup>, Charles Hay<sup>2</sup>, Michael Nash<sup>2</sup>, Jecko Thachil<sup>2</sup> <sup>1</sup>St Mary's Hospital, Oxford Road, Manchester, M13 9WL. <sup>2</sup>Haematology Directorate, Manchester Royal Infirmary, Oxford Road, Manchester, M13 9WL
- P7.** VON WILLEBRAND DISEASE; AN INTERESTING PEDIGREE WITH THREE GENETIC VARIANTS R Gooding<sup>1</sup>, R Gama Paulo<sup>2</sup>, R Seth<sup>2</sup>, M Hill<sup>2</sup>. <sup>1</sup> Leicester Comprehensive Care Centre, University Hospitals of Leicester NHS Trust. <sup>2</sup> Molecular Diagnostics, Nottingham University Hospitals NHS Trust
- P8.** HOW CAN WE REDUCE PLATELET WASTAGE IN CARDIOTHORACIC SURGERY? Dr H Lucero, Dr J Thachil, Dr K Pendry Manchester Royal Infirmary
- P9.** AN AUDIT OF PLATELET USE AND WASTAGE IN A TERTIARY HOSPITAL Dr H Lucero, Dr J Thachil, Dr K Pendry Manchester Royal Infirmary
- P10.** POSTOPERATIVE BLEEDING IN PERSONS WITH HAEMOPHILIA – SURGICAL OR A NEW INHIBITOR? Thompson R, Nash M, Shah S, Chalmers N, Hay CRM, Thachil J. Haematology Dept, Manchester Royal Infirmary, Oxford Road, Manchester M13 9WL
- P11.** DEVELOPMENT OF FACTOR VIII INHIBITOR IN A HAEMOPHILIA A CARRIER Suliman Y, Nash M, Hay CRM, Thachil J. Haematology Dept, Manchester Royal Infirmary, Oxford Road, Manchester M13 9WL
- P12.** A SURVEY OF THE MUSCULOSKELETAL MANAGEMENT OF HAEMOPHILIA IN THE UK. A McKernan<sup>1</sup>, J Hanley<sup>2</sup>, P Chowdary<sup>3</sup>, Steven Classey<sup>4</sup>, Simon Frostick<sup>5</sup> on behalf of the Musculoskeletal Working Party, UK Haemophilia Centre Doctors Organisation (UKHCDO). <sup>1</sup>Department of Haematology, Derby Hospitals NHS Foundation Trust, Derby; <sup>2</sup>Haemophilia Centre, Newcastle Hospitals NHS Trust, Newcastle upon Tyne; <sup>3</sup>Haemophilia Centre, Royal Free London NHS Foundation Trust; <sup>4</sup>Guys and St. Thomas's

NHS Foundation Trust, London; <sup>5</sup>Institute of Translational Medicine, University of Liverpool, Liverpool.

**P13.** SURVEY OF CLOTTING SCREEN TESTS IN A TERTIARY REFERRAL CENTER Morris R, Thachil J, Manchester Royal Infirmary, Oxford Rd, Manchester, M13 9WL

**P14.** A NEW CAUSE FOR RECURRENT PULMONARY EMBOLISM DESPITE ANTICOAGULATION Jecko Thachil<sup>1</sup>, Oluwasegun Ilelaboye<sup>2</sup>. <sup>1</sup>Central Manchester University Hospitals NHS Foundation Trusts, Manchester M13 9WL. <sup>2</sup>University of Manchester, Central Manchester University Hospitals NHS Foundation Trust, Manchester M13 9WL.

**P15.** THE UTILITY OF HAEMATOLOGICAL INVESTIGATIONS FOR RETINAL VEIN OCCLUSION Shakir S, Aslam T, Thampy R, Thachil J. Central Manchester University Hospitals NHS Foundation Trusts, Manchester M13 9WL.

**P16.** A NATIONAL SURVEY OF IMMUNOSUPPRESSION FOR ACQUIRED HAEMOPHILIA A. Paul Batty<sup>1</sup>, Ben Palmer<sup>2</sup>, Elizabeth Chalmers<sup>3</sup>, Charles R. M. Hay<sup>4</sup>, Ri Liesner<sup>5</sup>, Savita Rangarajan<sup>6</sup>, Kate Talks<sup>7</sup>, Michael Williams<sup>8</sup>, Peter Collins<sup>9</sup>, Daniel P Hart<sup>1</sup> <sup>1</sup>The Royal London Hospital Haemophilia Centre, Barts and The London School of Medicine and Dentistry, Queen Mary University London, London, UK; <sup>2</sup>The National Haemophilia Database, Manchester, United Kingdom; <sup>3</sup>Royal Hospital for Sick Children, Glasgow, UK; <sup>4</sup>Manchester University Department of Haematology, Manchester Royal Infirmary, Manchester, UK; <sup>5</sup>Great Ormond Street NHS Trust, London, UK; <sup>6</sup>Hampshire Hospital NHS Foundation Trust, Basingstoke & North Hampshire Hospital, Basingstoke, UK; <sup>7</sup>Newcastle upon Tyne Hospital NHS Foundation Trust, Newcastle, UK; <sup>8</sup>Birmingham Children's Hospital NHS Foundation Trust, Birmingham, UK; <sup>9</sup>School of Medicine, Cardiff University, University Hospital of Wales, Cardiff, UK.

