

# Master's / Technician Positions

The Baccarini lab (<https://www.maxperutzlabs.ac.at/research/research-groups/baccarini>) is part of the Max Perutz Labs and is located at the Vienna BioCenter, one of Europe's leading life science centers that combines research, education and biotech at a single location.

We focus on the RAF/MEK/ERK pathway, an evolutionarily conserved kinase module which relays signals through consecutive phosphorylation of proteins arranged in three tiers. Constitutive activation of the pathway is a key event in several human malignancies and developmental disorders.

## About the project

Given the pivotal role of the pathway in disease, a tremendous amount of knowledge has been accumulated on individual components of the pathway. However, a network-level description of the interactions in which they engage is missing. To address this gap, we will generate an in-depth map of the ERK protein-protein interaction network, in natural and perturbed states induced by oncogenic or inactivating mutations and chemical inhibitors.

Successful candidates will be integral part of our effort to map the reference interactome of the whole ERK pathway.

## To fulfill this role, you should be able to

- Work closely with team members
- Use and understand a wide variety of molecular biology/biochemical techniques
- Identify and implement improvements to shared resources and protocols
- Train other lab members in the operation of specialized equipment

## Contact us if you are

- excited by science and discovery
- creative, critical, and communicative
- curious, self-motivated, and well-organized
- the holder of a Bachelor degree in biochemistry, molecular biology or a related discipline (for the Master students)
- at ease with oral and written communication in English (German is optional)

## Interested?

Apply by sending a letter of motivation, scientific CV, and contact information for 2 references to [manuela.baccarini@univie.ac.at](mailto:manuela.baccarini@univie.ac.at)

ERK PATHWAY & CANCER

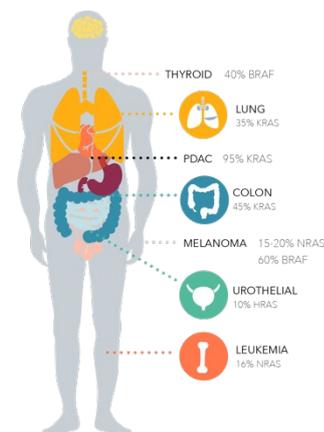


Image Source: Dorard et al., Biochemical Society Transactions (2017)

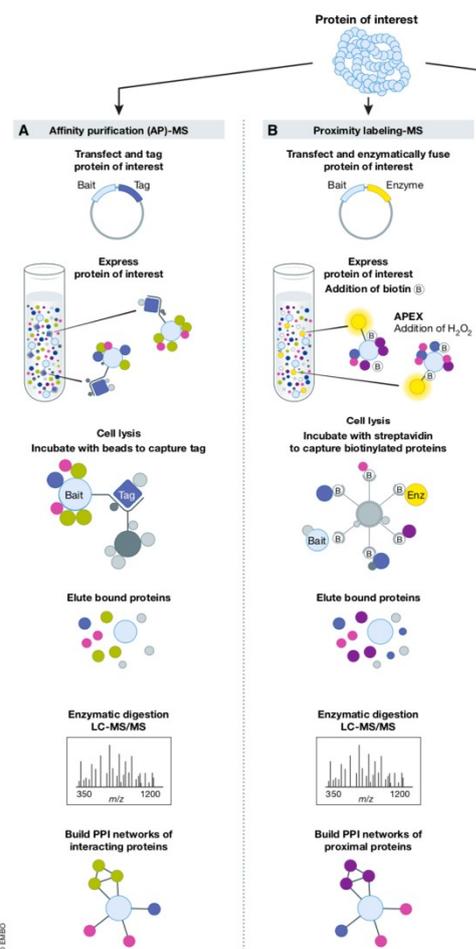


Image Source: Richards et al., Mol Syst Biol. (2021)

### About the Max Perutz Labs

The Max Perutz Labs are a research institute established by the University of Vienna and the Medical University of Vienna to provide an environment for excellent, internationally recognized research and education in the field of Molecular Biology. Dedicated to a mechanistic understanding of fundamental biomedical processes, scientists at the Max Perutz Labs aim to link breakthroughs in basic research to advances in human health. The Max Perutz Labs are located at the [Vienna BioCenter](#), one of Europe's hotspots for Life Sciences, and host around 50 research groups, involving more than 450 scientists and staff from 40 nations.

[www.maxperutzlabs.ac.at](http://www.maxperutzlabs.ac.at)

A joint venture of



Part of

