


SCIENTIFIC PROGRAM

 Updated: **January 23, 2025**
THURSDAY, JANUARY 30, 2025

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



THURSDAY, JANUARY 30, 2025 continued		
Time	PARANINFO	AULA MAGNA
11:30-13:00	The Future of the health systems: evolution or revolution? Chairs: José M. Piqué (Barcelona. Spain) Julius Špičák (Prague. Czech Republic) Nuria Mas (Barcelona. Spain) Socio-economic and geo-politic trends determining the Healthcare systems Scott Young (California. USA) The future view from a Healthcare Provider Ronni Gamzu (Tel Aviv. Israel) The future view from an Academic Tertiary Care Hospital	Robotic surgery debate: Full automation or human touch? Virtual fully robotized operating theaters Chairs: Francisco M. Sánchez-Margallo (Cáceres. Spain) Amal Khoury , (Tel Aviv. Israel) Enrique Gómez-Aguilera (Madrid. Spain) Fully automated operating rooms, is it feasible to achieve? Guy Lahat (Tel Aviv. Israel) Human touch and supervision are still a necessity José Rubio Briones (Valencia. Spain) “and the winner is.... the patient!”
13:00-13:45	Lunch Break	
13:45-15:00	Superbugs: How can we defeat drug-resistant infections? Chairs: J.L. Bancalero . (Minister of Health. Aragón Gov. Spain) Jürgen Rockstroh , (Bonn. Germany) Laura Lechuga (Barcelona. Spain) Roger David Kornberg , Nobel Laureate. Professor of structural biology (Stanford. USA) Infections are harmless: Prophylaxis, early diagnosis and therapy Laura M. Lechuga (Barcelona. Spain) Silence pandemic: advanced diagnosis nanotools to defeat it Yehuda Carmeli (Tel Aviv. Israel) Multidrug resistant organisms do not exist Carlos Martín (Zaragoza. Spain) The quest to end superbugs tuberculosis: Are vaccines our only hope?	The connected patient. Healthcare or Big Brother? Chairs: Esther Pueyo (Zaragoza. Spain) / Ronni Gamzu (Tel Aviv. Israel) Oren Shibolet (Tel Aviv. Israel) Javier Ramos (Zaragoza, Spain) I will always know the exact clinical status of my patients Helga Monzón (Data Business Leader IBM Spain) My health, their data: 2044 era of surveillance medicine Zoraida Soriano (IACS. Zaragoza. Spain) Closing the loop: use of data at the bedside Eduardo Zubizarreta (Inycom. Spain) Cyber Security - From risk to resilience: Shared data and medical equipment
15:00-15:30	Spanish tastes	



