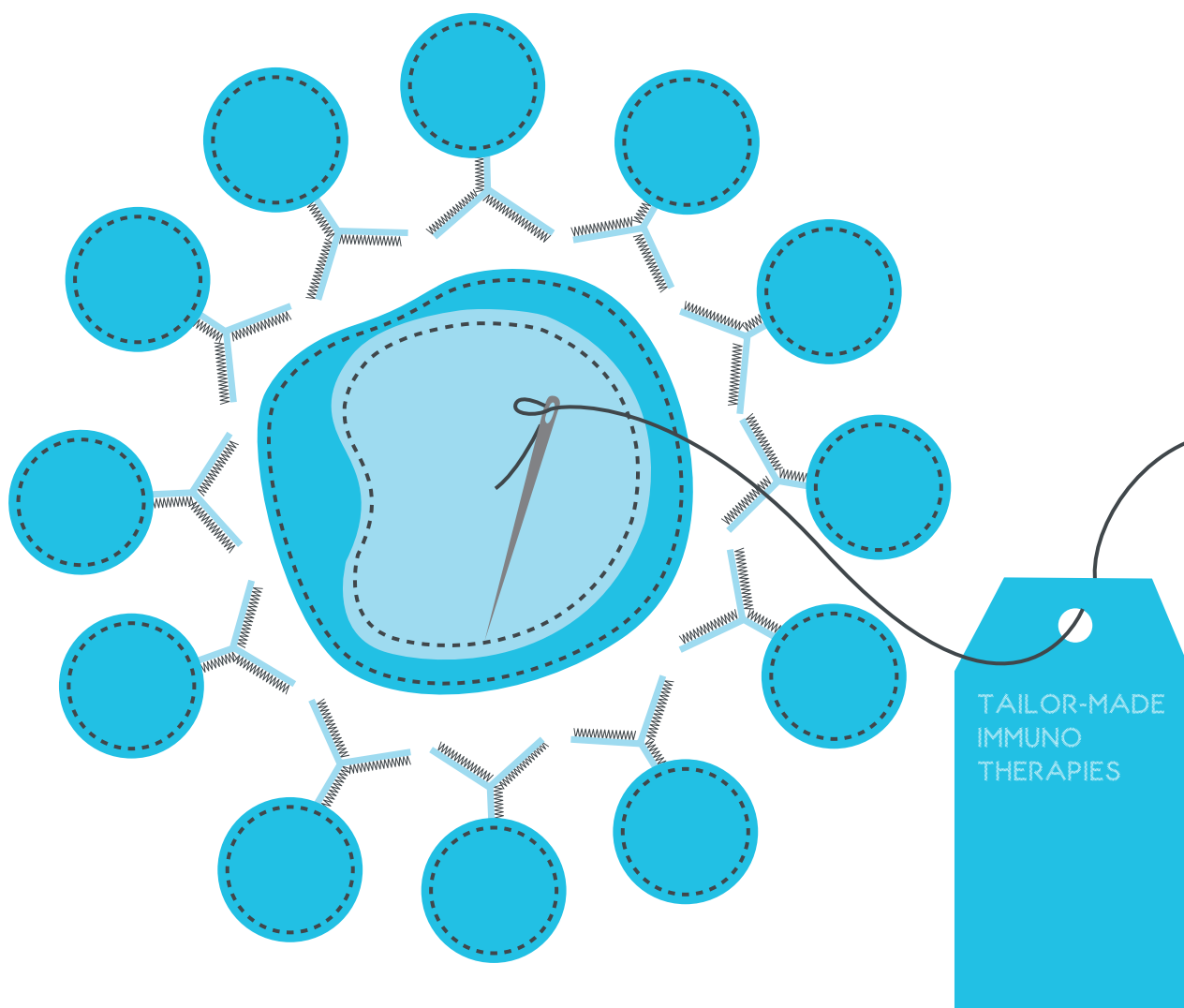


XXXVIII ANNUAL MEETING OF THE
PORTUGUESE SOCIETY OF IMMUNOLOGY



FROM IMMUNE DISORDERS TO IMMUNOTHERAPIES



25-27 NOVEMBER 2012
PORTO, SALÃO NOBRE, INSTITUTO DE CIÊNCIAS BIOMÉDICAS DE ABEL
SALAZAR/FACULDADE DE FARMÁCIA - UNIVERSIDADE DO PORTO

