

Invitation to the Keynote Lecture Faculty of Biology

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Organizational principles of nervous system development in the nematode *C. elegans*

Abstract: How are the many distinct cell types that characterize a mature nervous system genetically specified? How stable is neuronal identity over the life time of an animal? For a terminally differentiating neuron these questions boil down to a gene regulatory question: how is the expression of the distinct batteries of genes that define the terminal, functional properties of distinct neuron type induced and maintained? How are changes in gene expression, and hence changes in neuronal phenotypes, triggered? We study these questions in the context of the nematode *C. elegans*, and we have begun to uncover what appear to some simple, phylogenetically conserved principles that underlie the generation of diverse neuronal identities.

Thursday, 4 January 2024, 2 pm

Host: Prof. Dr. P. Baumann

The keynote lecture will be presented at the
Biozentrum 1, HS BZ1, 00.187, Hanns-Dieter-Hüsch-Weg 15, Ground Floor