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Autoimmunity, Infection, Reproduction & Cancer

P1 | Exploring the germline diversity of various macaque B-cell receptor regions
Susan Ott¹, Navee Gianfranceschi¹, Nanine de Groot¹, Marit van der Welle¹, Jesse Mitterreiner¹, Nataša de Groot¹, Jesse Bruijnsteijn¹ and Ronald E. Bontrop¹
¹Biomedical Primate Research Center, Netherlands

P2 | HLA allele frequencies and susceptibility to Bullous Pemphigoid in a group of 116 Italian patients
Marco Andreani¹, Feliciano Maritati¹, Anna Pira², Giuseppe Testa¹, Priscilla Caputi¹, Mariarosha Battarra¹, Tiziana Galluccio¹, Franco Locatelli¹ and Giovanni Di Zenzo¹
¹Laboratorio di Immunogenetica dei Trapianti, Ospedale Pediatrico Bambino Gesù, Roma, Italy; ²Laboratorio di Biologia Molecolare e Cellulare, Istituto Dermatologico dell'Immacolata (DD-IRCCS), Roma, Italy; ³Laboratorio di Immunogenetica dei Trapianti, Ospedale Pediatrico Bambino Gesù, Roma, Italy; ⁴Dipartimento Onco-Ematologia e Terapia Cellulare e Genica, Ospedale Pediatrico Bambino Gesù, Roma, Italy

P3 | Genetic Variants associated with Narcolepsy
Steven Jervis¹, Kay Poulton¹, Antony Payton¹ and Arpana Verma¹
¹Manchester Transplantation Laboratory, United Kingdom; ²University of Manchester, United Kingdom

P4 | NKG2D receptor and MICA and MICB ligand polymorphism in CALR mutation – driven Myeloproliferative Neoplasms
Milena Ivanova¹, Angelina Mladenova¹, Gergana Tsvetkova¹, Evgeny Hadjiev¹ and Velizar Shivarov¹
¹Department of Experimental Research, Medical University Pleven, Pleven, Bulgaria; ²Department of Clinical Hematology, Alexandrovska University Hospital, Medical University Sofia, Sofia, Bulgaria; ³Department of Clinical Hematology, Alexandrovska University Hospital, Medical University Sofia, Sofia, Bulgaria; ⁴Department of Experimental Research, Medical University Pleven, Pleven, Bulgaria

P5 | A non-invasive method for fetal trophoblast HLA typing in early pregnancy
Liseanne J. van T. Hof¹, Hanneke M. Kapsenberg¹, Jos J.M. Drabbeles¹, Michael Elkman¹ and Marie-Louise L.R. van der Hoorn¹
¹Department of Immunology, Leiden University Medical Center, Leiden, Netherlands; ²Department of Obstetrics and Gynecology, Leiden University Medical Center, Leiden, Netherlands

P6 | Differential Modulation of Mutant CALR and JAK2 V617F-Driven Oncogenesis by HLA Genotype in Myeloproliferative Neoplasms
Velizar Shivarov¹, Gergana Tsvetkova¹, Iliya Michov¹, Evgeny Hadjiev¹, Jasmina Petrova¹, Anela Ivanova¹, Gajda Mladjorova¹ and Milena Ivanova¹
¹Department of Experimental Research, Medical University Pleven, Pleven, Bulgaria; ²Department of Clinical Hematology, Alexandrovska University Hospital, Medical University Sofia, Sofia, Bulgaria; ³Department of Clinical Hematology, Alexandrovska University Hospital, Medical University Sofia, Sofia, Bulgaria; ⁴Department of Experimental Research, Medical University Pleven, Pleven, Bulgaria

P7 | Effects of HLA-G molecules in Primary Biliary Cholangitis: The Sardinian Experience
Caterina Mera¹, Michela Lorrain¹, Stefano Mocchi¹, Roberto Littera¹, Michela Miglianti¹, Celeste Sanna¹, Michela Murgia¹, Merope Plosianni¹, Chiara Cocco¹, Alessia Mascia¹, Marina Serra¹, Sara Lai¹, Erika Giureschi¹, Maria Conti¹, Cinzia Balestrieri¹, Giancarlo Serra¹, Francesco Pais¹, Teresa Zolfino¹, Andrea Perra¹, Luchino Chesca¹ and Sabrina Rita Giglio¹
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P8 | Role of HLA-G in Sardinian Idiopathic Pulmonary Fibrosis patients
Chiara Lorrain¹, Caterina Mera¹, Stefano Mocchi¹, Roberto Littera¹, Silvia Delidda¹, Celeste Sanna¹, Michela Murgia¹, Merope Plosianni¹, Gaia Maria Tosone¹, Alessia Mascia¹, Marina Serra¹, Sara Lai¹, Erika Giureschi¹, Andrea Perra¹ and Sabrina Rita Giglio¹
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P9 | Islet Antibodies Among North Indian Type 1 Diabetes Patients: Prevalence and Persistence Pattern
Uma Kangra¹, Shreya Sharma¹, Alpesh Goyal¹ and Nikhil Tandon¹
¹Department of Transplant Immunology and Immunogenetics, All India Institute of Medical Sciences, India; ²Department of Endocrinology and Metabolism, All India Institute of Medical Sciences, India

P10 | Nanopore sequencing reveals high resolution HLA alleles associated to autoimmune neutropenia in early childhood
Kirstine Kløve-Mogensen¹, Thure Mors Haunstrup¹, Tanja Nicole Masmas¹, Andreas Gienhøj¹, Petter Höglund¹, Henrik Hasle¹, Kaspar Rena Nielsen¹ and Rudi Steffensen¹
¹Department of Clinical Immunology, Aalborg University Hospital, Aalborg, Denmark; ²Department of Pediatrics and Adolescent Medicine, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark; ³Department of Hematology, Copenhagen University Hospital – Rigshospitalet, Copenhagen, Denmark; ⁴Department of Medicine Huddinge, Karolinska Institute, Stockholm, Sweden; ⁵Department of Pediatrics and Adolescent Medicine, Aarhus University Hospital, Aarhus, Denmark

