

## PAPERS

1. **Pracharova J., Novohradsky V., Kostrehunova H., Štarha P., Trávníček Z., Kasparkova J., Brabec V. (2018)** Half-sandwich Os(II) and Ru(II) bathophenanthroline complexes: anticancer drug candidates with unusual potency and cellular activity profile in highly invasive triple-negative breast cancer cells, *Dalton Transactions* 47, 12198-12208.
2. **Pracharova J., Vigueras G., Novohradsky V., Cutillas N., Janiak Ch., Kasparkova J., Ruiz J., Brabec V. (2018)** Exploring the effect of the polypyridyl ligands on anticancer activity of phosphorescent iridium(III) complexes: from proteosynthesis inhibitors to photodynamic therapy agents, *Chemistry – A European Journal* 24: 4607-4619.
3. **Pracharova J., Intini F. P., Natile G., Kasparkova J., Brabec V. (2018)** Potentiation of cytotoxic action of *cis*-[PtCl<sub>2</sub>(NH<sub>3</sub>)(1M7AI)] by UV irradiation. Mechanistic insight. *Inorganica Chimica Acta* 472: 199-206.
4. **Kasparkova J., Kostrehunova H., Novohradsky V., Pracharova J., Curci A., Margiotta N., Natile G. (2017)** Anticancer kiteplatin pyrophosphate derivatives show unexpected target selectivity for DNA, *Dalton Transactions* 46: 14139-14148.
5. **Novohradsky V., Zanellato I., Marzano Ch., Pracharova J., Kasparkova J., Gibson D., Gandin V., Osella D., Brabec V. (2017)** Epigenetic and antitumor effects of platinum(IV)-octanoato conjugates. *Scientific Reports* 7: 3751.
6. **Perfahl S., Bodtke A., Pracharova J., Kasparkova J., Brabec V., Stürup S., Schulzke C., Cuadrado J., Bednarski P. J. (2017)** Preparation of bis(5-phenyltetrazolato) Pt(II) and Pt(IV) analogues of transplatin and *in vitro* evaluation for antitumor activity. *Inorganica Chimica Acta* 456: 86-94.
7. **Pracharova J., Radosova Muchova T., Dvorak Tomastikova E., Intini F. P., Pacifico C., Natile G., Kasparkova J., Brabec V. (2016)** Anticancer potential of a photoactivated transplatin derivative containing the methylazaindole ligand mediated by ROS generation and DNA cleavage. *Dalton Transactions* 45: 13179-13186.
8. **Brabec V., Pracharova J., Stepankova J., Sadler P. J., Kasparkova J. (2016)** Photo-induced DNA cleavage and cytotoxicity of a ruthenium(II) arene anticancer complex. *Journal of Inorganic Biochemistry* 160: 149-155.
9. **Štarha P., Trávníček Z., Dvořák Z., Radošová-Muchová T., Prachařová J., Vančo J., Kašpárková J. (2015)** Potentiating effect of UVA irradiation on anticancer activity of Carboplatin derivatives involving 7-azaindoles. *PLoS One* 10: e0123595.
10. **Brabec V., Pracharova J., Novakova O., Gibson D., Kasparkova J. (2015)** The induction of lysis in lysogenic strains of *Escherichia coli* by a new antitumor transplatin derivative and its DNA interactions. *Dalton Transactions* 44: 3573-3582.
11. **Pracharova J., Saltarella T., Radosova Muchova T., Scintilla S., Novohradsky V., Novakova O., Intini F. P., Pacifico C., Natile G., Ilik P., Brabec V., Kasparkova J. (2015)** Novel antitumor cisplatin and transplatin derivatives containing 1-methyl-7-azaindole: synthesis, characterization, and cellular responses. *Journal of Medicinal Chemistry* 58: 847-859.

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13. Zhao Y., Woods J. A., Farrer N. J., Robinson K. S., Pracharova J., Kasparkova J., Novakova O., Li H., Salassa L., Pizarro A. M., Clarkson G. J., Song L., Brabec V., Sadler P. J. (2013) Diazido Mixed-Amine Platinum(IV) Anticancer Complexes Activatable by Visible-Light Form Novel DNA Adducts. *Chemistry - A European Journal* 19: 9578-9591.
14. Pracharova J., Novakova O., Kasparkova J., Gibson D., Brabec V. (2012) Toxicity in tumor cells, DNA binding mode, and resistance to decomposition by sulfur nucleophiles of new dinuclear bifunctional trans-PtII complexes containing long alkane linkers. *Pure and Applied Chemistry* 85: 343-354.
15. Pracharova J., Zerzankova L., Stepankova J., Novakova O., Farrer N. J., Sadler P. J., Brabec V., Kasparkova J. (2012) Interactions of DNA with a new platinum(IV) azide dipyridine complex activated by UVA and visible light: Relationship to toxicity in tumor cells. *Chemical Research in Toxicology* 25: 1099-1111.

