Katedry genetiky a biochémie PriF UK
a občianske združenie *NATURA*

**Vás pozývajú na 125. prednášku v rámci Kuželových seminárov:**

# Dr. Peter Fabian

Masaryk University, Department of Experimental Biology,
Brno, Czechia

# OF FISH AND US

ktorá sa uskutoční **21. novembra 2021** (pondelok) o **15:00**

v miestnosti CH1-224 Prírodovedeckej fakulty UK

http://www.naturaoz.org/seminare.html
http://www.naturaoz.org/KuzeloveSeminare.html

Hostiteľka: dr. Silvia Bágeľová Poláková, Katedra genetiky PriF UK

**Mgr. Peter Fabian, PhD.**

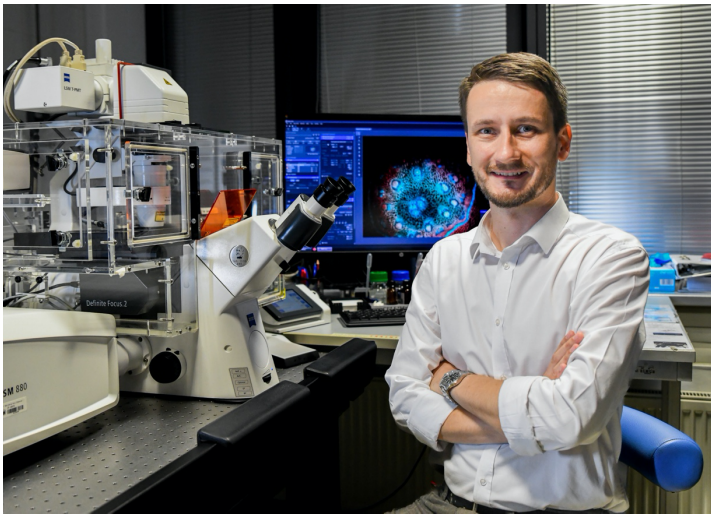
**2022-present** – Assistant Professor, Masaryk University, Department of Experimental Biology, Brno, Czechia

**2017-2022** – Post-doctoral researcher, University of Southern California, Stem Cell Biology and Regenerative Medicine, Los Angeles, USA

**2016-2017** – Post-doctoral researcher at the Charles University in Prague, Faculty of Natural Sciences, Department of Vertebrate Zoology, Prague, Czechia

**2010-2016** – PhD. Charles University in Prague, Faculty of Natural Sciences, Department of Developmental and Cellular Biology, Prague, Czechia

**2011-2016** – Bc., Mgr. Comenius University, Faculty of Natural Sciences, Department of Biochemistry, Bratislava, Slovakia



Despite obvious differences between us and fish, we share much more than we might realize. In my presentation, I will discuss how studying the basic biology of zebrafish can lead to discoveries of novel developmental movements, tissue functions, and new animal models for studying human inborn diseases. I will discuss recent advances in studying alkaptonuria, a condition that is most common in Slovakia.

**Selected publications**


**Fabian P**, Crump JG (2023). Reassessing the embryonic origin and potential of craniofacial ectomesenchyme. *Semin Cell Dev Biol* 138: 45-53

**Fabian P**, Tseng KC, Thiruppathy M, Arata C, Chen HJ, Smeeton J, Nelson N, Crump JG (2022). Lifelong single-cell profiling of cranial neural crest diversification in zebrafish. *Nat Commun.* 13(1): 13.

**Fabian P**, Tseng KC, Smeeton J, Lancman JJ, Dong PDS, Cerny R, Crump JG (2020). Lineage analysis reveals an endodermal contribution to the vertebrate pituitary. *Science* 370(6515): 463-467

Barske L, **Fabian P**, Hirschberger C, Jandzik D, Square T, Xu P, Nelson N, Yu HV, Medeiros DM, Gillis JA, Crump JG. (2020). Evolution of vertebrate gill covers via shifts in an ancient Pou3f3 enhancer. *PNAS* 117(40): 24876-24884.

Minarik M, Stundl J, **Fabian P**, Jandzik D, Metscher BD, Psenicka M, Gela D, Osorio-Pérez A, Arias-Rodriguez L, Horácek I, Cerny R (2017). Pre-oral gut contributes to facial structures in non-teleost fishes. *Nature* 547(7662): 209-212.