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DECEMBER 14th - 15th, 2023

ALICANTE - WINTER IMMUNOLOGY SYMPOSIUM IN HEALTH



Sociedad Española
de Inmunología



Universidad de Alicante



JEAN BOULLE GROUP



International Union of Immunological Societies



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WELCOME LETTER



Dear Friends and Colleagues,

On behalf of the Spanish Society of Immunology (SEI), the University of Alicante (UA), and the International Union of Immunological Societies (IUIS), it is with great pleasure that we announce the third international Alicante-Winter Immunology Symposium in Health (A-WISH3), which is taking place on December 14th-15th 2023 in the city of Alicante, Spain.

The main objective of this symposium is to promote the development and advancement of immunology through innovative therapeutic approaches that target immune-based diseases. The symposium will address the critical role of 1) cellular therapies; including of (CAR)-expressing T cells, NK and macrophages; 2) small-molecule and immune checkpoint inhibitors; and 3) nanotherapy and mRNA vaccines against cancer, infection, autoimmunity and transplantation.

Following the symposium, we will recognize a research team work that transformed our understanding or treatment of immune based disease with the BOULLE-SEI Awards. These awards honor the Royal Philanthropic Vaccine Expedition led by the surgeon from Alicante, Francisco Javier de Balmis and Isabel Zendal between 1803 and 1806 and are intended to recognize the team behind the work, rather than the individual.

On behalf of the Executive, Organizing and Scientific Committees my colleague Jordi Ochando and I thank all the participants for joining us and our sponsors for their effort to make this third A-WISH a great scientific international event.

Jordi Ochando
President, A-WISH 2023

Miriam Merad
Honorary President, A-WISH 2023

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COMMITTEES

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Amparo Navarro Faure

Vice-President

Marcos López-Hoyos

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Carmen Cámara

Treasurer:

José Miguel Sempere

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Daniel Lozano-Ojalvo

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PROGRAMME AT A GLANCE

THURSDAY, 14TH OF DECEMBER 2023

10:00	MEETING REGISTRATION OPENS
CÁMARA ROOM	
11:00 - 13:00	PRE-MEETING SYMPOSIUM: ORAL PRESENTATIONS
13:00 - 14:00	LUNCH BREAK
CRISTAL ROOM	
14:00 - 16:00	POSTER PRESENTATIONS
CÁMARA ROOM	
17:00 - 18:00	SYMPOSIUM WELCOME & TRAIN YOUR IMMUNITY AWARDS
18:00 - 20:00	SESSION 1. CELL THERAPY

FRIDAY, 15TH OF DECEMBER 2023

CÁMARA ROOM	
09:30 - 11:00	SESSION 2. IMMUNOTHERAPY BEYOND CANCER
11:00 - 11:30	COFFEE BREAK
11:30 - 13:30	SESSION 3. IMMUNE CHECKPOINT AND METABOLISM
13:30 - 14:30	LUNCH BREAK
14:30 - 17:00	SESSION 4. BIOMARKERS & EMERGING TECHNOLOGIES
17:00 - 17:30	COFFEE BREAK
17:30 - 20:00	CLOSING SESSION & AWARD CEREMONY

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SCIENTIFIC PROGRAMME

THURSDAY, 14TH OF DECEMBER 2023

10:30

MEETING REGISTRATION OPENS

11:00-13:00

Cámara
Room

PRE-MEETING SYMPOSIUM: ORAL PRESENTATIONS

Moderators:

María Casanova-Acebes. *Spanish National Cancer Research Center (CNIO), Spain.*

Eduardo López Granados. *University Hospital La Paz, Spain.*

O-01. DIFFERENCES IN CAR-T CELL KINETICS MONITORED BY MULTIPARAMETRIC FLOW CYTOMETRY: PEDIATRIC VS ADULT PATIENTS.

Cuesta Martín De La Cámara, Ricardo¹; Aguilar Criado, Daniela¹; Miguel Berenguel, Laura¹; Martínez Feito, Ana²; López Granados, Eduardo³; Mirones Aguilar, Isabel⁴; González Martínez, Berta⁵; Pérez-Martínez, Antonio⁵; Sánchez Vadillo, Irene⁶; Jiménez Yuste, Víctor⁶; Sánchez Zapardiel, Elena².

¹La Paz University Hospital, Department of Immunology; ²La Paz University Hospital, Department of Immunology; La Paz Institute of Biomedical Research (IdiPAZ); ³La Paz University Hospital, Department of Immunology; La Paz Institute of Biomedical Research (IdiPAZ); Centre for Biomedical Network Research on Rare Diseases (CIBERER U767); ⁴La Paz University Hospital, Advanced Therapy Medicinal Products Production Unit, Haemato-Oncology Department; ⁵La Paz University Hospital, Department of Paediatric Haemato-Oncology; La Paz University Hospital, Translational Research Unit in Paediatric Haemato-Oncology, Hematopoietic Stem Cell transplantation and Cell Therapy; ⁶La Paz University Hospital, Department of Haematology.

O-02. PROGRESS TOWARDS A PATIENT-SPECIFIC MONOCLONAL ANTIBODY IN SEZARY SYNDROME.

Herrero Alonso, Marta¹; Marín, Ana V.¹; F. Megino, Rebeca¹; Dominguez, Mercedes²; Moreno, Inmaculada²; Gaspar, María L.¹; Viñuela Martín, Marcos³; Real Arévalo, Irene³; Subiza, José L.⁴; Ramiro, Almudena⁵; Cortegano, Isabel²; Regueiro, José R.¹.

¹Universidad Complutense de Madrid; ²Servicio de Inmunología Microbiana, Centro Nacional de Microbiología, Instituto de Investigación Carlos III; ³Clinical Immunology-Experimental and Surgery Department, Hospital Clínico Universitario San Carlos; ⁴Inmunotek; ⁵Spanish National Centre for Cardiovascular Research | CNIC · Department of Vascular Biology and Inflammation.

