

## Personal information:

Name and surname: Jiřina Źáčková Suchanov  
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E-mail: suchanova.jirina@seznam.cz  
Sex: Female  
Nationality: Czech  
Date of birth: 23.12.1987

## Education and training:

### *Education:*

- 2012-now: PhD in Cellular and Molecular Biology, Genetics and Virology  
Institution: Faculty of Science, Charles University, Prague, Czech Republic  
Defense of the thesis is planned on 18<sup>th</sup> September, 2018  
PhD thesis topic: Targeting of viral nanoparticles to cancer specific receptors
- 2010-2012: Master degree in Genetics, Molecular Biology and Virology  
Study programme: Biology  
Institution: Faculty of Science, Charles University, Prague, Czech Republic  
Summa cum laude  
Master thesis topic: Targeting prostate tumor cells by polyomavirus virus-like particles
- 2007 – 2010: Bachelor degree in Molecular Biology and Biochemistry of Organisms  
Study programme: Special Chemical and Biological programmes  
Institution: Faculty of Science, Charles University, Prague, Czech Republic  
Bachelor thesis: Action of polyomavirus protein in host cell cycle
- 2003 – 2007: Secondary education with state school leaving exam  
Institution: Gymnzium Dr. Vclava Źmejkal, Ůst nad Labem, Czech Republic

### *Courses, summer schools and certificates:*

- 2017: Single molecule microscopy and manipulation - practical course, 5 days  
BIOCEV, Vestec, Czech Republic
- 2015-2022: Certificate for Project and Design of Experiments with Laboratory Animals
- 2013: Current Methods in Cell Biology  
First Faculty of Medicine, Charles University, Prague, Czech Republic
- 2013: Summer school of Tissue Engineering 2013, 3 days (Intensive training in materials for tissue engineering and systems for directed release of therapeutics for regenerative medicine.)  
Second Faculty of Medicine, Charles University, Prague, Czech Republic  
Czech Technical University in Prague, Prague, Czech Republic

Technical University of Liberec, Liberec, Czech Republic

2009: Proteomic practical class  
Faculty of Science, Charles University, Prague

***Grants and awards:***

2017: The best oral presentation in the Student Scientific Meeting Biomania 2017

2017: BSGCT Scientific Writing Competition, 9<sup>th</sup> place

2012-2016: Scholarship for Talented PhD Students, STARS, 4 years

2012-2015: Grant from the Grant Agency of Charles University, 3 years, GAUK 913613  
Topic: Targeting of polyomavirus virus-like particles to prostate cancer cells by utilization of directed evolution methods.

2012/2013: Grant from the agency League against cancer Prague, 1 year  
Topic: Development of polyomavirus based nanoparticles for their utilization in the diagnosis and therapy of cancer.

2012: The best diploma thesis of the Department of Genetics and Microbiology

2011: The best oral presentation in the Czech-Slovak forum of young scientists

**Work experience:**

2010 – now: Scientific work in Laboratory of Virology (group leader: doc. RNDr. Jitka Forstová, CSc.),  
Department of Genetics and Microbiology, Faculty of Science, Charles University in Prague

2011 – now: Teaching of Practical Course in Virology  
Reviewing of Bachelor and Diploma theses  
Supervising of Bachelor and Diploma students

**Language skills:**

Mother tongue: Czech language

English: Advanced skills  
IELTS test - score 7.0 (level C1), June 2017

German: Basic skills

## Others skills:

- Job-related skills: Work with DNA (isolation, cloning, mutagenesis, PCR, sequencing)  
Work with protein (SDS PAGE, Western blot, use of bacterial, baculoviral and mammal expression systems for protein production)  
Microscopy techniques (fluorescence, confocal and electron microscopy) and work with cell cultures (maintaining, transfection and reporter assays)  
Work with virus-like particles (isolation, chemical modification, use of FACS, Dynamic light scattering and microscopy techniques)  
Use of bioinformatics tools for DNA and protein sequences.
- Communication skills: Team work (gained: practical laboratory courses, work in laboratory).  
Good communication skills in foreign language (gained: supervising foreign student in our laboratory, oral presentations on conferences)
- Organization skills: Time organization of work and thoroughness (gained: practical laboratory courses, work in Laboratory of Virology)
- Computer skills: Intermediate – advanced user of Microsoft Office programs, Adobe Photoshop, GraphPad Prism, Internet and Databases (NCBI, Web of Science, Scopus, ExPASy)
- Driving license: B (cars under 4,500 kg)
- Other skills and hobbies: Playing recorder, belly dancing, aerobic, hiking, reading and traveling

