

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

Nanomedicine: Introductory sessions

Therapeutics / nanopharmaceuticals

NoCanTher Workshop: Diagnostic Imaging and Theranostic

Advanced Therapies

Biosensing devices

Clinical applications of nanomedicines

Industrial translation of nanomedicines

Future prospects



ISNM International Society
for Nanomedicine

ESNAM
European Society for Nanomedicine

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

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

Lecturers



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



< **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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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

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 Investigación 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

20:00 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. Simó 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 Closing remarks. **Dr. Simó Schwartz Jr.**, President ESNAM.

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