

Curriculum vitae

Mgr. Michal Dibus

Academic qualification:

2016 –

PhD. study of Developmental and Cellular Biology at Faculty of Science of Charles University in Prague, Czech Republic

Theme of the dissertation project: **Identification of novel substrates of PKN3 kinase and characterization of the role of phosphorylation in the regulation of Rho GAP activity**

2014 – 2016

Master's study of Cellular and Developmental Biology at Faculty of Science of Charles University in Prague, Czech Republic. **Graduated with honours (Mgr.).**

Theme of the diploma thesis: **Crosstalk of PKN3 and p130Cas/BCAR1 Signaling.**

2011 – 2014

Bachelor's study of Molecular Biology and Biochemistry of Organisms at Faculty of Science of Charles University in Prague, Czech Republic.

Theme of the bachelor's thesis: **The Role of Ser/Thr Phosphorylation of p130Cas in Signaling.**

Publications:

1. Li Q., **Dibus M.**, Casey A., Yee Ch., Vargas S.O., Luo S., Rosen S.M., Madden J.A., Genetti C.A., Brábek J., Brownstein C.A., Kazerounian S., Raby B.A., Schmitz-Abe K., Kennedy J.C., Fishman M.P., Mullen M.P., Taylor J.M., Rosel D., Agrawal P.B. (202X). A homozygous stop gain variant in ARHGAP42 is associated with childhood interstitial lung disease, systemic hypertension, and immunological findings. Submitted to PLOS Genetics.
2. **Dibus, M.**, Brábek, J., & Rösel, D. (2020). A Screen for PKN3 Substrates Reveals an Activating Phosphorylation of ARHGAP18. *International journal of molecular sciences*, 21(20), E7769.
3. Jorda, R., Magar, P., Hendrychová, D., Pauk, K., **Dibus, M.**, Pilařová, E., Imramovský, A., & Kryštof, V. (2020). Novel modified leucine and phenylalanine dipeptides modulate viability and attachment of cancer cells. *European journal of medicinal chemistry*, 188, 112036.
4. Merta, L., Gandalovičová, A., Čermák, V., **Dibus, M.**, Gutschner, T., Diederichs, S., Rösel, D., & Brábek, J. (2020). Increased Level of Long Non-Coding RNA MALAT1 is a Common Feature of Amoeboid Invasion. *Cancers*, 12(5), 1136.
5. Gemperle, J., **Dibus, M.**, Koudelková, L., Rosel, D., & Brábek, J. (2019). The interaction of p130Cas with PKN3 promotes malignant growth. *Molecular oncology*, 13(2), 264–289.

6. Gemperle, J., Hexnerová, R., Lepšík, M., Tesina, P., **Dibus, M.**, Novotný, M., Brábek, J., Veverka, V., & Rosel, D. (2017). Structural characterization of CAS SH3 domain selectivity and regulation reveals new CAS interaction partners. *Scientific reports*, 7(1), 8057.
7. Luo, W., Janoštiak, R., Tolde, O., Ryzhova, L. M., Koudelková, L., **Dibus, M.**, Brábek, J., Hanks, S. K., & Rosel, D. (2017). ARHGAP42 is activated by Src-mediated tyrosine phosphorylation to promote cell motility. *Journal of cell science*, 130(14), 2382–2393.

Language skills:

English	advanced
Spanish	DELE (Diploma de Español como Lengua Extranjera) – Nivel Superior (C2) State Exam of Spanish Language (C1) – natural sciences (biology, chemistry)