

### **Personal information:**

Name: Kristýna Poncová  
Nationality: Czech  
Email: k.poncova@gmail.com

### **Education:**

2014 – now                    **Ph.D. Study program in Molecular biology and Genetics**  
Charles University in Prague, Faculty of Science.

2011 – 2013                **MSc. General and Applied Biochemistry**  
Institute of Chemical Technology in Prague,  
Graduated with distinction.

2008 – 2011                **BSc. Synthesis and drug production**  
Institute of Chemical Technology in Prague,  
Graduated with distinction.

2009                        Erasmus study exchange in Montpellier, France.

### **Research experience:**

#### **2007: Participating in “Open Science” project for secondary school students, Institute of Molecular Genetics.**

Laboratory of. Diagnostics of Autoimmune Diseases  
Supervisor: Šárka Růžičková, Ph.D.

#### **2010- 2011, Bachelor Project, ICT Prague:**

Project: Synthesis of peptides with antimicrobial effects  
Supervisor: Martina Macková, PhD.

#### **2011- 2013, Diploma Project, Structural Biology Team, Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Prague.**

Project: Structural studies of human carbonic anhydrase VII.  
Supervisor: Pavlína Maloy Řezáčová, Ph.D.

#### **2014- now Ph.D. program, Faculty of Science, Charles University in Prague, Institute of Microbiology AS CR**

Ph.D. program: Molecular and cellular biology, genetics and virology  
Project: The role eIF3 and Rps3 in stop codon readthrough  
Supervisor: Leoš Valášek, Ph.D.

*Courses, conferences, traineeships*

- 02/2019**                    **X-Zommes**, Akko, Israel, speed poster presenting
- 09/2018**                    **The biology of RNA-protein complexes**, Regensburg, Germany,
- 09/2016**                    **RNA club**, conference held in Brno, Czech Republic, poster presenting
- 09/2015**                    **RNA club**, conference held in České Budějovice, Czech Republic, poster presenting
- 09/2014**                    **RNA club**, conference held in Prague, Czech Republic, poster presenting
- 10/2013**                    **Functional Analysis & Screening Technologies Congress**, Le Méridien Cambridge-MIT - Cambridge, MA, USA, poster presenting
- 08/2013 – 09/2013**      **Summer School of Molecular Medicine, Jena, Germany**
- Lectures and practical courses on various topics of Molecular medicine. Course ended with presentation of the work at the end of the Summer school, received a certificate.
- 06/2013 – 07/2013**      **IAESTE internship, Summer internship in the Department of Experimental Physiology of Medical University in Lodz, Poland**
- 11/2012**                    **ATHENS course, Neurobiology, Paris, France**
- 1 week course in French
- 07/2012**                    **Schola Ludus, International summer school, Nové Hrady, Czech Republic**
- 1 month summer school.
- 06/2012**                    **FEBS (Federal European Biochemical Society) advanced course and conference, Nové Hrady, Czech Republic**
- Poster presenting.
- 07/2011**                    **Schola Ludus, International summer school, Nové Hrady, Czech Republic**
- 1 month summer school.

### *Awards, grants awarded*

- 06/2013**                      **Dean's prize for study results**
- 11/2016**                      **GA UK 280217-** Student grant from the Charles University in Prague, name: Ribosomal protein RPS3 and its role in translational termination.

### **Publications related to the Thesis:**

**Poncová Kristýna**, Wagner Susan, Jansen Myrte Esmeralda, Beznosková Petra, Gunišová Stanislava, Herrmannová Anna, Zeman Jakub, Dong Jinsheng, and Valášek Leoš S (2019) uS3/Rps3 controls fidelity of translation termination and programmed stop codon readthrough in co-operation with eIF3. *Nucleic Acids Res.* **47**: 11326–11343

Hronová Vladislava, Mohammad Mahabub Pasha, Wagner Susan, Pánek Josef, Gunišová Stanislava, Zeman Jakub, **Poncová Kristýna**, and Valášek Leoš S (2017) Does eIF3 promote reinitiation after translation of short upstream ORFs also in mammalian cells? *RNA Biol.* **14**: 1660–1667

Herrmannová Anna, Prilepskaja Terezie, Wagner Susan, Šikrová Darina, Zeman Jakub, **Poncová Kristýna**, and Valášek Leoš S (2019) Adapted formaldehyde gradient cross-linking protocol implicates human eIF3d and eIF3c, k and l subunits in the 43S and 48S pre-initiation complex assembly, respectively. *Nucleic Acids Res.* **48**: 1969-1984

### **Other publications:**

Macůrková Anna, Neubauerová Tereza, **Poncová Kristýna**, Ježek Rudolf, Lovecká Petra, Spiwok Vojtěch, Macková Martina, and Macek Tomáš (2014) Effect of chain elongation on biological properties of the toxin paralyisin  $\beta$ -alanyl-tyrosine. *Chem. Biol. Drug Des.* **83**: 418–426

Brynda Jiří, Mader Pavel, Šícha Václav, Fábry Milan, **Poncová Kristýna**, Bakardiev Mario, Grüner Bohumír, Cígler Petr, and Řezáčová Pavlína (2013) Carborane-based carbonic anhydrase inhibitors. *Angew. Chem. Int. Ed. Engl.* **52**: 13760–3