O-03. BOOSTING CAR-T THERAPY IN OSTEOSARCOMA: OVERCOMING BARRIERS AND EXPLORING COMBINATION STRATEGIES.

García-Rodríguez, Patricia¹; Hidalgo, Laura¹; Rodríguez-Milla, Miguel Ángel¹; Cubillo, Isabel¹; Moreno, Rafael²; Perez-Martinez, Antonio³; Garcia-Castro, Javier¹.

¹Instituto de Salud Carlos III; ²IDIBELL; ³IdiPaz.

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O-04. RNA-BASED CELL FATE REPROGRAMMING FOR CANCER IMMUNOTHERAPY

Lourenço Vaz, Beatriz¹; Arh, Nejc²; F. Rosa, Fábio³; Pereira, Carlos-Filipe⁴.

¹CNC-UC - Centre for Neuroscience and Cell Biology, University of Coimbra, Coimbra, 3004-517, Portugal; ²Molecular Medicine and Gene Therapy, Lund Stem Cell Centre, Lund University, BMC A12, 221 84 Lund, Sweden/ Wallenberg Centre for Molecular Medicine, Lund University, BMC A12, 221 84 Lund, Sweden; ³Asgard Therapeutics AB, Medicon Village, 223 63 Lund, Sweden; ⁴Centre for Neuroscience and Cell Biology, University of Coimbra, Coimbra, 3004-517, Portugal/ Molecular Medicine and Gene Therapy, Lund Stem Cell Centre, Lund University, BMC A12, 221 84 Lund, Sweden/ Wallenberg Centre for Molecular Medicine, Lund University, BMC A12, 221 84 Lund, Sweden/ Asgard Therapeutics AB, Medicon Village, 223 63 Lund, Sweden.

O-05. DUAL-TARGETED CAR-T CELLS SECRETING T CELL ENGAGERS ELICIT ENHANCED CYTOTOXIC RESPONSES COMPARED TO TANDEM CAR-T CELLS

Arroyo-Ródenas, Javier¹; Díez-Alonso, Laura¹; Falgas, Aida²; Martínez-Moreno, Alba²; Gil-Etayo, Javier¹; Aguilar-Sopeña, Óscar³; Velasco-Sidro, Miriam¹; Bravo Martín, Clara³; Ramírez-Fernández, Ángel¹; Blanco, Belén¹; Roda-Navarro, Pedro⁴; Bueno, Clara²; Menéndez, Pablo²; Álvarez-Vallina, Luis¹.

¹Hospital Universitario 12 de Octubre; ²Josep Carreras Leukaemia Research Institute; ³Universidad Complutense; ⁴Universidad Complutense de Madrid.

O-06. INFECTIOUS BURSAL DISEASE VIRUS (IBDV) AS A POTENTIAL ONCOLYTIC VIROTHERAPY AGAINST DIFFERENT TUMOR MODELS

Tur Planells, Vicent¹; Bykov, Yonina²; Dawodu, Gloria²; García, Noemi³; Rius, Sergio¹; Arranz, Javier¹; Rodríguez, Dolores⁴; Rodríguez, Jose Francisco⁴; Ayuso, Angel³; García Sastre, Adolfo²; Nistal Villán, Estanislao¹; Cuadrado Castaño, Sara².

¹CEU San Pablo University; ²Icahn School of Medicine at Mount Sinai; ³Francisco de Vitoria University; ⁴Centro Nacional de Biotecnología.

13:00-14:00

Lunch break

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14:00-16:00

Cristal Room

POSTER PRESENTATIONS

Evaluators:

- Pascual Martínez. *University of Alicante (UA), Spain.*
- Jana Baranda. *San Pablo University (CEU), Spain.*
- Rafael Sirera. *Universidad Politécnica de Valencia (UPV), Spain*
- Carmela Cela. *Young SEI Group (GJSEI), Spain.*

P1-01. STAB-T THERAPY FOR MULTIPLE MYELOMA: T LYMPHOCYTES SECRETING T CELL ENGAGERS (STAB-T CELLS) DEMONSTRATE SUPERIOR ANTITUMOR ACTIVITY THAN CAR-T CELLS.

Blanco, Belén¹; Díez-Alonso, Laura¹; Falgás, Aïda²; Gómez-Rosel, Marina¹; Jiménez-Reinoso, Anaïs¹; Romencín, Paola A²; Aguilar-Sopeña, Óscar³; Ramírez-Fernández, Ángel¹; Jara, María⁴; Solé, Francesc²; Valeri, Antonio⁵; García-Ortiz, Almudena⁵; Juan, Manel⁶; Martínez-López, Joaquín⁵; Roda-Navarro, Pedro³; Martín-Antonio, Beatriz⁷; Orfao, Alberto⁴; Méndez, Pablo⁸; Bueno, Clara⁹; Álvarez Vallina, Luis¹.

