



SCIENTIFIC PROGRAM (Updated: January 28, 2025)

THURSDAY, JANUARY 30, 2025		
Time	PARANINFO	AULA MAGNA
8:45-10:30	<p><b>Good Morning Zaragoza</b></p> <p><i>Chairs:</i> <b>Angel Lanas</b> (Zaragoza. Spain) / <b>Patricia Sancho</b> (Zaragoza. Spain) <b>Nadir Arber</b> (Tel Aviv. Israel)</p>	<p><b>9:10-10:40 Student cancer symposium</b></p> <p><i>Chairs:</i> <b>Julián Pardo</b> (Zaragoza. Spain) / <b>Noam Shomron</b> (Tel Aviv. Israel)</p>
8:50-9:15	<p><b>Opening: Yamir Moreno / José R. Paño</b> (Zaragoza. Spain) The next pandemia is not going to wait 100 years</p>	<p><b>Amit Levon</b> Integrating biomarker discovery and genetic screening for precision medicine in hematology and population genetics</p>
9:15-10:15	<p><b>Earlier acting, better outcomes, greener healthcare</b></p> <p><b>Veronique Ezratty</b> (Paris. France) Climate change: We have passed the point of no return; what should doctors do now?</p> <p><b>Emilio Sanchez</b> (Oviedo. Spain) Decarbonization of the healthcare process: Improving people and planet's health</p> <p><b>José María Marín-Trigo</b> (Zaragoza. Spain) Respiratory healthcare innovation: prioritizing patients and environmental sustainability</p>	<p><b>Avishai Maliah</b> Crosslinking of Ly6a metabolically reprograms CD8 T cells for cancer immunotherapy.</p> <p><b>Anne Krinsky</b> Revolutionizing colorectal cancer treatment through 3D models</p> <p><b>Opal Avramoff</b> A 3D platform for glioblastoma microenvironment modeling to evaluate novel therapeutics</p> <p><b>Ariel Werblowsky</b> Boosting CAR-T immunotherapy treatment by nanobubble-mediated ultrasound mechanotherapy: A technology platform for solid tumor therapy</p> <p><b>Bozena Borenstein</b> Efficacy of EXO-mCD24 in pulmonary diseases</p> <p><b>Sarah Amar</b> IL2 delivery to PD1+CD8+ T cells drive potent anti-tumor immunity</p> <p><b>Yosi Azan</b> How does Escitalopram affect cancer progression</p> <p><b>Hadas Volkov</b> Deciphering the diagnostic potential of small non-coding RNAs for the detection of pancreatic ductal adenocarcinoma through liquid biopsies</p> <p><b>Estee Rebibo</b> The role of physical activity in mitigating cancer risk among BRCA carriers: Evidence from a large-scale prospective study</p> <p><b>Roohi Chaudhary</b> Modulation of TGF-β receptor complexes by cholesterol alters signaling balance and dynamics; Implications for hepatocellular carcinoma</p> <p><b>Shlomi Kashkash</b> Novel combined epigenetic - adenovirus gene therapy for bladder cancer</p> <p><b>Veronica Moskvicz</b> Surface-CLIP: a novel method to research RNA biology in patient-derived cancer cells</p> <p><b>Dev Leibowitz</b> Leveraging longitudinal EMR and genetic mutations for cancer risk Stratification</p>
10:15-10:40	<p><b>Official Opening of the Congress</b></p> <p>Aragón Government, Academic Authorities/Nadir Arber/Angel Lanas</p>	
10:40-11:00	<p><b>The fantastic voyage of self-powered microrobots</b></p> <p><i>Chairs:</i> <b>Raul Alba</b> (Barcelona. Spain) <b>Oren Shibolet</b> (Tel Aviv. Israel)</p> <p><b>Samuel Sánchez Ordoñez</b> (Barcelona. Spain)</p>	
11:00-11:30	<b>Huesca Plait</b>	



