Best prActices to stuDy non-coding RNAs: bridging basic science and applied rEsearch

BRIDGE-ncRNA Winter School – 1st ed. 2027

- Programme -

Day 1 – Tuesday, 16 March 2027

10:00 – 10:30	Registration & Welcome Coffee
10:30 – 10:45	Opening Remarks by the Organizers
10:45 – 11:30	**Bastian Fromm**
	Title: "Knowing is not enough; we must apply: the case for rigorous microRNA annotation standards"
11:30 – 12:15	**Germano Cecere**
	Title: "Small RNAs in Epigenetic Inheritance: a lesson from worms"
12:30 – 13:00	Lunch at the SZN canteen
13:00 – 14:00	Coffee break
14:00 – 14:45	**Sabrina Carrella**
	Title: "From the Deep Sea to the Cell: microRNAs-mediated strategies for metabolic modulation"
14:45 - 17:00	Bioinformatic practical session – *Bastian Fromm*
At 17:00	Welcome aperitif

Day 2 – Wednesday, 17 March 2027

9:30 – 10:15	**Michael Hackenberg** Title: *"Towards an automated annotation of high-quality miRNA complements"*
10:15 – 11:00	**Lorena Buono** *Title: "The Regulatory ncRNA Landscape: Interactions, Networks and Computational Approaches"*
11:00 – 11:30	Coffee Break
11:30 – 12:15	**Gabriele De Falco** *Title: "Hunting miRNAs: Workflows and Pitfalls in Non-Model Organisms"*
12:30 – 13:00	Lunch at the SZN canteen
13:00 – 13:30	Coffee break
13:30 – 15:30	Bioinformatic practical session – *Lorena Buono* and *Gabriele De Falco*
15:30 - 17:00	10-minute participant presentations (first 15 participants)
At 17:00 (DaDoM)	Visit to the Aquarium and Darwin–Dohrn Museum

Day 3 – Thursday, 18 March 2027

9:30 – 10:30	**Stefano Gustincich** (Keynote lecture)

	Title: "SINEUPs are a functional class of natural and synthetic antisense long non-coding RNAs that enhance translation"
10:30 – 11:15	**Velia Siciliano**
	Title: "*Synthetic Biology tools for RNA-based circuits regulation*"
11:15 – 11:45	Coffee Break
11:45 – 12:30	**Sandro Banfi**
	Title: "Noncoding RNAs and Inherited Retinal Disease"
12:30 – 13:00	Lunch at the SZN canteen
13:00 – 14:00	Coffee break
14:00 – 14:45	**Alessia Indrieri**
	Title: "Unlocking the Therapeutic Potential of MicroRNAs in Mitochondrial-Mediated Neurodegeneration"
14:45 - 16:15	10-minute participant presentations (second 15 participants)
From 16:15	Free time
At 19:30	Social dinner

Day 4 – Friday, 19 March 2027

09:30 – 10:15	**Vittorio De Franciscis**

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	Title: "The Discreet Charm of Aptamers: From High-Affinity Binders to Clinically Developable Ligands"
10:15 – 11:00	**Carla Lucia Esposito**
	Title: "Aptamers regulating DNA methylation: new frontiers in cancer therapy"
11:00 - 11:30	Coffee break
11:30 – 12:15	**Remo Sanges**
	Title: "The well-tempered genome: bearing somatic retrotransposition to leverage the regulatory potential of L1 RNAs"
At 12:15	Conclusions, participant feedback and suggestions about next events.