Lecturers

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

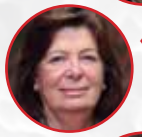
Prof. Patrick Hunziker
International Society for Nanomedicine (ISNM)

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. Mª Jesús Vicent
Centro de Investigación Príncipe Felipe, Valencia, Spain

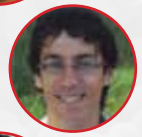
Dr. Joy Wolfram
Department of Transplantation, Mayo Clinic, USA

Prof. Víctor Puntes
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

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

September 28-29, 2017
Vall d'Hebron University Hospital
Barcelona, Spain

ISNM International Society for Nanomedicine

ESNAM European Society for Nanomedicine

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. Yechezkel 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 Puntes. 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

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

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