<b>THURSDAY, JANUARY 30, 2025 continued</b>		
<b>Time</b>	<b>PARANINFO</b>	<b>AULA MAGNA</b>
<b>11:30-13:00</b>	<p><b>The Future of the health systems: evolution or revolution?</b></p> <p><i>Chairs:</i> <b>Josep M. Piqué</b> (Barcelona. Spain)  <b>Julius Špičák</b> (Prague. Czech Republic)</p> <p><b>Josep M. Piqué</b> (Barcelona. Spain)  <b>Introduction</b>  <b>Nuria Mas</b> (Barcelona. Spain)            Socio-economic and geo-politic trends determining the Healthcare systems  <b>Ronni Gamzu</b> (Tel Aviv. Israel)            The future view from an Academic Tertiary Care Hospital</p>	<p><b>Robotic surgery debate: Full automation or human touch? Virtual fully robotized operating theaters</b></p> <p><i>Chairs:</i> <b>José M. Ramirez</b> (Zaragoza. Spain)  <b>Luis Pablo Julvez</b> (Zaragoza, Spain)</p> <p><b>Enrique Gómez-Aguilera</b> (Madrid. Spain)            Fully automated operating rooms, is it feasible to achieve?  <b>Guy Lahat</b> (Tel Aviv. Israel)            Human touch and supervision are still a necessity  <b>José Rubio Briones</b> (Valencia. Spain)            “and the winner is.... the patient!”</p>
<b>13:00-14:00</b>	<b>Lunch Break</b>	
<b>14:00-15:30</b>	<p><b>Superbugs: How can we defeat drug-resistant infections?</b></p> <p><i>Chairs:</i> <b>Jürgen Rockstroh</b>, (Bonn. Germany)  <b>Laura Lechuga</b> (Barcelona. Spain)</p> <p><b>Roger David Kornberg</b>, Nobel Laureate. Professor of structural biology (Stanford. USA)            Infections are harmless: Prophylaxis, early diagnosis and therapy  <b>Laura M. Lechuga</b> (Barcelona. Spain)            Silence pandemic: advanced diagnosis nanotools to defeat it  <b>Yehuda Carmeli</b> (Tel Aviv. Israel)            Multidrug resistant organisms do not exist  <b>Carlos Martín</b> (Zaragoza. Spain)            The quest to end superbugs tuberculosis: Are vaccines our only hope?</p>	<p><b>The connected patient. Healthcare or Big Brother?</b></p> <p><i>Chairs:</i> <b>Esther Pueyo</b> (Zaragoza. Spain) / <b>Ronni Gamzu</b> (Tel Aviv. Israel)  <b>Oren Shibolet</b> (Tel Aviv. Israel)</p> <p><b>Javier Ramos</b> (Zaragoza, Spain)            I will always know the exact clinical status of my patients  <b>Helga Monzón</b> (Data Business Leader IBM Spain)            My health, their data: 2044 era of surveillance medicine  <b>Zoraida Soriano</b> (IACS. Zaragoza. Spain)            Closing the loop: use of data at the bedside  <b>Eduardo Zubizarreta</b> (Inycom. Spain)            Cyber Security - From risk to resilience: Shared data and medical equipment</p>
<b>15:30-16:00</b>	<b>Spanish tastes</b>	



THURSDAY, JANUARY 30, 2025 continued		
Time	PARANINFO	AULA MAGNA
16:00-17:30	<p><b>Artificial Intelligence or human wisdom? Will my doctor be a robot?</b></p> <p><i>Chairs:</i> Manuel Doblaré / Rocío Aznar (Zaragoza. Spain)</p> <p><b>Pro: Francisco Herrera</b> (Granada. Spain) “Defending the irreplaceability of human doctors”</p> <p><b>Con: Noam Shomron</b> (Tel Aviv. Israel) “AI-led diagnosis and treatment”</p> <p><b>Commentary: John Suckling</b> (University of Cambridge. UK)</p> <p><b>Andrea Cherubini</b> (Senior Vice President Science, AI and Data at Cosmo IMD. Italy). The integration between AI and Endoscopists in 2044</p>	<p><b>16:00-17:00 IBD 2044: Clearance, cure or medical history</b></p> <p><i>Chairs:</i> Carla Gargallo / Santiago García (Zaragoza, Spain)</p> <p><b>Fernando Gomollón</b> (Zaragoza. Spain) IBD 2044? Just a chapter in medical history!</p> <p><b>Iris Dotan</b> (Tel Aviv. Israel) How early-and how far should we go to prevent (and one day cure) IBD?</p>
