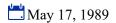
Jakub Zeman



Czech

iakub.zeman@biomed.cas.cz

O Laboratory of Regulation of Gene Expression, Institute of Microbiology ASCR, v. v. i., Vídeňská 1083, Prague, Czech Republic

www.biomed.cas.cz/mbu/lrge



RESEARCH EXPERIENCE

2013 – present	PhD student, Institute of Microbiology, AS CR, v.v.i., Prague
	Laboratory of Regulation of Gene Expression (Dr Leoš Valášek)
2009 – 2013	Faculty of Science, Charles University, Prague
	Laboratory of RNA Biochemistry (Dr Martin Pospíšek)

EDUCATION

2013 – present	Doctoral degree (PhD), Faculty of Science, Charles University, Prague thesis defence on September 11
2011 – 2013	Master degree (Mgr.), Faculty of Science, Charles University, Prague Diploma thesis "Variability of the IRES elements of the hepatitis C virus"
2008 – 2011	Bachelor degree (Bc.), Faculty of Science, Charles University, Prague Bachelor thesis "Novel hepatitis C virus proteins"

SKILLS

Practical skills

protein expression and purification, FPLC, PAGE, Western blot, dot blot, protein-protein cross-linking, sample preparation for mass spectrometry, sucrose gradient and sucrose cushion centrifugation, pull-down assay

PCR, in-vitro transcription and translation, cloning, gel-shift assay, yeast two-hybrid screening, TGGE, RNA structure probing, radioactive labelling

bacterial, yeast, and tissue culture techniques

Computer skills Basics of Python, R, Linux, PHP, HTML, CSS, and XML

Expert in Adobe CS & MS Office; mass spectrometry data analysis, PyMOL,

Autodesk 3Ds, protein & structural bioinformatics

LANGUAGES

Czech First language

English Full professional proficiency

German Limited working proficiency

PUBLICATIONS

Jakub Zeman, Yuzuru Itoh, Zdeněk Kukačka, Michal Rosůlek, Daniel Kavan, Tomáš Kouba, Myrte Jansen, Mahabub Pasha Mohammad, Petr Novák, Leoš Shivaya Valášek: Binding of eIF3 in complex with eIF5 and eIF1 to the 40S ribosomal subunit is accompanied by dramatic structural changes, Nucleic Acids Research 2019 (accepted)

Petra Beznosková, Zuzana Pavlíková, **Jakub Zeman**, Colin Aitken, Leoš Valášek: **Yeast applied** readthrough inducing system (YARIS) An in vivo assay for the comprehensive study of translational readthrough, *Nucleic Acids Research* 2019; doi: 10.1093/nar/gkz346/

Mahabub Pasha Mohammad, Vanda Munzarová Pondělíčková, **Jakub Zeman**, Stanislava Gunišová, Leoš Shivaya Valášek: **In vivo evidence that eIF3 stays bound to ribosomes elongating and terminating on short upstream ORFs to promote reinitiation**, *Nucleic Acids Research* 2017; 45 (5): 2658-2674. doi: 10.1093/nar/gkx049 **Times Cited: 21**

Leoš Shivaya Valášek, **Jakub Zeman**, Susan Wagner, Petra Beznosková, Zuzana Pavlíková, Mahabub Pasha Mohammad, Vladislava Hronová, Anna Herrmannová, Yaser Hashem, Stanislava Gunišová: **Embraced by eIF3: structural and functional insights into the roles of eIF3 across the translation cycle**, *Nucleic Acids Research* 2017; 45 (19): 10948–10968. doi: 10.1093/nar/gkx805 **Times Cited: 15**

Vladislava Hronová, Mahabub Pasha Mohammad, Susan Wagner, Josef Pánek, Stanislava Gunišová, **Jakub Zeman**, Kristýna Poncová, Leoš Shivaya Valášek: **Does eIF3 promote reinitiation after translation of short upstream ORFs also in mammalian cells?**, RNA Biology 2017, 14:12, 1660-1667, doi: 10.1080/15476286.2017.1353863 **Times Cited: 6**

SPECIAL TRAININGS

June 2018 Summer School on Experimental Biology; CEITEC, Brno, Czech Republic

CRISPR/Cas9 editing design, basic genomic data analysis, MALDI MS profiling,

fluorescence labelling

September 2017 Synthetic Biology in Action: Programming Bacteria to Do Amazing Things; EMBL,

Heidelberg, Germany

Advanced genetic tools for genome engineering (CRISPR, MAGE), Multiple

assembly/synthesis/editing of DNA segments

ORAL PRESENTATIONS

September 2018 RNA Club 2018, Prague

POSTER PRESENTATIONS

September 2019 Protein Synthesis and Translational Control 2019, Heidelberg, Germany

January 2019 Ribosome 2019, Mérida, Mexico

August 2017 ICYGMB/Yeast 2017, Prague

June 2017 RNA 2017, Prague

September 2016 RNA Club 2016, Brno

September 2015 RNA Club 2015, České Budějovice

September 2015 Protein Synthesis and Translational Control 2015, Heidelberg, Germany

ORGANISATION OF EVENTS

Promotional and educative events organized by Public relations department of the Institute of Microbiology AS CR and by Faculty of Science, Charles University.

Administrative and technical help with organizing of two conferences (RNA Club 2012, IBRC 2010).

OUTSIDE THE LAB

Sports enthusiast, musician, passionate cook and gourmet, amateur photographer, art lover, wine grower, beer & whisky taster, blood donor.