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Nataša Katalinič¹, Tajana Kocič Marčetič¹, Sandra Sever Sušnjarič¹, Marijana Duhović¹ and Sanja Balaš¹
¹Tissue Typing Laboratory, CHC Rijeka, Department of Clinical Laboratory Diagnostics, Medical Faculty Rijeka, Croatia; ²Tissue Typing Laboratory, Clinical Hospital Center Rijeka, Croatia

P12 | Distinguishing Anti-3-hydroxy-3-methylglutaryl-CoA reductase Immune-Mediated Necrotizing Myopathy from Non-Immune-Mediated Statin Myotoxicity: The Role of HLA-DRB1*11:01 Association
Diana Prieto-Peña¹, Nerea Mota-Pérez¹, J. Gonzalo Ojea¹, Cristina Corrales-Selayú¹, Carmen García-Ibarra¹, Verónica Pulido-Cuesto¹, Raquel López-Mejías¹, Ricardo Blanco¹ and José Luis Hernández¹
¹Rheumatology Department, Hospital Universitario Marqués de Valdecailla, IDIVAL, Santander, Spain; ²Immunology Department, Hospital Universitario Marqués de Valdecailla, IDIVAL, Santander, Spain; ³Internal Medicine Department, Hospital Universitario Marqués de Valdecailla, IDIVAL, Santander, Spain; ⁴IDIVAL Health Research Institute of Cantabria, Santander, Spain

P13 | The impact of HLA-DRB1*11 allele distribution. Our findings suggest a strong association between HLA-DRB1*11, particularly HLA-DRB1*11:01, and anti-HMGR-IMNM, not observed in non-immune-mediated stator myotoxicity. Identifying HLA-DRB1*11:01 may help identify those at high risk of anti-HMGR-IMNM.
Myotoxicity and controls showed no significant differences in HLA-DRB1*11 allele distribution. Our findings suggest a strong association between HLA-DRB1*11, particularly HLA-DRB1*11:01, and anti-HMGR-IMNM, not observed in non-immune-mediated stator myotoxicity. Identifying HLA-DRB1*11:01 may help identify those at high risk of anti-HMGR-IMNM.

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Ezgi Dinçer¹, Fatma Kaya Dağıstanlı¹, Kıvanc Derya Peker¹, Damlanur Sakız¹, Demet Kıvanc İzgi¹, Hayriye Senturk Çiçek¹ and Fatma Sarvan Oğuz¹
¹Istanbul University, Istanbul Faculty of Medicine, Institute of Health Sciences, Department of Medical Biology, Turkey; ²Istanbul University-Cerrahpaşa, Cerrahpaşa Faculty of Medicine, Department of Medical Biology, Turkey; ³Hisar Intercontinental Hospital, Department of General Surgery, Turkey; ⁴University of Health Sciences Baskirözü Dr. Sadi Konuk Training and Research Hospital, Pathology Clinic, Turkey

P15 | Potential actionable somatic variants in Chronic Lymphocytic Leukemia
Gunvinder Kaur¹, Ayushi Jain¹, Kamaljeet Singh¹, Lingaraja Jena¹, Ajay Gogia¹, Atul Sharma¹ and Ritu Gupta¹
¹Lab Oncology, Dr BRACHIR, All India Institute of Medical Sciences, New Delhi, India; ²Medical Oncology, Dr BRACHIR, All India Institute of Medical Sciences, New Delhi, India

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Daria Shmelkova¹, Daria Stashkevich¹, Tatiana Suslova¹, Inessa Devald¹ and Alexandra L. Burnistrova¹
¹Chelyabinsk State University, Russia;

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Cigdem Keklik¹, Sonay Temurhan¹, Yetis Oğret¹, Demet Kıvanc İzgi¹, Behoush Nasr Zanjani¹, Fatma Betül Öktemlik¹, Fatma Sarvan Oğuz¹, Murat Kose¹ and Gümür Deniz¹
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P18 | Understanding the role of HLA-G polymorphism in causing susceptibility to cervical cancer
Ritu Aggarwal¹, Tarni Bhatia¹, Arshiya Mehra¹ and Vanita Suri¹
¹Department of Immunopathology, PGIMER, Chandigarh, India; ²Department of Obstetrics and Gynecology, PGIMER, Chandigarh, India

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Martin Petrek¹, Kateřina Sikorová¹, Lenka Kocouřková¹, Martin Dobias¹ and Jana Petrková¹
¹University Hospital Olomouc and Faculty of Medicine and Dentistry Palacký University Olomouc, Czechia; ²University Hospital Olomouc, Czechia; ³Faculty of Medicine and Dentistry Palacký University Olomouc, Czechia

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Irina Pavlova¹, Elena Kuzmich¹, Elena Shilova¹, Tatyana Glazanova¹ and Ludmila Bubnova¹
¹Russian Research Institute of Hematology and Transfusion, Russia

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Daria Stashkevich¹, Tatiana Suslova¹ and Alexandra L. Burnistrova¹
¹Chelyabinsk State University, Russia;

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Eulalia Catano¹, Valentina Bazaes¹, Valentina Mora¹, Antonietta Robino¹, Luana Aldegheri¹, Andrea Conti¹, Gianluca Torrese¹ and Elena Bevilacqua¹
¹Institute for Maternal and Child Health – IRCCS “Burlo Garofalo”, Trieste, Italy; ²Tissue Typing Laboratory, Transfusion Medicine Department, University Hospital (ASUG), Trieste, Italy

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Vasiliki Kitsiou¹, Elisavet Kontou¹, Petros Mantziou¹, Glykeria Tsouka¹, Stella Pomoní¹, Theofilos Athanassiadis¹, Katerina Tarassi¹, Vasileios Vougas¹, Maria Darena¹ and Alexandra Tsilogianí¹
¹Immunology-Histocompatibility Department, Evangelismos General Hospital, Athens, Greece; ²Nephrology Department, Evangelismos General Hospital, Athens, Greece; ³Department of General Surgery and Transplant Unit, Evangelismos General Hospital, Athens, Greece