¹Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre, Madrid/Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria Hospital 12 de Octubre (imas12), H12O-CNIO Cancer Immunotherapy Clinical Research Unit, Centro Nacional de Investigaciones Oncológicas (CNIO), Madrid; ²Josep Carreras Leukaemia Research Institute; ³Department of Immunology, Ophthalmology and ENT, School of Medicine, Universidad Complutense Lymphocyte Immunobiology Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12); ⁴Cancer Research Center (IBMCC, USAL-CSIC), Department of Medicine and Cytometry Service (NUCLEUS), Universidad de Salamanca Centro de Investigación Biomédica en Red-Oncología (CIBERONC), Instituto de Salud Carlos III, Madrid Biomedical Research Institute of Salamanca (IBSAL), Salamanca.; ⁵Hospital Universitario 12 de Octubre-Centro Nacional de Investigaciones Oncológicas (H12O-CNIO) Hematological Malignancies Clinical Research Unit, Spanish National Cancer Research Centre, Department of Hematology, Hospital Universitario 12 de Octubre-Universidad Complutense, Instituto de Investigación Sanitaria Hospital 12 de Octubre (imas12); ⁶Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Hospital Clinic de Barcelona. Servei d'Immunologia, Hospital Clínic de Barcelona Plataforma Immunoterapia, Hospital Sant Joan de Deu Universitat de Barcelona; ⁷Department of Experimental Hematology, Instituto de Investigación Sanitaria Fundación Jiménez Díaz, (IIS-FJD), UAM; ⁸Josep Carreras Leukaemia Research Institute; Red Española de Terapias Avanzadas (TERAV), Instituto de Salud Carlos III, Centro de Investigación Biomédica en Red-Oncología (CIBERONC), Instituto de Salud Carlos III Department of Biomedicine, School of Medicine, Universitat de Barcelona Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona.; ⁹Josep Carreras Leukaemia Research Institute, Barcelona Red Española de Terapias Avanzadas (TERAV), Instituto de Salud Carlos III, Madrid Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBERER), Instituto de Salud Carlos III, Madrid.

P1-02. GENOME MANIPULATION OF PARASITIC NEMATODES: FROM VACCINE DEVELOPMENT TO DRUG DISCOVERY.

Quinzo Albiño, Mónica Johana.

CNM-ISCIIL.

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P1-03. CD4⁺ TUMOR-INFILTRATING LYMPHOCYTES SECRETING T CELL-ENGAGERS INDUCE REGRESSION OF AUTOLOGOUS PATIENT-DERIVED NON-SMALL CELL LUNG CANCER XENOGRAPTS

Jiménez-Reinoso, Anaís¹; Molero-Abraham, Magdalena²; Cirauqui, Cristina³; Blanco, Belén¹; Garrido-Martin, Eva M.⁴; Nehme-Álvarez, Daniel⁵; Domínguez-Alonso, Carmen¹; Ramírez-Fernández, Ángel¹; Díez-Alonso, Laura¹; Nuñez-Buiza, Ángel³; González-Murillo, África⁶; Tobes, Raquel⁷; Pareja, Eduardo⁷; Ramírez-Orellana, Manuel⁶; Rodríguez-Peralto, José L.⁸; Ferrer, Irene⁹; Zugazagoitia, Jon¹⁰; Paz-Ares, Luis¹¹; Álvarez-Vallina, Luis¹.

¹Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre. Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12). H12O-CNIO Cancer Immunotherapy Clinical Research Unit, Centro Nacional de Investigaciones Oncológicas (CNIO).; ²Tumor Microenvironment and Immunotherapy Research Group, imas12. H12O-CNIO Lung Cancer Clinical Research Unit, Instituto de Investigación Sanitaria 12 de Octubre (imas12), CNIO.; ³H12O-CNIO Lung Cancer Clinical Research Unit, Instituto de Investigación Sanitaria 12 de Octubre (imas12), CNIO.; ⁴H12O-CNIO Lung Cancer Clinical Research Unit, Instituto de Investigación Sanitaria 12 de Octubre (imas12), CNIO. Spanish Center for Biomedical Research Network in Oncology (CIBERONC). Cell Biology. Research and Development. Oncology Business Unit. PharmaMar.; ⁵Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre. Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12).; ⁶Advanced Therapies Unit, Oncology, Hospital Infantil Universitario Niño Jesús. Fundación de Investigación Biomédica, Hospital Infantil Universitario Niño Jesús. Instituto de Investigación Sanitaria La Princesa.; ⁷Alamo blanco Research Association; ⁸Spanish Center for Biomedical Research Network in Oncology (CIBERONC). Department of Pathology, Hospital Universitario 12 de Octubre. Department of Pathology, Complutense University. Cutaneous Oncology Group, imas12.; ⁹H12O-CNIO Lung Cancer Clinical Research Unit, Instituto de Investigación Sanitaria 12 de Octubre (imas12), CNIO. Spanish Center for Biomedical Research Network in Oncology (CIBERONC); ¹⁰Tumor Microenvironment and Immunotherapy Research Group, imas12. H12O-CNIO Lung Cancer Clinical Research Unit, Instituto de Investigación Sanitaria 12 de Octubre (imas12), CNIO. Spanish Center for Biomedical Research Network in Oncology (CIBERONC). Department of Medical Oncology, Hospital Universitario 12 de Octubre; ¹¹H12O-CNIO Lung Cancer Clinical Research Unit, Instituto de Investigación Sanitaria 12 de Octubre (imas12), CNIO. Spanish Center for Biomedical Research Network in Oncology (CIBERONC). Department of Medical Oncology, Hospital Universitario 12 de Octubre. Department of Medicine, Complutense University.

P1-04. DEEP NECROTIC SKIN ULCERS AS AN ADVERSE EFFECT OF SUBCUTANEOUS IMMUNOGLOBULINS FACILITATED BY HYALURONIC ACID

Fernández Cabrera, Helena; Ferranti, Andrea Carolina; Vasquez Reyes, Paulina; Iguasnia Portilla, Brayan Daniel; García Trujillo, Jose Antonio; Fernández Pereira, Luis Miguel.

Hospital San Pedro de Alcántara.

