



# CELL THERAPY: FROM THE BENCH TO THE BEDSIDE AND RETURN

14<sup>th</sup> Edition

## Directors:

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Murcia 30 September- 2 October 2020



TerCel | isciii  
Red de Terapia Celular



**Place:** Online course

**Phone:** (+34) 902 32 55 25

**Duration:** 9 hours / **Price:** 20 €

**Registration Deadline:** 21/09/2020

**More Information and Registration Form:** [www.um.es/unimar](http://www.um.es/unimar)

[www.campusmarenostrium.es](http://www.campusmarenostrium.es)

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**INTERNATIONAL SUMMER COURSE.  
MURCIA UNIVERSITY 2020**

**CELL THERAPY: FROM THE BASIC SCIENCE TO THE CLINIC AND RETURN**  
14<sup>th</sup> Edition

Dates: 30 September 2 October

**Aims**

The COVID-19 pandemic has changed our lives and the style of life of the individuals and the society. It has defied the health care systems and the socio-economic welfare model. This year we have suffered terrible loses in human lives and we have confronted a new viral devastating disease. Therefore, the aim of this year's course is to spread the scientific knowledge of the SARS-CoV-2 infection and its treatment. Also, we will analyze the impact of the pandemic in different social aspects including education and research. We will discuss the role of Cell therapy in this disease and its eventual applications.

The course is intended to provide a review of current knowledge of COVID-19 disease with experts in the field and to present different treatment approaches including cell therapy.

**Specific Course Objectives are:**

- To analyze the etiology, pathogenesis, clinical features, diagnosis and pathology findings of COVID-19.
- To analyze the different therapeutic approaches, including experimental therapies.
- To discuss the present status of preclinical studies and clinical trials of stem cell therapy for COVID-19.
- To discuss different sociological aspects of the COVID-19 impact.



**Wednesday 30**

**COVID-19 DISEASE. CELL THERAPY: SCIENTIFIC BASIS FOR ITS THERAPEUTIC USE**

**Session 1. COVID-19 disease**

**16:00-16:15 h. SARS-CoV-2 Virological aspects.**

**Antonio Moreno Docón**

*Professor of Medicine. University of Murcia. IMIB-Arrixaca, Virology Dpt. Microbiology Service. Virgen de la Arrixaca University Hospital. Murcia, Spain.*

**16:15-16:30 h. Covid Disease. Immunopathogenesis. The role of the immune system.**

**Prof. Agustín Zapata**

*Professor of Cell Biology. Complutense University of Madrid. Spain.*

**16:30-16:45 h. Covid Disease. Lymphocyte quality and subtype matters. New findings.**

**Prof. Bruno Paiva**

*Professor of Medicine. University of Navarra, Pamplona. Spain.*

**16:45-17:00 h. Covid Disease. Lymphocyte numbers matter. Immunobiology of Lymphopenia.**

**Prof. Robert Sackstein**

*Dean of the Herbert Wertheim College of Medicine and Senior VP for Health Affairs, Florida International University. USA.*

**17:00-17:15 h. Covid Disease. The impact on the coagulation system. Immunothrombosis.**

**Prof. Victor Jimenez Yuste.**

*Professor of Hematology. Autonomous University. University Hospital La Paz. Madrid. Spain.*

**17:15-17:30 h. Covid Disease. Clinical Diagnosis and treatment. State of the art.**

**Prof. Santiago Moreno Guillen**

*Professor of Medicine. Head Infectious disease Dpt. Ramón y Cajal University Hospital Madrid. Spain.*

**17:30-17:45 h. Questions' time & Discussion:**

**Prof. Francisco José Ruiz López**

*Professor of Medicine. University of Murcia. IMIB-Arrixaca, Head Neumology Dpt. Virgen de la Arrixaca University Hospital. Murcia, Spain*

**Session 2. COVID-19. Experimental therapy approaches**

**17:45-18:00 h. Covid Disease. Convalescent plasma treatment.**

**Prof. Rafael Duarte Palomino**

*Head Hematology Dpt. University Hospital Puerta de Hierro. Madrid. Spain.*

**18:00-18:15 h. Covid Disease. Endothelial protection approaches. Defibrotide**

**Prof. Jose María Moraleda Jiménez**

*Professor of Medicine. University of Murcia. Head, Hematology Dpt and HSCT Program. IMIB-Arrixaca, Virgen de la Arrixaca University Hospital. Murcia. Spain.*

**18:15-18:30 h. Covid Disease. Anti-stress cell therapy with 4 phenilbutirate.**

**Prof. Iván Durán**

*Professor of Cell Biology. University of Malaga. Spain.*

**18:30-18:45 h. SARS-CoV-2 Experimental viral block approaches in micro-organs/organoids.**

**Prof. Nuria Monserrat Pulido.**

*Principal investigator. Institute for Bioengineering of Catalonia (IBC). Barcelona. Spain.*

**18:45-19:00 h. Questions' time & Discussion:**

**Prof. Elisa García Vázquez**

*Professor of Medicine. University of Murcia. IMIB-Arrixaca, Head Infectious disease Dpt. Virgen de la Arrixaca University Hospital. Murcia, Spain*