## CONFERENCE CONTRIBUTIONS

1. Pracharova J., Intini F. P., Pacifico C., Natile G., Novohradsky V., Kasparkova J., Brabec V., Oral presentation: Mechanism of biological effects of the new photosensitive cisplatin and transplatin derivatives. **43<sup>rd</sup> International Conference on Coordination Chemistry**, Sendai, Japan, 30. 7. – 4. 8. **2018**.
2. Pracharova J., Intini F. P., Natile G., Kasparkova J., Brabec V., Oral presentation: Potentiation of cytotoxic action of the new cisplatin derivative by UV irradiation. **Global Conference on Pharmaceutics and Drug Delivery Systems**, Valencia, Spain, 29. 6. – 1. 7. **2017**.
3. Pracharova J., Novohradsky V., Novakova O., Sadler P. J., Brabec V., Kasparkova J., Oral presentation: Platinum(IV) azide dipyridine complex photoactivatable by UVA or visible light: biophysical insights into the molecular mechanism of its anticancer effects. **6<sup>th</sup> EuCheMS Chemistry Congress**, Seville, Spain, 11. – 15. 9. **2016**.
4. Pracharova J., Saltarella T., Radosova Muchova T., Novohradsky V., Natile G., Brabec V., Kasparkova J., Poster: New photosensitive platinum(II) 1-methyl-7-azaindole complexes with nuclease activity. **3<sup>rd</sup> International Symposium on Functional Metal Complexes that Bind to Biomolecules - 4<sup>th</sup> Whole Action Meeting of the COST Action CM1105**. Palma de Mallorca, Spain, 28. – 29. 4. **2016**.
5. Pracharova J., Saltarella T., Radosova Muchova T., Novohradsky V., Natile G., Brabec V., Kasparkova J., Oral presentation and poster: Novel photosensitive cisplatin and transplatin derivatives as potent antitumor agents: cytotoxicity and DNA cleavage properties. **ISABC13**, Galway, Ireland, 12. – 15. 6. **2015**.
6. Pracharova J., Radosova Muchova T., Natile G., Brabec V., Kasparkova J., Poster: Cellular pharmacology of new cisplatin and transplatin derivatives containing 1-methyl-7-azaindole fluorophore. **2<sup>nd</sup> International Symposium on Functional Metal Complexes that Bind to Biomolecules**, Zürich, Switzerland, 21. – 24. 8. **2014**.
7. Pracharova J., Zerzankova L., Stepankova J., Novakova O., Farrer N. J., Sadler P. J., Brabec V., Kasparkova J., Poster: New photoactivatable anticancer platinum(IV) azide dipyridine complex: interactions with DNA and inhibition of RNA polymerase II. **IUPAB 2014**, Brisbane, Australia, 3. – 7. 8. **2014**.
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- azaindole fluorophore. **COST ACTION CM1105, Working group #4 meeting**. Olomouc, **Czech Republic**, 29. – 31. 3. **2014**.
9. Pracharova J., Novakova O., Kasparkova J., Gibson D., Brabec V., Poster: Toxicity in Tumor Cells, DNA Binding Mode and Resistance to Decomposition by Sulfur Nucleophiles of New Dinuclear Bifunctional *trans*-Pt<sup>II</sup> Complexes Containing Long Alkane Linkers. **1<sup>st</sup> International Symposium on Functional Metal Complexes that Bind to Biomolecules**. Barcelona, **Spain**, 9. – 10. 9. **2013**.
  10. Pracharova J., Zerkankova L., Stepankova J., Novakova O., Farrer N. J. Sadler P. J., Brabec V., Kasparkova J., Oral presentation: Interactions of DNA with a photoactivatable anticancer platinum(IV) azide dipyridine complex. **COST ACTION CM1105, Working group #4 meeting**. Olomouc, **Czech Republic**, 21. – 23. 3. **2013**.
  11. Pracharova J., Zerkankova L., Stepankova J., Novakova O., Farrer N. J. Sadler P. J., Brabec V., Kasparkova J., Poster: Interactions of DNA with a new anticancer platinum(IV) complex photoactivated by UVA and visible light. **12<sup>th</sup> International Symposium on Platinum Coordination Compounds in Cancer Chemotherapy**. Verona, **Italy**, 11. – 14. 10. **2012**.
  12. Pracharova J., Zerkankova L., Stepankova J., Novakova O., Farrer N. J. Sadler P. J., Brabec V., Kasparkova J., Oral presentation: Interactions of DNA with a new anticancer platinum(IV) azide dipyridine complex. **GA ČR 301/09/H004, Student Scientific Conference**. Brno, **Czech Republic**, 26. 4. **2012**.