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P1-05. A PD-L1/EGFR BISPECIFIC ANTIBODY COMBINES IMMUNE CHECKPOINT BLOCKADE AND DIRECT ANTI-CANCER ACTION FOR AN ENHANCED ANTI-TUMOR RESPONSE

Rubio Pérez, Laura¹; Lázaro-Gorines, Rodrigo²; Harwood, Seandean L.³; Compte, Marta⁴; Navarro, Rocío⁴; Tapia-Galisteo, Antonio⁵; Bonet, Jaume⁶; Blanco, Belén⁵; Lykkemark, Simon⁷; Ramírez-Fernández, Ángel⁸; Ferreras-Gutiérrez, Mariola⁹; Domínguez-Alonso, Carmen⁸; Díez-Alonso, Laura⁸; Segura-Tudela, Alejandro⁸; Hangiu, Oana¹⁰; Erce-Llamazares, Ainhoa¹⁰; Blanco, Francisco J.⁹; Santos, Cruz¹¹; Rodríguez-Peralto, José L.¹²; Sanz, Laura¹³; Álvarez Vallina, Luis¹⁴.

¹Unidad de Inmunoterapia del Cáncer, Hospital 12 de Octubre; ²Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre; Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12); H12O-CNIO Cancer Immunotherapy Clinical Research Unit, Spanish National Cancer Research Centre (CNIO); ³Department of Molecular Biology and Genetics, Aarhus University; ⁴Department of Antibody Engineering, Leadartis SL, QUBE Technology Park; ⁵Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre; Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12); H12O-CNIO Cancer Immunotherapy Clinical Research Unit, Spanish National Cancer Research Centre (CNIO); ⁶g Institute of Bioengineering, École Polytechnique Fédérale de Lausanne; ⁷Immunotherapy and Cell Engineering Laboratory, Department of Engineering, Aarhus University; ⁸Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre; Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12); H12O-CNIO Cancer Immunotherapy Clinical Research Unit, Spanish National Cancer Research Centre (CNIO); ⁹Centro de Investigaciones Biológicas Margarita Salas (CIB), CSIC; ¹⁰Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital Universitario 12 de Octubre; Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12); Department of Antibody Engineering, Leadartis SL, QUBE Technology Park; ¹¹Faculty of Experimental Sciences, Universidad Francisco de Vitoria (UFV); ¹²Department of Pathology, Hospital Universitario 12 de Octubre; Department of Pathology, Universidad Complutense, Madrid, Spain; Cutaneous Oncology Group, Instituto de Investigación Sanitaria 12 de Octubre (imas12); Centro de Investigación Biomédica en Red en Oncología (CIBERONC); ¹³Centro de Investigación Biomédica en Red en Oncología (CIBERONC); Molecular Immunology Unit, Hospital Universitario Puerta de Hierro; ¹⁴Cancer Immunotherapy Unit (UNICA), Department of Immunology, Hospital 12 de octubre; Immuno-Oncology and Immunotherapy Group, Instituto de Investigación Sanitaria 12 de octubre (imas12); H12O-CNIO Cancer Immunotherapy Clinical REsearch Unit, Spanish National Cancer Research Center (CNIO); Chair for Immunology UFV/Merck, Universidad Francisco de Vitoria (UFV).

P1-06. EFFECTIVE MANAGEMENT OF HEREDITARY ANGIOEDEMA WITH LANADELUMAB: A CASE SERIES

Ferranti-Ramos, Andrea; Vázquez Reyes, Paulina; Fernández Cabrera, Helena; Porcel Carreño, Sergio; Romero Chala, Silvia; Fernández Pereira, Luis Miguel.

Complejo Hospitalario Universitario de Cáceres.

P1-07. TAP-INDEPENDENT PRESENTATION DURING A CYTOMEGALOVIRUS INFECTION.

Rodríguez-Rojas, Cristina; C. Méndez, Andrea; Mena-Romero, Beatriz; Antón, Luis C.; Del Val, Margarita.

CBMSO (CSIC).

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P1-08. BACTERIORUBERIN-INDUCED APOPTOSIS: A POTENTIAL NATURAL ANTITUMOR STRATEGY AGAINST MYELOID LEUKEMIA

Baeza-Morales, Andrés; Medina-García, Miguel; Pujalte-Satorre, Carolina; Giani, Micaela; Pascual-García, Sandra; Martínez-Peinado, Pascual; López-Jaén, Ana Belén; Martínez-Espinosa, Rosa María; Sempere-Ortells, José Miguel.

University of Alicante.

P1-09. UNCONVENTIONAL ACTIVATION OF THE IRE1-XBP1 BRANCH OF THE UPR IS A HOST FACTOR INVOLVED IN THE IMMUNOPATHOLOGY OF SARS-COV-2

Fernández, Jose Javier¹; Fernández, Nieves²; Sánchez Crespo, Mariano³.

¹CIB; ²UVa; ³IBGM.

P1-10. CONDITIONED MEDIA FROM MSCS PROMOTE AN ANTI-INFLAMMATORY AND IMMUNOSUPPRESSANT EFFECT OF PBMCS FROM RA PATIENTS THROUGH THE ACTIVATION OF CTLA-4 AND PD-1 MARKERS.

Pujalte Satorre, Carolina¹; Pascual García, Sandra¹; Baeza Morales, Andrés¹; Medina García, Miguel¹; Martínez Peinado, Pascual¹; Navarro Sempere, Alicia¹; Navarro Blasco, Francisco Javier²; Romera López, Cynthia²; Esteve Girbés, Jordi¹; López Jaén, Ana Belén¹; Sempere Ortells, José Miguel¹.

¹University of Alicante; ²Hospital General Universitario de Elche.

P1-11. CAN A LUNG TRANSPLANT BE AVOIDED THROUGH TREATMENT WITH INTRAVENOUS IMMUNOGLOBULINS?

Mendoza Bravo, Daniel Albert; De Andrés Martín, Ana; Stewart Delcid, Vivian Lizeth; Ferrez Hernández, Celia; Garcia De La Torre, Iván; Manterola Navarro, Elena.

Hospital Universitario Ramon y Cajal.

