

Mgr. Štěpánka Skalová

Personal Data

Date of Birth: October 24, 1990
Place of Birth: Ústí nad Orlicí
Nationality: Czech Republic
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Education

2015 to present Faculty of Science, Charles University, Prague, CZ
Doctoral study of Analytical Chemistry

2013 – 2015 Faculty of Chemical Technology, University of Pardubice, Pardubice, CZ
Master study of Analysis of Biological Materials

2010 – 2013 Faculty of Chemical Technology, University of Pardubice, Pardubice, CZ
Bachelor study of Clinical Biology and Chemistry

2006 – 2010 Gymnasium Žamberk, Žamberk, CZ
Secondary school study

Practice

2018 to present Obtaining and managing of grant of Grant Agency of Charles University
Project: Electrochemical Analysis of Anti-cancer Drugs in a Micro-volume Voltammetric Cell

2017 Faculty of Science, University of Porto, P
International Internships (Erasmus Programme +)
Project: Pilot Experiments with a Micro-volume Voltammetric Cell for the Determination of Electrochemically Reducible Organic Compounds

2015 to present J. Heyrovský Institute of Physical Chemistry of the AS CR, v.v.i., Prague, CZ
Project: Development and Application of Novel Electrochemical Cells.

2015 LEROS, s. r. o., Prague, CZ
Lab Technician - Quality Controller

2013 – 2015 Charles University Faculty of Medicine, Hradec Králové, CZ
Internship at Department of Histology and Embryology
Thesis: Differentiation of Stem Cells into Cardiomyocytes (awarded by the Prize of the Deputy of the Parliament of the Czech Republic, PharmDr. Jiří Skalický, Ph.D.)

2013 Pardubice Regional Hospital, Pardubice, CZ

Additional Skills

Czech (native language)
English (FCE certificate)
PC (MS Office, MS Windows, macOS, Origin, scientific databases, Lightroom, Photoshop)
Driving license B

Biography

In the years 2010 - 2013, I graduated with a Bachelor's degree in Clinical Biology and Chemistry at the Faculty of Chemical Technology, University of Pardubice (study completed by the defense of the Bachelor's thesis "The use of DNA polymorphisms for identifying persons"). In the years 2013 - 2015, I gained a Master's degree in Analysis of Biological Materials at the Faculty of Chemical Technology, University of Pardubice (study completed by defending the Master's thesis on the topic "The differentiation of pluripotent stem cells into cardiomyocytes", which was awarded by the Prize of the Deputy of the Parliament of the Czech Republic, PharmDr. Jiří Skalický, Ph.D.).

Currently, I study the fourth year of doctoral studies in Analytical Chemistry at the Charles University in Prague.

List of papers published in impacted journals

1. **Skalova S**, Svadlakova T, Shaikh Qureshi WM, Dev K, Mokry J: Induced Pluripotent Stem Cells and their Use in Cardiac and Neural Regenerative Medicine, *International Journal of Molecular Sciences* 16(2), 4043-4067 (2015)
2. **Skalova S**, Stavkova K, Hajkova A, Barek J, Fischer J, Wang J, Vyskocil V: Interaction of Genotoxic 2-Nitrofluorene and its Metabolites with DNA *in vivo* and its Monitoring Using Electrochemical DNA Biosensors *in vitro*, *Chemické Listy* 111, 178-185 (2017)
3. **Skalova S**, Navratil T, Barek J, Vyskocil V: Voltammetric Determination of Sodium Anthraquinone-2-Sulfonate Using Silver Solid Amalgam Electrodes, *Monatshefte für Chemie – Chemical Monthly* 148(3), 577-583 (2017)
4. Sestakova I, **Skalova S**, Navratil T: Labile Lead Phytochelatin Complex Could Enhance Transport of Lead Ions Across Biological Membrane, *Journal of Electroanalytical Chemistry* 821, 92-96 (2018)
5. **Skalova S**, Vyskocil V, Barek J, Navratil T: Model Biological Membranes and Possibilities of Application of Electrochemical Impedance Spectroscopy for their Characterization, *Electroanalysis* 30, 207-219 (2018)
6. **Skalova S**, Gonçalves LM, Navratil T, Barek J, Rodrigues JA, Vyskocil V: Miniaturized Voltammetric Cell for Cathodic Voltammetry Making Use of an Agar Membrane, *Journal of Electroanalytical Chemistry* 821, 47-52 (2018)
7. **Skalova S**, Langmaier J, Barek J, Vyskocil V, Navratil T: Comparison of Doxorubicin Determination Using Two Voltammetric Techniques, *submitted to Electrochimica Acta* (2019)