

ANNA SIMONOVA

Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Gilead Sciences & IOCB Research Center, Flemingovo nam. 2, CZ-16610 Prague 6, Czech Republic
and
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EDUCATION

- Oct 2012 - Present PhD in Organic Chemistry, Charles University and IOCB, Prague (Czech Republic)
PhD topic: New redox labels for electrochemical detection of DNA (supervisor Prof. Michal Hocek, PhD., DSc.)
PhD courses: Organic synthesis, Advanced retrosynthesis, Transition metals in organic synthesis, NMR spectroscopy for studies of natural compounds, Bioorganic chemistry of natural substances
- Sep 2007 - Jun 2012 M.Sc. in chemistry and technology, D. I. Mendeleev University of Chemical Technology of Russia, Moscow (Russian Federation)

WORK EXPERIENCE

- Oct 2012 - Present Researcher, Institute of Organic Chemistry and Biochemistry (IOCB), Academy of Sciences of the Czech Republic (AS CR), Prague (Czech Republic)

RESEARCH INTERESTS

Organic chemistry, organic synthesis, bioorganic chemistry, transition metal catalyzed reactions, electrochemistry, nucleosides, nucleotides, nucleic acids chemistry.

PERSONAL SKILLS/INTERESTS

Languages: English, Czech, Russian

Communication skills: excellent communication skills gained through studying and work experience in multicultural environments and participation in conferences

Job-related skills: chemistry skills, laboratory skills and techniques, time management, analytics, chemical research, communication, team working.

Digital competence: excellent command of Microsoft Office package (Word, PowerPoint, Excel), chemical packages (Chem Draw, MestRec, MestReNova)

Certificates: English-FCE (2016)

Interests: science, sports, travelling

PUBLICATIONS

1. **Simonova, A.**; Balintová, J.; Pohl, R.; Havran, L.; Fojta, M.; Hocek, M.: "Methoxyphenol and dihydrobenzofuran as new oxidizable labels for electrochemical detection of DNA" *ChemPlusChem* **2014**, *79*, 1703 – 1712.
2. **Simonova, A.**; Havran, L.; Pohl, R.; Fojta, M.; Hocek, M.: "Phenothiazine-linked nucleosides and nucleotides for redox labelling of DNA" *Org. Biomol. Chem.* **2017**, *15*, 6984 – 6996.
3. Balintová, J.; **Simonova, A.**; Białek-Pietras, M.; Olejniczak, A.; Lesnikowski, Z. J.; Hocek, M.: "Carborane-linked 2'-deoxyuridine 5'-O-triphosphate as building block for polymerase synthesis of carborane-modified DNA" *Bioorg. Med. Chem. Lett.* **2017**, *27*, 4786 - 4788.
4. Daňhel, A.; Trošánová, Z.; Balintová, J.; **Simonova, A.**; Pospíšil, L.; Cvačka, J.; Hocek, M.; Fojta, M.: "Electrochemical reduction of azidophenyl-deoxynucleoside conjugates at mercury surface" *Electrochim. Acta* **2018**, *259*, 377 - 385.

CONFERENCES

- Simonova, A.** Fojta M. and Hocek, M. New Oxidative Labels for Electrochemical Detection of DNA (poster presentation), XVIth Symposium on Chemistry of Nucleic Acid Components Český Krumlov, Czech Republic, June 8 - 13, 2014
- Simonova, A.** Fojta M. and Hocek, M. New Oxidative Labels for Electrochemical Detection of DNA (poster presentation), XXI Round Table on Chemical Biology of Nucleic Acids, August 24-28, 2014, Poznan, Poland
- Simonova, A.** Fojta, M. and Hocek, M. New Oxidative Labels for Electrochemical Detection of DNA (poster presentation), 49th Advances in Organic, Bioorganic and Pharmaceutical Chemistry – „Liblice 2014". November 7-9, 2014, Lázně Bělohrad, Czech Republic.
- Simonova, A.** Fojta, M. and Hocek, M. Phenothiazine as new oxidizable label for electrochemical detection of DNA (poster presentation), Challenges in Chemical Biology (ISACS16), Zurich (Switzerland), June 15-18, 2015.
- Simonova, A.** Fojta, M. and Hocek, M. Phenothiazine as new oxidizable label for electrochemical detection of DNA (poster presentation), 17th Tetrahedron Symposium. Challenges in Biological, Bioorganic, Organic & Medicinal Chemistry. June 28 - July 1, 2016, Sitges, Spain.
- Simonova, A.** Fojta, M. and Hocek, M. Phenothiazine as new oxidizable label for electrochemical detection of DNA (poster presentation), XVIIth Symposium on Chemistry of Nucleic Acid Components Český Krumlov, Czech Republic, June 4 - 9, 2017

REFERENCES

Prof. Michal Hocek, PhD., DSc.

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Assoc. Prof. Miroslav Fojta, Ph.D.

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