P1-12. TRAINED IMMUNITY IS INDUCED BY HEAT-KILLED MYCOBACTERIUM TUBERCULOSIS WHEN ADMINISTERED IN VIVO AND IN VITRO

Bravo-Robles, Laura¹; Minute, Luna¹; Bergón-Gutiérrez, Marta¹; Mata-Martínez, Pablo²; Fernández-Pascual, Jaime¹; Terrón, Verónica¹; Bıçakcıoğlu, Gülce¹; Zapata-Fernández, Gabriela¹; Aguilo, Nacho³; López-Collazo, Eduardo¹; Del Fresno, Carlos¹.

¹IdiPAZ; ²IdiPAZ and INMUNOTEK S.L.; ³Departamento de Microbiología, Pediatría, Radiología y Salud Pública, Universidad de Zaragoza/IIS.

P1-13. ABATACEPT: A PROMISING TARGETED TREATMENT FOR CTLA-4 HAPLOINSUFFICIENCY

Jurado Orozco, Alicia; Morales Garcia, Carmen; Muñoz García, Raquel; Lucena Soto, Jose Manuel.

HU Virgen Rocío.

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P1-14. IMMUNOMODULATORY CAPACITY OF BACTERIORUBERIN ON PERIPHERAL BLOOD MONONUCLEAR CELLS (PBMCs)

Medina García, Miguel; Baeza Morales, Andrés; Pujalte Satorre, Carolina; Martínez Peinado, Pascual; Pascual García, Sandra; Giani Alonso, Micaela; Martínez Espinosa, Rosa María; Sempere Ortells, José Miguel.

Universidad de Alicante.

P1-15. ABATACEPT: OUR EXPERIENCE IN A PATIENT WITH LONG-TERM EVOLUTION CTLA4 HAPLOINSUFFICIENCY

Calvet Lacruz, Anna; Franco Leyva, Teresa; Bravo Gómez, Andrea Carolina; Boera Carnicero, Gemma; Calahorro Aguilar, Verónica; Roca Cano, Indra; Martínez Martínez, Laura; De La Calle Martín, Óscar.

Hospital de la Santa Creu i Sant Pau.

P1-16. ACQUISITION OF THE EMBRYONIC PROGRAM BY MYELOID-DERIVED MACROPHAGES UNDERLIES ASYMMETRICAL, CONVERGENT EPIGENETIC PROFILES.

De La Calle-Fabregat, Carlos; Dunsmore, Garrett; Blériot, Camille; Ginhoux, Florent.

Institut Gustave Roussy.

P1-18. ANALYSIS OF THE INFLUENZA A VIRUS AND STAPHYLOCOCCUS AUREUS COINFECTION OVER THE INFLAMMATORY RESPONSE OF BMDM AND BACTERIAL PERSISTENCE.

Inchausti-Moya, Inés; Reche Sainz, María Paloma; Nistal-Villan, Estanislao; Rius-Rocabert, Sergio.

San Pablo CEU University

P1-19. THE NLRP3 INFLAMMASOME IS ACTIVATED BY HEMIN AND IS IMPLICATED IN RENAL DAMAGE ASSOCIATED WITH HEMOLYTIC DISEASES

Caballero Herrero, María Josefa¹; Beltrán-Camacho, Lucía²; Vallejo-Mudarra, Mercedes²; Sánchez-Arcas, Lucía²; García-Caballero, Cristina²; Jumilla, Esther¹; Pérez Olmos, Antonio¹; Arias Sanchez, Celia¹; Pelegrin, Pablo³; Cuevas González, Santiago¹; Antonio Moreno, Juan².

¹FFIS-IMIB; ²IMIBIC; ³IMIB-University of Murcia(Department of Biochemistry and Molecular Biology B and Immunology).

P2-01. DEVELOPMENT AND OPTIMIZATION OF A COMBINATORIAL CAR-T CELL THERAPY FOR AML TO OVERCOME ON TARGET - OFF TUMOR RESPONSES

Horndler, Lydia¹; Merino, Javier¹; Prieto, Cristina¹; Köhler, Natalia²; Minguet, Susana³; Zeiser, Robert²; Van Santen, Hisse¹.

¹CSIC; ²Medical School of University of Freiburg; ³University of Freiburg.

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P2-02. IMMUNOMODULATORY TREATMENT WITH INTRAVENOUS IMMUNOGLOBULINS IN WOMEN WITH ALLOIMMUNE REPRODUCTIVE FAILURE: OUR EXPERIENCE IN 8 YEARS.

Vásquez Reyes, Paulina Belén; Fernandez Cabrera, Helena; Ferranti Ramos, Andrea; Vergara Prieto, Esther; Sobieschi, Oana Irina; Fernandez Pereira, Luis.

Hospital San Pedro de Alcántara.

P2-04. TUMOR CELL SECRETOME PLASTICITY IN RESISTANT HUMAN LEUKEMIC CELLS AS A KEY FACTOR IN THE USE OF ANTICANCER THERAPIES.

Cadenas Garrido, Paula¹; García Serna, Azahara M²; Parrado, Antonio²; Martínez García, Javier³; Cánovas, Manuel¹; De Diego Puente, Teresa¹; Saceda, Miguel⁴; Pelegrín, Pablo²; Martín-Orozco, Elena¹.

¹Universidad de Murcia; ²IMIB; ³Universidad de Zaragoza; ⁴Universidad Miguel Hernández.

P2-05. EXPLORING THE IMMUNOSUPPRESSIVE PROPERTIES OF LIPID-LADEN MACROPHAGES AND ITS CLONAL HEMATOPOIETIC ORIGIN IN OVARIAN CANCER

Martinez Pacheco, Sarai¹; Gómez Parrizas, Mónica¹; De Juan, Alba¹; Munarriz Paños, Mariola¹; Garvin Jiménez, Eduardo¹; Barrantes, Sandra¹; Sanguino, María Angeles²; Zuriaga Herrero, María Ángeles²; Fuster, José Javier²; Quail, Daniela³; Dimitri, Diletta⁴; Casanova Acebes, María¹.

