

DECLARATION OF AUTHORSHIP

- I. **Polák, M.**; Yassaghi, G.; Kavan, D.; Filandr, F.; Fiala, J.; Kukačka, Z.; Halada, P.; Loginov, D. S.; Novák, P. Utilization of Fast Photochemical Oxidation of Proteins and Both Bottom-up and Top-down Mass Spectrometry for Structural Characterization of a Transcription Factor–DsDNA Complex. *Anal. Chem.* 2022, 94 (7), 3203–3210. doi:10.1021/acs.analchem.1c04746.

I declare that Marek Polák contributed ~60 % to **publication I**. He was responsible for protein expression and purification, oxidizing them, analyzing obtained datasets, and assisting in the debugging software for data interpretation. Marek also wrote the first draft of the article.

- II. **Polák, M.**; Černý, J.; Novák, P. Isotopic Depletion Increases the Spatial Resolution of FPOP Top-Down Mass Spectrometry Analysis. *Anal. Chem.* 2024, 96 (4), 1478–1487. doi:10.1021/acs.analchem.3c03759.

I declare that Marek Polák contributed ~90 % to **publication II**. He expressed and purified protein samples, oxidized them, analyzed obtained datasets, and wrote and prepared the manuscript.

- III. **Polák, M.**; Brinsa, V.; Černý, J.; Kavan, D.; Volný, M.; Kádek, A.; Novák, P. Hydroxyl Radical Footprinting of Nucleic Acids Coupled to High-Resolution Mass Spectrometry Analysis, *Nucleic Acids Res.*, *manuscript in preparation*.

I declare that Marek Polák contributed ~70 % to **publication III**. He prepared DNA and protein samples, oxidized them, analyzed obtained datasets by LC-MS, and wrote and prepared the manuscript.

- IV. Felčíková, K.; Hovan, A.; **Polák, M.**; Loginov, D.S.; Holotová, V.; Díaz, C.; Kožár, T.; Lee, O.; Varhač, R.; Novák, P., Bánó, G.; Sedlák, E. Design of AsLOV2 domain as a carrier of light-induced dissociable FMN photosensitizer. *Prot. Sci.*, 2024, *in press*. doi: 10.1002/pro.4921

I declare that Marek Polák contributed ~15 % to **publication IV**. As a co-author, he analyzed proteins by top-down, prepared figures and contributed to the manuscript writing.

In Vestec 15.3.2024



RNDr. Petr Novák, Ph.D.