		<p><b>17:00-17:30 Special Lecture: Pan-cancer vaccination</b></p> <p><i>Chairs:</i> <b>Diego Sanchez</b> (Zaragoza. Spain) <b>Julius Špičák</b> (Prague. Czech Republic)</p> <p><b>Ursula Jacob</b> (Munich. Germany)</p>
17:30-18:30	<p><b>Nanomedicine: Is it time to swallow your doctor?</b> <b>The teeny tiny heroes of healthcare</b></p> <p><i>Chairs:</i> <b>Jesús Santamaría</b> (Zaragoza. Spain)/<b>Maria José Alonso</b> (Santiago. Spain)</p> <p><b>Chiara Pastore</b> (London. UK). Nature Nano Editor “Trends and future developments in nanomedicine. An editor’s perspective”</p> <p><b>Robert Langer</b> (Cambridge, Massachusetts, USA) The Edison of Medicine: Robert Langer’s Quest to Solve Global Health Challenges Using Biotechnology</p>	



FRIDAY, JANUARY 31, 2025		
Time	PARANINFO	AULA MAGNA
8:30-9:45	<p><b>I can see much better!!</b></p> <p><b>Chairs:</b> Julián Garcia-Feijoo (Madrid. Spain) / Luis Pablo (Zaragoza. Spain) Elena García Martín (Zaragoza. Spain)</p> <p><b>Julio Mayol</b> (Madrid. Spain) AI technology, getting back to real medicine</p> <p><b>Marcos Ortega</b> (Coruña. Spain) Management of ocular diseases and AI</p> <p><b>Josef Huemer</b> (London. UK) The future of retinal imaging and optical coherence tomography</p> <p><b>Alon Harris</b> (New York. USA) No glaucoma in 2044</p>	
09:45-10:45	<p><b>The Human Cyborgs: A brave new species or the end of humanity?</b></p> <p><b>Chairs:</b> Pedro Baptista (Zaragoza. Spain)/ Esperanza Jubera (Bitbrain. Zaragoza. Spain)/Asaf Wasserman (Tel Aviv. Israel)</p> <p><b>Oskar Aszmann</b> (Wien. Austria) Man, machine, or monster?</p> <p><b>José Manuel Muñoz</b> (Valencia. Spain) Neurotechnology is leaving hospitals: Why we need neurorights for our future society?</p> <p><b>Eduardo Fernandez Jover</b> (Alicante. Spain) Hacking the visual cortex: Engineering sight in the blind</p>	<p><b>Evolutionary eating and exercise: From the Neanderthal to the modern human</b></p> <p><b>Chairs:</b> Luis Moreno / J.A Casajús (Zaragoza. Spain)</p> <p><b>Alfredo Martínez</b> (University of Valladolid. Spain) Planetary, population and personalized nutrition for precision health in an evolving world</p> <p><b>Yannis Pitsiladis</b> (Hong Kong Baptist University, Hong Kong) Born to run and sweat</p> <p><b>Iris Dotan</b> (Tel Aviv. Israel) Let your food be your medicine-from intestinal inflammation to health</p>
10:45- 11:15	<b>Wake up coffee</b>	
11:15-11:45	<p><b>I have the funds and I am looking for innovations</b></p> <p><b>Chairs:</b> Octavi Quintana (Barcelona. Spain) Rosa Bolea (Vice-Chancellor. University of Zaragoza)</p> <p><b>Carmen Laplaza</b> (Research and Innovation from the European Commission) The future of EU Research and Innovation funding</p>	<p><b>The frontier of Medicine: Synthetic Biology and Artificial Intelligence</b></p> <p><b>Chairs:</b> Olga Abián / Rebeca Sanz (Zaragoza, Spain)</p> <p><b>Luis Pareras</b> (Barcelona. Spain)</p>



