



PhD Positions: CALL FOR APPLICATIONS

The Leibniz Graduate School on Ageing and Age-Related Diseases (LGSA) is a joint programme of the Leibniz Institute for Age Research – Fritz Lipmann Institute (FLI) and the Friedrich - Schiller - University (FSU) in Jena. The School calls for applications for PhD positions available in summer 2013.

The Leibniz Graduate School on Ageing belongs to the Leibniz Association – a non-university research organisation equivalent to the Max Planck Society and the Helmholtz Association.

We offer the two following PhD projects:

Impact of mitochondria on aging and lifespan in the short-lived killifish *Nothobranchius furzeri*

The Turquoise killifish *Nothobranchius furzeri* has an exceptionally short lifespan and therefore represents a promising new model organism to study the biology of aging. We have recently shown that mitochondrial function declines with age in *N. furzeri* (Hartmann et al., Aging Cell, 2011). Furthermore, we have established a method to generate transgenic *N. furzeri* (Hartmann and Englert, Developmental Dynamics, 2012).

The project aims to study the role of mitochondria during aging in more detail. Mitochondrial function will be enhanced in *N. furzeri* using different approaches such as physical exercise and over-expression of mitochondrial genes. Various mitochondrial parameters will be measured and the effect on aging and lifespan will be determined.

We look for a highly motivated candidate with a background in molecular biology. The applicant will be able to use a broad spectrum of molecular techniques and will also work with the fish.

Molecular basis of delayed ageing in mammals with highly diverged ageing rates: African mole-rats *Fukomys sp.*

Within the DFG funded project we invite applications for a PhD position in **Bioinformatics**. For qualitative/quantitative transcriptome as well as comparative genome analyses of mole-rats (*F. anseilli*, *F. mechowii*), novel model organisms in ageing research, by next-generation sequencing technologies, we are seeking strongly motivated and highly qualified candidates having profound analytical and computational development skills. Experience in genomics, molecular genetics, and Perl/C++/Java programming under Unix/Linux would be advantageous.

We offer an international, interdisciplinary, and technically modern environment where you can continually add to your skills through involvement in different lines of research. Salary is according to E13, TV-L. The position is open from May 2013 for an initial period of two years, with the possibility of extension.

Eligible are students that have obtained an academic degree comparable to the master degree or diploma in natural sciences (e.g. Biology, Biochemistry, Bioinformatics) with excellent marks. Further information on the Leibniz Graduate School on Ageing and Age Related Diseases (LGSA) including application guidelines can be found at <http://www.fli-leibniz.de/phd/>.

For the first step please acquaint yourself with the research of the participating groups and with the application procedure on our website, fill in the application form and send it electronically to the LGSA.

Deadline for submission is
May 20th



Participating research groups:

Christoph Englert -
Molecular Genetics

Matthias Platzer -
Genome Analysis

Leibniz Institute for Age Research
Fritz Lipmann Institute e.V. (FLI)
Beutenbergstraße 11
D07745 Jena (Germany)
Fon: #49(0)3641 656340

Member of the

