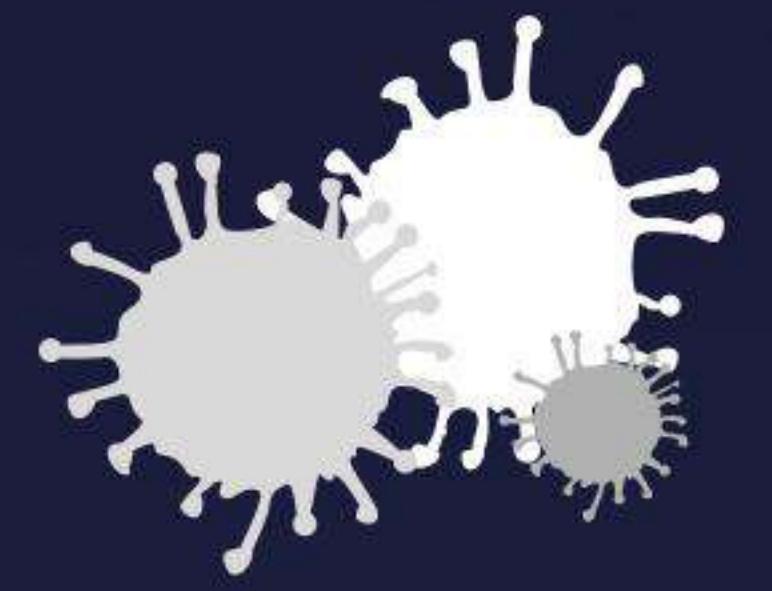


PRELIMINARY PROGRAM



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1ST INTERNATIONAL
MEETING
IN INNOVATION
& SEPSIS

TECNOSEPSIS

2021



10-12 November, 2021



Son Llätzer University Hospital
Palma de Mallorca, Spain





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In recent years, humanity has undergone some of the greatest changes in our history. The new wave of technology innovation is changing our society and leading radical advances across all levels; from communication and energy to finance and health.

The benefits of applying new technology in the field of medicine are undeniable. Today, this is evidenced in specialties such as oncology, radiology, and pharmacology. We are currently living in what is now being regarded as “the new technological convergence in medicine” (citation). This revolutionary transformation of medicine encompasses four fields: atoms (nanoparticles), cells, computing (bits) and finally the cognitive (neural) networks. These different applications ultimately share the same objective: to increase quality and expectancy of life through earlier and more accurate diagnoses and treatments.

More specifically, thanks to the opportunities afforded by new technological advances, the knowledge regarding Sepsis has greatly evolved in the last two decades. This has led to profound discoveries that have generated a new paradigm in care with a significant decrease in the morbidity and mortality associated with this deadly disease.

The application of different technologies such as genomic tools (bioinformatics), nanotechnology, Artificial Intelligence, and telemedicine in the early detection, diagnosis, monitoring and treatment of Sepsis is already advancing a promising future, but we are still at the beginning of this adventure. As a result, a group of multidisciplinary and international experts supported by both public and private institutions started TECNOSPEPIS.

Our main objective with this project is to create a forum for in-depth discussion and dissemination of technological innovations applied to Sepsis and other serious infections. We attempt to include the newest and best health initiatives in technology and Sepsis. With this, we seek to initiate a true change in the paradigm to identify, analyse and spread these new technologies.

We hope that the 1st International Meeting in Innovation and Sepsis (TECNOSEPSIS) can begin to promote important technological research initiatives aimed at Sepsis. With this in mind, we have divided the areas of analysis in the following way: genomics, biomarkers, microbiological diagnostic tests, use of Artificial Intelligence, therapeutic perspectives and innovation in management.

The application of technology in Sepsis must be synonymous with evolution and improvement. This is, it must be dedicated to implementing precision medicine and personalized care. Therefore, we invite you to participate in the first international and multidisciplinary meeting on innovation and Sepsis to collaborate hand to hand in this new path intersecting technology and medicine.