THURSDAY, JANUARY 30, 2025 continued		
Time	PARANINFO	AULA MAGNA
15:30-17:00	<p>Artificial Intelligence or human wisdom? Will my doctor be a robot?</p> <p>Chairs: Manuel Doblaré / Rocío Aznar (Zaragoza. Spain)</p> <p>Pro: Francisco Herrera (Granada. Spain) “Defending the irreplaceability of human doctors”</p> <p>Con: Noam Shomron (Tel Aviv. Israel) “AI-led diagnosis and treatment”</p> <p>Commentary: John Suckling (University of Cambridge. UK)</p> <p>Andrea Cherubini (Senior Vice President Science, AI and Data at Cosmo IMD. Italy). The integration between AI and Endoscopists in 2044</p>	<p>IBD 2044: Clearance, cure or medical history</p> <p>Chairs: Carla Gargallo / Santiago García (Zaragoza, Spain)</p> <p>Fernando Gomollón (Zaragoza. Spain) IBD 2044? Just a chapter in medical history!</p> <p>Iris Dotan (Tel Aviv. Israel) How early-and how far should we go to prevent (and one day cure) IBD?</p>
17:00-18:15	<p>Nanomedicine: Is it time to swallow your doctor? The teeny tiny heroes of healthcare</p> <p>Chairs: Jesús Santamaría (Zaragoza. Spain) Maria Jesús Alonso (Santiago. Spain)</p> <p>Chiara Pastore (London. UK). Nature Nano Editor Trends and future developments in nanomedicine. An editor’s perspective</p> <p>Robert Langer (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>I can see much better!!</p> <p>Chairs: Julián Garcia-Feijoo (Madrid. Spain) / Luis Pablo (Zaragoza. Spain) Elena García Martín (Zaragoza. Spain)</p> <p>Julio Mayol (Madrid. Spain) AI technology, getting back to real medicine Marcos Ortega (Coruña. Spain) Management of ocular diseases and AI Josef Huemer (London. UK) The future of retinal imaging and optical coherence tomography Alon Harris (New York. USA) No glaucoma in 2044</p>	
09:45-10:45	<p>The Human Cyborgs: A brave new species or the end of humanity?</p> <p>Chairs: Pedro Baptista (Zaragoza. Spain) Asaf Wasserman (Tel Aviv. Israel)</p> <p>Oskar Aszmann (Wien. Austria) Man, machine, or monster? José Manuel Muñoz (Valencia. Spain) Neurotechnology is leaving hospitals: Why we need neurorights for our future society? Eduardo Fernandez Jover (Alicante. Spain) Hacking the visual cortex: Engineering sight in the blind</p>	<p>Evolutionary eating and exercise: From the Neanderthal to the modern human</p> <p>Chairs: Luis Moreno / J.A Casajús (Zaragoza. Spain)</p> <p>Alfredo Martínez (University of Valladolid. Spain) Planetary, population and personalized nutrition for precision health in an evolving world Yannis Pitsiladis (Hong Kong Baptist University, Hong Kong) Born to run and sweat Iris Dotan (Tel Aviv. Israel) Let your food be your medicine-from intestinal inflammation to health</p>
10:45- 11:15	Wake up Coffee	



FRIDAY, JANUARY 31, 2025 continued		
Time	PARANINFO	AULA MAGNA
11:15-11:45	I have the funds and I am looking for innovations <i>Chairs:</i> Octavi Quintana (Barcelona. Spain) Rosa Bolea (Vice-Chancellor. University of Zaragoza) Carmen Laplaza (Research and Innovation from the European Commission) The future of EU Research and Innovation funding	The frontier of Medicine: Synthetic Biology and Artificial Intelligence <i>Chairs:</i> Olga Abián / Rebeca Sanz (Zaragoza, Spain) Luis Pareras (Barcelona. Spain)
11:45-13:15	Organ transplantation: The next frontier in bioengineering <i>Chairs:</i> Pedro Baptista / Natalia Sanchez-Romero (Zaragoza. Spain) Hans Clevers (Utrecht. Holland) Organoids to model human disease Antony Atala (Wake Forest. USA) Personalized 3D printed implants Solomo Dadia (Tel Aviv. Israel) Everything is replaceable, everything is curable	The microbiota debate: The future of personalized medicine or just hype? <i>Chairs:</i> Sandra García-Mateo / María Pardos (Zaragoza. Spain) Gianluca Ianiro (Rome. Italy) / Rafael Valdes (Pamplona. Spain) Supporting microbiota as a core therapy Francisco Guarner (Barcelona. Spain) Highlighting the risks and ethical dilemmas Commentary: Robert Benamouzig (Paris. France)
13:15-14:00	Lunch Break	
14:00-14:45	Good afternoon, Zaragoza: Breaking news <i>Chairs:</i> Alberto J. Schuhmacher (Zaragoza. Spain) Paola Patrigiani (Chieti. Italy) Space Medicine: Mars is not far anymore Sara García Alonso (European Space Agency. Spain) Primary and emergency medicine in space Shiran Shapira (Tel Aviv. Israel) The teeny tiny vesicles with great potential: The EXO-CD24 story	14:00-15:00 Teaching science to the Z 0.8³ Generation <i>Chairs:</i> Luis Morellón (Dean of the School of Science. Zaragoza) Mar García (Vice Dean School of Medicine. Zaragoza) Introduction: Evolving minds or losing ground? José A. Mayoral (Chancellor Univ Zaragoza. Spain) The physician education must go on Karen Avraham (Tel Aviv. Israel) Educating future physician in the AI precision medicine era Gonzalo Baquero-Sanz (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



