

Lecturers



< **Dr. Simo Schwartz Jr**
Vall d'Hebron Hospital -
CIBBIM Nanomedicine,
Barcelona, Spain



< **Prof. Patrick Hunziker**
International Society for
Nanomedicine (ISNM)



< **Prof. Vechezkel
Barenholz**
Hebrew University, Israel



< **Prof. Kenneth
Dawson**
University College Dublin,
Ireland



< **Prof. Janos Szebeni**
Semmelweis University
of Medicine, Hungary



< **Prof. Alberto Gabizon**
Hebrew University-School of
Medicine, Jerusalem, Israel



< **Prof. Maria Vallet**
Complutense University
of Madrid, Spain



< **Prof. Antoni Villaverde**
Autonomous University
of Barcelona (UAB), Spain



< **Dr. M^a Jesús Vicent**
Centro de Investigación
Príncipe Felipe, Valencia,
Spain



< **Dr. Joy Wolfram**
Department of Transplantation,
Mayo Clinic, USA



< **Prof. Víctor Puentes**
Vall d'Hebron Hospital - CIBBIM
Nanomedicine, Barcelona, Spain



< **Prof. Alvaro Somoza**
IMDEA Nanoscience Institute,
Madrid, Spain



< **Prof. Quentin
Pankhurst**
University College London
(UCL), UK



< **Prof. Rutledge Ellis-Behnke**
Medical Faculty Mannheim of the
University of Heidelberg, Germany



< **Dr. Joaquim Vives**
Blood and Tissue Bank (BST),
Barcelona, Spain



< **Dr. José Manuel
Baena**
Regemat 3D, Granada, Spain



< **Prof. Laura Lechuga**
Catalan Institute of Nanoscience
and Nanotechnology (ICN2), CSIC,
Barcelona, Spain



< **Prof. Jaume Veciana**
Institute of Materials Science
of Barcelona (ICMAB), CSIC-
UAB, Spain



< **Dr. Beat Loeffler**
European Foundation for
Clinical Nanomedicine
(CLINAM), Basel, Switzerland



< **Dr. Ibane Abasolo**
Vall d'Hebron Hospital - CIBBIM
Nanomedicine, Barcelona, Spain



< **Dr. Angel del Pozo**
BIOPRAXIS, Barcelona, Spain



< **Dr. Pau Gorostiza**
Institute for Bioengineering
of Catalonia (IBEC), Barcelona,
Spain



< **Dr. Samuel Sánchez**
Institute for Bioengineering
of Catalonia (IBEC), Barcelona,
Spain

2nd SUMMER SCHOOL OF EUROPEAN & INTERNATIONAL SOCIETIES FOR NANOMEDICINE (ESNAM/ISNM)



September 28-29, 2017

Vall d'Hebron University Hospital
Barcelona, Spain

Wednesday, September 27

19:00 – 21:00 Welcome Reception for invited lecturers

Thursday, September 28

08:00 – 08:45 Registration

08:45 – 09:00 Opening and welcome remarks.

Dr. Simó Schwartz Jr, President ESNAM.

Prof. Patrick Hunziker, President ISNM

Session 1. Nanomedicine: Introductory Sessions

09:00 – 09:40 Plenary Lecture 1. **Historical perspective and clinical applications.** Prof. Vechezkel Barenholz.

Hebrew University, Israel

09:40 – 10:20 Plenary Lecture 2. **Is a Microscopic Understanding of Biological Recognition on the Nanoscale required for Key Advances in Nano-Therapeutics?.**

Prof. Kenneth Dawson. University College Dublin, Ireland

10:20 – 11:00 Plenary Lecture 3. **Immunity and safety of nanomedicines.** Prof. Janos Szebeni. Semmelweis University of Medicine, Hungary

11:00 – 11:20 Coffee break

Session 2. Therapeutics / nanopharmaceuticals

11:20 – 12:00 Plenary Lecture 4. **Nanolipidic drugs.**

Prof. Alberto Gabizon. Hebrew University-School of Medicine, Jerusalem, Israel

12:00 – 12:40 Lecture 1. **Multifunctional Nanosystems.**

Prof. Maria Vallet, Complutense University of Madrid, Spain

12:40 – 13:20 Lecture 2. **Protein delivery.** Prof. Toni Villaverde. Autonomous University of Barcelona (UAB), Spain

13:20 – 14:00 Lunch

14:00 – 14:40 Lecture 3. **Polymer therapeutics.** Dr. María Jesús Vicent. Centro de Invest. Príncipe Felipe, Valencia, Spain

