

WOMI 2025

Workshop on Medical and Healthcare Innovation

Valencia, Spain - 11-12 December 2025

Col·legi Major Rector Peset (Plaça del Forn de Sant Nicolau, 4, Ciutat Vella)



Jorge and his exoskeleton. Images courtesy of Marsi Bionics¹ for WOMI'25

¹ Marsi Bionics was created in 2013 as a spin-off of the Centro de Automática y Robótica (CAR), a joint center of the Consejo Superior de Investigaciones Científicas (CSIC) and the Universidad Politécnica de Madrid (UPM) with more than 20 years of translation of know-how in robot locomotion. Exceptionally, the CSIC has been a shareholder of Marsi Bionics since 2019. Marsi Bionics' major milestone has been to develop the world's first children's exoskeleton. There is no similar technology that allows 360° movement for children who cannot walk or who have lost the ability to walk. It is a 100% success story of knowledge transfer in Spain. It started with public research (2009) when the parents of Daniela, a girl who became paraplegic after an accident, approached the CSIC to find a way to help Daniela to walk. That is when the 'first steps' of the exoskeleton began. Once the project was completed, with a first prototype, Elena García Armada decided to create Marsi Bionics (2013) to transfer the results of the research to society. From 2013 to 2021, Marsi Bionics finances, develops, industrializes, performs clinical research and certifies the device, which received the CE marking from the Agencia Española de Medicamentos y Productos Sanitarios (Spanish Agency for Medicines and Medical Devices) in May 2021. Text provided by Marsi Bionics <https://marsibionics.com/>

Acknowledgements

We thank the Conselleria d'Educació, Cultura, Universitats i Ocupació, the Faculty of Economics of the University of Valencia and INGENIO for the funding provided to make WOMI'25 possible.

We are also very grateful to Maureen McKelvey (U-GOT KIES, University of Gothenburg) for her support and to all invisible administrative staff of the University of Valencia and INGENIO who contributed or will contribute to WOMI'25, before, during and after the workshop.

Special thanks to Marsi Bionics for the two pictures of Jorge using his exoskeleton.



Oscar, Inma, Pablo

THURSDAY 11 DECEMBER 2025 - DAY 1

09:00-09:30 | REGISTRATION & WELCOME

Room: Seminario I

SESSION 1: Collaboration and Knowledge Transformation

09:30-11:10 | Chair: Javier Ortega

Room: Seminario I

Paper 1.1 | 09:30-10:00

Speaker: Bastian Rake

Title: Cross-border virtual R&D center: The case of AstraZeneca's collaboration with French Academia through intermediary organization

Authors: Bastian Rake (University of Gothenburg), Kaushik Sengupta (AstraZeneca), Myriam Gamberoni (AstraZeneca), Maureen McKelvey (University of Gothenburg)

Discussants: Inma Aleixos-Borrás & Ferran Giones

Paper 1.2 | 10:05-10:35

Speakers: Inma Aleixos-Borrás & Ferran Giones

Title: How the (In)materialization of Knowledge Shapes the Commercialization of Science

Authors: Inma Aleixos-Borrás (University of Valencia), Christopher S. Hayter (Georgia Institute of Technology), Ferran Giones (University of Stuttgart)

Discussant: Isabel Maria Bodas Freitas

Paper 1.3 | 10:40-11:10

Speaker: Isabel Maria Bodas Freitas

Title: Where does innovation come from: organizational routines vs. individual's skills?

Authors: Isabel Maria Bodas Freitas (Grenoble Ecole de Management & University of Gothenburg), Maureen McKelvey (University of Gothenburg)

Discussant: Bastian Rake

11:10-11:30 | COFFEE BREAK

Room: Cafeteria of Rector Peset

SESSION 2: Implementation, Data Quality and Regulatory Challenges

11:35-13:15 | Chair: Ismael Rafols

Room: Seminario I

Paper 2.1 | 11:35-12:05

Speaker: Nyasha Chifamba

Title: Stakeholder collaboration on data quality management in the development of AI-Driven Clinical Decision Support systems

Authors: Nyasha Chifamba (Halmstad University), Rögnvaldur Sæmundsson (Halmstad University), Ingrid Larsson (Halmstad University), Lina Lundgren (Halmstad University)

Discussant: Dimitri Gagliardi

Paper 2.2 | 12:10-12:40

Speaker: Dimitri Gagliardi

Title: An Institutional, Organisational, and Management (IOM) Framework for the Adoption of Pharmacogenetics in a large health system

