

On Dec. 10th 2019, a SIBBM Lecture was held in Trento, at the Department of Cellular, Computational and Integrative Biology (CIBIO), University of Trento, on the regulation of transport, metabolism and dynamics of coding and non-coding mRNAs both in healthy and disease state, including cancer and neuro-muscular diseases.

The mini-symposium started by a brief introduction to the Society and its activities by Tiziana Bonaldi, Group Leader at the European institute of Oncology of Milan and member of the SIBBM steering committee scientists, followed by the Lecture from **Prof. Eduard Bertrand**, Team leader at the CNRS and the Institute of Molecular Genetics (IGMM) of the Montpellier University, who gave the lecture **“Imaging single mRNPs reveals new insights into RNA localization and translation”**. During the Lecture, Dr. Bertrand presented a number of novel cutting-edge imaging techniques developed in his group - such as tracking of single molecule, FRAP and photo-activation - to study in depth the intracellular transport of RNA molecules and their enzymatic or structural roles within the context of an ample spectrum of non-coding RNP particles, whose structure, dynamics and functional role is not yet fully characterised and remains an open question in biology.

The main lecture by Eduard Bertrand was followed by three short talks by young scientists working in different research groups in Trento, who presented the proceeding of their own investigations. In particular, **Nicole Bettin**, first year PhD student in the group of Emilio Cusanelli at CIBIO, presented recent results collected through live-cell imaging assays to investigate the dynamics of the ncRNA TERRA expression and localization in human cancer cells.

Next, **Eloina Corradi**, post-doc in the group headed by Marie Laure Baudet at CIBIO, described a novel gene expression regulatory mechanism mediated by miRNAs for the local post-transcriptional regulation of protein expression in the developing axons, focusing on the process through which miRNAs are transported along this neuronal structure.

Last, **Fabio Lauria** from the lab of Translational Architectomics (CNR Biophysics Institute) guided by Gabriella Viero, presented a recent still unpublished work in which the group investigated the interaction of the Survival Motor Neuron (SMN) protein to ribosomes and how its loss (which is linked to neuromuscular disease spinal muscular atrophy (SMA) leads to translational defects *in vivo*.

This SIBBM Lecture was organised by three SIBBM members Paolo Macchi, Michela A. Denti and Andrea Lunardi, all Professors at the University of Trento and group leaders at CIBIO, with the support of Mara Tomasi.

The mini-symposium was overall well-attended, with about 100 participants - among which various PIs of CIBIO and several younger scientists - and there was very lively discussion after each talk.