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Svetlana Balandina¹, Svetlana Belyaeva¹ and Daria Stashkevich¹
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Bioinformatics, data analysis in Immunogenetics
Julien Paris¹, Sonia Bourguiba-Hachemi¹, Romain Casey¹, Nicolas Vince¹ and Pierre-Antoine Gourraud¹
¹Nantes Université, CHU Nantes¹, INSERM, CR27, UMR 1064, F-44000, Nantes, France; ²ORSEP Research Center in Neurosciences of Lyon, INSERM 1028 and CNRS UMR 5292, F-69003 Lyon, France

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Nickol Alexandrov¹, Ting Wang¹, Brian Naden¹, Lindley Blair¹, Yuki Saito¹ and David Sayer¹
¹Thermo Fisher Scientific Inc, United States; ²Thermo Fisher Scientific Inc, Australia

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Julien Paris¹, Sonia Bourguiba-Hachemi¹, Romain Casey¹, Nicolas Vince¹ and Pierre-Antoine Gourraud¹
¹Nantes Université, CHU Nantes¹, INSERM, CR27, UMR 1064, F-44000, Nantes, France; ²ORSEP Research Center in Neurosciences of Lyon, INSERM 1028 and CNRS UMR 5292, F-69003 Lyon, France

P27 | HLA-DRB3, DRB4, DRB5: Three Loci or a Single Locus?
Nickol Alexandrov¹, Ting Wang¹, Brian Naden¹, Lindley Blair¹, Yuki Saito¹ and David Sayer¹
¹Thermo Fisher Scientific Inc, United States; ²Thermo Fisher Scientific Inc, Australia

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Liza Huljica¹, Solomon M. Adams¹, Joshua N. Burton¹, Julianne K. David¹, Russell S. Julian¹, Galit Meshulam-Simon¹, Harry Mickalide¹, Bersabeh D. Tafesse¹, Verónica Calonga-Solis¹, Ivan Rodrigo Wolff¹, Ashley J. Morrison¹, Danilo G. Augusto¹ and Solomon Endlich¹
¹Base5 Genomics, Inc., Netherlands; ²Base5 Genomics, Inc., United States; ³The University of North Carolina at Charlotte, United States; ⁴Stanford University, United States

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Ngoc Giang Le¹, Jesse Mitterreiner¹, Susan Ott¹, Nanine de Groot¹, Marit van der Welle¹, Nataša de Groot¹, Jesse Bruijnsteijn¹ and Ronald E. Bontrop¹
¹Biomedical Primate Research Center, Netherlands;

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Ryan Nicklits¹, Liviu Tran¹, Leamon Crookes¹ and Steven Mack¹
¹Lafayette College, Easton, PA, United States; ²University of California, San Francisco, United States; ³University of Arizona, United States

P31 | epiARe: A graphical Epitope Amino acid Repertoire Translation of the HLA allele disparities
Henry Loeffler-Wirth¹, Claudia Lehmann¹, Nils Lachmann¹ and Ilias Doxiadis¹
¹Interdisciplinary Centre for Bioinformatics, Leibniz Universität, Leipzig, Germany; ²Laboratory for Transplantation Immunology, Institute for Transfusion Medicine, University Hospital Leipzig, Germany; ³Institute for Transfusion Medicine, H & I Laboratory, Charité-Universitätsmedizin, Germany

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Henry Loeffler-Wirth¹, Nils Lachmann¹, Claudia Lehmann¹ and Ilias Doxiadis¹
¹Interdisciplinary Centre for Bioinformatics, Leibniz Universität, Leipzig, Germany; ²Institute for Transfusion Medicine, H & I Laboratory, Charité-Universitätsmedizin, Germany; ³Laboratory for Transplantation Immunology, Institute for Transfusion Medicine, University Hospital Leipzig, Germany

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Cintia Alves¹ and Eduardo Donadi¹
¹Ribeirão Preto Medical School, University of São Paulo, Brazil;

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Jonna Clancy¹, Siija Tammi¹, Jukka Partanen¹ and Satu Koskela¹
¹Finnish Red Cross Biobank, Finland; ²Finnish Red Cross Blood Service, RSD, Finland

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Enrique Alanís¹, Diana Alcántara¹, Alicia Sanchez-Mazas¹ and José Manuel Nunes¹
¹Department of Genetics and Evolution, University of Geneva, Switzerland; ²Brighton and Sussex Medical School, United Kingdom

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Michaela Agaplou¹, Richard H.L. Natarajan¹, Claudia Rutt¹, Sumati Misra¹, James Robinson¹, Nezi Cerebi¹ and Steven G.E. Marsh¹
¹Anthony Nolan Research Institute, London, United Kingdom; UCL Cancer Institute, London, United Kingdom; ²Anthony Nolan Research Institute, London, United Kingdom; ³DATRI Blood Stem Cell Donors Registry, Chennai, India, United States

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Susanne Seitz¹, Karen Ende¹, Katharina Daniel¹, Vinzenz Lange¹ and Alexander H. Schmidt¹
¹DKMS Group, Kressbach 1, 72072 Tübingen, Germany; ²DKMS Life Science Lab, St. Petersburger Str. 2, 01069 Dresden, Germany

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Olivia Rousseau¹, Estelle Geffard¹, Emmanuelle Papuchon¹, Axel Durand¹, Sirine Sayadi¹, Chahla Ed-Brouich¹, Rokhaya Ba¹, Stamatias Demuth¹, Alexandre Loupy¹, Sophie Brouard¹, Magali Girat¹, Carmen Lafcaucher¹, Emmanuel Morelon¹, Lionel Couzi¹, Nassim Kamar¹, Mogle Le Quinrec¹, Nicolas Vince¹, Sophie Limou¹ and Pierre-Antoine Gourraud¹
¹Nantes Université, CHU Nantes, Ecole Centrale de Nantes, INSERM, CR27, UMR 1064, ITUN, Nantes, France; ²Paris Translational Research Center for Organ Transplantation, France; ³Assistance Publique-Hôpitaux de Paris, France; ⁴Université de Lyon Service de néphrologie, France; ⁵CHU de Bordeaux, France; ⁶CHU de Toulouse, France; ⁷CHU de Montpellier, France