Authors: Dimitri Gagliardi (University of Manchester), Ronnie Ramlogan (University of Manchester), Abisope Akintola (University of Manchester), Cinzia Dello Russo (Università Cattolica del Sacro Cuore), Luigi Venetucci (University of Manchester), Munir Pirmohamed (University of Liverpool)

Discussant: Ingela Mauritzon

Paper 2.3 | 12:45-13:15

Speaker: Ingela Mauritzon

Title: Paradox Deferral in Medtech Regulation

Authors: Ingela Mauritzon (Halmstad University), Magnus Holmén (Halmstad University), Petra Svensson (Halmstad University)

Discussant: Nyasha Chifamba

13:15-14:30 | LUNCH

Room: Dining area of Rector Peset

SESSION 3: AI Adoption and Implementation

14:35-15:40 | Chair: Alfredo Yegros

Room: Seminario I

Paper 3.1 | 14:35-15:05

Speaker: Magnus Holmén

Title: Shadow-AI in healthcare

Authors: Magnus Holmén (Halmstad University), Lena Petersson (Halmstad University), Ingela Mauritzon (Halmstad University), Luis Irgang (Halmstad University)

Discussant: James Barlow

Paper 3.2 | 15:10-15:40

Speaker: James Barlow

Title: Technology adoption in clinical trials: a global retrospective analysis of artificial intelligence and digital-health tools, 1990-2024

Authors: Arianna Gentilini (Imperial College London), Chuanzi Yue (Imperial College London), Marisa Miraldo (Imperial College London), James Barlow (Imperial College London)

Discussant: Magnus Holmén

15:40-16:00 | COFFEE BREAK

Room: Cafeteria of Rector Peset

SESSION 4: Epistemology and Knowledge Co-evolution

16:00-17:05 | Chair: Ronnie Ramlogan

Room: Seminario I

Paper 4.1 | 16:00-16:30

Speaker: David Barberá-Tomás

Title: When theories become movements: The controversy in consciousness science from a sociological perspective

Authors: Camilo Signoreli (University of Copenhagen & University of Oxford & Université Libre de Bruxelles), Adrián A. Diaz-Faes (INGENIO, CSIC-UPV), David Barberá-Tomás (INGENIO, CSIC-UPV)

Discussants: Maureen McKelvey & Rögnvaldur J. Saemundsson

Paper 4.2 | 16:35-17:05

Speakers: Maureen McKelvey & Rögnvaldur J. Saemundsson

Title: The co-evolution of medical and engineering knowledge: Collaborative research projects in the context of advanced graduate education in engineering and medicine in Gothenburg 1948-2022

Authors: Maureen McKelvey (University of Gothenburg), Rögnvaldur J. Saemundsson (University of Gothenburg & Halmstad University & University of Iceland)

Discussant: David Barberá-Tomás

17:05 | END OF DAY 1

20:30 | DINNER

Vaqueta Gastro Mercat
C. de Sant Ferran, 22, Ciutat Vella
46001 València, Valencia

FRIDAY 12 DECEMBER 2025 - DAY 2

08:30-08:40 | WELCOME DAY 2

Room: Seminario I

SESSION 5: Corporate Science and Innovation Dynamics

08:45-10:25 | Chair: Rocío Poveda Bautista

Room: Seminario I

Paper 5.1 | 08:45-09:15

Speaker: Johannes Tröndle

Title: Impact of drug approval on follow-on research

Authors: Johannes Tröndle (University of Gothenburg)

Discussants: Alejandro Raga-Espinosa

Paper 5.2 | 09:20-09:50

Speaker: Alejandro Raga-Espinosa

Title: Corporate science in biomedicine: a trend analysis

Authors: Alejandro Raga-Espinosa (University of Valencia), Oscar Llopis (University of Valencia)

Discussant: Philippa Crane & Michael Hopkins

Paper 5.3 | 09:55-10:25

Speakers: Philippa Crane & Michael Hopkins

Title: Big biotech? Little biotech? Intellectual monopolies, industrial policy and the co-evolution of UK biotech firms

Authors: Philippa Crane (SPRU, University of Sussex), Michael Hopkins (SPRU, University of Sussex)

Discussant: Johannes Tröndle

10:25-10:45 | COFFEE BREAK

Room: Cafeteria of Rector Peset

SESSION 6: Social Dimensions and Responsible Innovation

10:50-11:55 | Chair: Julia Olmos-Peñuela

Room: Seminario I

Paper 6.1 | 10:50-11:20

Speaker: Sara Sánchez-López

Title: Menstrual Health and Healthcare: Barriers, Biases, and Patient Experiences

