



UNIVERSITÀ DEGLI STUDI DI MILANO

DIPARTIMENTO DI BIOSCIENZE

23rd July 2019, Room G23 – via Golgi 19

JRC – DBS BILATERAL MEETING PROGRAM

Joint Research Centre (JRC) – Ispra & Department of Biosciences (DBS) - University of Milan

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| 9.00 AM | Opening |
| 9.00 – 9.15 AM | Welcome and brief presentation of DBS mission and goals, by <i>Lucia Colombo</i> |
| 9.15 – 9.30 AM | Brief Presentation of the JRC structure, mission and goals, by <i>Matteo Fornara</i> |
| 9.30 – 9.45 AM | Presentation of Directorate F and F.2 Unit, by <i>Arnd Hoeveler</i> |

9.45 – 10.50 AM

THEME 1 – DETECTION, CHARACTERISATION AND ENVIRONMENTAL EFFECTS OF MICRO- AND NANOPLASTICS

Chaired by *Luca Gianfranceschi* (DBS)

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| 9.45 – 10.05 AM | Talk 1: The never-ending story of plastics' pollution: the micro- and nanoplastics (A. Binelli, DBS) |
| 10.05 – 10.20 AM | Talk 2: What can the analytics of nanomaterials bring to the detection of microplastics? (D. Gilliland, JRC) |
| 10.20 – 10.35 AM | Talk 3: From release to toxicity: the impact of microplastics in freshwaters (S. Magni, DBS) |
| 10.35 – 10.50 AM | Open discussion, Q&A |
| 10.50 – 11.15 AM | <i>Coffee break</i> |

11.15 – 12.15 PM

THEME 2 – DEVICES AND MODELS IN BIOMEDICINE

Chaired by *Marco Muzi Falconi* (DBS)

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| 11.15 – 11.45 AM | Talk 4: Models for biomedicine and biotechnology: an overview (T. Vaccari, DBS) |
| 11.45 – 12.00 PM | Talk 5: Human cells and organoids in biomedicine (E. Cattaneo, DBS) |
| 12.00 – 12.15 PM | Open discussion, Q&A |

12.15 – 1.30 PM

THEME 3 – SPECTROMICROSCOPIES TECHNIQUES IN BIOAPPLICATIONS (EM, XPS, SIMS, Synchrotrons...)

Chaired by *Martino Bolognesi* (DBS)

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| 12.15 – 12.30 PM | Talk 6: From research to harmonized testing: the case study of the hydrophobicity of nanomaterials (A. Valsesia, JRC) |
| 12.30 – 12.45 PM | Talk 7: NOLIMITS: an advanced imaging facility (A. Costa, DBS) |
| 12.45 – 1.00 PM | Talk 8: Surface analysis of nanomaterials: needs & challenges (G. Ceccone, JRC) |
| 1.00 – 1.15 PM | Talk 9: Structural biology: X-ray, s.p. cryo-EM and more (M. Bolognesi, S. Ricagno, DBS) |
| 1.15 – 1.30 PM | Open discussion, Q&A |
| 1.30 – 2.15 PM | <i>Light lunch buffet</i> |

2.15 – 3.15 PM

DIGITAL POSTER SESSION

Chaired by *Thomas Vaccari* (DBS)

A number of digital posters on other themes have been selected both at the JRC and DBS. Each poster will have 5 minutes + 3 minutes Q&A to present to the whole audience.

1. S. Bremer, Establishment of a Tiered testing approach for the In vitro assessment of "real-world" nanoplastics (JRC)
2. J. Riego-Sintes, JRC science policy on Nanomaterials (JRC)
3. P. Colpo, Outreach project & JRC Open access activities (JRC)
4. M. Mendes, Plant Fertilization and Climate change (DBS)
5. S. Oliveto, Microfluidic based analysis of the translation of tumor infiltrating lymphocytes (DBS)
6. M. Mazzanti, Identifying surface membrane receptors in solid tumor cells (DBS)
7. M. Paroni, Interplay between Crohn's disease-associated adherent-invasive *Escherichia coli* (AIEC) and intestinal mucosal immune system (DBS)
8. D.S. Horner, Bioinformatics at DBS (DBS)

3.15 – 3.45 PM

FINAL DISCUSSION AND REMARKS

Led by *E. Cattaneo*, DBS & *A. Hoeveler*, JRC

Questions and themes for discussion can be collected also prior to the meeting

3.45 PM *End of the meeting*