P39 | Evaluating HLA imputation clinical utility compared to classical genotyping
Nayane S. B. Silva¹, Sonia Bourguiba-Hachemi¹, Nathalie Bouatoualou¹, Camille Piédret¹, Roxane van Olden¹, Ségolène Limou¹ and Nicolas Vince¹
¹Nantes Université, INSERM, Ecole Centrale Nantes, INSERM, CR27, UMR 1064, Nantes, France

P40 | PRIMUS: A distributed web application architecture to benchmark sets of analytics based on reuse of multi-source clinical research data in multiple sclerosis under the umbrella of precision medicine
Igor Faddeenkov¹, Stanislas Demuth¹, Joëlle Martin-Gauthier¹, Julien Paris¹, Gilles Edan¹, David Laplaud¹ and Pierre-Antoine Gourraud¹
¹Nantes Université, INSERM, Ecole Centrale Nantes, INSERM, CR27, UMR 1064, ITUN, Nantes, France; ²Department of Neurology, University Hospital of Rennes, France

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Panagiotis Mallis¹, Alexandra Siorenta¹, Easmiya Stamatihoudaki¹, Vasiliki Vrani¹ and Georgios Paterakis¹
¹Immunology Department & National Tissue Typing Center, General Hospital of Athens “G. Gennimatas”, Athens, Greece

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Franz Fenninger¹, Bronwyn Baillie¹, Karen Sherwood¹, Jenny Tran¹, James Lan¹ and Paul Keown¹
¹Dept. of Medicine, University of British Columbia, Vancouver, BC, Canada

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Enrique Alanís¹, Alicia Sanchez-Mazas¹ and José Manuel Nunes¹
¹Department of Genetics and Evolution, University of Geneva, Switzerland

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Cintia Alves¹, Rafaela Miranda Barbosa¹ and Eduardo Donadi¹
¹Ribeirão Preto Medical School, University of São Paulo, Brazil;

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Benedict Matern¹ and Matthias Niemann¹
¹PIRCHÉ AG, Netherlands; ²PIRCHÉ AG, Germany

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Deniz Akdemir¹ and Yung-Tai Bolon¹
¹NMDDP, United States

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Shahram Alyari¹, Zahra Salehi¹, Benedek Brocs¹, Kaveh Kavousi¹ and Mohammad Hossein Norouzi-Beirami¹
¹University of Tehran, Kish International Campus, Iran; ²Tehran University of Medical Sciences, Iran; ³German Cancer Research Center DKFZ Heidelberg, Germany; ⁴Institute of Biochemistry and Biophysics, Iran; ⁵Islamic Azad University, Iran

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Laurs Bangsøer¹, Niels Kouppier¹, Magdalena Huberts-Kregel¹, Annechien Lambeck¹, Bart-Jan Kreesen¹ and Bouke Hepekma¹
¹Transplantation Immunology, Dept. of Laboratory Medicine, University Medical Center Groningen, University of Groningen, Netherlands

P49 | cPRA.cz – web based algorithm for automated Luminex analysis
Matěj Röder¹, Vít Svůjček¹, Tomáš Kebřík¹, Kateřina Jáklová¹, Jiří Gurka¹, Petr Raška¹ and Antonij Slavčev¹
¹Myrs Akaterinil Institut¹, Institute for Clinical and Experimental Medicine, Prague, Czechia; ²Bindworks S.R.O., Czechia; ³Information Technology Division, Institute for Clinical and Experimental Medicine, Prague, Czechia

P50 | SNV in MHC Class III Genes. Detection by Exome Sequencing in Samples with Heterozygosity in HLA-A-C-B-DRB1-DOB1 loci
Luis Cristovao Porto¹, Angela Maria Santos¹, Danielle Secco¹, Raiana Barbosa¹, Romulo Oliveira¹, Antonio Carlos Campos-de-Carvalho¹, Adriana Carvalho¹, Danielli Oliveira¹ and Tais Brunswick¹
¹Rio de Janeiro State University, Brazil; ²Federal University of Rio de Janeiro, Brazil; ³National Cancer Institute, Brazil

P51 | Argentinian’s Leap into the cPRA Era: Embracing Transplantation Advancements
Manuel Quiroz Costa¹, María Belén Bolekjan¹, Santiago Meinardo Cambra¹ and Gustavo Piccinelli¹
¹Laboratorio Nacional de Immunogenética, INCILCA, Argentina; ²Freelance Programmer, Argentina; ³Centro Provincial de Histocompatibilidad – CUCABA, Argentina

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Asimina Tylaktou¹, Georgios Lioullos¹, Georgez Petasis¹, Artemis Maria Iosifidou¹, Myrs Akaterinil Institut¹, Georgias Chalkias¹, Evaggelia Sidira¹, Fani Makrovasilii¹, Maria Stangou¹ and Ioannis Theodorou¹
¹National Peripheral Histocompatibility Center – Immunology Department, Hippokratizon General Hospital, Thessaloniki, Greece; ²Department of Nephrology, 424 Military Hospital, Thessaloniki, Greece; ³School of Medicine, Aristotle University of Thessaloniki, 45636 Thessaloniki, Greece; ⁴Department of Nephrology, Hippokratizon Hospital, Thessaloniki, Greece; ⁵Laboratoire d’Immunologie, Hôpital Robert Debré, Paris, France

P53 | Advancing HLA typing on nanopore sequencing platforms: A novel phasing-based bioinformatics software for high resolution and accuracy
Jue Wang¹, Huan Yu¹, Chen Chen¹, Jialie Luo¹ and Hu Wang¹
¹Clinical Transfusion Research Center Institute of Blood Transfusion, CAMS & PUMC, Chengdu, Sichuan Province, PR, China, China; ²Genetics and Cancer Research Department, Qihou Technology Ltd., Beijing, PR, China, China

P54 | Laboratory reporting of DQB1*03:05 (DQB) and DOB1*03:19 (DO7) in UK NEQAS for H&I’s external proficiency testing scheme for Coeliac Disease
Amy De’Ath¹ and Deborah Pritchard¹
¹UK NEQAS for H&I, United Kingdom

P55 | Performance of participants of UK NEQAS for H&I pharmacogenetics schemes over the last 5 years
Amy De’Ath¹ and Deborah Pritchard¹
¹UK NEQAS for H&I, United Kingdom

