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Main research focus is biological remediation of contaminated soils, ranging from phytoremediation and rhizoremediation to metagenomic approaches, but including also genetically modified plants specifically tailored for bioremediation purposes or studies of the effect of ecdysteroids and brassinosteroids on photosynthetic enzymes. Results documented by more than 200 papers published over the last 30 years, with about 2500 citations in WoS and h-index = 29.

Our group has studied mostly the mechanisms involved in remediation of soils and dumpsites contaminated by environmental pollutants such as polychlorinated biphenyls (PCBs), but also heavy metals. Our recently published research in the field of metagenomics brings new information needed for evaluation of the role and environmental impact of those microorganisms that are non-cultivable until.

Principal or co-principal investigator of about 17 projects of the Grant Agency of the Czech Republic in last 20 years, 7 projects of the Grant Agency of the Czech Academy of Sciences, 5 projects funded by the Ministry of Education, Youth and Sports of the Czech Rep., 5 projects funded by the EU, 1 project funded by DFG (Deutsche Forschungsgemeinschaft).

Teaching plant biochemistry, other activities include both conference organization and/or session chair of numerous major professional meetings, from *International Congress of Biochemistry* in Prague, 1988, to the 2016 *International Biotechnology Symposium*, the Festival of Biotechnology organized under the auspices of the IBS and International Union of Pure and Applied Chemistry (IUPAC) in Melbourne. Most recently, in 2014 scientific committee member 16th *International Biotechnology Symposium and Exhibition* in Fortaleza, Brazil or the 11th *International Phytotechnologies Conference*, organized in Heraklion, Greece, by the US-based International Phytotechnology Society, in 2015 in the 6th *European Bioremediation Conference* in Chania or *CEECH 2016* in Prague. Since 1995 always member of the organizing committee of the triennial *International Biosorption and Bioremediation Symposium*.