XXXVIII ANNUAL MEETING OF THE PORTUGUESE SOCIETY OF IMMUNOLOGY:
FROM IMMUNE DISORDERS TO IMMUNOTHERAPIES

VENUE

The congress will be at:

PORTO, SALÃO NOBRE, INSTITUTO DE CIÊNCIAS BIOMÉDICAS ABEL SALAZAR/ FACULDADE DE FARMÁCIA -
UNIVERSIDADE DO PORTO



ADDRESS: Rua de Jorge Viterbo Ferreira n.º 228, 4050-313 PORTO

PROGRAMME

25TH NOVEMBER

18:00 – 19:00 OPENING KEYNOTE LECTURE

The mucosal immune barrier in bacterial handling in the gut
Maria Rescigno, IFOM-IEO Campus, Milan, Italy

19:00 – 19:30 GET TOGETHER – DRINKS AND SNACKS

26TH NOVEMBER

09:00 – 11:00 SESSION 1: IMMUNE DEVELOPMENT | SPONSORED BY IBMC

Chair: Nuno Alves

Design principles of adaptive immune systems

Thomas Boehm, Max Planck Institute of Immunobiology and Epigenetics,
Freiburg, Germany

Thymic microenvironmental factors involved in thymocyte malignant transformation

Nuno Rodrigues dos Santos, Univ. Algarve, Faro, Portugal

ORAL COMMUNICATIONS

Cell-autonomous retinoic acid signaling controls Lymphoid Tissue inducer cell differentiation and lymphoid organ size

Manuela Ferreira, IMM - Instituto de Medicina Molecular, Faculdade de Medicina de Lisboa, Portugal

Implications of IL-10 in the development of hematological disorders

Ana Matos Cardoso, Life and Health Sciences Research Institute (ICVS) and ICVS/3B's, Portugal

Human $\gamma\delta$ thymocytes are functionally immature and require IL-2 signals to differentiate into type 1 cytotoxic lymphocytes

Julie C. Ribot, Instituto de Medicina Molecular, Faculdade de Medicina, Universidade de Lisboa, Portugal

11:00 – 11:30 COFFEE-BREAK

11:30 – 13:00 SESSION 2: CANCER IMMUNOTHERAPY | SPONSORED BY ENZIFARMA

Chairs: Margarida Lima, Manuel Vilanova and Paula Ferreira

Idiotypic vaccines for lymphoma

Maurizio Bendandi, Center for Applied Medical Research, University of Navarra, Pamplona, Spain

Gamma-delta T cells within tumors: recruitment, recognition and functions

Bruno Silva-Santos, IMM, Lisbon, Portugal

ORAL COMMUNICATIONS

Progenitor deprivation provokes acute T cell lymphoblastic leukemia

Vera C. Martins, Institute for Immunology, University of Ulm and Division of Cellular Immunology, German Cancer Research Center, Germany

Targeting Chronic Lymphocytic Leukemia Cells Viability Using CX-4945, a Clinical-Stage CK2-Specific Inhibitor

Leila R. Martins, Instituto de Medicina Molecular, Lisboa, Portugal

Understanding the pro-tumour role of $\gamma\delta$ T cells in ovarian cancer

Margarida Rei, IMM, Lisboa, Portugal; GABBA, Porto, Portugal; Barts and The London School of Medicine, London, UK

13:00 – 14:00 LUNCH

14:00 – 15:00 SPI GENERAL ASSEMBLY

15:30 – 17:30 SESSION 3: INFECTION AND VACCINES | SPONSORED BY ICBAS

Chairs: Manuel Vilanova and Paula Ferreira

Mucosal memory T cells: a three-sided coin

Leo Lefrançois, University of Connecticut Health Center, Farmington, Connecticut, USA

How Leishmania infection modify innate immune cells to regulate adaptative immunity

Anabela Cordeiro da Silva, IBMC, Porto, Portugal

ORAL COMMUNICATIONS

BCG vaccination induced IL-17+TNF+IL-2+ polyfunctional memory T cells correlated with increased protection against *M. tuberculosis*

Andrea Cruz, Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho, ICVS/3B's - PT Government Associate Laboratory, Braga/Guimarães, Portugal

Impaired Treg function in mice infected with *Candida albicans* Δ sap456 mutants is associated with attenuated fungal virulence