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<b>11:45-12:05</b>	<b>Chairs: Pedro Baptista / Natalia Sanchez-Romero</b> (Zaragoza. Spain)  <b>Special Lecture</b> <b>Rabii Redouanne</b> (Casablanca. Morocco) Smartphone and sexual function/dysfunction	<b>The microbiota debate: The future of personalized medicine or just hype?</b>  <b>Chairs: Sandra García-Mateo / María Pardos</b> (Zaragoza. Spain)  <b>Gianluca Ianiro</b> (Rome. Italy) / <b>Rafael Valdes</b> (Pamplona. Spain) Supporting microbiota as a core therapy <b>Francisco Guarner</b> (Barcelona. Spain) Highlighting the risks and ethical dilemmas <b>Commentary: Robert Benamouzig</b> (Paris. France)
<b>12:45-13:15</b>	<b>Organ transplantation: The next frontier in bioengineering</b>  <b>Hans Clevers</b> (Utrecht. Holland) Organoids to model human disease <b>Antony Atala</b> (Wake Forest. USA) Personalized 3D printed implants	
<b>13:15-14:00</b>	<b>Lunch Break</b>	
<b>14:00-14:45</b>	<b>Good afternoon, Zaragoza: Breaking news</b>  <b>Chairs: Alberto J. Schuhmacher</b> (Zaragoza. Spain) <b>Paola Patrignani</b> (Chieti. Italy)  <b>Space Medicine: Mars is not far anymore</b> <b>Sara García Alonso</b> (European Space Agency. Spain) Primary and emergency medicine in space  <b>Shiran Shapira</b> (Tel Aviv. Israel) The teeny tiny vesicles with great potential: The EXO-CD24 story	<b>14:00-15:00 Teaching science to the Z 0.8<sup>3</sup> Generation</b>  <b>Chairs: José A. Mayoral</b> (Chancellor Univ Zaragoza. Spain). <b>Mar Garcia</b> (Vice Dean School of Medicine. Zaragoza)  <b>Introduction:</b> Evolving minds or losing ground? <b>Karen Avraham</b> (Tel Aviv. Israel) Educating future physician in the AI precision medicine era <b>Luis Morellón</b> (Dean of the School of Science. Zaragoza) The scientist education must go on <b>Gonzalo Baquero-Sanz</b> (Former president of the national council of medical students of Spain; science communicator. Madrid. Spain) You are totally wrong! Please listen to us and hear our voice



<b>FRIDAY, JANUARY 31, 2025 continued</b>		
<b>Time</b>	<b>PARANINFO</b>	<b>AULA MAGNA</b>
<b>14:45-16:15</b>	<p><b>Ethics and Genetics in 2044</b></p> <p><b>Chairs:</b> <b>Patricia Sancho</b> (Zaragoza. Spain) / <b>Karen Avraham</b> (Tel Aviv. Israel)/</p> <p><b>Aaron Ciechanover</b> (Nobel Laureate. Haifa. Israel)</p> <p><b>Ethics in precision medicine</b></p> <p><b>Introduction: Karen Avraham</b> (Tel Aviv. Israel)</p> <p><b>Genome Editing Dilemmas</b></p> <p><b>Lluis Montoliu</b> (Madrid. Spain)</p> <p>Human Ingenuity</p> <p><b>Carles Lalueza Fox</b> (Barcelona. Spain)</p> <p>Nature's Blueprint</p>	<p><b>15:00-16:00 The third space surgery and robotic endoscopy</b></p> <p><b>Chairs:</b> <b>Jaroslav Regula</b> (Warsaw. Poland) / <b>Carlos Sostres</b> (Zaragoza. Spain)</p> <p><b>Maite Herraiz</b> (Pamplona. Spain)</p> <p><b>Joaquín Rodriguez</b> (Madrid. Spain)</p> <p>My eyes see and work beyond the GI wall</p> <p><b>Hugo Uchima</b> (Barcelona. Spain)</p> <p>Endoscopic therapy will be personalized</p> <p><b>Philip W.Y. Chiu</b> (Hong Kong)</p> <p>Good morning patients. I am your robotic endoscopist</p>
