Curriculum vitae

Klára Frydrýšková, née Kazdová

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Date of birth: 18th June 1985

Adress: Hrdličkova 2196/11, Praha-Chodov

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Employment & Education

01/2019-12/2019 Martina Roeselová memorial fellowship awardee

01/2017-10/2018 Maternity leave

10/2014-09/2015 Maternity leave

01/2011-present Faculty of Science, **Charles University**

Position: **Scientist with teaching activities and PhD. Student from 10/2011**

Responsibilities:

- Designing and conducting experiments
- Data interpretation and documentation, basic statistical analysis
- Writing publications drafts
- Writing grant proposals
- Scientific literature research
- Teaching
  - Practical course in Molecular Biology MB140C71
  - Practical course in Molecular Genetics - MB140C39
  - 2015-2018 **Diploma Thesis supervisor:** „Human 4E protein family in stress granules and their further characterization “, student Mgr. Pavlína Hrbková
  - 2013-2014 **Bachelor Thesis supervisor**, „Protein diversity of human stress granules“, student: Bc. Jana Kráčmarová
  - 09/2011-present
- Dissertation thesis**: Noncanonical human eIF4Es in and out of the RNA granules**
- Mentor RNDr. Martin Pospíšek, Ph.D
- Study programme: **Molecular and cellular biology, genetics and virology**

12/2011 Faculty of Science, **Masaryk University in Brno**

Rigorosum examination", degree **RNDr.**

- Thesis: **„South Moravian mobovirus surveillance during 2006-2008 with respect to the situation in the neighbouring countries**"
- Mentor Prof. RNDr. Zdeněk Hubálek, DrSc.

09/2009-01/2011 **Institute of Chemical Technology**

Position: Researcher and PhD. student

Responsibilities:

- Scientific literature research
- Teaching (Laboratory in Microbiology)
- Dissertation thesis: „**Mechanism of retroviral budding"**
- Mentor Prof. Ing. Tomáš Ruml, CSc.
- Study programme **Microbiology**

2007-2009 Faculty of Science**, Masaryk University in Brno**
Master´s degree

- Study field Biology**,** specialization **Microbiology**
- Thesis: **„Isolation of mosquito-borne viruses on cell cultures"**
- Mentor Prof. Zdeněk Hubálek, CSc.

Personal characteristics

- Active and self-motivated person
- Reliable and loyal
- Enjoy driving tasks to their successful accomplishment
- Fast learner
- Communicative
- Enjoy working in a team, capable of working independently
- Extraordinary organization skills as proven by effective management of work with two little children

Language skills

English (C2, Cambridge Exams 12/2015), **French** (final exam at high school in 2004, Diplôme d´Etude en Langue Française DELF I 2004)

Others

Driving license B (active driver) and A2, Certificate allowing me to work with laboratory animals by Czech law 246/1992

MS Office (Word, Excel, Power Point) ImageJ, Corel

Interests

Skiing, sport climbing, cycling, jogging

Please, find the list of publications, courses and laboratory techniques in the enclosed CV attachment.

In Prague 31th October 2019

CV Attachment

Laboratory techniques

Often used: Fluorescence microscopy (confocal and wide field) coupled with data analysis, gene engineering (cloning, PCR, production and characterization of recombinant proteins in bacteria), western blot, immunoprecipitation, GST pull down, human tissue culturing, stable cell lines production with the use of FLIP-IN technology

Limited use: Quantitative PCR, polysomal profiles, work with infectious microorganisms, their isolation from different samples and identification using commercial test e.g. Streptotest, Staphytest etc. work with infectious virus, virus neutralization test

Courses

19-23.5 2014 „**Analysis and processing of microscopy data“**: Czechoslovak microscopy society and Institute of Molecular Genetics, Academy of Science, CR

27-30.1. 2014 **"R for life",** course on handling statistical freeware „R“

2012/2013 „**RP 3C“**, two semester long course on communication and presentation skills with the emphasis to teaching and scientific applications

21.4.-27.4.2012 „**EMBO Practical Course Analysis of Small Non-Coding RNAs“**: From Massively Parallel Sequencing to *In-Situ* Hybridization, from Discovery to Validation, EMBL Heildelberg, Germany.

