

## Marie Skłodowska-Curie Post-doc Positions in Germany

### “Expression of Interest” for hosting Fellows

This template should be used by institutions interested in hosting post-doctoral fellows within the Marie Skłodowska-Curie Individual Fellowship programme. Host institutions should be located in Germany.

#### 1. Valid for the following MSCA-IF Calls<sup>1</sup>:

<input checked="" type="checkbox"/> 2017	<input checked="" type="checkbox"/> 2019
<input checked="" type="checkbox"/> 2018	<input checked="" type="checkbox"/> 2020

#### 2. Interested host institution:

University Medical Center of the Johannes Gutenberg University Mainz

#### 3. Institute/Department:

Institute of Pathophysiology

The Institute of Pathophysiology investigates the physiology and the molecular basis of neuronal communication. A major research focus is the analysis of the role of glutamate receptors and of proteins that interact with the receptors in synaptic transmission and network activity (von Engelhardt et al., Science 2010, Khodosevich et al., Neuron 2014, Farrow et al., eLife 2015). Our research focuses on the role of glutamate receptor mediated transmission for neuronal function (e.g. synaptic plasticity, see von Engelhardt et al., Neuron 2008). In addition, the group is interested in the cause and the pathophysiological processes underlying neurodegenerative diseases such as Alzheimer’s disease and rare familial neurological diseases (especially movement disorders). To this end, we analyze different transgenic and knockout mouse lines as well as cell-cultures using various state-of-the-art techniques including in vitro and in vivo electrophysiology, molecular biology, protein biochemistry and microscopy.

Website (Hyperlink): <http://www.unimedizin-mainz.de/pathophysiologie/willkommen.html>

#### 4. Contact person (name and e-mail address):

Prof. Dr. Jakob von Engelhardt (engelhardt@uni-mainz.de)

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<sup>1</sup> MSCA Individual Fellowships are selected on the basis of annual calls for proposals. Forthcoming and open calls for proposals can be found on the [Participant Portal](#) of the European Commission under “Funding Opportunities” and “Calls/H2020”.

**5. Project idea/position (scientific requirements, topic, discipline):**

Rough outline of idea/position:

The scientist should be interested in Neuroscience and in particular in the basics of neuronal communication, in molecules that are required for the function of the healthy brain and in mechanisms that are involved in the pathophysiology of brain diseases.

Please tick:

(according to [scientific subject areas](#), defined by the German Research Foundation)

- Life Sciences
- Natural Sciences
- Engineering Sciences
- Social Sciences and Humanities

**6. Deadline<sup>2</sup> for considering interests by post-doctoral applicants:**

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<sup>2</sup> Please consider that the preparation of a Marie Skłodowska-Curie proposal requires some time. Fellow and supervisor have to agree on a project and training opportunities for the fellow.