¹Centro Nacional de Investigaciones Oncológicas; ²Centro Nacional de Investigaciones Cardiovasculares; ³The Goodman Cancer Institute; ⁴Instituto Clínico Humanitas IRCCS.

P2-06. A NEW AND FLEXIBLE VACCINE PLATFORM FOR PERSONALIZED CANCER IMMUNOTHERAPY

Barajas, Ana¹; Amengual-Rigo, Pep²; Pons-Grífols, Anna¹; Ortiz, Raquel¹; Gracia Carmona, Oriol²; Urrea, Victor¹; De La Iglesia, Núria¹; Blanco-Heredia, Juan¹; Anjos-Souza, Carla¹; Varela, Ismael¹; Trinité, Benjamin¹; Tarrés-Freixas, Ferran¹; Rovirosa, Carla¹; Lepore, Rosalba²; Vázquez, Miguel²; De Mattos-Arruda, Leticia¹; Valencia, Alfonso²; Clotet, Bonaventura¹; Aguilar-Gurrieri, Carmen¹; Guallar, Victor²; Carrillo, Jorge¹; Blanco, Julià¹.

¹IrsiCaixa AIDS Research Institute; ²Barcelona Supercomputing Center (BSC).

P2-07. SHORT ALANINE-BASED SPACERS INCLUDED IN POLY-NEOANTIGEN VACCINES IMPROVE PEPTIDE PROCESSING AND PRESENTATION TO CD8+ T CELLS

Aguilar-Gurrieri, Carmen; Barajas, Ana; Rovirosa, Carla; Ortiz, Raquel; Urrea, Victor; De La Iglesia, Núria; Clotet, Bonaventura; Blanco, Julià; Carrillo, Jorge.

IrsiCaixa AIDS Research Institute.

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P2-08. DENDRITIC CELL-MEDIATED CROSS-PRIMING BY A BISPECIFIC NEUTRALIZING ANTIBODY BOOSTS CYTOTOXIC T CELL RESPONSES AND PROTECTS MICE AGAINST SARS-COV-2

Lazaro Gorines, Rodrigo¹; Pérez, Patricia²; Heras, Ignacio³; Adán, Irene³; Segura, Alejandro⁴; Rubio, Laura⁴; Albericio, Guillermo²; Astorgano, David²; Luzkowiak, Joanna⁴; Labiod, Nuria⁴; Delgado, Rafa⁴; Weber, David⁵; Godoy, Raquel⁵; Muñoz, Inés¹; Blanco, Francisco⁶; Sancho, David³; García Arriaza, Juan²; Álvarez-Vallina, Luis¹.

¹Centro Nacional de Investigaciones Oncológicas; ²Centro Nacional de Biotecnología CNB-CSIC; ³Centro Nacional de Investigaciones Cardiovasculares; ⁴Hospital Universitario 12 de Octubre; ⁵Universidad de Maryland; ⁶Centro de Investigaciones Biológicas CSIC.

P2-09. UNRAVELLING DC SUBSETS AND STATES ACROSS HUMAN HEALTHY AND MALIGNANT TISSUES

Kong, Wan Ting¹; Mulder, Kevin¹; Dutertre, Charles-Antoine²; Ginhoux, Florent¹.

¹Institute Gustave Roussy; ²INSERM.

P2-10. MONITORING THE CELLULAR IMMUNE RESPONSE FOLLOWING SARS-COV-2 VACCINATION: A COMPARATIVE ANALYSIS OF AVAILABLE METHODS

Muñoz Martínez, Sara¹; Márquez Leiva, Inmaculada¹; Berges Buxeda, Marcos Joaquin¹; Baranda, Jana¹; González Pérez, María¹; Conde, Patricia¹; Lozano Ojalvo, Daniel²; Cámara, Carmen³; Ochando, Jordi¹.

¹Instituto de Salud Carlos III; ²Precision Immunology Institute, Icahn School of Medicine at Mount Sinai, ; ³Departamento de Inmunología, Hospital Universitario La Paz.

P2-11. IMPLEMENTATION OF DIGITAL PCR FOR MONITORING PATIENTS TREATED WITH CART-CELL THERAPY

Morales García, Carmen; Muñoz García, Raquel; Jurado Orozco, Alicia; García Lozano, Jose Raul; Lucena Soto, Jose Manuel.

Hospital Universitario Virgen del Rocío.

P2-12. EVALUATION OF COMMON IMMUNOSUPPRESSANTS ABILITY TO INHIBIT TRAINED IMMUNITY IN VITRO

Berges Buxeda, Marcos J.¹; Baranda, Jana²; González Pérez, María¹; Márquez Leiva, Inmaculada¹; Muñoz Martínez, Sara¹; Conde, Patricia¹; Lozano Ojalvo, Daniel³; Ochando, Jordi¹.

¹Instituto de Salud Carlos III; ²Universidad CEU San Pablo; ³Icahn School of Medicine at Mount Sinai.

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P2-13. THE EFFECT OF HIGH-SALT DIET IN THE IMMUNOLOGY AND DEVELOPMENT OF HEPATOCELLULAR CARCINOMA

Tzoumpa, Amalia; Lozano-Luiz, Beatriz; Huang, Yin; Picó, Joanna; Gómez, Melisa; Zapater, Pedro; González-Navajas, Jose Manuel.

Instituto de Investigación Sanitaria y Biomédica de Alicante (ISABIAL) & Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas (CIBERehd).