14:40 – 15:20 Lecture 4. **Modulating macrophage activity to improve nanoparticle biodistribution.** Dr. Joy Wolfram, Department of Transplantation, Mayo Clinic, USA

15:20 – 16:00 Lecture 5. **Nanoparticles against human diseases.** Prof. Víctor Puentes. Vall d'Hebron Hospital – CIBBIM Nanomedicine, Barcelona, Spain

16:00 – 16:20 Coffee break

Session 3. NoCanTher Workshop: Diagnostic Imaging and Theranostic

16:20 – 17:00 Lecture 6. **Clinical applications of magnetic carriers: overview.** Lecturer to be confirmed

17:00 – 17:40 Lecture 7. **NoCanTher – Project overview.** Prof. Alvaro Somoza, IMDEA Nanoscience Institute, Madrid, Spain

17:40 – 18:20 Lecture 8. **Resonant Circuits Limited. The view of industry: the past and present projects on magnetic treatment of cancer.** Prof. Quentin Pankhurst, University College London (UCL), UK

18:20 – 18:40 **NoCanTher Student Award.** Flash presentations Awards

18:40 – 19:00 Lesson learnt from NoCanTher people

19:00 – 19:40 **Structure-function Relationships of Intelligent Nanomaterials.** Prof. Patrick Hunziker, President of ISNM

21:00 Welcome dinner

Friday, September 29

Session 4. Advanced Therapies

09:00 – 09:40 Plenary Lecture 5. **New Molecular Medical Devices.** Prof. Rutledge Ellis-Behnke. Medical Faculty Mannheim of the University of Heidelberg, Germany

09:40 – 10:20 Lecture 9. **Development of cell-based therapeutics.** Dr. Joaquim Vives, Blood and Tissue Bank (BST), Barcelona, Spain

10:20 – 11:00 Lecture 10. **3D printing of medical devices and the emerging field of bioprinting.** Dr. José Manuel Baena, Regemat 3D, Granada, Spain

11:00 – 11:20 Coffee break

Session 5. Biosensing devices

11:20 – 12:00 Lecture 11. **Decoding the epigenome for cancer diagnosis with label-free biosensor devices.** Prof. Laura Lechuga. Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC, Barcelona, Spain

Session 6. **Clinical applications of nanomedicines**
12:00 – 12:40 Lecture 12. **Lipid-based Nanovesicles for Nanomedicine. Applications in rare diseases.**

Prof. Jaume Veciana. Institute of Materials Science of Barcelona (ICMAB), CSIC-UAB, Spain

12:40 – 13:20 Lecture 13. **Nanomedicine conjugates**

against CSC. Dr. Simo Schwartz Jr., Vall d'Hebron Hospital – CIBBIM Nanomedicine, Barcelona, Spain

13:20 – 14:00 Lunch

Session 7. Industrial translation of Nanomedicines

14:00 – 14:40 Lecture 14. **Preclinical validation of nanomedicines.** Dr. Ibane Abasolo. Vall d'Hebron Hospital – CIBBIM Nanomedicine, Barcelona, Spain

14:40 – 15:20 Lecture 15. **Nanomedicine – Industrial translation and trials.** Dr. Ángel del Pozo. BIOPRAXIS, Bilbao, Spain.

15:20 – 15:40 Coffee break

Session 8. Future prospects

15:40 – 16:20 Lecture 16. **Photo-Pharmacology against chronic pain. Optical Nanoswitches.** Dr. Pau Gorostiza. Institute for Bioengineering of Catalonia (IBEC), Barcelona, Spain

16:20 – 17:00 Lecture 17. **Enzyme powered motors towards biomedical applications.** Dr. Samuel Sánchez. Institute for Bioengineering of Catalonia (IBEC), Barcelona, Spain

17:00 – 17:40 Lecture 18. **From Virtual back to Face to Face – How to make Nanomedicine a Market.** Dr. Beat Loeffler. CEO of the European Foundation for Clinical Nanomedicine (CLINAM), Basel, Switzerland

17:40 Closing remarks. Dr. Simó Schwartz Jr, President ESNAM.

General Information

Date: September 28-29, 2017

Venue: Vall d'Hebron University Hospital (General Area). Passeig de la Vall d'Hebron 119-129. 08035 Barcelona, Spain

Registration fee: 300 € (early bird). Early bird registration ends on June 30, 2017 (after this date accommodation will not be provided)

Fee includes: Access to all sessions / Coffee and soft drinks in scheduled pauses / Accommodation in student residence (2 nights) / Dinner on Thursday 28 · Official language: English · More information: info@cibbim.eu

For registrations please e-mail to antoni@solidviatges.com