



The laboratory of PD Dr. Vera Schluessel
(Department of Comparative Neurobiology, Institute of Zoology)
at Bonn University (Germany) is offering a three-year

PhD position (TV-L13, 65%)

starting in summer/fall 2019. The study will focus on:

'Neural substrates involved in the processing of cognitive information in fish'

Brains of some teleost families, such as the cichlids, feature several brain areas or nuclei not found in more basal teleost fish. The development of such structures found in the telencephalon or diencephalon may quite likely be linked to more complex social hierarchies and complex habitats and thereby to more elaborate cognitive abilities. For this reason, some of these structures will be selectively lesioned and cognitive performance assessed in spontaneous behavioral tasks as well as specifically designed training assays (looking at spatial orientation, visual discrimination, time-pace learning, etc.). Results of selectively lesioned animals will be compared to control groups. The project is part of a larger DFG-funded study assessing detailed structure-function relationships of specific brain regions involved in the processing of cognitive tasks in fishes, located both within and outside of the telencephalon. The up-regulation of c-fos and egr-1 mRNA expression levels in various brain regions or nuclei in response to various cognitive training assays will be assessed in a concurrently advertised PhD project.

You have:

- a Master degree in Neurobiology, Biology, Zoology or a related field
- experience in histology and microscopy and possibly behavioral experiments
- both experience and interest in statistical analyses
- the ability to work both independently and in a team
- good organizational and computer skills
- strong communication/writing skills in English

How to apply:

Please send your application by E-mail (attached as a single PDF) including your complete CV, a list of publications, a statement of research interests and description of expertise, the names and contact addresses of two referees (or two letters of recommendation), as well as your transcripts to **v.schluessel@uni-bonn.de**

Application deadline is May 30th; for information about the lab see <https://www.zoologie.uni-bonn.de/abteilungen/bleckmann/arbeitsgruppen/dr.schluessel/dr.schluessel>