Alexandra Correia, Centre of Molecular and Environmental Biology (CBMA), Biology Department, University of Minho, ICBAS-UP - Instituto de Ciências Biomédicas de Abel Salazar, Universidade do Porto, Portugal

Deficient production of reactive oxygen species in p47phox/Ncf1 mice impairs memory B cell differentiation and B cell response against *Candida albicans*

Gustavo Rossi, Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal, Universidade Federal do Paraná, Brazil

17:30 – 18:00 COFFEE-BREAK

18:00 – 20:00 SESSION 4: ALLERGY | SPONSORED BY ROCHE

Chairs: Esmeralda Neves and Emília Faria

Protective and pathogenic immunological memory

Andreas Radbruch, Deutsches Rheuma-Forschungszentrum Berlin (DRFZ)

Mechanisms and targets of allergen-specific immunotherapy

Luís Delgado, Hospital de S. João, Porto, Portugal

ORAL COMMUNICATIONS

Can NOS3 and ACE polymorphisms modulate the immune response in a Portuguese Asthmatic population?

Margarida Cortez, CHLN-HSM, Lisbon, Portugal

Different impact of regulatory T cells on nematode-induced immune evasion in BALB/c and C57BL/6 mice

Birte Blankenhaus, Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany

Foxp3 expression is required for the induction of therapeutic tissue tolerance

Frederico S Regateiro, Sir William Dunn School of Pathology, Oxford University, United Kingdom, Institute of Immunology, Faculty of Medicine, University of Coimbra, Portugal

27TH NOVEMBER

09:00 – 11:00 SESSION 5: IMMUNODEFICIENCY ISPONSORED BY OCTAPHARMA

Chairs: Laura Marques and Margarida Guedes

When T cells fail to function

Taco Kuijpers, Academic Medical Center, Amsterdam, The Netherlands

CVIDs: beyond B cell deficiency

Susana Lopes da Silva, IMM and Hospital Santa Maria, Lisbon, Portugal

ORAL COMMUNICATIONS

Clinical and laboratory features of Common Variable Immunodeficiency patients from Centro Hospitalar do Porto

David Penas, Master in Medicine by Instituto de Ciências Biomédicas Abel Salazar, Porto, Portugal

X-Linked Agammaglobulinemia: 12 years of experience

Alexandre Fernandes, Unidade de Infeciologia Pediátrica e Imunodeficiências – Serviço de Pediatria – Centro Hospitalar do Porto, Porto, Portugal

How Much does the Human Immunodeficiency Vírus (HIV) infection Increase the Risk of Tuberculosis in Porto?

Cláudia Nóbrega, Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho, ICVS/3B's – PT Government Associate Laboratory, Braga/Guimarães, Portugal

11:00 – 11:30 COFFEE-BREAK

11:30 – 13:30 SESSION 6: AUTOIMMUNITY | SPONSORED BY ISAZA

Chairs: Carlos Vasconcelos and Júlia Vasconcelos

The Evolution of Stem Cell Therapy for Autoimmune and Inflammatory Diseases

Thomas Daikeler, University of Basel, Switzerland

New therapeutic strategies in autoimmune diseases

António Marinho, Centro Hospitalar do Porto, Porto, Portugal

ORAL COMMUNICATIONS

High-Dose Chemotherapy and Autologous Stem Cell Transplantation in a patient with severe Systemic sclerosis – case report

Carlos Pinho Vaz, Serviço de Transplantação de Medula Óssea - IPO Porto

Adjuvant can facilitate induction of therapeutic tolerance to recombinant factor VIII in a mouse model of hemophilia

Ana Água-Doce, Instituto de Medicina Molecular, Instituto Gulbenkian de Ciência, Oeiras, Portugal

Regulatory T-cells, CD25 and IL2RA genetic variation in unaffected relatives of SLE patients

Constantin Fesel, Instituto Gulbenkian de Ciência, Oeiras, Portugal

13:30

CLOSING SESSION

XXXVIII ANNUAL MEETING OF THE PORTUGUESE SOCIETY OF IMMUNOLOGY:
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POSTERS

POSTERS

IMMUNE DEVELOPMENT | POSTER 01

Concerted expression of iron-related genes during thymocyte differentiation

João Arezes, Inês Vieira, Susana Oliveira, José Pedro Quintanilha, Graça Porto, Jorge Pereira Pinto