P2-14. TCR CDR3 SEQUENCE AS A TOOL TO FOLLOW UP SEZARY SYNDROME PATIENTS

Estevez-Benito, Ignacio; Chacon-Arguedas, D; Herrero-Alonso, M; Regueiro, José R; Marin, Ana V.

Complutense University of Madrid.

P2-15. MONITORIZATION OF THE CELLULAR IMMUNE RESPONSE TO SARS-COV-2 WITHIN THE EUROPEAN CLINICAL RESEARCH NETWORK VACCELERATE

Márquez Leiva, Inmaculada¹; Bergues-Buxeda, Marcos Joaquín¹; Muñoz-Martínez, Sara¹; Baranda, Jana¹; González-Pérez, María¹; Conde, Patricia¹; Cámara, Carmen²; Lozano-Ojalvo, Daniel¹; Ochando, Jordi¹.

¹*Instituto de Salud Carlos III*; ²*Hospital Universitario de La Paz.*

P2-16. NEW BIOMARKER FOR UNEXPAINED REPRODUCTIVE FAILURE

Gil Laborda, Raquel¹; Rodriguez De Frias, Edgar²; Subhi-Issa, Nabil²; De La Fuente, Eduardo²; Sanchez-Ramon, Silvia²; Fernandez-Arquero, Miguel².

¹*Hospital Clínico San Carlos*; ²*HCSC.*

P2-17. FLOW CYTOMETRY FOR TISAGENLECLEUCEL AND DUAL-TARGET ANTI-CD19/CD22 CART THERAPY MONITORING IN PEDIATRIC PATIENTS: A SINGLE CENTER EXPERIENCE

Miguel Berenguel, Laura¹; Cuesta Martín De La Cámara, Ricardo¹; Aguilar Concepción, Daniela¹; Martínez Feito, Ana²; López Granados, Eduardo³; Mirones Aguilar, Isabel⁴; González Martínez, Berta⁵; Pérez Martínez, Antonio⁵; Sánchez Zapardiel, Elena².

¹*La Paz University Hospital, Department of Immunology*; ²*La Paz University Hospital, Department of Immunology*; *La Paz Institute of Biomedical Research (IdiPAZ)*; ³*La Paz University Hospital, Department of Immunology*; *La Paz Institute of Biomedical Research (IdiPAZ)*; *Centre for Biomedical Network Research on Rare Diseases (CIBERER U767)*; ⁴*La Paz University Hospital, Advanced Therapy Medicinal Products Production Unit, Haemato-Oncology Department*; ⁵*La Paz University Hospital, Department of Paediatric Haemato-Oncology*; *La Paz University Hospital, Translational Research Unit in Paediatric Haemato-Oncology, Hematopoietic Stem Cell transplantation and Cell Therapy.*

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P2-18. CXCL9 AS BIOMARKER FOR TREATMENT ADJUSTMENT IN THE IMMUNOTHERAPY WITH EMAPALUMAB

Aguilar Concepción, Daniela¹; Miguel Berenguel, Laura¹; Cuesta Martín De La Cámara, Ricardo¹; Robles Marhuenda, Ángel²; Bardón Cancho, Eduardo Jesús³; García-Morin, Marina³; Cámara Hijón, Carmen¹.

¹Department of Immunology, Hospital Universitario La Paz; ²Department of Internal Medicine, Hospital Universitario La Paz; ³Department of Pediatric Hemato-oncology, Hospital Universitario Gregorio Marañón; Faculty of Medicine, Universidad Complutense de Madrid; Instituto de Investigación Sanitaria Gregorio Marañón.

P2-19. STRENGTHENED INFLUENZA IMMUNIZATION: VACCINATION PROTECTS AGAINST CO-INFECTION AND SUPERINFECTION BY INFLUENZA VIRUS AND STREPTOCOCCUS PNEUMONIAE

Arranz Herrero, Javier¹; García-Bernalt Diego, Juan²; Laghlali, Gabriel²; Park, Seokchan²; Singh, Gagandeep²; Chang, Lauren²; Ochando, Jordi³; Nistal-Villan, Estanislao¹; Schotsaert, Michael².

¹Fundacion Universitaria CEU San Pablo; ²Icahn School of Medicine at Mount Sinai; ³Instituto de Salud Carlos III.

17:00-18:00

Cámara
Room

SYMPOSIUM WELCOME & TRAIN YOUR IMMUNITY AWARDS

- Amparo Navarro Faure. *Dean of the University of Alicante (UA).*
- Jordi Cano Ochando. *President of the Symposium (A-WISH).*
- Marcos López Hoyos. *President of the Spanish Society for Immunology (SEI).*
- Silvia Sánchez Ramón. *President Elected of the Spanish Society for Immunology (SEI).*

18:00-20:00

Cámara
Room

SESSION 1. CELL THERAPY

Moderator:

África González. *University of Vigo, Spain.*

Driving CAR T cells.

Marcela Maus. *Massachusetts General Hospital (MGH), US.*

Driving CAR-T therapy from the academy to centralized authorization for use; a different and probably necessary option for a better future of ATMPs and their patients.

Manel Juan. *Clínica de Barcelona (HCB) Hospital, Spain.*

Naive T cell depleted hematopoietic graft and solid organ transplantation.

Antonio Pérez. *La Paz University Hospital, Spain.*

Empowering Cancer Immunotherapy with Cellular Reprogramming.

Filipe Pereira. *Lund University, Sweden.*

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FRIDAY, 15TH OF DECEMBER 2023

09:30-11:00

Cámara
Room

SESSION 2. IMMUNOTHERAPY BEYOND CANCER

Moderator:

Claudia Rita. *La Paz University Hospital, Spain.*

Immunotherapy in organ transplantation.

James Hutchinson. *University Hospital Regensburg, Germany.*

Use of organoids from human pluripotent stem cells.

