



## ROles of ePitranscriptomic in diseasesES

The European Training Network named ROPES (ROLE of EPitranscriptomics in DiseasesES - <https://cordis.europa.eu/project/id/956810/it>) has been granted in the framework of the Horizon 2020 Marie Skłodowska-Curie Action for Innovative Training Network (ITN). The project is coordinated by the University of Trento (CIBIO) and it involves ten European laboratories and one biotech company from nine different countries, including: the Medical University of Wien (Austria), the University of Lausanne (Switzerland), the International Institute of Molecular and Cell Biology (Poland), the Umea University (Sweden), the German Cancer Research Center DKFZ (Germany), il Consiglio Nazionale delle Ricerche (Italy), the Centre for Genomic Regulation (Spain), CEITEC- University of Masaryk (Czech Republic), IMMAGINA Biotechnology Srl (Italy), Free University of Bruxelles (Belgium).

The project aims to unravel the role of epitranscriptomics in diseases and to exploit it for novel therapies. ROPES, awarded with 3M € from the European Commission, will start on next December and will recruit Early Stage Researchers to perform innovative research projects in cooperation with leading universities in Europe and the United States of America.

ROPES will recruit twelve early-stage researchers, one of which at IMMAGINA BioTechnology Srl, led by Dr. Massimiliano Clamer (President & Founder).

- **IMMAGINA Fellowships:** 1
- **Host institutions:** IMMAGINA Biotechnology srl (Recruiting – [www.immaginabiotech.com](http://www.immaginabiotech.com)) – International Doctoral Program in Biomolecular Sciences (PhD Programme 37° cycle) at Department of Cellular, computational and Integrative Biology (CIBIO) (<https://www.cibio.unitn.it/78/doctoral-program>)
- **Objectives:** (1) The creation of a bioinformatic pipeline to integrate RNA editing signatures with parallel Ribo-seq and RNA-seq data from MSCA-ITN network data; (2) the use of proprietary wet lab technologies to detect RNA signatures
- **Description:** The Early Stage Researchers (ESRs) will be recruited and trained to join a biotech company to advance the knowledge on the role of RNA modifications on different diseases and models, thanks to a large collaboration in the MSCA-ITN network. The position will advance knowledge on RNA modifications and potential applications for novel therapies and diagnostic strategies
- **Expected Results:** We expect to get a deeper insight into the mechanisms of how post-transcriptional modifications affect ribosome function. This will be of relevance for understanding pathological conditions affected by alteration of protein synthesis caused by RNA editing and related defects in translation efficiency
- **Profile:** The candidate should have a knowledge of programming with R and python. Knowledge of some bioinformatics pipelines for Next Generation Sequencing Analysis on large datasets, including the creation of software packages (preferential: Cutadapt, RiboWaltz, STAR, Bowtie). Team player and bio-related curiosity (better if you have some biotech background)!
- **Languages:** English – level Advanced
- **Link to application External link to the call for applicants:** [www.immaginabiotech.com](http://www.immaginabiotech.com)

- **Deadline for application:** 30 March 2021
- **PhD Programme starting date:** 01 November 2021 – possibility to start before with a short term contract at IMMAGINA Biotech

Applicants' eligibility requirements:

1. Researcher status: Early-Stage Researchers (ESRs) are young researchers who, at the date of recruitment, are in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.
2. Nationality: Applicant ESRs can be of any nationality.
3. Mobility requirements: Applicant ESRs must not have resided or carried out their main activity (work, studies, etc.) in ITALY for more than 12 months in the 3 years immediately prior to the date of recruitment.
4. A Master's degree or equivalent at the moment of the deadline for application (i.e. applicants must have completed their first and second cycle of higher education for admission to PhD studies)
5. Applicant must be proficient in English

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The application should be sent to [IMMAGINABIOTEC@LEGALMAIL.IT](mailto:IMMAGINABIOTEC@LEGALMAIL.IT) and it has to include the following attachments:

- **A detailed Curriculum vitae et studiorum;**
- **A copy of the Bachelor's and Master's certificates and the respective Transcript of Records;**
- **Summary of the Master's degree thesis;**
- **A letter of motivation;**
- **Email contact of two names of referees to be contacted for recommendation letter.**

In the application form the applicant(s) must declare:

- if he/she is applying to another ESRs position within the ROPES project,
- the other ESR(s) project they are applying to,
- his/her priority of preference for these project(s)

Successful candidates will receive a salary/fellowship in accordance with the MSCA regulations for Early Stage Researchers.

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