P56 | Enhancing organ transplantation outcomes through standards-compliant software solutions
Hanvi Ramezanzai¹, Caitlin Haughey¹, Francesco Zezzi¹, August Jangerstad¹, Julia Paschke¹ and Sille Abrant¹
¹DeVyser, Sweden

P57 | Avocado as a supplement in Afro-Colombian patients with obesity, diabetes and who express the HLA-DQB1*02:01
Carlos Parga Lozano¹ and Jim Adolfo Alfaro Ariza¹
¹Research and Innovation Center CIIS and Fundación Universitaria del Área Andina, Colombia; ²Fundación Universitaria del Área Andina, Colombia

Hematopoietic stem-cell transplantation (HSCT)

P58 | Effect of Killer-cell immunoglobulin-like Receptors and their cognate HLA ligands on tumor disease-free survival after allogeneic hematopoietic stem cell transplantation
Jackek Nowak¹, Agnieszka Witkowska¹, Agnieszka Malinowska¹, Klaudia Nestorowicz-Kaluza¹, Elżbieta Graczyk-Pol¹, Anna Flaga¹, Urszula Sztencak¹, Anna Wnorerowska¹, Aleksandra Wawerka¹, Wiktoria Szwałkowska¹ and Agnieszka Gawron¹
¹Institute of Hematology and Transfusion Medicine, Poland; ²Organization and Coordination Center for Transplantation “POLTRANSPLANT”, Poland

P59 | HLA-loss relapse detection using NGS data from standard HLA genotyping in haploidentical stem cell transplantation
Milena Vranai¹ and Radek Plachy¹
¹Institute of Hematology and Blood Transfusion, Prague, Czechia

P60 | HLA Loss detection after Haplo-identical Hematopoietic Stem Cell Transplantation using a Next-Generation Sequencing based specific approach.
Alexandre Walencik¹, Laetitia Anquetin¹ and Mehdi Alizadeh¹
¹Laboratoire HLA Nantes, EFS Centre

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Immunogenetics in Organ Transplantation

P81 | On the road to epitope matches and mismatches – with epiTool
Claudia Lehmann¹, Nils Leuchmann¹, Ines Dostaldt¹ and Henry Loeffler-Wirtz¹
¹Laboratory for Transplantation Immunology, University Hospital Leipzig, Germany; ²Institute for transfusion Medicine, H 1 | Laboratory, Charité-Universitätsmedizin Berlin, Germany; ³Interdisciplinary Center for Biomaterials, LZB, Leipzig University, Germany

Following kidney transplantation about to 40 epitope mismatches were present. In contrast, recipients with only nine eMIM had produced antibodies towards the donor. Defining epitopes is helpful for understanding the underlying mechanisms. It is not a matter of numbers but a matter of quality and could be a useful tool for donor selection in the future.

P82 | Clinical relevance of isolated preformed HLA-DP donor specific antibodies on the outcome of kidney transplantation
Alba Expósito Bay¹, Beatriz Rodríguez Bayona¹ and María Francisca González Escribano¹
¹Servicio de Inmunología, Hospital Universitario Virgen de Rocío, Sevilla, Spain

P83 | Interference of cold agglutinins and/or cryoglobulins in antibody diagnostics for kidney transplantation: a case study
Steven Keetzier¹, Joyce van Beers¹, Jan Damoiseux¹, Christina Voorter¹ and Lotte Wieten¹
¹Department of Transplantation Immunology, University Hospital Leuven, Belgium; ²Biomedical Center, ³National Diagnostic Laboratory, Maastricht University Medical Center, Maastricht, Netherlands

P84 | High levels of BCMA transcript expression prior to transplantation, increased plasmablast, lymphocyte B cell class-switched levels and viral loading are associated with early CMV reactivation in renal recipients
Rafaela Fernandes¹, Ana Carolina de Almeida¹, Jose Alfredo Marques¹, Jose Antonio Galvão¹, Helios Martinez-Banacolcha¹, Carmen Botella¹, Alfredo Minguela¹, Maria Rosa Moya-Quijles¹, Santiago Lorente¹, Isabel Legaz¹ and Manuel Murro¹
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P85 | IMiflidasare for Kidney Transplantation of Highly Sensitized Patients with a Positive Crossmatch: The French Consensus Guidelines
Owendine Guidicelli¹, Paolo Malvezzi¹, Lucile Amrouche¹, Dany Anglicheau¹, Gilles Blancho¹, Sophie Callard¹, Marieke Freize¹, Cassim Kama¹, Carmen LeFouchère¹, Christophe Marlet¹, Alice Koening¹, Johan Noble¹, Olivier Thanaut¹, Antoine Thierry¹, Jean-Luc Tasquin¹, Dominique Bertrand¹ and Lionel Couzi¹
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P86 | Effect of peri-transplantation circumstances on the amelioration of cellular immunity following kidney transplantation
Lambros Vagiotas¹, Georgios Lioulios¹, Efratras Kasimatis¹, Aliki Xochelli¹, Anna Boukta¹, Georgia Chatzika¹, Despoina Asouchidou¹, Margarita Samali¹, Nikolaos Antoniadis¹, Georgias Tsoufias¹, Maria Stangou¹ and Asimina Fylaktou¹
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P87 | Detection of donor-derived cell-free DNA in sequential kidney transplanted patients
Linméa Pettersson¹, Lukas Frischknecht¹, Sofia Westerling¹, Hamid Zamanzade¹, Lukas Weidmann¹, Kai Castrén¹, Thomas Schächner¹ and Jakob Nilsson¹
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P88 | Role of HLA matching and donor specific antibody development in long-term survival, acute rejection and cardiac allograft vasculopathy
Dario Costa¹, Antonietta Piccasì¹, Vincenzo Grimaldi¹, Cristiano Amarello¹, Andrea Petracca¹, Anna Levi¹, Mario Di Donato¹, Anna Virginia Adriano Pirozzi¹, Carmela Fiorito¹, Giusti Monica¹, Aurora Gallo¹, Claudio Marra¹, Marisa De Feo¹, Francesco Cacciatore¹, Ciro Malello¹ and Claudio Napoli¹
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P89 | Correlation between anti-angiotensin II receptor 1 and anti-endothelin type A receptor 1 in kidney transplanted pediatric patients
Antonio Giuseppe Bianculli¹, Paola Giustiniani¹, Annalisa Guagnano¹, Andrea Di Luzzo¹, Francesca Besti¹, Raffaella Zaccaro¹, Luca Antonio Sestini¹, Adele Cappari¹, Isabella Guzzo¹ and Marco Andreani¹
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P90 | Acute allograft dysfunction and glomerular microangiopathy in kidney transplant recipients in absence of donor specific anti-HLA antibodies: a case series
Nahiga Bakli¹, Ana Farfan Ruiz¹, Tambi Jarni¹ and Mohamed Elrefaai¹
¹Mayo Clinic, United States

