



Nanobiosensors and printed biosensors

Tuesday, 25th March

Michal Otyepka

13:30 – 14:00

Registration

14:00 – 14:10

Susnano Project Opening Ceremony

14:10 – 14:50

Fabiana Arduini (University Tor Vergata in Rome)

Paper-based electrochemical (bio)sensors: where we are and where we are going

14:50 – 15:20

Ivan Dědek (UPOL-CATRIN)

A Novel Biosensing Mechanism Based on Single-Atom Engineering for Rapid Detection of Antibodies

15:20 – 15:50

Carla Arroyo (IBEC)

Implantable electrochemical sensors for early detection of heart failure

15:50 – 16:20

Coffee break

16:20 – 17:00

Alessandro Silvestri (Ca'Foscari University of Venice)

Nanomaterial-based smart inks for inkjet-printed electrochemical sensors

Arben Merkoci

17:00 – 17:30

Mónica Mir (IBEC)

Biosensors integrated in blood brain barrier on a chip

17:30 – 18:00

Flashes

18:00 – 19:30

Poster session with refreshments





Nanobiosensors and printed biosensors



Wednesday, 26th March

Petr Jakubec

10:00 – 10:40

Ondřej Zítka (Mendel University Brno)

Presentation on biomarkers

10:40 – 11:10

Lukáš Spíchal (UPOL–CATRIN)

Presentation on chemical biology of plant hormones

11:10 – 11:40

Mariana Rossetti (ICN2, Spain)

*Programmable DNA-based Scaffolds: A Molecular
Toolbox for Sensing Applications*

11:40 – 12:20

Michal Žák (OPV Ltd.)

*Challenges in the Behavior, Detection, and Remediation
of Micropollutants in Hydrogeological Practice.*

12:20 – 13:30

Lunch break

13:30 – 14:10

**José Flauzino, Selin Olenik (Imperial College
London)**

*NFC-powered sensors for rapid and real-time precision
diagnostics in agriculture and healthcare*

14:10 – 14:40

Jan Zdražil (UPOL-CATRIN)

AI-driven Plant Sensing

Majlinda Vasjari





Palacký University
Olomouc



CATRIN
Czech Advanced
Technology and Research
Institute

SPRING SCHOOL ON

Nanobiosensors and printed biosensors



Majlinda Vasjari

14:40 – 15:10

Massimo Urban (ICN2, Spain)

Accessible Fabrication of Nanobiosensors: Consumer Inkjet Printing for Scalable Diagnostics

15:10 – 15:40

Coffee break

15:40 – 16:10

Martin-Alex Nalepa (UPOL-CATRIN)

Inkjet printing as a tool for sensors development

16:10 – 16:40

Lueda Kulla (University of Tirana, Albania)



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Nanobiosensors and printed biosensors



Thursday, 27th March, Hands-on

09:30 - 13:00

Workshops in Laboratories (*Tour the Labs,
Printing of sensors, Sensing*)

13:00 - 14:20

Lunch break

14:20 - 15:00

Closing session



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