**P17.** A RETROSPECTIVE ANALYSIS ON THE USE OF FONDAPARINUX IN PREGNANCY Esra Elsaigh, Clare Tower, Louise Byrd, Jecko Thachil. Manchester Royal Infirmary/Saint Mary's Hospital, Oxford Road, Manchester, M13 9WL

**P18.** VENOUS THROMBOEMBOLISM (VTE): DIAGNOSIS AND MANAGEMENT AT A TERTIARY CENTRE Dr Leila Emma Taheri, James White, Hamizah Pg Hj Zain. Kate Talks, Haemophilia Centre, Royal Victoria Infirmary, Queen Victoria Road, Newcastle Upon Tyne. NE1 4LP

**P19.** IS WARFARIN THE CAUSE OF MY BLEED? Samah Alimam, Charles Hay, Mike Nash, Paula Grey, Jecko Thachil. Central Manchester Foundation Trust, Oxford Road, Manchester

**P20.** EXPRESSION, PURIFICATION AND CHARACTERISATION OF PLASMA PREKALLIKREIN INTERACTION WITH HK Chan Li, Jonas Emsley. Centre for Biomolecular Sciences, School of Pharmacy, University of Nottingham, Nottingham, NG7 2RD

**P21.** COAGULATION FACTOR XII PROTEASE DOMAIN CRYSTAL STRUCTURE REVEALS AN ATYPICAL ZYMOGEN TRIAD Monika Pathak, Pascal Wilmann, Peter M Fischer, Ingrid Dreveny, Lodewijk V Dekker, Jonas Emsley. Center for Biomolecular Sciences, School of Pharmacy, University of Nottingham, Nottingham, NG7 2RD, UK.

- P22. STRUCTURAL AND BIOCHEMICAL INVESTIGATION OF THE HUMAN FXII FIBRONECTIN TYPE II DOMAIN INTERACTION WITH ZNCL<sub>2</sub>** Bubacarr G Kaira<sup>1</sup>, Jonas Emsley<sup>1</sup> Center for Biomolecular Science, School of Pharmacy, University of Nottingham, NG7 2RD, UK
- P23. APPROPRIATE USE OF FRESH FROZEN PLASMA ( FFP ) IN ADULTS AT CENTRAL MANCHESTER UNIVERSITY HOSPITALS NHS FOUNDATION TRUST** Theingi Yin<sup>1</sup>, Kate Pendry<sup>2</sup>, Jecko Thachil<sup>3</sup>, Jane Uttley<sup>2</sup>, Mary Marsden<sup>2</sup>, Louise Polyzois<sup>2</sup>, Alan Burgess<sup>2</sup>, Roy Kettle<sup>2</sup>. <sup>1</sup> Haematology Specialist Registrar, <sup>2</sup>Hospital Transfusion Team, Department of Laboratory Medicine, <sup>3</sup> Haemostasis Department, Central Manchester University Hospitals NHS Foundation Trust ( CMFT )
- P24. CHARACTERISING CELL-TYPE INTERACTIONS FOLLOWING PLATELET ACTIVATION IN A NOVEL WHOLE BLOOD ASSAY** PCJ Armstrong & TD Warner, William Harvey Research Institute, Barts and The London School of Medicine and Dentistry, London, United Kingdom
- P25. EXPRESSION, PURIFICATION AND ACTIVITY ASSAYS OF HUMAN FXII** Rosa Manna, Badraddin Hamad, Jonas Emsley. Centre for Biomolecular Sciences, School of Pharmacy, University of Nottingham, NG72RD
- P26. DABIGATRAN AS THE ANTICOAGULANT FOR PATIENT WITH EXTREME INR FLUCTUATIONS AND RECURRENT THROMBOEMBOLISM** Saadi H, Nash MJ, Thachil J. Manchester Royal Infirmary, Oxford Rd, Manchester, M13 9WL
- P27. THE ASSESSMENT OF CLOT KINETICS FOLLOWING RIVAROXABAN TREATMENT** Stephen MacDonald and Roger Luddington. Cambridge Haemophilia and Thrombophilia Centre, Addenbrooke's Hospital, Cambridge University Hospitals NHS Trust, Cambridge CB2 0QQ.
- P28. EFFECT OF HAEMATOCRIT ON CLOT FORMATION, STRUCTURE AND LYSIS** P Untiveros<sup>1</sup>, M Greaves<sup>2</sup>, HG Watson<sup>1</sup> NJ Mutch<sup>2</sup>. <sup>1</sup>Haematology Department Aberdeen Royal Infirmary, Foresterhill, Aberdeen, AB25 2ZN <sup>2</sup>Institute of Medical Sciences, Foresterhill, Aberdeen, AB25 2ZD
- P29. THE ROLE OF PHOSPHATASES IN REGULATING GPVI SIGNAL TRANSDUCTION: A SYSTEMS BIOLOGY APPROACH** Joanne Dunster<sup>1,2</sup>, Francoise Mazet<sup>1</sup>, Marcus Tindall<sup>1,2</sup>, Michael J. Fry<sup>1</sup>, Jonathan M. Gibbins<sup>1</sup>. <sup>1</sup>Institute for Cardiovascular and Metabolic Research, School of Biological Sciences, University of Reading, <sup>2</sup>Department of Mathematics and Statistics, University of Reading.
- P30. PLATELET AGGREGATION AND PLATELET-LEUCOCYTE CONJUGATE FORMATION CAN BE MEASURED SIMULTANEOUSLY IN A SMALL VOLUME OF FIXED WHOLE BLOOD** Mohammad Algahtani, Natalia Dovlatova, Jane May, Stan Heptinstall, Susan Fox. Thrombosis and Haemostasis Research Group, Division of Clinical Neurosciences, University of Nottingham, Queens Medical Centre, Nottingham, NG7 2UH, United Kingdom
- P31. ASSESSING PLATELET FUNCTION USING A P-SELECTIN BASED TEST COMPARED WITH OTHER COMMERCIAL TESTS** Susan Fox, Jane May, Andrew Johnson, Ann White, Jackie Glenn, Natasha Dovlatova, Ashwin Radhakrishnan and Stan Heptinstall. Thrombosis and Haemostasis Research Group, Division of Clinical Neurosciences,