**Thursday 1 October.**  
**MSC THERAPY AGAINST COVID-19**

- 16:00-16:15 h. MSC the biological power of a cell medicine. Rationale of use in COVID-19**  
**Prof. Felipe Prósper Cardoso.**  
*Director of Cell Therapy Department. Co-director Hematology Department. University of Navarra. Spain.*
- 16:15-16:30 h. MSC Against Covid Disease. Spanish preliminary experience of TerCel (adipose tissue MSC)**  
**Prof. Fermin Sanchez-Guijo.**  
*Professor of Hematology. Hematology Department. University Hospital of Salamanca. University of Salamanca. Spain.*
- 16:30-16:45 h. MSC Against Covid Disease. USA preliminary experience (bone marrow MSC)**  
**Prof. Fiona See (confirmation pending)**  
*Research & New Product Development, Mesoblast. USA.*
- 16:45-17:00 h. MSC can transcend perianal Crohn's disease. How colo-rectal surgeons can help in the Covid-19 crisis.**  
**Prof. Amy Lightner.**  
*Associate Professor of Colorectal Surgery. Digestive Disease Institute. Cleveland Clinic. Cleveland. USA.*
- 17:00-17:15 h. MSC Against Covid Disease. Bone marrow as source for the treatment of COVID.**  
**Prof. Javier García Sancho.**  
*Professor of Physiology. School of Medicine. Institute of Biology and Molecular Genetics (IBGM). University of Valladolid. Spain.*
- 17:15-17:30 h. MSC Against Covid Disease. Wharton jelly as a source for the treatment of COVID.**  
**Prof. Joan García López.**  
*ISCT Regional Vice-President. Director of Research and Education. Banc de Sang y Teixits. Barcelona. Spain.*
- 17:30-17:45 h. MSC Against Covid Disease. A world's overview.**  
**Prof. Mariano García Arranz.**  
*Senior Scientist. Fundación Jimenez Diaz University Hospital. Autonomous University of Madrid. Madrid, Spain.*
- 17:45-18:00 h. Lymphocyte cell treatment against Covid disease.**  
**Prof. Antonio Pérez Martínez.**  
*Head Department of Pediatric Hematology. University Hospital La Paz. Madrid, Spain.*
- 18:00-18:15 h. Covid-19. Long term impact on body oxygen sensing.**  
**Prof. Juan Jose Toledo Aral.**  
*Professor of Physiology. Director of the Dpt. of Medical Physiology and Biophysics. Institute of Biomedical Research of Seville. IBI, Virgen del Rocío Hospital/CSIC/University of Sevilla, Spain.*
- 18:15-18:30 h. Covid Disease. Experimental clinical trials proposals in Spain.**  
**Prof. Cesar Hernández García.**  
*Head Department of Clinical Trials. Spanish Agency of Medicaments and Health Products.*
- 18:30-18:45 h. Questions' time & Discussion.**  
**Prof. Alejandro Madrigal.**  
*Professor of Haematology, UCL Cancer Institute. Honorary Consultant, Royal Free NHS Trust. UCL, London. UK.*  
**Prof. Damián García Olmo.**  
*Professor of Surgery. Chief of Department of Surgery. Fundación Jiménez Diaz University Hospital. Autonomous University of Madrid. Spain.*



## Friday 2 October

### COVID IMPACT IN THE HUMAN BODY, THE HEALTH CARE SYSTEM AND SOCIETY.

#### Session 1.

- 16:00-16:15 h. Covid-19 Long term impact on the respiratory system.**  
**Prof. Rubén Jara Rubio**  
*Professor of Medicine. University of Murcia. IMIB-Arrixaca. Head intensive care Unit. Virgen de la Arrixaca University Hospital. Murcia, Spain.*
- 16:15-16:30 h. Covid-19 Long term impact on the Cardiovascular system.**  
**Prof. Francisco Fernández Avilés.**  
*Professor of Cardiology. Complutense University of Madrid. Head cardiology Dpt. University hospital Gregorio Marañón, Madrid, Spain.*
- 16:30-16:45 h. Covid-19 Long term impact on the central nervous system.**  
**Prof. Salvador Martínez Pérez**  
*Professor of Neurosciences. Director Neurosciences institute. Miguel Hernández University. Alicante. Spain.*
- 16:45-17:00 h. Questions' time & Discussion.**  
**Prof. Bartolomé García Pérez (MI).**  
*Professor of Medicine. University of Murcia. Head Internal Medicine Dpt. Virgen de la Arrixaca University Hospital. Murcia, Spain.*

#### Session 2.

- 17:00-17:15 h. Covid-19 National Epidemiologic study and its impact on public health.**  
**Prof. Raquel Yotti Alvarez.**  
*Director. Institute of Health Carlos III. Ministry of Science and Innovation. Spain.*
- 17:15-17:30 h. Covid-19 impact on the Spanish Transplant System.**  
**Prof. Beatriz Domínguez-Gil.**  
*Director. National Transplant Organization (ONT). Madrid, Spain.*
- 17:30-17:45 h. Covid-19 Impact on the health care workers and patients. A bidirectional view.**  
**Prof. María Dolores Caballero Barrigón.**  
*Professor of Hematology. University of Salamanca. Spain.*
- 17:45-18:00 h. Covid-19 A continuous evolutionary challenge.**  
**Prof. José Sebastián Carrión García.**  
*Professor of Evolutive Biology. University of Murcia. Spain.*
- 18:00-18:15 h. Covid-19. The strategic view from the health care system. A sight to the future.**  
**Prof. Silvia Calzón (confirmation pending).**  
*Secretary of State for Health. Ministry of Health, Consumption and Social Welfare. Spain.*
- 18:15-18:30 h. Questions' time & Discussion.**  
**Prof. José María Moraleda. Prof. Salvador Martínez. Prof. Damián García Olmo**
- 18:30 h. Closing ceremony and awarding of certificates**