IMMUNE DEVELOPMENT | POSTER 02

Radiation stimulates the regeneration of cortical thymic epithelial cells *in vivo*

Ana Rosalina Ribeiro, Pedro Mendes Rodrigues, Catarina Meireles, Nicholas D. Huntington, Antoine Toubert James P. Di Santo and Nuno L. Alves

IMMUNE DEVELOPMENT | POSTER 03

Secreted immunoglobulins limit B1 and MZ cell numbers through a microbiota-independent mechanism

Andreia C. Lino, Elodie Mohr, Jocelyne Demengeot

IMMUNE DEVELOPMENT | POSTER 04

B cells determine T cell number and phenotype by an immunoglobulin independent mechanism

Andreia C. Lino, Elodie Mohr, Jocelyne Demengeot

IMMUNE DEVELOPMENT | POSTER 05

A novel inducible and reversible mouse model for ubiquitous recombinase activity

Bonnet M., Sarmiento L., Martins C. I., Demengeot J.

IMMUNE DEVELOPMENT | POSTER 06

Evidence for a two-step developmental program of thymic-derived human Regulatory T cells

Íris Caramalho, Vânia Nunes-Silva, Ana Isabel Pinto, Ana Rita Pires, Catarina Mota, Helena Nunes-Cabaço and Ana E. Sousa

IMMUNE DEVELOPMENT | POSTER 07

Delta like-1 enhances the *in vitro* conversion of human memory cells into FOXP3-expressing Regulatory T cells

Catarina Mota, Vânia Nunes-Silva, Rui MM Victorino, Ana E. Sousa and Iris Caramalho

IMMUNE DEVELOPMENT | POSTER 08

Prediction of recombination signal sequences and their evolutionary history

Diogo Santos, Jorge Carneiro, Alekos Athanaisatis, Vasco Barreto, Inês Trancoso, Daniel Sobral, Marie Bonnet, Jocelyne Demengeot, José Pereira Leal

IMMUNE DEVELOPMENT | POSTER 09

The neurotrophic factor receptor RET drives haematopoietic stem cell survival and function

Diogo Fonseca-Pereira, Sílvia Arroz-Madeira, Mariana Campos, Inês Barbosa, Rita G. Domingues, Afonso R. M. Almeida, Hélder Ribeiro, Alexandre Potocnik and Henrique Veiga-Fernandes

IMMUNE DEVELOPMENT | POSTER 10

Transcriptional and epigenetic signatures of IFN- γ + or IL-17+ $\gamma\delta$ T cell subsets

Karine Serre, Nina Schmolka, Margarida Rei, Julie Ribot, Anita Gomes and Bruno Silva-Santos

IMMUNE DEVELOPMENT | POSTER 11

Role of microRNAs in the differentiation of pro-inflammatory gamma-delta T cell subsets

Nina Schmolka, Anita Q. Gomes and Bruno Silva-Santos

IMMUNE DEVELOPMENT | POSTER 12

Thymocyte selection regulates the homeostasis of IL7-expressing thymic cortical epithelial cells *in vivo*

A.R. Ribeiro, P.M. Rodrigues, C. Meireles, J.P. Di Santo, N.L. Alves

IMMUNE DEVELOPMENT | POSTER 13

The transcription factor E4BP4 controls foetal innate lymphoid cell differentiation

Rita G Domingues, Manuela Ferreira, Lara Moreira-Santos, Hélder Ribeiro, Henrique Veiga-Fernandes

IMMUNE DEVELOPMENT | POSTER 14

Resveratrol inhibits the pro-inflammatory phenotype and function induced by TNF- α on human dendritic cells

A. Silva, M.I. Oliveira, C.R. Almeida, M.A. Barbosa and S.G. Santos

IMMUNE DEVELOPMENT | POSTER 15

Phenotypic characterization of the peripheral blood IgD-CD27- B cell subset in children, adults and senior adults

Andreia Filipa Ângelo, Mónica Teresa Abreu, Milene Vieira Gonçalves, M Margarida Souto-Carneiro

IMMUNE DEVELOPMENT | POSTER 16

Strategies to preserve the naive CD4 T-cell pool in adults thymectomized early in life

Susana L Silva, Adriana S. Albuquerque, Ana I. Pinheiro, Rui Anjos, Miguel Abecasis, Dario Ligeiro, Rui MM Victorino, Ana E Sousa