Looking forward to seeing you at TECNOSPEPIS,

Dr. Marcio Borges & Organization





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TECNOSEPSIS

Organizing Committee

Dr. Marcio Borges, Coordinator of Multidisciplinary Sepsis Unit, ICU Department. Associated Professor of Infectious Diseases of the Balearic Islands University. Son Llatzer University Hospital, Palma de Mallorca. Main Investigator of Sepsis Group of the IDISBA.- Director of Sepsis Code of Spain. Director of Sepsis Group of FEPIMCTI. Sepsis Code Foundation President (Spain)

Dr. Javier Pérez Fernández, Medical Director Critical Care Services - Baptist Hospital of Miami (USA)

Dr. Nestor A. Raimondi, Intensive Therapy Director - Juan Fernandez Hospital of Buenos Aires (Argentina) Outgoing President Pan American and Iberian Federation of Critical Medicine and Intensive Therapy (FEPIMCTI)

Dr. Joseph Nates, Deputy Chair Critical Care Department, ICU Medical Director - MD Anderson Cancer Center of Houston (USA) Founding President at Oncologic Critical Care Research Network (ONCCC-R-NET)

Roberto de la Rica, Technology Coordinator of the multidisciplinary Sepsis Group IDISBA (SPAIN)

Francisco Mari Mari, Son Llätzer University Hospital Manager (SPAIN)

Scientific Committee

Ricard Ferrer, Intensive Medicine Services Director, Vall d'Hebron Hospital of Barcelona (Spain) President of the Spanish Society of Intensive Medicine, Criticism and Coronary Units (SEMICYUC)

Dr. Ignacio Martin Loeches, Professor of Intensive Care Medicine in Trinity College of Dublin (Ireland)

Gloria Rodríguez-Vega (Puerto Rico)

Jorge Luis Hidalgo-Marroquín, Professor of Critical Care and Head of the Critical Care Division at Karl Heusner Memorial Hospital (Belice)

Dr Ahsina Jahan Lopa, Consultant and Incharge MH Samorita Hospital and Medical College (Bangladesh)

Dr. Ahmed Reda, MD,FRCP,FCCP,EDIC, FCCM. Clinical Assistant Professor, Cleveland Clinic Lerner College of Medicine. Case Western Reserve University
Cardiac Intensive Care - Institute of Critical Care - Cleveland Clinic Abu Dhabi - UAE



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Local Committee

Dr. Marcio Borges, Sepsis Code Foundation President

Coordinator of Multidisciplinary Sepsis Unit, ICU Department. Associated Professor of Infectious Diseases of the Balearic Islands University. Son Llatzer University Hospital, Palma de Mallorca. Main Investigator of Sepsis Group of the IDISBA. Director of Sepsis Code of Spain. Director of Sepsis Group of FEPIMCTI. (Spain)

Dr. José Barberán, Sepsis Code Foundation Patron

Head of the Internal Medicine Service – Infectious Diseases of the Hospital University Montepríncipe. Full professor of the Faculty of Medicine of the University CEU-San Pablo. Vice-Dean of Hospitals, Faculty of Medicine, Universidad San Pablo-CEU (Spain)

Dr. Ricard Ferrer, Sepsis Code Foundation Patron

Intensive Medicine Services Director, Vall d'Hebron Hospital of Barcelona (Spain) President of the Spanish Society of Intensive Medicine, Criticism and Coronary Units (SEMI-CYUC)

Dr. Emilio Maseda, Sepsis Code Foundation Patron

Surgical Critics Unit. Anesthesiology Service Hospital U. Marqués de Valdecilla, Santander (Spain)

