

**prof. RNDr. Marie Korabečná, PhD.**

PhD specializes in human genetics, especially in the development of laboratory diagnostic methods in clinical and forensic genetics. Her research activities are focused on the biological functions and diagnostic use of freely circulating nucleic acids and the development of methodological approaches based on the polymerase chain reaction. She participates in the teaching of the subjects Genetics, Clinical Genetics and Laboratory Diagnostics in Clinical Genetics, supervises and opposes the thesis of the department's students.

**Born:** 1961

**Doctoral degree:** 2005

**Associate professor:** 2007

**Professor:** 2018

**Publications**

1. Korabecna M, Zinkova A, Brynychova I, Chylikova B, Prikryl P, Sedova L, Neuzil P, Seda O. Cell-free DNA in plasma as an essential immune system regulator. *Sci Rep.* 2020;10(1):17478.
2. Zhu H, Zhang H, Xu Y, Laššáková S, Korabečná M, Neuzil P. PCR past, present and future. *Biotechniques.* 2020;69(4):317-325.
3. Zhu H, Zhang H, Ni S, Korabečná M, Yobas L, Neuzil P. The vision of point-of-care PCR tests for the COVID-19 pandemic and beyond. *Trends Analyt Chem.* 2020;130:115984.
4. Gaňová M, Zhang H, Zhu H, Korabečná M, Neuzil P. Multiplexed digital polymerase chain reaction as a powerful diagnostic tool. *Biosens Bioelectron.* 2021;181:113155
5. Frydlova J, Zednikova I, Satrapova V, Pazourkova E, Santorova S, Hruskova Z, Tesar V, Vokurka M, Prikryl P, Korabecna M. Analysis of microRNAs in Small Urinary Extracellular Vesicles and Their Potential Roles in Pathogenesis of Renal ANCA-Associated Vasculitis. *Int J Mol Sci.* 2022 14;23(8):4344.
6. Haoqing Zhang H, Laššáková S, Yan Z, Wang X, Šenkyřík P, Gaňová M, Chang H, Korabečná M, Neuzil P. Digital polymerase chain reaction duplexing method in a single fluorescence channel. *Anal Chim Acta* 2022;340243 (in press).