CANCER IMMUNOTHERAPY | POSTER 17

Positive correlation between TGF- β and CXCR4 expression in human breast cancer

Glauco Akelington Freire Vitiello, Julie Massayo Maeda Oda, Karen Brajão de Oliveira, Roberta Losi Guembarovski, Alda Losi Guembarovski, Patricia Midori Murobushi Ozawa, Marina Okuyama Kishima, Carlos Eduardo Coral de Oliveira, Carolina Batista Ariza, Maria Angelica Ehara Watanabe

CANCER IMMUNOTHERAPY | POSTER 18

CK2 Activity Regulates Signaling, Survival and Proliferation Mediated by IL-7 in T-Cell Acute Lymphoblastic Leukemia Cells

Melão A., Spit M., Gírio A., Barata J.T.

CANCER IMMUNOTHERAPY | POSTER 19

Differential Regulation of Basal and IL-7-induced PI3K/Akt/mTOR and Jak/STAT5 Signaling Distinguishes Pediatric from Adult ALL

A. Margarida Gomes, Maria Soares, Patrícia Ribeiro, Joana Caldas, Ana Luísa Caetano, Aida Botelho Sousa, João F. Lacerda, João T. Barata

CANCER IMMUNOTHERAPY | POSTER 20

STAT5 Activation Is Mandatory for IL-7-Mediated Viability and Growth of T-Cell Acute Lymphoblastic Leukemia Cells

Daniel Ribeiro, Cristina I. Santos, Milene C. Silva, Ana Silva, Bruno A. Cardoso, Luís F. Moita and Joao T. Barata

CANCER IMMUNOTHERAPY | POSTER 21

Glycans in cancer progression – Role of sialyl Tn and sialyl Lewis X antigens

Mylène Carrascal, Paulo Severino, Mariana Silva, M. Guadalupe Cabral, Fabio Dall'Olio, and Paula Videira

CANCER IMMUNOTHERAPY | POSTER 22

A protective role for inflammatory CCL2/ CCR2 chemokine pathway in tumor progression through recruitment of $\gamma\delta$ T lymphocytes

Telma Lança, Maria Fernanda Costa, Natacha Gonçalves-Sousa, Carmen Penido and Bruno Silva-Santos

CANCER IMMUNOTHERAPY | POSTER 23

Elucidating the function of selectin ligands in Dendritic Cell Migration

Mariana Silva, Zélia Silva, Flávia Lima Carlos Tadokoro and Paula Videira

INFECTION AND VACCINES | POSTER 24

Antimicrobial activity of lactoferricin peptides against *Mycobacterium avium* and their synergistic effect with ethambutol

Tânia Silva, Bárbara Magalhães, Sílvia Maia, Paula Gomes, Kamran Nazmi, Jan G. M. Bolscher, Margarida Bastos, M. Salomé Gomes

INFECTION AND VACCINES | POSTER 25

Hepcidin response and regulation during bacterial infection in fish

João Vilares Neves, Carolina Caldas, Pedro Rodrigues

INFECTION AND VACCINES | POSTER 26A

Human dendritic cell functions: modulation by self-sialylated glycans

Hélio João Crespo, Mylene Adelaide Carrascal, Mariana Silva, Maria Guadalupe Cabral, Zélia Silva, Dário Ligeiro, Joseph Lau, Paula Alexandra Videira

INFECTION AND VACCINES | POSTER 26B

Modulation of dendritic cell function by *Burkholderia cenocepacia* bacteria isolated from a cystic fibrosis patient

M. Guadalupe Cabral; Andreia Lopes; Carla Coutinho; Isabel Sã-Correia; Paula A. Videira

INFECTION AND VACCINES | POSTER 27

Animal model of resistance to experimental Buruli ulcer: characterization of *Mycobacterium ulcerans* infection in the guinea-pig

Alexandra G. Fraga, Gabriela Trigo, Rita Araujo-Gomes, Teresa G. Martins, António Gil Castro and Jorge Pedrosa

INFECTION AND VACCINES | POSTER 28

Innate immune response elicited by cells from *Staphylococcus epidermidis* biofilms containing high or low proportions of dormant bacteria

