

MAMMALIAN DEVELOPMENTAL EPIGENETICS & BIOINFORMATICS



Uncover the secrets of unique mammals defying aging. Explore molecular mechanisms of long-term female fertility. Female eggs are among the oldest cells in the body – they can be several decades old in long-lived mammals, and have to maintain their quality until the end of reproductive period. We use African mole-rats, longest living rodents, to understand how mammals maintain good quality of the female eggs, and their ovarian niche. We also explore additional non-model rodents to uncover evolutionary conservation of identified adaptations. Our findings can lead to personalised human reproductive medicine for older women with fertility problems, or women with ovarian insufficiency syndrome, and are relevant for conservation of long-lived endangered mammalian species.



Join my research team!

We are one of the newest groups on campus. I received PhD in Developmental Epigenetics in 2015 at the University of Cambridge, UK. I am a former Marie Curie Individual Fellowship grantee and current holder of a GACR Junior STAR grant.

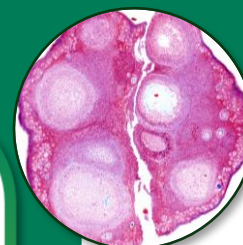
My team includes 3 PhD students, 1 research assistant and multiple undergraduate and Masters students.

Contact:

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Master's research project 2024-2026:

Transposon activity in germline (wet-lab and/or bioinformatic)
Negative effect of ovulations (wet-lab)

Enroll in the new two-year Masters Programme **Functional Genetics & Bioinformatics** at Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic.

Offered specializations:

- Bioinformatics
- Biotechnology
- Human Molecular Genetics
- Molecular Cell Biology & Genetics

Application deadline: 19 May 2024
Study start: September 2024

Find more information [HERE](#)