## Publications and Conferences:

### *Publications:*

- 2018** Neburkova J, Sedlak F, Zackova Suchanova J, Kostka L, Sacha P, Subr V, Etrych T, Simon P, Barinkova J, Krystufek R, Spanielova H, Forstova J, Konvalinka J, Cigler P  
**Inhibitor-GCPII interaction: selective and robust system for targeting cancer cells with structurally diverse nanoparticles.**  
*Molecular Pharmaceutics* 2018,doi:10.1021/acs.molpharmaceut.7b00889
- Sekavová A, Roubalová K, Forejtová A, Zacková Suchanová J, Forstová J, Viklický O, Spanielová H  
**Improved VLP-based immunoassay for serological screening of BK virus infection.**  
*Journal of Clinical Virology*, submitted
- Zackova Suchanova J, Neburkova J, Spanielova H, Forstova J  
**Targeting of Polyomavirus Based Nanoparticles is not Influenced by Formation of Protein Corona.**  
- in preparation

- 2017** Zackova Suchanova J, Neburkova J, Spanielova H, Forstova J, Cigler P.  
**Retargeting Polyomavirus-Like Particles to Cancer Cells by Chemical Modification of Capsid Surface.**  
*Bioconjugate Chemistry* 28(2):307–13.
- 2015** Suchanová J, Španielová H, Forstová J  
**Applications of Viral Nanoparticles Based on Polyomavirus and Papillomavirus Structures.** Editors: Khudyakov Yury and Pumpens Paul.  
*Viral Nanotechnology*. ISBN 9781466583528 - CAT# K18995 CRC Press, July, 2015.
- 2014** Spanielová H, Fraiberk M, Suchanová J, Soukup J, Forstová J  
**The encapsidation of polyomavirus is not defined by a sequence-specific encapsidation signal.**  
*Virology* 450-451:122-31
- 2013** Hron T, Spanielová H, Suchanová J, Forstová J  
**The Cre/loxP recombination system for production of infectious mouse polyomavirus.**  
*Virus Research* 176(1-2):128-36.

**Conferences:**

- 2018** **24th World Nano Conference - Rome, Italy**  
*Oral presentation: Polyomavirus based viral nanoparticles: a useful tool for targeting cancer cells affecting protein corona*
- 2017** **CzechoSlovak Virology Conference - České Budějovice, Czech Republic**  
*Poster presentation: Virus-like particles as a tool for type-specific diagnostics of BK virus infections*
- 2016** **12th International Congress of Cell Biology - Prague, Czech Republic**  
*Poster presentation: Retargeting of Polyomavirus Based Nanoparticles to cancer cells*
- 2015** **ICGEB DNA Tumour Virus Meeting - Trieste, Italy**  
*Poster presentation: Retargeting of polyomavirus virus-like particles using directed evolution methods*
- 2014** **26<sup>TH</sup> EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics - Barcelona, Spain**  
**18th International Microscopy Congress - Prague, Czech Republic**  
*Poster presentation: Utilization of polyomavirus based nanoparticles in cancer diagnostics and therapy*
- 2013** **DNA Tumour Virus Meeting - Birmingham, UK**  
*Poster presentation: Utilization of polyomavirus based nanoparticles in cancer diagnostics and therapy*

2011

**1st ICCTI annual conference, Mikulov**

*Topic: Cancer immunotherapy and vaccination*

**Czech-Slovak forum of young scientists, Mikulov**

*Oral presentation: Utilization of polyomavirus based nanoparticles in cancer diagnostics and therapy*

**References:**

**RNDr. Hana Španielová, PhD**

*Supervisor, Academic researcher in the Laboratory of Molecular Virology*

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**Assoc. Prof. RNDr. Jitka Forstová, CSc.**

*Head of the Laboratory of Molecular Virology*

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