


Postdoctoral Position in the Laboratory of Genome Dynamics

 **Are you ready to push the boundaries of molecular biology and take on challenges at the cutting edge of science?** Join Dr. Hana Hanzlikova's research team in the Laboratory of Genome Dynamics.

Our Research Focus

PARP Biology & Cancer

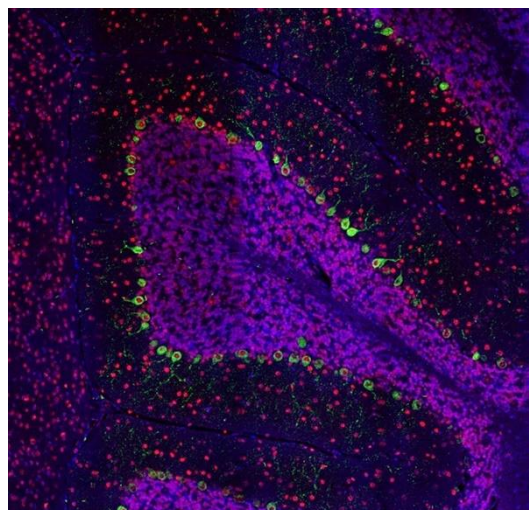
We investigate how PARP1 and PARP2 recognize and process DNA replication intermediates, reshaping our understanding of PARP inhibitors in cancer therapy.

Neurodegeneration & Genome Integrity


We explore how ADP-ribosylation and DNA repair defects lead to neurological diseases, including dementia—and could even influence normal human aging.


RNA Processing & Genome Integrity

We study how defective RNA metabolism intersects with DNA repair, shedding light on diseases such as cerebellar atrophy and ataxia.



Why Joining Our Lab?

 **Innovative Techniques:** From CUT&TAG to scRNA-seq and spatial transcriptomics, we leverage state-of-the-art technologies to study molecular mechanisms at unparalleled resolution.

 **Next-Level Disease Models:** From patient-derived iPSCs to 3D brain organoids and genetically engineered mice, we work with the most relevant systems to decode the molecular mechanisms driving cancer and neurodegeneration.



Collaboration & Supportive Team:

Join a dynamic, international, and multidisciplinary team with an open-door policy for idea exchange, experimental troubleshooting, and shared success.

We maintain strong collaborations with leading experts, including the Rottenberg group (University of Bern) and the Caldecott group (University of Sussex).

What We Offer:

- Full-time, fixed-term employment contract for 2 years, with the possibility of extension.
- Attractive salary and 6 weeks of vacation per year.
- Employment benefits, including a meal allowance, sport centre, and childcare services.
- A collaborative scientific environment supported by state-of-the-art facilities, including excellent imaging and animal model platforms.
- Opportunities for training and specialized courses to expand your skillset.
- Full focus on research with no teaching obligations.
- Support to apply for independent funding and develop your own research program.

Who We're Looking For:

The ideal candidate will have:

- A PhD in molecular biology, genetics, biochemistry, or a related field.
- A problem-solving mindset with the ability to work independently while thriving in a collaborative environment.
- Expertise in field of DNA repair, post-translational modification, chromatin and RNA biology.
- Experience with advanced technologies, including CRISPR, iPSC-based models, omics approaches (CUT&TAG, scRNA-seq, spatial transcriptomics), or bioinformatics.

Why IMG and Prague?

Prague is not just a stunning historical city—it is a thriving centre for cutting-edge research and innovation.

The Institute of Molecular Genetics (IMG) provides an inspiring and collaborative environment, making it an ideal place for ambitious scientists. Join us and experience the best of science and city life!



Ready to Apply?

- 📄 **Cover Letter:** Tell us why this position interests you and how your expertise fits our team.
- 📄 **CV:** Highlight your skills, experience, and scientific achievements.
- 📄 **References:** Provide contact details for two referees who can speak to your qualifications.

✉ Send your application to Dr. Hana Hanzlikova (hana.hanzlikova@img.cas.cz).

Selection Process:

Suitable candidates will be contacted to arrange an interview. If you do not hear from us within 5 weeks, we have given preference to candidates who more closely match the criteria. Thank you for your understanding.

Application Deadline: Rolling until the position is filled.



Join us in uncovering the molecular mechanisms that shape human health. Apply now and be part of shaping the future of biomedical research! 🚀

Hana Hanzlikova, PhD

Laboratory of Genome Dynamics

<https://www.img.cas.cz/group/hana-hanzlikova/>

+420 2 4106 3200 (3209)

hana.hanzlikova@img.cas.cz

Institute of Molecular Genetics

of the Czech Academy of Sciences

Václavská 1083, 142 00 Prague 4, Czech Republic