P91 | Biomarkers of Innate Immunity and Immunological Susceptibility to Viral Infection in Patients with Alcoholic Cirrhosis
Isabel Legaz¹, Elena Navarro-Noguera¹, Aurelia Collados-Rojo¹, Rosana Gonzalez-Lopez¹, Jose Miguel Bolarián¹ and Manuel Murro¹
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P92 | Non-HLA antibodies in highly sensitized recipients on the kidney waiting list
Marija Burek Kamenaric¹, Lucija Jukic¹, Katarina Stinji Jankovic¹, Marija Maskalan¹, Zorana Grubić¹, Natallija Martinić¹ and Renata Zucan¹
¹University Hospital Centre Zagreb, Croatia

P93 | Deceased kidney donor virtual crossmatch introduction in north Italian transplant program (NTP) area
Elena Longhi¹, Loretta Crespiotto¹, Viviana Silioli¹, Vittoria Caporale¹, Alessia Comino¹, Francesca Drogo¹, Alejandra Lopez Ramirez¹, Sergio Tagliamacco¹, Marco Guarenà¹, Denise Bertola¹, Caterina Brambilla¹, Nicoletta Cagnli¹, Luca Padovani¹, Michela Grassini¹, Annalisa Innocenti¹, Mario Macchiagnola¹, Barbara Sartorius¹, Alessandra Tassinari¹, Tullio Tullio¹ and Andrea Falaschi¹
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P94 | A personalized delisting strategy enables successful kidney transplantation in highly sensitized patients with preformed donor-specific anti-HLA antibodies
Sandra Garcia Jimenez¹, Estelze Paz-Artal¹, Hernando Trujillo¹, Natalia Peláez¹, María J Castro¹, Manuel J Del Rey¹, Angel Alfonso¹, Enrique Morales¹, Esther González¹, Amado Andres¹ and Esther Mancebo¹
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P95 | IMiflidasare desensitization in highly-HLA sensitized patients with positive Cross-Match: first experience in Parma
Silvia Giuliodori¹, Maddalena Paronchi¹, Pamela Barilli¹, Chiara Florani¹, Claudia Labate¹, Roberta Merli¹, Valentina Spadolini¹, Francesca Labadini¹, Elisa Maggi¹, Sergio Manduca¹, Jessica Bernetti¹, Irene Pezzani¹, Elena Ruscello¹, Raffaella Toliano¹, Umberto Maggiore¹ and Paolo Zanelli¹
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P96 | Case report: simultaneous combined liver-kidney transplant. Focus on immunological assessment
Paola Zanelli¹, Silvia Giuliodori¹, Georgia Comai¹, Matteo Ravaoli¹, Irene Pezzani¹, Giovanni Rombalò¹ and Gaetano La Manca¹
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P97 | Desensitization-resistant Eplet-Specific HLA Antibodies
Sebahat Usta Akguł¹, Ümit Aslanhan¹, Deniz Kazamzadı¹, Yaren Alan¹, Emir Demiri¹, Deniz Ece Salli¹, Amir Tabatabaei¹, Tain Catabayangan¹, Demir Kan Ermi¹, Mehmet Kanbay¹, Burak Kocak¹ and Cener Susar¹
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P98 | Differences of the subpopulations of T-lymphocytes between long-term and recent kidney transplant recipients
Evangelos Memmos¹, Georgios Lioulios¹, Efratras Kasimatis¹, Aliki Xochelli¹, Lambros Vagiotas¹, Nikolaos Antoniadis¹, Nikolaos Antoniadis¹, Georgios Tsoufias¹, Maria Stangou¹ and Asimina Fylaktou¹
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P99 | The reduction of T and B regulatory lymphocytes in long-term kidney transplant recipients
Evangelos Memmos¹, Efratras Kasimatis¹, Georgios Lioulios¹, Aliki Xochelli¹, Lambros Vagiotas¹, Vasiliiki Nikolaidou¹, Nikolaos Antoniadis¹, Georgios Tsoufias¹, Maria Stangou¹ and Asimina Fylaktou¹
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P100 | Pre-transplant flow cytometric crossmatch in patients undergoing Rituximab treatment: employment of Pronase and anti-CD20
Mario Macchiagnola¹, Barbara Sprengio¹, Miriam Ramondetta¹, Viviana Silioli¹, Augusto Tagliamacco¹, Alessia Comino¹, Francesca Brambilla¹, Nicoletta Cagni¹, Annalisa Innocenti¹, Sara Capogreco¹, Loretta Crespiotto¹ and Elena Longhi¹
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P101 | Deciphering HLA Antibody Reactivity Patterns: A Cluster-Based Analysis of SAB Assay Data
Luisa Ramalheira¹, Cristiana Teixeira¹, Maria Isabel Silva¹ and Ruben Araujo¹
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²Centro Sangue e Transplantação do Lisboa, Portugal; ³Nova Medical School, Portugal