Nuria Montserrat. *Institut de Bioenginyeria de Catalunya (IBEC), Spain.*

Control of inflammation after stem cell transplantation.

Robert Zeiser. *Medical Center-University of Freiburg, Germany.*

Immunotherapeutic Approaches to Address the Worldwide Epidemic of Food Allergy.

Hugh Sampson & Daniel Lozano-Ojalvo. *Icahn School of Medicine at Mount Sinai, USA.*

11:00-11:30

Coffee break

11:30-13:30

Cámara
Room

SESSION 3. IMMUNE CHECKPOINT AND METABOLISM

Moderator:

Francisco Marco. *Alicante University Hospital, Spain.*

Deciphering and translating CD137 (4-1BB)-based cancer immunotherapy

Ignacio Melero. *Clinic of the University of Navarra, Spain.*

Multispecific antibodies for enhanced cancer immunotherapy.

Luis Álvarez Vallina. *12 de octubre University Hospital, Spain.*

The role of cancer cells in dictating anti-tumor immune responses by modulation of specific metabolic pathways.

Elia Ilaria. *University of Leuven, Belgium.*

Anti-CTLA-4 immunotherapy.

Sharma and James Allison. *MD Anderson Cancer Center, USA.*

13:30-14:30

Lunch break

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14:30-17:00

Cámara
Room

SESSION 4. BIOMARKERS & EMERGING TECHNOLOGIES

Moderator:

Iria Gómez-Touriño. *University of Santiago de Compostela, Spain.*

Heterogeneity of Tumor Associated Macrophages.

Florent Ginhoux. *Gustave Roussy Cancer Center (GRCC), France.*

Multiplexing Functions of Myeloid Cells in Solid TMEs.

Maria Casanova-Acebes. *Spanish National Cancer Research Center (CNIO), Spain.*

Single cell multi-omics and cancer.

Roser Vilarrasa Blasi. *Wellcome Sanger Institute, UK.*

APMV-4 Cancer Virotherapy

Sara Cuadrado-Castaño. *Icahn School of Medicine at Mount Sinai, US.*

Radiotherapy and myeloid cells

Juliana Idoyaga. *Stanford University, US.*

17:00-17:30

Coffee break

17:30-20:00

Cámara
Room

CLOSING SESSION & AWARD CEREMONY

KEYNOTE LECTURER

Targetting telomeres in cancer and aging.

María Blasco. *Spanish National Cancer Research Center (CNIO), Spain.*

BOULLE-SEI AWARDS

Flirting with death. How dendritic cells perceive dying cancer cells.

Guido Kroemer. *European Hospital George Pompidou, France.*

The dirty secrets of cancer immunotherapy: the gut microbiome.

Lauren Zitvogel. *Gustave Roussy Cancer Center (GRCC), France.*

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GENERAL INFORMATION

CONGRESS VENUE

Auditorio de la Diputación de Alicante (ADDA)

Paseo Campoamor, 4
03010 Alicante

TECHNICAL SECRETARIAT

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DOCUMENTATION DELIVERY

The attendees' badges will be delivered at the Technical Secretariat desk from 10:00 a.m. to 7:30 p.m. on Thursday 14TH December 2023 and from 9:30 a.m. to 17:30 p.m. on Friday 16TH December 2023.

ACCESS

It would be required to show your attendee badge to access the Symposium room and to access the coffee and lunch breaks at the ADDA. The access to the virtual platform will be available from Thursday December 14TH 2023. The Technical Secretariat will provide all participants in advance with the access link, as well as username and password to access the virtual Congress.



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SOCIAL EVENTS

On-site registered participants are invited to attend the following social events (previous confirmation required):

WELCOME RECEPTION DINNER

Date: Thursday, December 14TH, 2023

Reception dinner start time: 21:00h

Location: Parque de la Ereta - 03001, Alicante

Transfers included: Onward transfer - Departure at 20:00h from ADDA (congress venue)

Return transfer: Departure at 23:00h, destination Hotel Meliá Alicante

GALA DINNER - FAREWELL PARTY

Date: Friday, December 15TH, 2023

Reception dinner start time: 21:00h

Location: Hotel Meliá Alicante - Salón Mediterráneo. Pl. Prta del Mar, 3, 03001 Alicante

Transfers included: Departure at 20:00h from ADDA (congress venue)

Important notes:

*You will be requested to present the formal invitation to the dinner (sent by the technical secretariat)

*Participants who fail to confirm their attendance will not be given the corresponding invitation.

TRANSFER SERVICES

THURSDAY, DECEMBER 14TH

9:00 AM

Departure from Hotel Meliá Alicante to ADDA (Congress venue)

20:00 PM

Departure from ADDA (Congress venue) to 'La Ereta' Restaurant

23:00 PM

Departure from 'La Ereta' Restaurant to Hotel Meliá Alicante

FRIDAY, DECEMBER 15TH

9:00 AM

Departure from Hotel Meliá Alicante to ADDA (Congress venue)

20:00h

Departure from ADDA (Congress venue) to Hotel Meliá Alicante

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¹ Therakos Operator's Manual. THERAKOS™ CELLEX™ Photopheresis System. ² Hart JW, et al. Ther Adv Hematol. 2013;4:320-334. ³ Wang L, et al. Front Immunol. 2018;9:2207. ⁴ Ni M, et al. Front Immunol. 2019;10:547. ⁵ Mankarious M, et al. Front Immunol. 2020;11:81. ⁶ Dignan FL, et al. Bone Marrow Transplant. 2014;49(5):704-708. ⁷ Yoo EK, et al. J Invest Dermatol. 1996;107:235-242. ⁸ Morelli AE, et al. Blood. 2003;101:611-620. ⁹ Craciun LI, et al. Transplantation. 2002;74:995-1000. ¹⁰ Lamioni A, et al. Transplantation. 2005;79:846-850.

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