



## BRAV3 SYMPOSIUM:

NEW FRONTIERS IN CARDIAC REGENERATIVE MEDICINE:  
FROM COMPUTATIONAL AND BEYOND



MADRID, MAY 27 OF 2025

Centro Nacional de Investigaciones Cardiovasculares - CNIC



PROJECT FUNDED BY THE EUROPEAN UNION THROUGH  
THE HORIZON 2020 PROGRAMME



ORGANIZED BY



Universidad  
de Navarra



University Medical Center  
Utrecht



Universidad  
Zaragoza



## GENERAL INFORMATION

### VENUE

CNIC CONFERENCE HALL  
C. de Melchor Fernández Almagro, 3,  
Fuencarral-El Pardo, 28029 Madrid



### MANAGEMENT COMMITTEE

Dr. Felipe Prósper

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*Centro Nacional de Investigaciones Cardiovasculares. Madrid*

### CONTACT

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## BRAV3 SCIENTIFIC PROGRAMME

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TUESDAY MAY 27

08:30 REGISTRATION AND WELCOME COFFEE 

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08:50 Welcome

Prof. Felipe Prosper

[Clínica Universidad de Navarra. Pamplona, Spain.](#)

Dr. David Figueiras

[Centro Nacional de Investigaciones Cardiovasculares. Madrid, Spain.](#)

09:00 A BRAV3 journey: an overview in the context of cardiac tissue engineering research

Dr. Manuel Mazo

[Clínica Universidad de Navarra. Pamplona, Spain.](#)

09:30 Cardiac regeneration: A yet unfinished journey

Prof. Philippe Menasche

[Hospital Européen Georges Pompidou, Paris, France.](#)

10:10 Designing the BioVAD: lessons learned from physics-based mathematical models

Prof. Peter Bovendeerd

[Eindhoven University of Technology, Eindhoven, The Netherlands](#)

10:45 Enabling bioengineering methodologies to create 3D tissues using human cells and human derived proteins

Prof. João Mano

[Aveiro Institute of Materials- Aveiro University, Oporto, Portugal](#)

11:25 Designing, 3D printing and testing of a biological ventricular assist device scaffold

Dr. Tomasz Jüngst

[Wurzburg University, Wurzburg, Germany.](#)

12:00 – 13:00 NETWORKING LUNCH 

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13:10 Biofabrication of a Human Heart Ventricle Model by 3D-Bioprinting of hiPSC-Derived Cardiomyocytes

Prof. Felix Engel

[Erlangen University Hospital, Erlangen, Germany](#)



- 13:50 Engineering human pluripotent stem cells to understand cardiac development and disease  
Dr. Elena Garreta  
[Institute for Bioengineering of Catalonia, Barcelona, Spain.](#)
- 14:25 From hiPSC Differentiation, Cryopreservation, and Biobanking to Translational Human In Vitro Models: A Comprehensive Approach  
Prof. Julia Neubauer  
[Fraunhofer Center for Stem Cell Process Engineering Institute, Fraunhofer, Germany](#)
- 15:10 Nature-inspired bioprocesses to accelerate the manufacture of hPSC-cardiac cells: bridging biology and engineering  
Dr. Margarida Serra  
[Institute of Experimental Biology and Technology, Lisbon, Portugal.](#)
- 15:45 Post-infarction cardiac repair using an innovative biological assist in BRAVE: the challenge of translation  
Dr. Stefan Janssens  
[KU Leuven, Leuven, Belgium.](#)
- 16:20 Tissue engineered heart repair – from bench to bed  
Prof. Wolfram Zimmermann  
[University Medical Center Göttingen, Göttingen. Germany.](#)
- 17:00 **CLOSING CEREMONY**