<b>16:15-16:40</b>	<b>Four o'clock tea</b>	
<b>16:40- 17:50</b>	<p><b>Special Lectures and abstract selection</b></p> <p><b>Chairs:</b> <b>Dolores Isla</b> (Zaragoza. Spain) / <b>Jaroslav Regula</b> (Warsaw. Poland)</p> <p><b>Nadir Arber</b> (Tel Aviv. Israel)</p> <p>The best therapy of cancer is prevention: The concept of integrated cancer prevention center. A comprehensive one stop shop.</p> <p><b>1 Francisco Javier Falco Marti et al.</b></p> <p>Integrating Thermal Liquid Biopsy (TLB) and Machine Learning for enhanced early diagnosis of malignant ovarian tumor.</p> <p><b>2. Jorge Paul et al.</b></p> <p>Bispecific killer cell engager (BiKE) against Tn antigen: a non-tissue-restricted immunotherapy for cancer treatment.</p> <p><b>3. Andrea Moreno et al.</b></p> <p>Targeted Immunotherapy for Paediatric Neuroblastoma Patients,</p> <p><b>4. Mays Motlaq et al:</b></p> <p>The CancerenD24: A Novel Blood Test that Can Prevent CRC.</p> <p><b>5. Fatin Madeh et al.</b></p> <p>The Dark Age of Single Organ Screening is Over: CD24 is a Novel Universal Pan-cancer Blood Test for Early Detection of Cancer</p>	<p><b>The Inventor Corner</b></p> <p><b>Chairs:</b> <b>Javier Colas</b> (Madrid. Spain) / <b>Philip Chiu</b> (Hong Kong)</p> <ol style="list-style-type: none"> <li><b>CITOGEN. Celia Vived Maza.</b> Omics in action: driving precision medicine</li> <li><b>MAGINATE. Natalia Sánchez Romero.</b> Nature's Prometheus: Development of intestinal microbiome-derived peptides for the treatment of severe liver disease.</li> <li><b>HOLLOW FIBRE SYSTEM TECHNOLOGIES. Diana Aguilar.</b> Testing drugs to reduce clinical trials.</li> <li><b>EPITHELIOIDS TECHNOLOGIES. David Fernández-Antorán &amp; Alberto J. Schuhmacher.</b> Self-sustaining long-term 3D cultures</li> <li><b>TECNALIA. Manuel Montejo – CEO.</b> Disruptive Technologies: Driving Radical Innovations in Healthcare.</li> <li><b>CELLA. Miguel Rodriguez – CEO.</b> Innovations in 3D technology</li> <li><b>ENDOCARTO SCOPE. José M Martínez-Montiel.</b> Transforming any Endoscope into a Smart Device for Intraoperative 3D Localization, Navigation and Mapping.</li> </ol>



<b>FRIDAY, JANUARY 31, 2025 continued</b>		
<b>Time</b>	<b>PARANINFO</b>	<b>AULA MAGNA</b>
<b>17:50-19:00</b>	<p><b>Goodbye Cancer! Myth, Milestone, or Marketing?</b></p> <p><i>Chairs:</i> <b>Nadir Arber</b> (Tel Aviv. Israel) / <b>Angel Artal</b> (Zaragoza. Spain)</p> <p><b>Mariano Barbacid</b> (Madrid. Spain) The cancer cure dilemma: Past and future of Precision Medicine</p> <p><b>Shiran Shapira</b> (Tel Aviv. Israel) Cracking the code: Revolutionizing Pan-Cancer Screening with a single blood test</p> <p><b>Marta Trapero</b> (Lérida. Spain) Balancing Innovation and Sustainability: Financing Tomorrow's Cancer Treatments</p>	
<b>19:00-19:10</b>	<p><b>Abstract Awards. Closing of the Meeting.</b>  <b>Nadir Arber/Angel Lanas/Minister of Health of Aragon Government</b></p>	