Dr. Miguel Salavert, Sepsis Code Foundation Patron

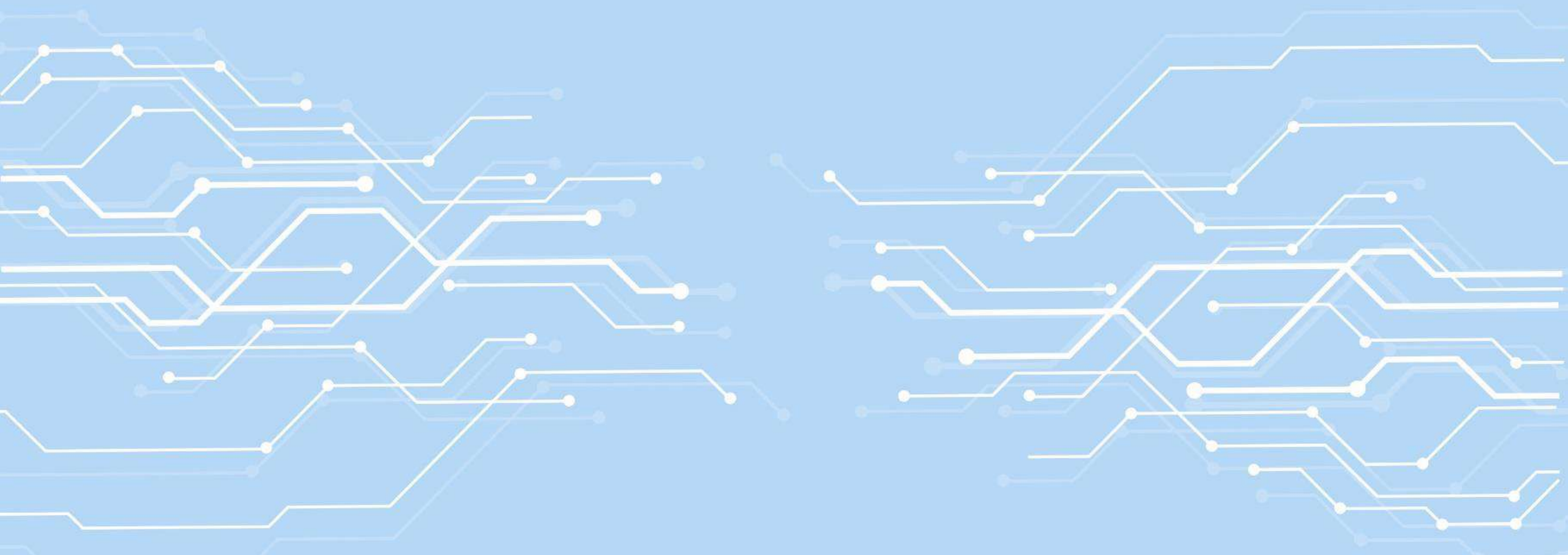
Head of Section of the Infectious Diseases Unit and physician of the Medical Clinical Area (ACM) of the University and Polytechnic Hospital La Fe, of Valencia. (Spain)

Dr. Pablo Vidal, Sepsis Code Foundation Secretary

Intensive Care Medicine Area in Servizo Galego de Saúde, Orense (Spain)

Dr. Rafael Zaragoza, Sepsis Code Foundation Patron

Head of Intensive Care Service. Dr. Peset University Hospital. Coordinator of Transplants of Valencia Community (Spain)





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TECNOSEPSIS

November, 10th

08:15-08:30h	OPENING Organizing committee and authorities
08:30-09:00h	OPENING CONFERENCE Present and future of the sepsis: change of paradigm Presenter: Marcio Borges (Spain) Speaker: Mervin Singer (UK)
09:00-10:30h	SECTION I: Biomarkers I: Role of nanotechnology Moderators: Eugen Ermantraut (Germany) Alberto Escarpa (Spain) Panelists: Roberto de la Rica (Spain) Laura Lechuga (Spain) Martin Dinkel (Switzerland)
10:30-11:00h	Coffee break
11:00-12:30h	SECTION II: Biomarkers II: Old vs New Moderators: Ahsina Jahan (Bangladesh) Roberto de la Rica (Spain) Panelists: Jesus Bermejo (Spain) Alberto Escarpa (Spain) Ignacio Martín-Loeches (Ireland)
12:30-14:00h	SECTION III: The (R)(evolution) of the microbiological tests Moderators: Antonio Oliver (Spain) Gerhaldine Beatriz Morazan Lurssen (Belize) Panelists: Jordi Vila (Spain) Eugen Ermantraut (Germany) M. Pilar Marco (Spain)
14:00-15:00h	Lunch



