**Open PhD position (f/m): Genome stability & DNA repair**

The lab of Prof. Dr. Katrin Paeschke (Laboratory of nucleic acids structures and repair/ www.paeschkelab.de) is looking for a highly motivated and determined candidate for a PhD position. The position is available as soon as possible. The initial contract will be for three years, and will be paid by a prestigious ERC Stg Grant.

The PhD student will elucidate the impact of G-quadruplex DNA structures on DNA repair processes and genome stability. Recently, it was shown that G-quadruplex structures can form within DNA and RNA and that specific proteins contribute to their regulation. We identified a specific protein in yeast that stabilize G4 structures and by this influence TLS and NER. In the project, he/she will shed light on the question if and how G4 structures support or alternate DNA repair and which DNA breaks are generated due to formation of these alternate structures. He/She will use different genome wide, biochemical and molecular biological techniques in *S. cerevisiae* and human tissue culture cells. See Paeschke et al 2011 Cell, Paeschke et al 2013 Nature, Wanzek et al 2017 NAR or Sauer & Paeschke 2017 for more information on the work in the Paeschke lab.

**Requirements:**
- Strong interest in genome stability, DNA replication and repair
- M.Sc. in bio-molecular sciences, medical biology or related area
- Inquisitive and independent research attitude
- Beneficial: experience in molecular biology, biochemistry or genome wide analysis

**More information:**
We also offer a salary according to German salary scale TV-L EG 13 65% and the possibility to acquire a Jobticket for transportation as well as participation in the private retirement fund program VBL for state employed personnel. There is also a possibility to use the day care center.

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the *Landesgleichstellungsgesetz* (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

For more information about the research in the Paeschke lab visit [www.paeschkelab.de](http://www.paeschkelab.de).

**How to apply**
Please refer to the reference number 424_2018 and send your resume, a motivation letter and the names of two references referring to Prof. Dr. Katrin Paeschke ([Katrin.paeschke@ukbonn.de](mailto:Katrin.paeschke@ukbonn.de)) until 15th October 2018.

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