

#### Projekty:

- 2016-2018 „Rola antyoksydantów w procesie biodegradacji butylowych związków cyny przez wybrane szczepy grzybowe, ze szczególnym uwzględnieniem zmian w lipidomie”; Narodowe Centrum Nauki, kierownik.

#### Publikacje:

- **Stolarek P**, Różalska S, Bernat P. 2018. [Lipidomic adaptations of the \*Metarhizium robertsii\* strain in response to butyltin compounds presence](#). Biochimica et Biophysica Acta- Biomembranes, doi: 10.1016/j.bbamem.2018.06.007.
- Bernat P, Nykiel-Szymańska J, **Stolarek P**, Słaba M, Szewczyk R, Różalska S. 2018. [2,4-dichlorophenoxyacetic acid-induced oxidative stress: metabolome and membrane modifications in \*Umbelopsis isabellina\*, a herbicide degrader](#). PLoS One, doi: 10.1371/journal.pone.0199677.
- Bernat P, Nykiel-Szymańska J, Gajewska E, Różalska S, **Stolarek P**, Dackowa J, Słaba M. 2018. [Trichoderma harzianum diminished oxidative stress caused by dichlorophenoxyacetic acid \(2,4-D\) in wheat, with insights from lipidomics](#). Journal of Plant Physiology 229, 158–163.
- Nykiel-Szymańska J, **Stolarek P**, Bernat P. 2017. [Elimination and detoxification of 2,4-D by \*Umbelopsis isabellina\* with the involvement of cytochrome P450](#). Environmental Science and Pollution Research, doi: 10.1007/s11356-017-0571-4.
- **Siewiera P**, Różalska S, Bernat P. 2017. [Efficient dibutyltin \(DBT\) elimination by the microscopic fungus \*Metarhizium robertsii\* under conditions of intensive aeration and ascorbic acid supplementation](#). Environmental Science and Pollution Research, 24:12118–12127.
- **Siewiera P**, Różalska S, Bernat P. 2017. [Estrogen-mediated protection of the organotin-degrading strain \*Metarhizium robertsii\* against oxidative stress promoted by monobutyltin](#). Chemosphere, 185, 96-104.
- Paraszkiwicz K. Bernat P, **Siewiera P**, Moryl M, Sas Paszt L, Trzciński P, Jałowiecki Ł, Płaza G. 2017. [Agricultural potential of rhizospheric \*Bacillus subtilis\* strains exhibiting varied efficiency of surfactin production](#). Scientia Horticulturae 225: 802-809.
- Bernat P, Paraszkiwicz K, **Siewiera P**, Moryl M., Płaza G, Chojniak J. 2016. [Lipid composition in a strain of \*Bacillus subtilis\*, a producer of iturin A lipopeptides that are active against uropathogenic bacteria](#). World Journal of Microbiology and Biotechnology, 32:157.
- **Siewiera P**, Bernat P, Różalska S, Długoński J. 2015. [Estradiol improves tributyltin degradation by the filamentous fungus \*Metarhizium robertsii\*](#). International Biodeterioration & Biodegradation, 104:258-263.
- Bernat P, **Siewiera P**, Soboń A, Długoński J. 2014. [Phospholipids and protein adaptation of \*Pseudomonas\* sp. to the xenoestrogen tributyltin chloride \(TBT\)](#). World Journal of Microbiology and Biotechnology, doi: 10.1007/s11274-014-1659-3.