P102 | Can Molecular HLA Mismatch Scores Predict Antibody-Mediated Rejection in Desensitized Kidney Transplant Recipients?
Sebahat Usta Akguł¹, Yaren Alan¹, Emir Demiri¹, Nesihhan Etiler¹, Ümit Aslanhan¹, Tain Catabayangan¹, Demir Kan Ermi¹, Deniz Ece Salli¹, Mehmet Kanbay¹, Dilok Eryer Baydar¹, Cener Susar¹ and Burak Kocak¹
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P103 | Clinical utility of 1:16 serum dilution as a predictor of response to therapeutic plasma exchange for HLA antibody-mediated rejection treatment and overall survival in lung transplant recipients: A two center study
Mohamed Elrefaai¹, Tahaghat Nanaia¹, Francisco Alvarez¹, Elizabeth Godbey¹, Gerard Cramer¹, Francis Cordova¹, Norithisa Shigemura¹, Yoshiya Toyoda¹ and Olga Timofeeva¹
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P104 | Characterization of sHLA-AlexaFluo647-conjugates for accurate determination of serum HLA antibody concentration and affinity
Matthias Reist¹, Rico Buchli¹, Sean R. A. Devenish¹, Dominik Meinel¹, Sebastian Heidt¹, Cathrin S.M. Kramer¹, Suzanne Bestaratos¹, Rosa G.M. Lammerter¹, Stefan Schaub¹ and Gideon Högler¹
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P105 | High Levels of Complement-Binding Donor-Specific Anti-HLA Antibodies: Are They Always Pathogenic?
Katrin Hacke¹, Firas Marayati¹, Sami Alzahrar¹, Hasan A. Khamash¹, Lavanya Kodali¹, Peziza Sudhina¹, Girish K. Mour¹, Basim G. Abu Jawdeh¹ and Andrea Jaramila¹
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P106 | Effect of HLA-B *21 dimorphism on cellular response after COVID-19 vaccination in patients with renal disorders
Wanda Niepleko-Minciewska¹, Malgorzata Kaminska¹, Katarzyna Koscielska-Kasprzak¹, Dorota Bartoszka¹, Marcelina Zabińska¹, Dorota Kaminska¹, Magdalena Krajewska¹ and Katarzyna Bogunia-Kubik¹
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P107 | Could donor-derived cell-free DNA be considered a potential biomarker of subclinical graft rejection or early organ damage in kidney transplant recipients?
Marina Fernandez-Gonzalez¹, Victor Jimenez-Coll¹, Carmen Botella¹, Rosana Gonzalez-Lopez¹, Maria Jose Alegria-Marquez¹, Carlos Sanchez-Rodriguez¹, Elisa Sara Lujan¹, Moya-Quijles¹, Ana Antonio Galán¹, Netherlandia¹, Jose for Transplantation Immunology and Nephrology, University Hospital Basque, Basque, Switzerland

P108 | First experiences with detection of dd-cfDNA in heart transplant patients in North Macedonia
Meri Kirpaci¹, Marija Gjerakarowska Radkovic¹, Kristina Stamatovska¹, Boban Dobrevski¹, Gorjan Milonovski¹, Petricica Brnjarevska Blazevska¹, Tamara Savevska¹ and Aleksandar Todorovskov¹
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P109 | MicroRNAs as Potential Graft Rejection or Tolerance Biomarkers and Their Dilemma in Clinical Routines Behaving like Devilish, Angelic, or Frigighting Elements
Rosana Gonzalez-Lopez¹, Maria Jose Alegria-Marquez¹, Elisa Sara Lujan¹, Moya-Quijles¹, Ana Antonio Galán¹, Netherlandia¹, Jose for Transplantation Immunology and Nephrology, University Hospital Basque, Basque, Switzerland

P110 | Validation of the Flow cytometry crossmatch technique with the BD FACSLyric and calculation of new cut-off values
Claudia Silva¹, Paulo Aires¹, Paula Santo¹, Pedro Ramo¹ and Paula Xavier¹
¹Instituto Português do Sangue e Transplantação, IP, Portugal

P111 | Challenges in Immunological evaluation of Four Sensitized Patients
Mahendra Mishra¹ and Aarti Nagpal¹
¹Pathlink Diagnostics Pvt. Ltd. National Reference Laboratory, India

P112 | Analysis of HLA-A, -B and -DRB1 genes in living donor kidney transplantation in Montenegro
Marko Grubić¹, Marina Rasković¹ and Renata Zucan¹
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P113 | HLA-antibodies in solid organ transplantation: Eplet analysis of a paired kidney cohort
Anna-Lena Semmler¹, Nigar Fattahova¹, Michael Yegorich¹, Thimoteus Speer¹ and Christian Seidel¹
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P114 | Correlation between DSA and kidney transplant prognosis
Hyun-Ji Lee¹, Shingyeo Hwang¹, Hanbin Jeong¹, Soohyun Lee¹, Junghun Gu¹ and Kyunghwa Shin¹
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P115 | Lumines single antigen assay on 1:10 diluted serum predicts the drop in anti-HLA antibodies before desensitization
Dominique Bertrand¹, Charlotte Laurent¹, Fabienne Farce¹ and Rangolie Kaveri¹
¹CHU de Rouen, France; ²EFS HxPO, France

P116 | A comprehensive comparative assessment of mean fluorescence intensity of Lumines single antigen bead tests between laboratories and commercial platforms; a report from the Italian histocompatibility network
Antonella Piazza¹, Giovanni Rombalò¹, Dario Cagni¹, Maria Chiara de Stefano¹, Umberto Maggiore¹, Sara Iozzi¹, Marcella Masini¹ and Massimo Ardelli¹
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P117 | Exploring false positive reactions in Anti-HLA antibody identification via Single Antigen testing
Besma Elifki¹, Fethi Megahib¹ and Nabila Attai¹
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P118 | Urine Biomarker CXCL10 Bead-Based Detection Assay for Monitoring Clinical Transplant Rejection
Julie Nguyen¹, Michael Trinitis¹, Elizeh Hasan¹, Chien-Yu Chen¹, Rui Pei¹ and Dave Lowe¹
¹Thermo Fisher Scientific, United States

P119 | Evaluation of serotype representation in different Lumines single antigen kits regarding the serotype frequencies in 2,021 deceased donors
Renato de Marco¹, Alberto Cardoso Martins Lima¹, João Henrique Campos¹ and Maria Gerbase-Delima¹
¹Immunogenetics Institute – IGEN, Associação Fundo de Incentivo à Pesquisa, São Paulo, SP, Brazil

