

## **CURRICULUM VITAE**

### **Personal information**

Name and surname: Eva Veselá

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Date of birth: 16.5. 1987

### **Work experience**

1/2017 – recent Research Assistant, MRC/LMCB, University College London, UK

10/2009-12/2016 Student Research Assistant, Laboratory of Integrity of Genome,  
Palacky University, Olomouc, CZ

### **Skills**

Basic laboratory skills: mammalian cell culture, immunofluorescence technique, Ames test (microplate assay), western blotting, basic microbiological techniques, cloning, PCR technique, CRISPR/Cas9 technique

Advanced laboratory techniques: experience with advanced microscopy techniques, quantitative image analysis (ScanR Analysis, Columbus), high-content screening (Olympus ScanR Acquisition, PerkinElmer Operetta, Zeiss LSM780, Zeiss CellObserver SD, Nikon Vox), live cell imaging, development of in-house made routines for image analysis, basics of Image J software

Teaching: semestral laboratory course (biochemistry), advanced microscopy technique (workshop instructor)

### **Education**

2011 - recent PhD student, study program: Medical Genetics  
Palacky University, Faculty of General medicine and Dentistry,  
Institute of Molecular and translational medicine, Olomouc, CZ

2009 - 2011 Biochemistry, M. Sc.  
Palacky University, Faculty of Science, Olomouc, CZ

2006 - 2009

Bc., Biochemistry  
Palacky University, Faculty of Science, Olomouc, CZ

## Publications

Common Chemical Inductors of Replication Stress: Focus on Cell-Based Studies.

Vesela E, Chroma K, Turi Z, Mistrik M.  
Biomolecules. 2017 Feb 21;7(1). pii: E19.  
doi: 10.3390/biom7010019.

Role of DNA repair factor XPC in response to replication stress, revealed by DNA fragile site affinity chromatography and quantitative proteomics.

Beresova L, Vesela E, Chamrád I, Voller J, Yamada M, Furst T, Lenobel R, Chroma K, Gursky J, Krizova K, Mistrik M, Bartek J.  
J Proteome Res., 30.10.2016  
Doi: 10.1021/acs.jproteome.6b00622

Cells and Stripes: A novel quantitative photo-manipulation technique.

Mistrik M, Vesela E, Furst T, Hanzlikova H, Frydrych I, Gursky J, Majera D, Bartek J  
Sci Rep. 2016 Jan 18; 6:19567.  
doi: 10.1038/srep19567  
(shared first authorship)

ATR-Chk1-APC/CCdh1-dependent stabilization of Cdc7-ASK (Dbf4) kinase is required for DNA lesion bypass under replication stress.

Yamada M, Watanabe K, Mistrik M, Vesela E, Protivankova I, Mailand N, Lee M, Masai H, Lukas J, Bartek J  
Genes Dev. 2013 Nov 15; 27(22):2459-72.  
doi: 10.1101/gad.224568.113

## Presentations

Quantitative evaluation of laser-induced striation patterns in large amounts of live cells  
7<sup>th</sup> DNA Repair Workshop, Smolenice, Slovakia, 22.-24.5.2016  
(poster)

Quantitative evaluation of laser-induced striation patterns in large amounts of live cells  
10<sup>th</sup> Quinquennial Conference on Responses to DNA damage: from molecule to disease, Egmond aan Zee, Netherlands, 17. - 22.4. 2016  
(poster)

Molecular insight into XPC role in replication stress and common fragile site stability

XI. Diagnostic, Predictive and Experimental Oncology Days, Olomouc, CZ, 2. - 3.12 2015 (oral, EN)

New approach to quantitative image analysis of laser induced DNA damage in live cells  
X. Diagnostic, Predictive and Experimental Oncology Days,  
Olomouc, CZ, 2.-3.12. 2014 (oral, EN)

Introduction to automated microscopy for high-throughput and high-content screening  
V4 International Conference Analytical Cytometry VII  
Mikulov, CZ, 21.-24.9. 2013 (oral, EN)

Antibody detection of DNA damage markers: Method optimization for cell-based high-content screening  
Conference of Chemical biology and Genetics, Karlov, CZ, 12.-14.5 2013 (oral, EN)

*Drosera capensis* and *Camelia sinensis* extracts protect DNA from ionizing radiation through the elimination of ROS  
Natural Anticancer Drugs, Olomouc, CZ 30.6. – 4.7. 2012 (poster)

## Projects

Norway grant no. 7F14061, studies of FANCD2 and BRCA1 signaling upon replication stress, Palacky University, Faculty of Medicine and Dentistry, Olomouc, CZ

Interior grant, 2014, studies Palacky University, Faculty of Medicine and Dentistry, Olomouc, CZ

Grant of Ministry of Interior of Czech Republic, optimization of immunofluorescence detection of DNA damage markers for high-content screening, technical assistant (2010-2014), Palacky

University, Faculty of Science, Olomouc, CZ  
Project Aesculab, author of molecular biology modules, (2009-2012), Palacky University, Faculty of Science, Olomouc, CZ

## Conferences, workshops, courses

Bioimage Data Analysis 2017  
EMBL, Heidelberg, 14-21.5.2017

Super-resolution microscopy studies  
Brno, 18.11.2015

Functional Organization of the Cell Nucleus Symposium  
Prag, CZ, 13.10. 2014

3rd European Conference on Whole Slide Imaging and Analysis  
TIGA center, University of Heidelberg, 2013

Summer School: Focus on microinjection and advanced imaging  
CEITEC, Veterinary Research Institute, Brno, CZ, 10. - 15.6. 2013

Preclinical drug evaluation  
FNUSA, MediTox , Brno, CZ, 7.6. 2013

High-Throughput Cell Biology: from screening to applications  
Institute Curie, Paris, 2012

30.6.2017, Olomouc

Eva Veselá