University of Nottingham, Queens Medical Centre, Nottingham, NG7 2UH, United Kingdom

**P32. USE OF A P-SELECTIN TEST FOR ASSESSMENT OF PLATELET FUNCTION IN RELATION TO CLINICAL OUTCOMES IN A CORONARY ARTERY DISEASE PATIENT POPULATION** Ashwin Radhakrishnan, Natalia Dovlatova, Stan Heptinstall, Susan C Fox. Thrombosis and Haemostasis Research Group, Division of Clinical Neurosciences, University of Nottingham, Queens Medical Centre, Nottingham, NG7 2UH, United Kingdom

**P33. ANTIPLATELET ANTIBODIES AND THEIR TARGETS ON THE PLATELET MEMBRANE IN IMMUNE THROMBOCYTOPENIC PATIENTS** Adrienn Orosz, Isabelle I. Salles-Crawley, Shahzaib Ahmad, Nichola Cooper, James T.B. Crawley. Centre for Haematology, Imperial College London, London, UK

**P34. EX VIVO THROMBIN GENERATION AND MARKERS OF IN VIVO COAGULATION ACTIVATION IN PATIENTS WITH VENOUS THROMBOEMBOLISM ON THERAPEUTIC DOSE RIVAROXABAN OR WARFARIN** Arachchillage DRJ1, Efthymiou M1, Mackie IJ1, Lawrie A1, Machin SJ1, H Cohen H1, 2 1 Haemostasis Research Unit, Department of Haematology, University College London, London, UK. 2 Departments of Haematology, University College London Hospitals NHS Foundation Trust, London, UK

**P35. EFFECTS OF RIVAROXABAN ON DETECTION OF LUPUS ANTICOAGULANT: IN VITRO AND EX VIVO STUDIES** Arachchillage DRJ1, Mackie IJ1, Efthymiou M1, Machin SJ1, H Cohen H1, 2 1 Haemostasis Research Unit, Department of Haematology, University College London, London, UK. 2 Departments of Haematology, University College London Hospitals NHS Foundation Trust, London, UK

**P36. ADVERSE EFFECTS OF ORAL ANTICOAGULANTS (NOACS): EXPERIENCE IN A SINGLE CENTRE** Poppy Shelton. University of Leicester. 1 Knighton Park Road Leicester LE2 1ZA.

**P37. RAPAMYCIN INCREASES THE THROMBOGENIC POTENTIAL OF NEUTROPHIL EXTRACELLULAR TRAPS (NETS): POTENTIAL MECHANISM OF PROTHROMBOTIC DRUG-ELUTING STENTS.** Laura D. Healy,<sup>1</sup> David K. Robinson,<sup>2</sup> Tiffany T. Chu,<sup>2</sup> Heidi Oldenkamp,<sup>2</sup> Cristina Garcia Puy,<sup>2</sup> András Gruber,<sup>2</sup> Owen J.T. McCarty<sup>1,2</sup> Departments of <sup>1</sup>Cell & Developmental Biology and <sup>2</sup>Biomedical Engineering, Oregon Health & Science University, Portland, OR, USA

**P38. STRUCTURAL STUDIES OF LEUKOCYTE INTEGRIN MAC-1 I DOMAIN AND ITS LIGANDS BY NMR SPECTROSCOPY** Juliet Morgan<sup>1</sup>, Huw Williams<sup>1</sup>, Jonas Emsley<sup>2</sup> and Mark Searle<sup>1</sup>. <sup>1</sup>School of Chemistry / <sup>2</sup>School of Pharmacy, Centre for Biomolecular Sciences, University of Nottingham, Nottingham, UK, NG7 2RD