Prof. Petr Humpolíček is a professor at Tomas Bata University in Zlín (Czech Republic) whose scientific journey began in animal genetics and then gradually shifted through cell biology towards biomaterials and polymer-based systems. This trajectory gives him a strong understanding of how cells behave and respond, which he now leverages in the design and testing of advanced materials.

His current research focuses on biomaterials with defined cell-instructive properties, with a special emphasis on electrically conducting polymers and their use in creating biomimetic environments for cells. He is particularly interested in how material properties can guide cell behaviour. As head of the Biomaterials research group at the Centre of Polymer Systems, he is engaged in leading research projects and long-term collaborations with academic partners around the world. Mentoring is an important part of his work: he has supervised and co-supervised several PhD theses and numerous master's and bachelor's students, helping young researchers connect biological questions with materials-focused solutions.