Filipe Cerca, Begoña Pérez-Cabezas, Ângela França, Nuno Cerca, Manuel Vilanova

INFECTION AND VACCINES | POSTER 29

The Effect of *Mycobacterium avium* Thymic Infection on T Cell Differentiation using the P25 TCR Transgenic Mice as a Tool

Bruno Cerqueira-Rodrigues, Palmira Barreira-Silva, Claudia Nobrega, Margarida Correia-Neves

INFECTION AND VACCINES | POSTER 30

Molecular mechanisms regulating IL-10 expression by microglia upon TLR activation

D. Silva, J. Pedrosa, A. G. Castro, M. Saraiva

INFECTION AND VACCINES | POSTER 31

Mycobacteriophages for control of *Mycobacterium ulcerans* infection in a murine footpad model of disease

Gabriela Trigo, Teresa G. Martins, Alexandra G. Fraga, António G. Castro, Joana Azeredo and Jorge Pedrosa

INFECTION AND VACCINES | POSTER 32

GAPDH is a safe vaccine against Group B *Streptococcus* infections

Joana Alves, Pedro Madureira, Teresa Baltazar, Cristina Serra, Adília Ribeiro, José Alberto Duarte, Félix Carvalho, Paula Ferreira

INFECTION AND VACCINES | POSTER 33

Cytotoxicity in Buruli Ulcer: Molecular cytopathogenesis induced by mycolactone

Gama, JB; Martins, T; Castro, AG; Silva, MT; Ludovico, P and Pedrosa, J

INFECTION AND VACCINES | POSTER 34

Characterization of the protective immune response against Group B *Streptococcus* in adult mice

Liliana Oliveira, Pedro Madureira, Elva Bonifácio Andrade, Joana Alves, Adília Ribeiro, Claire Poyart, Patrick Trieu-Cuot and Paula Ferreira

INFECTION AND VACCINES | POSTER 35

Impact of differential TLR recognition of *Mycobacterium tuberculosis* strains for the production of nitric oxide by macrophages

Lúcia Moreira-Teixeira, Fin McNab, Jeremy Sousa, John Ewbank, Jorge Pedrosa, Rui Appelberg, António Gil Castro, Anne O'Garra³, and Margarida Saraiva

INFECTION AND VACCINES | POSTER 36

TLR2 and TLR4 differently regulate *il-10* expression in macrophages at the post-transcriptional level

M. Teixeira-Coelho, J. Guedes, P. Ferreira, A. Howes, G. Kallenius, J. Pedrosa, A. O'Garra, A. G. Castro and M. Saraiva

INFECTION AND VACCINES | POSTER 37

Effects of *Mycobacterium avium* infection on the bone marrow T cell precursors

Palmira Barreira-Silva, Margarida Borges, Margarida Correia-Neves and Rui Appelberg

INFECTION AND VACCINES | POSTER 38

Protection against the intracellular protozoan *Neospora caninum* by intranasal immunization with tachyzoite membrane antigens

Pedro Ferreira, Joana Dias, Alexandra Correia, Begoña Pérez Cabezas, Adília Ribeiro, Luzia Teixeira, António Rocha, Manuel Vilanova

INFECTION AND VACCINES | POSTER 39

Is the Expression of Calicivirus (RHDV) Receptor in the Membrane of Hepatocytes different in Young and Adult Rabbits that are, respectively, resistant and susceptible to the infection?

Raquel M. Marques, Artur P. Águas, Luzia Teixeira, Paula G. Ferreira

INFECTION AND VACCINES | POSTER 40

***Mycobacterium ulcerans* infection is efficiently treated by rifampicin and streptomycin in mice immunosuppressed by corticosteroid administration**

Teresa G. Martins, Gabriela Trigo, Alexandra G. Fraga, José B. Gama, Adhemar Longatto-Filho, Margarida Saraiva, Manuel T. Silva, António G. Castro and Jorge Pedrosa

INFECTION AND VACCINES | POSTER 41

Neonatal TLR2 signalling leads to IL-10 production that prevents the recruitment of neutrophil to infected or inflamed tissues

Elva Bonifácio Andrade, Joana Alves, Pedro Madureira, Liliana Oliveira, Adília Ribeiro, Anabela Cordeiro-da-Silva, Margarida Correia-Neves, Patrick Trieu-Cuot and Paula Ferreira

INFECTION AND VACCINES | POSTER 42

TLR9 activation plays a protective role early after infection with *Paracoccidioides brasiliensis*