29.11.-1.12.2012 „**Advanced techniques in fluorescence microscopy“:** FRET, FRAP, TIRF a high throughput microscopy. Institute of Molecular Genetics, Academy of Science, CR

Societies

RNA Society (from 2013), Czechoslovak Microscopy Society (from 2014)

Publications

FRYDRÝŠKOVÁ K., MAŠEK T., POSPÍŠEK M. Changing faces of stress: Impact of heat and arsenite treatment on the composition of stress granules. Sent to Wiley Interdisciplinary Reviews RNA

MRVOVÁ S., FRYDRÝŠKOVÁ K., POSPÍŠEK M., VOPÁLENSKÝ V., MAŠEK T. Major splice variants and multiple polyadenylation site utilization in mRNAs encoding human translation initiation factors eIF4E1 and eIF4E3 regulate the translational regulators? Mol. Genet. Genomics, Sep 2017, vo 293, no 1. (cited 2x)

FRYDRÝŠKOVÁ K., MAŠEK T., BORČIN K., MRVOVÁ S., VENTURI V., POSPÍŠEK M. Distinct recruitment of eIF4E isoforms to processing bodies and stress granules. BMC Mol. Biol., Aug 2016, vo 17, no 1. (cited 18x)

KAZDOVÁ, K., HUBÁLEK, Z. Vyšetření komárů na přítomnost arbovirů na jižní Moravě v letech 2006-2008. Epidemiol. Mikrobiol. Imunol., Aug 2010, vo.59, no.3, s.107-111.

HUBÁLEK, Z., RUDOLF, I., BAKONYI, T., KAZDOVÁ, K., HALOUZKA, J., ŠEBESTA, O., ŠIKUTOVÁ, S., JUŘICOVÁ, Z., NOWOTNÝ, N. Mosquito (Diptera: Culicidae) surveillance for arboviruses in an area endemic for West Nile (lineage Rabensburg) and Ťahyňa viruses in central Europe. J. Med. Entomol.,May 2010, vo.47, no.3, s.466-472. (cited 54x)

Lectures at scientific meetings

FRYDRÝŠKOVÁ K., MAŠEK T., MRVOVÁ S., BORČIN K., VENTURI V., VALÁŠEK L., WAGNER S. POSPÍŠEK M. (2016): Unravelling the cellular roles of eucaryotic translation initiation factors eIF4E2 and eIF4E3. Mini RNA meeting (Želiv, Česká republika).

FRYDRÝŠKOVÁ K., MOCOVÁ K., MAŠEK T., MRVOVÁ S., POSPÍŠEK M. (2013): Differences between human eIF4E variants dictate divergences in their association with RNA granules. *In abstract book* RNA club (Prague, Czech Republic).

KAZDOVÁ K., MOCOVÁ K., MAŠEK T., MRVOVÁ S., POSPÍŠEK M. (2012): The intimate connection of stress-associated RNA granules with human 4Es and its implications for translational control. *In abstract book* RNA club (Brno, Czech Republic).

KAZDOVÁ K., HUBÁLEK Z (2009).: Isolation of mosquito- borne viruses on South Moravia. *In abstract book" Tomáškovy dny"* 22-23 (Brno, Czech Republic).

Posters (presenting author is underlined)

FRYDRÝŠKOVÁ K., HRBKOVÁ P., MAŠEK T., BORČIN K., MRVOVÁ S., POSPÍŠEK M. (2017): Distinct recruitment of human eIF4E isoforms to processing bodies and stress granules. Stress-Associated RNA Granules in Human Disease and Viral Infection (Heildelberg, Germany)

FRYDRÝŠKOVÁ K., MAŠEK T., BORČIN K., MRVOVÁ S., VENTURI V., POSPÍŠEK M. (2016): Distinct recruitment of eIF4E isoforms to processing bodies and stress granules. International Congress on Cellular Biology (Prague, CR).

FRYDRÝŠKOVÁ K., KRÁČMAROVÁ J., MAŠEK T. AND POSPÍŠEK M. (2014): How is 4E2 transported to stress granules in heat stressed cells? RNA club (Prague, CR).

FRYDRÝŠKOVÁ K., MAŠEK T., BORČIN K., MRVOVÁ S., VENTURI V., POSPÍŠEK M. (2014): Does eIF4E1 need a backup? Towards the investigation of eIF4E2 and eIF4E3 in mammalian cells. Translational Control (Cold Spring Harbor, USA).

KAZDOVÁ K., MOCOVÁ K., MAŠEK T., MRVOVÁ S., POSPÍŠEK M. (2013): The intimate connection of RNA granules with human 4Es changes with use of different protein variant. RNA Society meeting (Davos, Switzerland).

KAZDOVÁ K., MOCOVÁ K., POSPÍŠEK M. (2012): Mammalian translation initiation factors 4Es differ in their subcellular distribution during stress. Translational Control str. 197. (Cold Spring Harbor, USA)

KAZDOVÁ K., MOCOVÁ K., ŠEBESTA O., POSPÍŠEK M. (2011): The third variant of the eIF4E-1 protein forms granules during heat shock. RNA club (Prague, CR).