

## Postdoctoral Fellow (100%) to work on mechanisms and treatment options for muscular dystrophies

The Biozentrum of the University of Basel is one of the leading life sciences institutes in the world. It consists of 30 groups and 500 employees that research how molecules and cells create life, spanning the scale from atom to organism. Founded in 1971, the Biozentrum has been the birth place of many fundamental discoveries in biology and medicine, spawning several Nobel Laureates.

A postdoctoral position is available in the group of [Prof. Markus Rüegg](#) at the Biozentrum, University of Basel.

Muscular dystrophies are rare genetic diseases characterized by severe muscle damage caused by the inability of muscle fibers to sustain the mechanical forces generated during contraction. The available position is part of an international research effort aimed to characterize the cellular composition of muscle during disease progression. Mouse models for distinct muscular dystrophies and patient biopsies will be used. In particular, mouse models for LAMA2 MD/MDC1A will be investigated (see: [Reinhard et al., \(2017\). Sci. Transl. Med. 9;](#) [Yurchenco et al., \(2018\). Matrix Biol. 71-72, 174-187](#)). The project will use single cell-based transcriptomics and proteomics in conjunction with state-of-the-art computational data analysis.

### Your profile:

We are looking for candidates with a Ph.D. in molecular biology, biochemistry or neurobiology and a strong background using “omics” technologies. Applicants should be well-trained in advanced cell and molecular biology, have a track record of strong publications and be committed to a career in science. Experience working with mice and the neuromuscular system is a strong plus.

### We offer:

The project is funded for 3 years; salaries are according to the guidelines of the Swiss National Science Foundation. Our team and the interactive, highly innovative nature of the Biozentrum and of Life Science in Basel provide a stimulating environment that offers all the possibilities to be creative and highly productive. Basel is a city that provides a high standard of living and offers all the advantages of an international community.

### Applications/Contact:

Please apply online with a CV, letter of motivation and contact information for two references:  
<https://biped2.biozentrum.unibas.ch/apply/postdoctoral-fellow-rg-rueegg>

Reviewing of applications will start immediately and continue until the position is filled.

For any informal enquiries, please contact: Markus Rüegg ([markus-a.ruegg@unibas.ch](mailto:markus-a.ruegg@unibas.ch))