Authors: Sara Sánchez-López (INGENIO - Polytechnical University of Valencia), Rocio Poveda-Bautista (INGENIO - Polytechnical University of Valencia), Santiago Moll-López (Polytechnic University of Valencia), Dani Jennifer Barrington (University of Leeds)

Discussant: E. del Pozo Aviñó

Paper 6.2 | 11:25-11:55

Speaker: E. del Pozo Aviñó

Title: Cross-Questioning Responsible Research and Innovation in Health: A Systematic Literature Review

Authors: E. del Pozo Aviñó (Universitat de València), A. Ferrer-Albero (Fundación INCLIVA), D. Gabaldón-Estevan (Universitat de València), A. Grau-Muñoz (Universitat de València)

Discussant: Sara Sánchez-López

11:55-12:05 | ROOM CHANGE

From Seminario I to Salón de Actos

12:05-13:25 | ROUNDTABLE

Room: Saló de Actos

Topic: Integrating the participation of patients in healthcare research

Moderators: Inma Aleixos, Pablo D'Este, Óscar Llopis

Panelists:

1. Prof. Verónica Ausina Márquez (Fundación INCLIVA)
2. Mr. Javier Baigorri (ADM1ES - Spanish Association of Myotonic Dystrophy Type 1 Patients)
3. Mr. Tomás Castillo (POP - Platform of Patient Organizations)
4. Prof. Ramón Martínez-Máñez (Polytechnical University of Valencia)