João Menino, Ana Georgina, Diogo Silva, Agostinho Carvalho, Luigina Romani, Margarida Saraiva, Jorge Pedrosa, António Gil Castro, Fernando Rodrigues

INFECTION AND VACCINES | POSTER 43

Differential TLR recognition of *Mycobacterium tuberculosis* strains modulates innate immunity with an impact on the outcome of infection

Jenny Carmona, Andrea Cruz, Lúcia Moreira-Teixeira, Carole Sousa, Jeremy Sousa, Nuno S. Osório, Ana L. Saraiva, Stefan Svenson, Gunilla Kallenius, Jorge Pedrosa, Fernando Rodrigues, António G. Castro and Margarida Saraiva

INFECTION AND VACCINES | POSTER 44

Alterations in the peripheral blood B cell subpopulations of multidrug resistant tuberculosis patients

Mónica T. Abreu, Helena Carneiro, Tiago Rodrigues-Sousa, António Domingos, Paulo Rodrigues-Santos, M Margarida Souto-Carneiro

INFECTION AND VACCINES | POSTER 45

Evidence for diversifying selection in *Mycobacterium tuberculosis* in response to antibiotic and non-antibiotic related pressure

Nuno S. Osório, Fernando Rodrigues, Sebastien Gagneux, Jorge Pedrosa, António G. Castro, Douglas Young, Inaki Comas and Margarida Saraiva

ALLERGY | POSTER 46

Basophil degranulation test in the diagnosis of allergy to drugs: Clinical case

Esmeralda Neves, Judite Guimarães, Marta Gomes, Eva Gomes, Conceição Cerveira

IMMUNODEFICIENCY | POSTER 47

Fabry and Gaucher disease patients present specific alterations in invariant Natural Killer T cells

Catia S. Pereira, M. Luz Maia¹, Ana F. Dias¹, Filippo Vairo, Olga Azevedo, Esmeralda Rodrigues, Teresa Cardoso, Esmeralda Martins, Ida V.D. Schwartz, Elisa L. Teles, Clara Sa-Miranda, M. Fatima Macedo

IMMUNODEFICIENCY | POSTER 48A

Gut CD4 T-cell depletion in Chronic Granulomatous Disease

Adriana S. Albuquerque, Susana L. Silva, Ana Isabel Pinheiro, Rui Anjos, Miguel Abecasis, Rui M.M. Victorino, Ana E. Sousa

IMMUNODEFICIENCY | POSTER 48B

Naive-like regulatory CD4 T-cells in adults submitted to thymectomy early in life

Adriana S. Albuquerque, Susana M. Fernandes, Ana R. Pires¹, Alcinda C. Melo, Luís Correia, Emilia Oliveira, Cristina Ferreira, Susana L. Silva, Rui M.M. Victorino, Ana E. Sousa

IMMUNODEFICIENCY | POSTER 49

Infliximab treatment in a CVID patient with severe non-infectious manifestations

Ana Serra-Caetano, Sara Pereira da Silva, Susana L. Silva, Rita R. Barbosa¹, Alcinda Melo, Leonor Viegas Paulos, Manuela Costa, João Eurico Fonseca, Manuel Pereira Barbosa, Ana E. Sousa

IMMUNODEFICIENCY | POSTER 50

Major IL-22 depletion in the gut of long-term treated HIV-1 infected individuals

Susana M. Fernandes, Ana R. Pires, Cristina Ferreira, Russell B. Foxall, Henrique Veiga-Fernandes, Ana E. Sousa

IMMUNODEFICIENCY | POSTER 51

miR-34c-5p at the crossroads of human naive CD4 T-cell activation and HIV infection

Ana Margarida Matos, Russell B Foxall, Andreia J Amaral, Jorge Andrade, Paula Matoso, Mariana Santa-Marta, Rita Tendeiro, Ana Serra-Caetano, Rui S Soares, João Gonçalves, Margarida Gama-Carvalho, Ana E Sousa

IMMUNODEFICIENCY | POSTER 52

BAFF-R and TACI expression in Common Variable Immunodeficiency – insights into receptor dynamics

Rita R. Barbosa, Susana L. Silva, Sara P. Silva, Alcinda Campos Melo, M. Conceição Pereira-Santos, João T. Barata, Ana E. Sousa

IMMUNODEFICIENCY | POSTER 53

Thymic Activity and Regulatory T cells in the Immune Reconstitution of HIV infected Individuals: Two (In)Dependent Factors?

