



RNAct Final Conference

14th-15th September 2022

Polytechnic University of Valencia

RNAct is a Marie Skłodowska-Curie Innovative Training Network (MSCA-ITN) project with the research aim of designing novel RNA recognition motif (RRM) proteins for exploitation in synthetic biology and bio-analytics. The project is now in its final year, and is using a mix of computational and experimental approaches at the sequence and structure levels of RRM and RNA. The analysis of an extensive well-curated database of RRM/RNA information is now producing relevant insights that we are now using to re-design RRM, which are then screened using large-scale phage display experiments. RRM are also being investigated at the atomic level with integrative structural biology approaches. As RRM are key molecules in post-transcriptional regulation, they are also being explored for use in bio-analytics, for in-cell RNA detection and the design of RNA biochips, and for synthetic biology.

With this conference we intend to bring together experts in the field that cover the broad scope of RNAct, from RRM to RNA and back, while giving the 10 RNAct early-stage researchers a chance to present their results to the scientific community, and get feedback from experts. We look forward to your contributions and participation!

Below you can find an overview of how we will organize the conference. Each session will include a 45 min keynote, as well as short 20 min talks based on abstract submissions.

14th September 2022

15th September 2022

Session 1 – RRM-RNA binding The interaction between RRM and RNAs is complex; which factors are involved, and how well do we understand them?	Session 3 – RRM and gene expression regulation How do RRM regulate protein (and gene) expression at the post-transcriptional level?
Session 2 – RRM and protein design Given the complex interplay between and RRM/RNA, can we (re-)design them to target specific RNAs?	Session 4 – Applications of RRM What is the potential of applying RRM in research and commercially?
Poster session and reception	RNAct Innovation Workshop Investigate opportunities for the application of RRM.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No. 813239.



HelmholtzZentrum münchen
German Research Center for Environmental Health



dynamic
BIOSENSORS

ridgeview
instruments ab