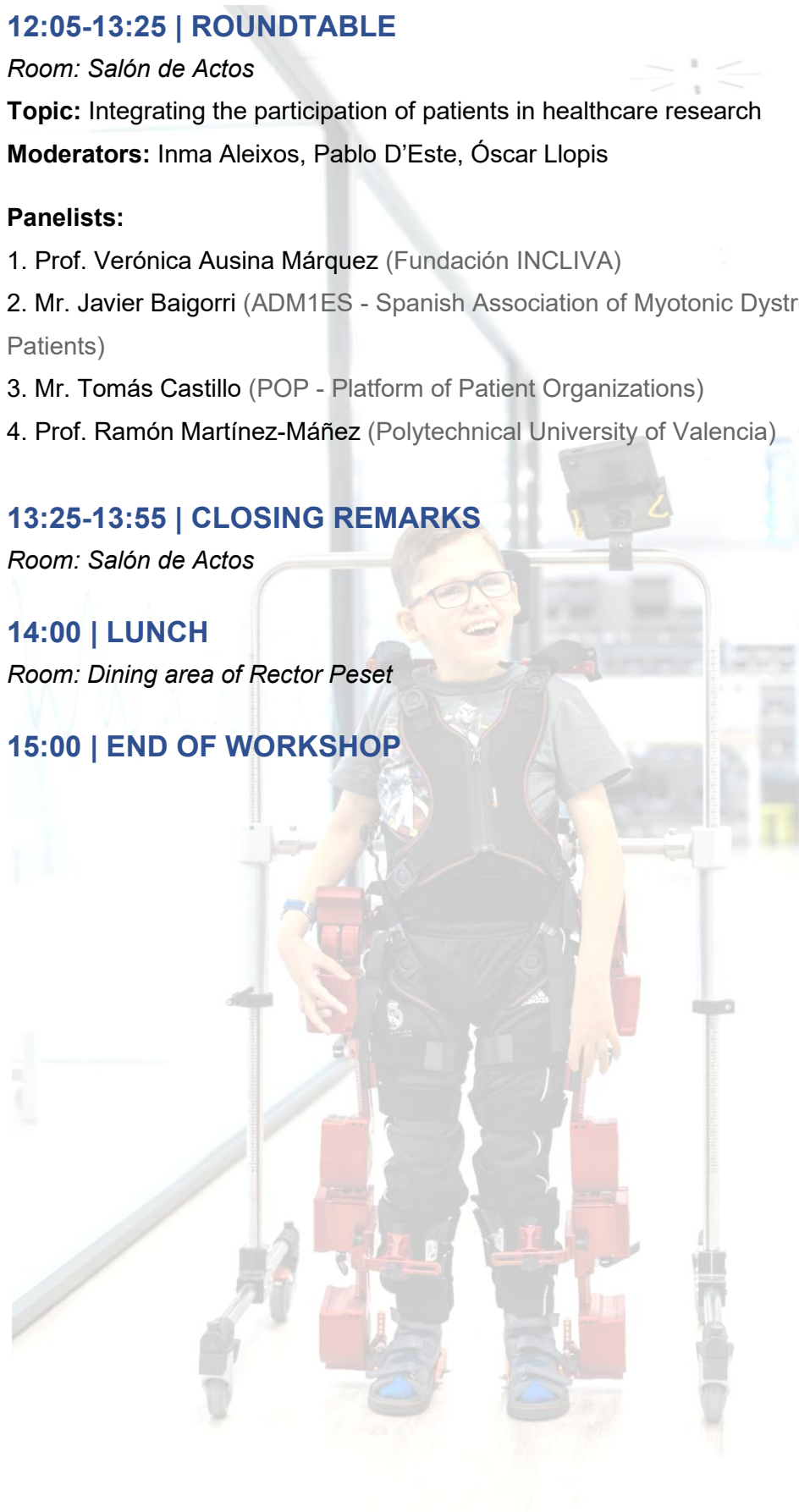
13:25-13:55 | CLOSING REMARKS

Room: Saló de Actos

14:00 | LUNCH

Room: Dining area of Rector Peset

15:00 | END OF WORKSHOP



INSTRUCTIONS FOR SPEAKERS

Each speaker will have 15 minutes for their presentation. Following the presentation, the assigned discussant will provide comments and questions for 5 minutes. After that, there will be 10 minutes for questions and discussion from the audience. We kindly ask all speakers to respect the time limits to ensure a smooth flow of the sessions and allow adequate time for discussion.

INSTRUCTIONS FOR DISCUSSANTS

Each discussant will have 5 minutes to provide comments, reflections, and questions following the speaker's presentation. Your role is to stimulate discussion by highlighting key points, raising critical questions, or connecting the paper to broader themes in the session. Please keep your remarks concise to allow sufficient time for audience participation and debate.

STREAMING

All sessions and the roundtable will be streamed via Microsoft Teams. Participants can share the streaming links with colleagues or co-authors who may be interested in attending remotely, but please do not distribute them publicly to avoid unwanted intrusions.

[SESSION 1 \(WOMI'25\): Collaboration and Knowledge Transformation](#)

[SESSION 2 \(WOMI'25\): Implementation, Data Quality and Regulatory Challenges](#)

[SESSION 3 \(WOMI'25\): AI Adoption and Implementation](#)

[SESSION 4 \(WOMI'25\): Epistemology and Knowledge Co-evolution](#)

[SESSION 5 \(WOMI'25\): Corporate Science and Innovation Dynamics](#)

[SESSION 6 \(WOMI'25\): Social Dimensions and Responsible Innovation](#)

[Roundtable and Closing Remarks \(WOMI'25\)](#)

ROUNDTABLE: Integrating the participation of patients in healthcare research

Friday, 12 December 2025 | 12.05–13.25 | Room: Salón de Actos

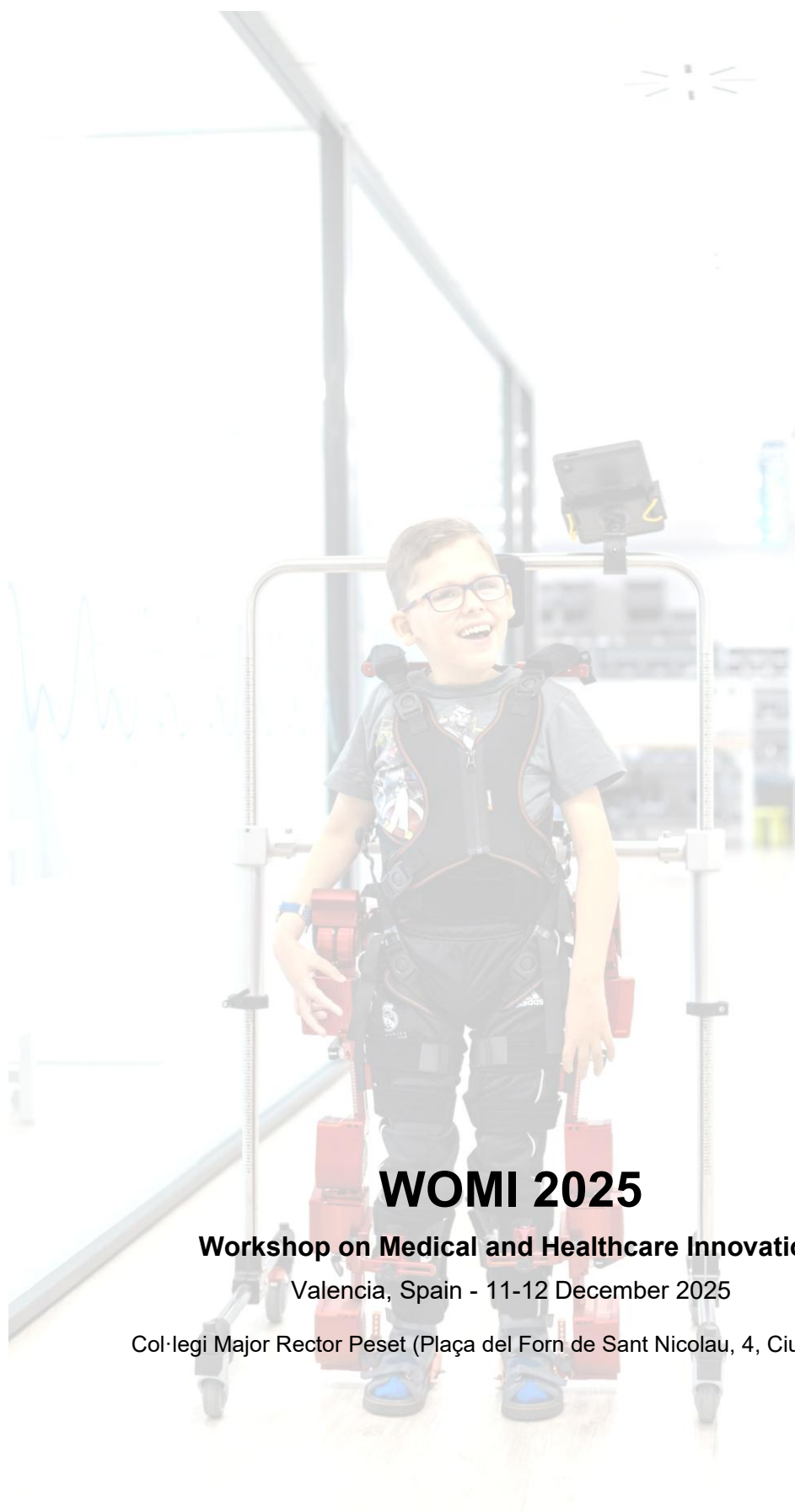
Panelists:

Dr. Verónica Ausina Márquez. President of the Spanish Society of Epidemiology and Oral Public Health (SESPO). Primary Care Dentist at the Clinical Department-Malvarrosa, Ministry of Universal Health and Public Health. Professor at the European University of Valencia. She holds a PhD from Miguel Hernández University (UMH), a Master's in Endodontics from the University of Valencia (UV), a University Specialist degree in Audit and Quality Accreditation in Healthcare Organizations and Practices from the Polytechnic University of Valencia (UPV), and a Master's Degree in Healthcare Management and Administration from the Catholic University of Valencia (UCV).

Mr. Javier Baigorri. President and co-founder of ADM1ES (Spanish Association of Myotonic Dystrophy Type 1 Patients). He has been instrumental in establishing ADM1ES with three core objectives: increasing visibility of ongoing research and clinical trials in DM1, sharing reliable and evidence-based information with patients and caregivers to improve quality of life, and representing the DM1 community before health authorities for the inclusion of future treatments in healthcare coverage. He actively participates in national initiatives such as the DM1-Hub registry, a multicenter project involving 50 hospitals across 8 Spanish regions aimed at improving diagnosis and care for patients with myotonic dystrophy type 1, a rare genetic neuromuscular disease affecting approximately 1 in 10,000 people worldwide.

Mr. Tomás Castillo. Institutional Ambassador of Asociación Amica, where he served as Director-General for 40 years, overseeing four special employment centers with over 670 workers. Vice President of the Platform of Patient Organizations (POP), which he founded and initially chaired. Board member of the FEDER Foundation (Spanish Federation of Rare Diseases) and former President of the Spanish Cystic Fibrosis Federation. He has worked as a consultant for the WHO on the International Classification of Functioning, Disability and Health, and collaborated with IMSERSO and the Government of Cantabria on regional mental health plans. Named "Social Entrepreneur of the Year" in Spain by Ernst & Young. Author of three books on disability, illness, and personal autonomy.

Prof. Ramón Martínez-Máñez. Director of the Inter-University Institute for Molecular Recognition Research and Technological Development (IDM) and Scientific Director of ICTS NANBIOSIS at the Universitat Politècnica de València (UPV). Former Scientific Director of CIBER-BBN (Centre for Biomedical Research Network in Bioengineering, Biomaterials and Nanomedicine). His research focuses on nanoparticles for controlled drug release and chemical sensors for biomedical applications. He has published over 600 articles, supervised 68 doctoral theses, and holds 38 patents. Recipient of the Jaume I Award for New Technologies (2018) and the Juan de la Cierva National Research Award (2024). Co-founder of three spin-offs in nanomedicine and sensors.



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