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November, 10th

15:00-16:30h

SECTION IV: Monitoring, where we are going

Moderators:

Alfredo Matos (Panamá)

Nestor Raimondi (Argentina)

Panelists:

Daniel De Backer (Belgium)

Paulo Mergulhão (Portugal)

Jose Luis Hidalgo-Marroquin (Belice)

16:30-17:30h

Symposium I: Innovation in antibiotic Therapy

Chairman:

Rafael Zaragoza

Speakers:

Ricard Ferrer

Ignacio Martín-Loeches

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Palma de Mallorca, Spain



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November, 11th

- 08:30-09:00h** **Keynote session: Artificial Intelligence (AI) - role in sepsis**
Presenter:
José Barberán (Spain)
Speaker:
Paul WG Elbers (Netherlands)
- 09:00-10:00h** **Symposium II: Culture Independent Diagnostic Tests paving the way to Improved Sepsis Management**
Speaker:
Aparna Ahuja, MD. Chief Medical Officer, T2 Biosystems, Inc

With the collaboration of [werfen](#)
- 10:00-11:15h** **SECTION V: (AI) Paradigm shift in detection and prediction**
Moderators:
Jose Artur Paiva (Portugal)
Emilio Maseda (Spain)
Panelists:
Marcio Borges (Spain)
Lucas Fleuren (Netherlands)
Javier Pérez (USA)
- 11:15-11:30h** Coffee break
- 11:30-12.45h** **SECTION VI: Our future with AI**
Moderators:
Mervin Singer (UK)
Javier Perez (USA)
Panelists:
Álvaro Barbero (Spain)
Paul WG Elbers (Netherlands)
- 12:45-14:15h** **SECTION VII: New therapeutic perspectives I**
Moderators:
Daniel De Backer (Belgium)
Alex Soriano (Spain)
Panelists:
Mervin Singer (UK)
Jose Luis Hidalgo-Marroquin (Belice)
Ignacio Martin-Loeches (Ireland)
- 14:15-15:00h** Lunch



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November, 11th

15:00-16:30h

SECTION VIII: New therapeutic perspectives II

Moderators:

Ahsina Jahan (Bangladesh)

Rafael Zaragoza (Spain)

Panelists:

Craig M. Coopersmith (USA)

Ricard Ferrer (Spain)

Martin Dinkel (Switzerland)

16:30-17:30h

Symposium III: Optimizing Sepsis management by improving its diagnostic and therapeutic approach

Chairman:

Emilio Maseda

Clinical criteria for early identification in patients at risk

Ricard Ferrer

How important is the selection of an appropriate empirical antibiotic treatment in severe nosocomial infection?

Álex Soriano

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20:30h

Tecnosepsis cocktail at Meliá Palma Bay



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TECNOSEPSIS

November, 12th

08:30-09:00h **Keynote session: The personalize medicine in sepsis**

Presenter: Jorge Luis Hidalgo-Marroquin (Belice)
Speaker: Craig M. Coopersmith (USA)

09:00-10:30h **SECTION IX Management & Innovation**

Moderators:

Ricard Ferrer (Spain)

Nestor Raimondi (Argentina)

Panelists:

Jose Artur Paiva (Portugal)

Rajesh Chandra Mishra (India)

Paulo Mergulhão (Portugal)

10:30-11:00 Coffee break

11:00-12:00h **Symposium IV: New perspectives in reducing treatment variability and improving patient outcomes.**

