



ASTROTECH



Consiglio Nazionale  
delle Ricerche

*2<sup>nd</sup> ASTROTECH School "Studying Materials-Glial cells interfaces"*

**19<sup>th</sup> April -21<sup>st</sup> April**

Area Territoriale della Ricerca di Bologna

Via Gobetti 101, 40129,

Bologna, Italy

(Gotomeeting Link:

<https://meet.goto.com/561889837> )

**Organizing Committee:** Valentina Benfenati, CNR-ISOF; Luca Maiolo, CNR-IMM; Emanuela Saracino, CNR-ISOF, Katherine Konstantoulaki, CNR-ISOF, Diletta Spennato, CNR-ISOF, Roberta Fabbri CNR-ISOF; Giorgia Conte CNR-ISOF.

**Tuesday, 19<sup>th</sup> April 2022**

**9.00-9.30 Workshop registration**

9.30 **Vincenzo Palermo** – Director of CNR-ISOF *Welcome and openings*

9.35-13.00 - Session I - **Materials-Glial-interfaces: inorganic materials fabrications and characterization** – Chair: Valentina Benfenati

9.35 **Valentina Benfenati** – CNR-ISOF - School program overview-

9.40 **Luca Maiolo**, CNR-IMM

*Flexible electronics based on inorganic materials for glial sensing*

10.40-11.00 **Coffee break**

11.00 **Matteo Ferroni-Vittorio Morandi**, CNR-IMM,

*SEM and TEM methods for materials surfaces and interfaces characterization*

12.00 **Andrea Candini**, CNR-ISOF

*AFM characterization of materials interfaces and surface properties*

13.00-14.00 Lunch



**2<sup>nd</sup> ASTROTECH School on Glial materials interfaces**



14:00 Short visit to the clean room of the CNR-IMM in Bologna

*14.00-15.30 CNR-IMM - TEM, SEM-FEG ed ESEM – Three groups of up to 5 people each, three 30 'slots that rotate on three instruments (Vittorio Morandi-Matteo Ferroni)*

*15.30-17.00 CNR-ISOF - Practical demonstration of AFM surface characterization (Andrea Candini). Cell culture plating, Cell Viability Assay (Emanuela Saracino, Giorgia Conte)*

**Wednesday, 20<sup>th</sup> April 2022**

(Gotomeeting Link:

<https://meet.goto.com/561889837> )

9.00-12.30 - Session II - **Materials-Glial-interfaces: materials, interfaces and cell models– Chair: Luca Maiolo**

9.00 - Tamara Posati, CNR-ISOF,

*Nanostructured Layered Hydrotalcites and Silk Fibroin Biopolymers as materials for glial interfaces*

10.00 - Emanuela Saracino, CNR-ISOF

*Primary 2D and 3D cell culture models to study astrocytes*

**11.00- 11.30 Coffee break**

11.30 - Valentina Benfenati, CNR-ISOF

**Functional studies to characterize cell-materials interaction**

12:30 – 14 Lunch

**14.00-15.30** *Three groups of 5 ESRs each, three slots of 30' that rotate on three practical courses.*

1)Hydrotalcite/Silk fibroin processing and film preparation (Tamara Posati, Marta Giannelli);  
2)calcium imaging on primary neural cells (Roberta Fabbri, Giorgia Conte); 3)dynamic confocal imaging on 3D cell culture (Diletta Spennato-Chiara Lazzarini)

**5 pm Bologna City Tour**

**21<sup>st</sup> April 2022**

(Gotomeeting Link:

<https://meet.goto.com/492729253> )

**Tuesday 21<sup>st</sup> April 2022**

9.30-12.30 - Session III – **Science is not only Research – Chair: Valentina Benfenati**

9.20 - Mila d'Angelantonio-CNR-ISOF - Sveva Avveduto-CNR-IRPPS - Mariangela Ravaioli-CNR-ISMAR- Associazione Donne e Scienza:

*Gender issue impact on women scientific life: creating network between different skills for positive action in good quality, equitable and inclusive science careers*



10.15 - Michele Muccini- Mister Smart Innovation:

*Scientific knowledge valorization: why and how to pursue it*

11:00 – Giovanna Sotgiu- CNR-ISOF – Kerline srl

*Keratin Biopolymer: from research to SME*

**12.00 conclusions and remarks**

**12.30-13.30 Lunch**

13.30 – 17.30 @all ESRs and PIs

*Preparation to mid-term review meeting with the PO*

**20.30 ASTROTECH Project Dinner at Cantina Bentivoglio**

***Address for those who will stay at***

***Hotel Trevecchi***

Via dell'Indipendenza, 47, 40121 Bologna BO

