



Pavel Vodička, MD, PhD

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Dr. Vodicka, a Head of the Department of Molecular Biology of Cancer, Institute of Experimental Medicine in Prague, has published more than 270 (total IF 1520, over 7400 citations and HI 46) scientific articles in peer-reviewed journals (see PubMed). He acted as principal investigator on several grants from the Grant Agency of the Czech Republic and Grant Agency, Ministry of Health, He has got the Award of Ministry of health in 1997 and was nominated for this Award in 2019. Dr. He participated on international projects within the 5th and 6th EU Frame Programme. In 2004 and 2005 he acted as an expert for evaluating carcinogenic risks of chemicals in the programme of US State Department of Health and NIES, Research Triangle Park, NC, USA, so did he as an expert for International Agency for Research on Cancer (IACR), Lyon, France in 2017-2018. He is involved in the evaluation of reports within 6th and 7th EU FP, in evaluation of grant applications within ESC, EU Commission, Brussels, Belgium, and collaborates with UICC, Geneva, Switzerland. Since 2004 the main topics of research are focused on the DNA repair functional tests in relation to the markers of DNA and chromosomal damage. Tests are performed on human material (molecular epidemiology approach). Furthermore, numerous susceptibility genes have been investigated regarding sporadic colorectal cancer in humans. PV has participated on the multicentric genome-wide association study aimed at the identification of susceptibility loci in colorectal cancer patients. Recently, Dr. Vodička was acting as Guest Editor for preparing several Special Issues (Mutagenesis in 2012, two Special Topics/Mutagenesis in 2020, International Journal of Molecular Sciences: Telomere Homeostasis, Genomic Instability and Cancer in 2020). In 2021 he acts as a Guest Editor in Cells.

The main research topics of Dr. Vodička:

- Studies on specific DNA and chromosomal damage, related to the environmental and occupational exposure in healthy subjects in relation to the disease onset (cancer)
- Functional tests on DNA repair (repair capacity, phenotype) in healthy subjects and their involvement in carcinogenesis
- Molecular mechanisms of carcinogenesis - involved genetic and epigenetic factors
- Predisposition to gastrointestinal cancers (colorectum, pancreas), genetic susceptibility
- The effectivity of chemotherapy in cancer patients (susceptibility, resistance, adverse effects, toxicity)