Pending

Pending

Pending

With the collaboration of  **MSD**
INVENTING FOR LIFE

12:00-13:15h **Brainstorming I: Diagnosis and monitoring**

Moderators:

Rajesh Chandra Mishra (India)

Laura Lechuga (Spain)

Panelists:

Jesus Bermejo (Spain)

Daniel de Backer (Belgium)

Aparna Ahuja (United States)

13:15-14:30h **Brainstorming II: New Sepsis Management**

Moderators:

Marcio Borges (Spain)

Javier Pérez (USA)

Panelists:

Paul WG Elbers (Netherlands)

Mervin Singer (UK)

Craig M. Coopersmith (USA)

14:30-15:00h Conclusions and closure



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Son Llàtzer University Hospital
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Webinars

November, 16th

18:00-19:00h

Innovative approach for a better SEPSIS management in CAUSE

Chairman: José Luis Ribes. Head of Clinical Laboratory. Son Llàtzer University Hospital

SEPSIS in Salamanca: situation analysis, challenges and future plans

Javier González Robledo. Intensive medicine specialist. Salamanca University Hospital

Facilitating the automation of the SEPSIS patient pathway through clinical decision support systems

Pablo Manchado. Business unit manager digital services Abbott Iberia

AlinIQ CDS pilot experience in Salamanca: expected impact and lessons learned

Javier González Robledo y Pablo Manchadoital

With the collaboration of  Abbott



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Panel of experts

José Barberán - Head of the Internal Medicine Service – Infectious Diseases of the Hospital University Montepíncipe. Full professor of the Faculty of Medicine of the University CEU-San Pablo. Vice-Dean of Hospitals, Faculty of Medicine, Universidad San Pablo-CEU (Spain)

Álvaro Barbero - Algorithm Engineering Director, Instituto de Ingeniería del Conocimiento (Spain)

Gerhaldine Beatriz Morazan - Baylor College of Medicine, Houston Texas as the AFI (Acute Febrile Illnesses study) Medical Surveillance officer, Belize

Jesús Bermejo - Head of the Biomedical Research Group on Respiratory Infection and Sepsis at IBSAL (Spain)

Marcio Borges - Coordinator of Multidisciplinary Sepsis Unit, ICU Department. Associated Professor of Infectious Diseases of the Balearic Islands University. Son Llatzer University Hospital, Palma de Mallorca. Coordinator of the Multidisciplinary Sepsis Team at IDISBA. Director of Sepsis Code of Spain. Director of Sepsis Group of FEPIMCTI. Sepsis Code Foundation President (Spain)

Craig M. Coopersmith - Director, Emory Critical Care Center. Professor of Surgery, Emory University School of Medicine Atlanta, GA (USA)

Daniel de Backer - Head Department of Intensive Care, CHIREC Hospitals, Brussels. Professor of Intensive Care, Université Libre de Bruxelles, Brussels. ESICM Past President. Président du Certificat Universitaire de Soins Intensifs de l'ULB (Belgium)

Roberto de la Rica - Technology Coordinator of the Multidisciplinary Sepsis Group IDISBA (Spain)

Martin Dinkel - Head of Clinical Affairs. Hemotune AG, Schlieren, (Switzerland)

Alberto Escarpa - Professor of Analytical Chemistry. Editor in Chief, *Microchimica Acta* Department of Analytical Chemistry, Physical Chemistry and Chemical Engineering Faculty of Sciences Alcalá de Henares, Madrid (Spain)

Paul W. G. Elbers - Intensivist in Amsterdam UMC. Laboratory for Critical Care Computational Intelligence Leader. Deputy chair of the Data Science Section of the European Society of Intensive Care Medicine and is chair of Amsterdam Medical Data Science. (The Netherlands)

Eugen Ermantraut - CEO Blinks DX. Jena, Thüringen (Deutschland)

Ricard Ferrer - Intensive Medicine Services Director, Vall d'Hebron Hospital of Barcelona (Spain) President of the Spanish Society of Intensive Medicine, Criticism and Coronary Units (SEMICYUC)

