

# Julie Vacková

## EDUCATION

- 2016-Present PhD studies** Faculty of Science, Charles University, Prague, Czech Republic  
Immunology  
Dissertation thesis: Checkpoint blockade in cancer immunotherapy (supervisor RNDr. Michal Šmahel, Ph.D.)
- 2014-2016 Master studies** Faculty of Science, Charles University, Prague, Czech Republic  
Immunology  
Diploma thesis: Mechanisms of immunosuppressive drug-mediated effect on mesenchymal stem cell properties (supervisor RNDr. Magdaléna Krulová, Ph.D.);  
Summa cum laude (highest honours)
- 2011-2014 Bachelor studies** Faculty of Science, Charles University  
Biology  
Bachelor thesis: Effect of parasites on haematological traits in vertebrates (supervisor RNDr. Michal Vinkler, Ph.D.)

## WORK EXPERIENCE

- April 2021-Present** Full time job, postdoc  
Laboratory of Haematooncology (Meritxell Alberich Jorda, Ph.D.), Institute of Molecular Genetics of the Czech Academy of Sciences, Prague, Czech Republic
- 2016-March 2021** Scientific researcher  
Laboratory of Immunotherapy (RNDr. Michal Šmahel, Ph.D.), Department of Genetics and Microbiology, Faculty of Science, Charles University, Prague, Czech Republic

## PUBLICATIONS

- Vackova, J., Polakova, I., Johari, S. D., Smahel, M. (2021). CD80 expression on tumor cells alters tumor microenvironment and efficacy of cancer immunotherapy by CTLA-4 blockade. *Cancers* 13 (8): 1935.
- Vackova, J., Piatakova, A., Polakova, I., Smahel, M. (2020). Abrogation of IFN- $\gamma$  signalling may not worsen sensitivity to PD-1/PD-L1 blockade. *International Journal of Molecular Sciences* 21 (5): 1806.
- Lhotakova, K., Grzelak, A., Polakova, I., Vackova, J., Smahel, M. (2019). Establishment and characterization of a mouse tumour cell line with irreversible downregulation of MHC class I molecules. *Oncology reports* 4 (6): 2826-2835.
- Grzelak, A., Polakova, I., Smahelova, J., Vackova, J., Pekarcikova, L., Tachezy, R., and Smahel, M. (2018). Experimental Combined Immunotherapy of Tumours with Major Histocompatibility Complex Class I Downregulation. *International Journal of Molecular Sciences* 19 (11): 3693.
- Javorkova, E., Vackova, J., Hajkova, M., Hermankova, B., Zajicova, A., Holan, V., and Krulova, M. (2017). The effect of clinically relevant doses of immunosuppressive drugs on human mesenchymal stem cells. *Biomedicine and Pharmacotherapy* 97, 402–411.

## CONFERENCES

- 5<sup>th</sup> PhD Conference in Immunology, October 10-11, 2019, Prague Czech Republic
- BIOCEV Days, June 17-18, 2019, Vestec, Czech Republic
- 12<sup>th</sup> PhD IMG Conference, May 24, 2019, Prague, Czech Republic
- 14<sup>th</sup> ENII EFIS EJI Summer School on Advanced immunology, May 11-18, 2019, Porto Cervo, Sardinia
- 11<sup>th</sup> PhD IMG Conference, June 29, 2018, Prague, Czech Republic
- 4<sup>th</sup> PhD Conference in Immunology, October 14-16, 2018, Svatý Jan pod Skalou, Czech Republic
- 13<sup>th</sup> EFIS-EJI Tatra Immunology Conference, June 9-13, 2018, Štrbské Pleso, Slovakia
- 3<sup>th</sup> PhD Conference in Immunology, October 14-16, 2017, Svatý Jan pod Skalou, Czech Republic
- Cancer Immunotherapy & Immunomonitoring (CITIM), April 24-27, 2017, Prague, Czech Republic

## TEACHING

Advances in Immunology, 2020, two lectures focused on immune checkpoint blockade

## AWARD

### **The Charles University Grant Agency, 2018-2020**

The effect of cytokines and growth factors on the expression of PD-L1 in tumors and on the efficacy of PD-L1 blockade by monoclonal antibodies

## LABORATORY SKILLS

Flow cytometry, ELISA, small animal handling, Western blotting, PCR, CRISPR/Cas9  
COVID-19 diagnostics (BIOCEV), 2020 – RNA isolation

## LANGUAGE SKILLS

Czech – native language, English – B2+