Vitor Coutinho-Teixeira, Claudia Nobrega, Ana Horta, Pedro Amorim-Machado, Palmira Barreira-Silva, Susana Boavida³, Patrício Costa, Rui Sarmento-Castro, António Gil Castro, Margarida Correia-Neves

IMMUNODEFICIENCY | POSTER 54

Total Deficiency of C4 Complement factor: From Hemolytic Autoimmune Anemia to Autoimmune Hepatitis – Journey to the Elder Age

Fabiana Sousa, Raquel Faria, Sofia Santos, Bruno Brochado and Carlos Vasconcelos

IMMUNODEFICIENCY | POSTER 55

Genome-wide analysis of Chronic Granulomatous Disease peripheral blood reveals an upregulation of B cell-development genes

M Margarida Souto-Carneiro, Júlia Vasconcelos, Margarida Guedes, Laura Marques, Esmeralda Neves, Marjo Linja, Tiina Kelkka⁵, Riitta Lahesmaa, Rikard Holmdahl, Paulo Rodrigues-Santos

AUTOIMMUNITY | POSTER 56

Spontaneous autoimmunity in two models of TGF-beta deficiency is microbiota independent

Ana-Catarina Martins, Joana Bom, Marie-Louise Bergman, Tânia Carvalho, Mark Travis, and Jocelyne Demengeot

AUTOIMMUNITY | POSTER 57

Regulatory T-cells, CD25 and IL2RA genetic variation in unaffected relatives of SLE patients

N. Costa, O. Marques, S. Godinho, C. Carvalho, B. Leal, C. Vasconcelos, M.F. Moraes-Fontes, A. Gomes da Costa, C. Ponte, R. Marques, T. Coias, A.R. Martins, J.F. Viana, B. Martins, C. Fesel

AUTOIMMUNITY | POSTER 58

The association between the polymorphism of ACE I/D and its serum activity as an integrated biomarker for Systemic Lupus Erythematosus (SLE)

Ângela Gil, Andreia Matos, Joana Ferreira, Cláudia Marinho, Manuel Bicho, Carlos Ferreira

AUTOIMMUNITY | POSTER 59

Alterations in CD8⁺ T cell subsets in synovial fluid and peripheral blood of patients with Rheumatoid Arthritis

Helena Carvalheiro, Sandra Silva-Cardoso, Cátia Duarte, Tiago Rodrigues-Sousa, José António Pereira da Silva and Maria Margarida Souto-Carneiro

AUTOIMMUNITY | POSTER 60

Mild cognitive Impairment and Alzheimer's disease patients present alterations in the peripheral B cell functional subsets

Milene Goncalves, Isabel Santana, Catarina Cunha, Vera Alves, Paulo Rodrigues-Santos, Margarida Souto-Carneiro

AUTOIMMUNITY | POSTER 61

Ncf1/p47^{phox}-mutant B10.Q mice develop a severe chronic DSS-induced colitis as a consequence of deficient production of reactive oxygen species

Tiago Rodrigues-Sousa, Ana Filipa Ladeirinha, Helena Carvalheiro, Bruno Raposo, Ana Alarcão, António Cabrita, Rikard Holmdahl, Lina Carvalho, Paulo Rodrigues-Santos, M Margarida Souto-Carneiro

BIOMATERIALS & TECHNIQUES | POSTER 62

Inflammatory Reaction to 3D Porous Chitosan Scaffolds with Distinct Degrees of Acetylation: Differences in the Macrophage Response

Vasconcelos D, Monteiro C, Amaral IF, Barbosa MA, Águas AP and Barbosa JN

BIOMATERIALS & TECHNIQUES | POSTER 63

Advance Flow Cytometry Unit

Catarina Leitão

BIOMATERIALS & TECHNIQUES | POSTER 64

Incorporation of inflammatory signals in biomaterials modulates human NK cell behavior leading to improved MSC recruitment

Catarina R. Almeida, Daniela P. Vasconcelos, Raquel M. Gonçalves, Mário A. Barbosa

BIOMATERIALS & TECHNIQUES | POSTER 65

Immunotherapeutic potential of mannosylated nanoparticles

Daniela Barros, Sofia Costa Lima & Anabela Cordeiro da Silva