P120 | Strategy for delisting prohibited HLA antigens to increase the possibilities of kidney transplantation of hypersensitized patients
Janfran Luchero-Cerda¹, José Luis Carro¹, David Cucchiari¹, Juan Torres¹, Esther Mancober¹, María José Pérez-Saez¹, Marta Crespo¹, Amado Andres-Belmonte¹, Francesc Moreso¹, Oriol Bastard¹, Fritz Diekmann¹ and Eduard Palou¹
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P121 | Immunogenetic Profiling in Living Donor Kidney Transplantation: Insights from DSAs and Pronase-Treated Flow Cytometry Crossmatch
Luis Ramalheira¹, Ana Teixeira¹, Cristiana Teixeira¹, Maria Isabel Silva¹, Paula Almeida¹, Alice Lima¹ and Ruben Araujo¹
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P122 | Optimizing Kidney Re-transplantation Outcomes: Validation of a Highly Sensitive Assay for Monitoring of Donor-Derived Cell-Free DNA
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¹Devyser, Sweden;

P123 | HLA-DQA1*03:02-DQB1*03:03 is the dominant immunogenetic heterodimer for post-transplant HLA-DQ de novo DSA development in a cohort of Chinese kidney transplant patients
Xiangjun Liu¹, Zhaoru Huang¹ and Wenjun Shang¹
¹IBF Diagnostics, China; ²The First Affiliated Hospital of Zhengzhou University, Zhengzhou, China

P124 | Cross-platform optimization of (d)PCR assays intended for donor-derived cell-free DNA monitoring
Bram Luiken¹, Lara van der Klugt¹, Ro Bard¹, Rait Valkenburg¹, Freek Manders¹, Eleni Dranaï¹ and Sake van Wageningen¹
¹GeDiX, Netherlands

P125 | Analysis of the influence of IgM on the results of CDC-XM in patients with chronic kidney disease
Didara Turanbekova¹, Didara Khamitova¹, Zhulduz Zhanzakova¹, Dana Baimukhasheva¹, Zhazira Saduakova¹ and Sanya Abdrahmonova¹
¹Republican Scientific and Production Center for Transfusiology, Astana, Kazakhstan

P126 | Kinetics of donor-derived cell-free DNA in the early kidney post-transplantation phase
Mauro Leucio Mattarello¹, Serena Rossanelli¹, Marielu Bartirromo¹, Martina Betti¹, Sara Iozzi¹, Eleonora Pizzo¹, Glenda Cancello¹, Alice Brogi¹, Elisabetta Polo¹, Lina Cirami¹, Sergio Semni¹ and Diana Palchetti¹
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P127 | HLA-DQA1*03:02-DQB1*03:03 is the dominant immunogenetic heterodimer for post-transplant HLA-DQ de novo DSA development in a cohort of Chinese kidney transplant patients
Xiangjun Liu¹, Zhaoru Huang¹ and Wenjun Shang¹
¹IBF Diagnostics, China; ²The First Affiliated Hospital of Zhengzhou University, Zhengzhou, China

P128 | Performance of Devyser's NGS-based Assay for Monitoring donor-derived cell-free DNA in Kidney Allografted Patients
Annette Plesner¹, Soeren Schwartz Soerensen¹ and Heide Bruunsgaard¹
¹Copenhagen University Hospital, Rigshospitalet, Denmark

P129 | Effect of serum dilution in the patient with antibody-mediated rejection undergoing therapeutic plasma exchange
Olivia Baldazzi¹, Maria Grazia Tupone¹, Cervelli Carla¹, Alessandra Pannone¹, Anna Rughetti¹, Claudia Vattini¹, Claudia Pulcinella¹, Vittoriano Torrelli¹, Ivana Abruscio¹ and Franco Paola¹
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P130 | The interpretation of the anti-HLA-A3 appearance after treatment with anti-thymocyte globulin
Jelena Bejkovic¹, Tajana Dubek¹ and Zorana Zucan¹
¹Tissue Typing Department, Blood Transfusion Institute of Serbia, Belgrade, Serbia

P131 | CDC vs Lumines in HLA class I antibody detection – 12 years' experience in Tissue Typing Laboratory, Rijeka
Tajana Crnk Marčetić¹, Nataša Katalinović¹, Aida Mujic Ferić¹, Helena Kurtović¹, Ines Šimac Usanji¹, Hevija Rima¹ and Sanja Balaz¹
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P132 | Optimizing a protocol for diluting patient serum with EDTA as a pre-treatment step toward suppressing the prozone effect in the detection of anti-HLA antibodies
Daniel Iguanilla Portilla¹, Ricardo Cuesta¹, Rocio Navarro¹, Manuel Rodriguez¹, Luisa Mas¹, Rafaela Sánchez¹, Isabel Terrón¹, Rosa Granell¹, Estefanía Solana¹, Dolores Planellés¹, Lidia Hidalgo Mira¹, Castro Emma¹, Luis Larrea¹, Cristina Abola¹ and Francisco Boix¹
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P133 | Comparison of Two Single Antigen Bead Assays for Detection of Anti-HLA Antibodies and assessment of their complement-binding capacity
Asimina Fylaktou¹, Georgios Lioulios¹, Georgios Petasis¹, Mariathani Papachristou¹, Margarita Samali¹, Artemis Maria Iosifidou¹, Myrto Alkaterini Iosifidou¹, Alkaterini Anastasiou¹, Maria Stangou¹ and Asimina Fylaktou¹
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P134 | First experiences with detection of dd-cfDNA in heart transplant patients in North Macedonia
Meri Kirpaci¹, Marija Gjerakarowska Radkovic¹, Kristina Stamatovska¹, Boban Dobrevski¹, Gorjan Milonovski¹, Petricica Brnjarevska Blazevska¹, Tamara Savevska¹ and Aleksandar Todorovskov¹
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P135 | MicroRNAs as Potential Graft Rejection or Tolerance Biomarkers and Their Dilemma in Clinical Routines Behaving like Devilish, Angelic, or Frigighting Elements
Rosana Gonzalez-Lopez¹, Maria Jose Alegria-Marquez¹, Elisa Sara Lujan¹, Moya-Quijles¹, Ana Antonio Galán¹, Netherlandia¹, Jose for Transplantation Immunology and Nephrology, University Hospital Basque, Basque, Switzerland

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