Lucas M. Fleuren - Intensive care adults, Amsterdam UMC, location VUmc, Amsterdam (The Netherlands)

Jorge Luis Hidalgo-Marroquín - Professor of Critical Care and Head of the Critical Care Division at Karl Heusner Memorial Hospital (Belice)

Ahsina Jahan Lopa - Consultant and Incharge MH Samorita hospital and Medical College (Bangladesh)

Prof. Laura Lechuga - Full Professor of the Spanish National Research Council (CSIC) and Head of the Nanobiosensors and Bioanalytical Applications Group at the Catalan Institute of Nanoscience and Nanotechnology (ICN2) in Barcelona (Spain)



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Panel of experts

Prof. Pilar Marco - Head of the Nb4D Research Group Coordinator of the Nanomedicine program of the CIBER-BBN Coordinator of the Diagnostic Strategic Initiative of the PTI+ Salud Global (Spain)

Francisco Mari Mari - Son Llàtzer University Hospital Manager (Spain)

Ignacio Martín-Loeches - Professor of Intensive Care Medicine in Trinity College Dublin (Ireland)

Emilio Maseda - Head of Surgical Critical Care en Hospital Universitario "Marqués de Valdecilla". Santander. (Spain)

Alfredo Matos - HEAD OF ICU Surgery Complex Hospital University CSS of Panamá. President of the Panamanian Association of Medicine Critical and Intensive Therapy (APMCTI). Presidente Elect FEPIMCTI. (Panamá)

Rajesh Chandra Mishra - (Med) FNB (Critical Care Medicine), EDIC, FCCP, FCCM, FICCM FICP, Honorary Consultant Intensivist & Internist, shaibya comprehensive care clinic Ahmedabad President-Elect ISCCM. National Representative India. ESICM

Joseph Nates - Deputy Chair Critical Care Department, ICU Medical Director – MD Cancer Center of Houston. Founding Presidente at Oncologic Critical Care Research Network, ONCCC-R-NET (USA)

Antonio Oliver - Head of the Microbiology Department, Hospital Son Espases, Health research institute of the Balearic Islands (IdISBa), Palma (Spain)

Jose Artur Paiva - Head of Internal Medicine Service of The Hospital Center of São João (Portugal)

Javier Pérez - Medical Director Critical Care Services Baptist Hospital of Miami (USA)

Nestor Raimondi - Intensive Therapy Director Juan Fernández Hospital of Buenos Aires. Outgoing Presidente Pan American and Iberian Federation of Critical Medicine and Intensive Therapy, FEPIMCTI (Argentina)

Ahmed Reda - MD,FRCP,FCCP,EDIC, FCCM. Clinical Assistant Professor, Cleveland Clinic Lerner College of Medicine. Case Western Reserve University
Cardiac Intensive Care - Institute of Critical Care - Cleveland Clinic Abu Dhabi - UAE

Gloria Rodríguez-Vega - Critical Care (Intensivists) specialist in Bayamón (Puerto Rico)

Mervyn Singer - Professor of Intensive Care Medicine, University College London. Secretary and past Chair of the International Sepsis Forum, and a UK National Institute of Health Senior Investigator (United Kingdom)

Álex Soriano - Consultant of Infectious Diseases in the Infectious Diseases Department of the Clinical and Provincial Hospital of Barcelona (Spain)

Pablo Vidal - Intensive Care Medicine Area in Servizo Galego de Saúde, Orense (Spain)

Jordi Vila - Head of the Clinical Microbiology Department of the Hospital Clínic of Barcelona, Professor of the School of Medicine of the University of Barcelona and Research Professor at the Institute of Global Health (ISGlobal) of Barcelona (Spain)

Rafael Zaragoza - Head of Intensive Care Service. Dr. Peset University Hospital. Coordinator of Transplants of Valencia Community (Spain)

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