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Time	PARANINFO	AULA MAGNA
14:45-16:00	<p>Ethics and Genetics in 2044</p> <p>Chairs: Angel Lanas / Nadir Arber</p> <p>Aaron Ciechanover (Nobel Laureate. Haifa. Israel)</p> <p>Genome Editing Debate</p> <p>Chairs: Patricia Sancho (Zaragoza. Spain) / Ursula Jacob (Munich. Germany)</p> <p>Introduction: Karen Avraham (Tel Aviv. Israel)</p> <p>Lluís Montoliu (Madrid. Spain)</p> <p>Human Ingenuity</p> <p>Carles Lalueza Fox (Barcelona. Spain)</p> <p>Nature's Blueprint</p>	<p>15:00-16:00 The third space surgery and robotic endoscopy</p> <p>Chairs: Jaroslaw Regula (Warsaw. Poland) / Carlos Sostres (Zaragoza. Spain)</p> <p>Maite Herraiz (Pamplona. Spain)</p> <p>Joaquín Rodríguez (Madrid. Spain)</p> <p>My eyes see and work beyond the GI wall</p> <p>Hugo Uchima (Barcelona. Spain)</p> <p>Endoscopic therapy will be personalized</p> <p>Philip W.Y. Chiu (Hong Kong)</p> <p>Good morning patients. I am your robotic endoscopist</p>
16:00-16:30	Four o'clock tea	
16:30- 17:30	<p>Special Lecture</p> <p>Chairs: Dolores Isla (Zaragoza. Spain) / Gil Fire (Tel Aviv. Israel)</p> <p>Nadir Arber (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>3 Best abstracts selected</p>	<p>The Inventor Corner</p> <p>Chairs: Javier Colas (Madrid. Spain) / Ursula Jacob (Munich. Germany)</p> <ol style="list-style-type: none"> CITOGEN. Celia Vived Maza. Omics in action: driving precision medicine MAGINATE. Natalia Sánchez Romero. Nature's Prometheus: Development of intestinal microbiome-derived peptides for the treatment of severe liver disease HOLLOW FIBRE SYSTEM TECHNOLOGIES. Diana Aguilar. Testing drugs to reduce clinical trials EPITHELIIDS TECHNOLOGIES. David Fernández-Antorán & Alberto J. Schuhmacher. Self-sustaining long-term 3D cultures TECNALIA. Manuel Montejo – CEO. Disruptive Technologies: Driving Radical Innovations in Healthcare CELLA. Miguel Rodríguez – CEO. Innovations in 3D technology ENDOCARTO SCOPE. José M Martínez-Montiel. Transforming any Endoscope into a Smart Device for Intraoperative 3D Localization, Navigation and Mapping



FRIDAY, JANUARY 31, 2025 continued		
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17:30-18:50	<p>Goodbye Cancer! Myth, Milestone, or Marketing?</p> <p>Chairs: Nadir Arber (Tel Aviv. Israel) / Angel Artal (Zaragoza. Spain)</p> <p>Mariano Barbacid (Madrid. Spain) The cancer cure dilemma: Victory within reach or forever out of Grasp?</p> <p>Ursula Jacob (Munich. Germany) Pan-cancer vaccination</p> <p>Marta Trapero (Lérida. Spain) The fragile line between hope and reality</p> <p>Shiran Shapira (Tel Aviv. Israel) Cracking the code: Revolutionizing Pan-Cancer Screening with a single blood test</p>	
18:50-19:00	<p>Abstract Awards. Closing of the Meeting. Nadir Arber/Angel Lanas/Minister of Health of Aragon Government</p>	