**POLINA TUROVA**

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| **EDUCATION** |
| **Lomonosov Moscow State University, Chemistry Department (2017 – 2021 expected)**  *PhD in Analytical Chemistry*   * PhD thesis: “Development of new methods of detection and identification of plant’s materials components by mass-spectrometric data”   **Lomonosov Moscow State University, Chemistry Department (2011 – 2017)**  *Master of Chemistry*   * GPA 4.6   **RESEARCH INTERESTS** |
| * Mass spectrometry and liquid chromatography for herbal extract analysis * Data analysis in Python * Machine learning application for LC-MS data treatment * Employment of tensor decomposition (PARAFAC, TUCKER) for experimental data processing   **PUBLICATIONS** |
| * K. Bogolitsyn, A. Druzhinin, D. Ovchinnikov, A. Parshin, E. Shulgin, P. Turova, and A. Stavrianidi, Polyphenols of arctic brown algae: isolation, polymolecular composition. *Chemistry of Raw Plant Materials*, (4), 65-75, 2019. * E. Stekolshchikova, P. Turova, O. Shpigun, I. Rodin, and A. Stavrianidi. Application of quantitative analysis of multi-component system approach for determination of ginsenosides in different mass-spectrometric conditions. Journal of Chromatography A, 1574:82–90, 2018, [10.1016/j.chroma.2018.09.005](http://dx.doi.org/10.1016/j.chroma.2018.09.005) * P. Turova, E. Stekolshchikova, T. Baygildiev, O. Shpigun, I. Rodin, and A. Stavrianidi. Unified strategy for HPLC-MS evaluation of bioactive compounds for quality control of herbal products. Biomedical Chromatography, 32(12):e4363, 2018, [10.1002/bmc.4363](http://dx.doi.org/10.1002/bmc.4363) * A. N. Stavrianidi, E. A. Stekolshchikova, P. N. Turova, I. A. Rodin, and O. A. Shpigun. Quantitative analysis of a multicomponent system for liquid chromatography–mass spectrometry determination of diosgenin, dioscin and protodioscin in plant extracts of tribulus terrestris. Moscow University Chemistry Bulletin, 72(3):135–143, 2017, [10.3103/S0027131417030063](http://dx.doi.org/10.3103/S0027131417030063)   **RESEARCH EXPERIENCE** |
| **University of Birmingham, School of Computer Science (Mar. 2020 – May 2020)**  *Visiting research student*   * Development of multivariate computation techniques for the analysis of data from High Performance Liquid Chromatography-Mass Spectrometry experiment of plant extract   **CERTIFICATES** |
| * “SCIEX Advanced QTrap Training”, Moscow, Russia, 2019 * “Introduction to Ecometabolomics For Ecologists”, German Centre for Integrative Biodiversity Research, Germany, Leipzig, 2019 * “An Introduction to Data Visualization and Cluster Analysis (using R)”, Radboud Summer School, Nijmegen, Netherlands, 2019 * “Green sample preparation for new generation of analytical chemists: new concepts and fundamentals”, 48th International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, 2019 * “Statistical analysis of chromatographic data: a practical guide”, 48th International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, 2019   **SCHOLARSHIPS** |
| * GFC (Groupe Français de Chimiométrie) scholarship for PhD students for participation in CAC 2020 * ERASMUS scholarship for internship in University of Birmingham (2020) * Scholarship of Russian Federation Government for PhD students (2019/2020) * Grant for PhD research from Russian Foundation for Basic Research, project number 19-31-27001 (2019 – 2021) * EcoMetEoR travel award for iDiv Summer School (2019) * ERASMUS scholarship for Radboud Summer School (2019) * Student’s State Academic Scholarship for special achievements (2012, 2013, 2014, 2015, 2016)   **PRESENTATIONS** |
| * “Application of HPLC-MS and PARAFAC method for discrimination of samples of plant materials”, Mass spectrometry and applied problems, Moscow, Russia, 2019 * “New methods of treatment of data arrays from mass spectrometric analysis of plant extracts”, III All-Russian Conference on Analytical Spectroscopy with International Participation, Krasnodar, Russia, 2019 * “Development of new approaches for determination and identification of components from plant materials using HPLC-MS”, 48th International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy, 2019. * “Application of the HPLC-MS/MS method for the simultaneous determination of flavonoid aglycones and their glycosides in plant extracts”, V All-Russian Symposium with international participation "Separation and Concentration in Analytical Chemistry and Radiochemistry", Krasnodar, Russia, 2018. * “New approaches for the group identification and determination of saponins in medical plants and products”, Third congress of Russian Analytics, Russia, Moscow, 2017. * “About possibility of relative correction factors usage for the ginsenosides determination by HPLC-MS method”, VII scientific conference of young scientists: "Innovations in chemistry", Moscow, Russia, 2017. * “Application of QAMS method for the HPLC-MS determination of diosgenin, dioscin and protodioscin in plant extracts of Tribulus terrestris”, International Scientific Lomonosov Conference, Moscow, Russia, 2017. * “Application of the method of quantitative analysis of a multicomponent system for the determination of ginsenosides”, The Fifth All-Russian Symposium with international participation: Kinetics and dynamics of metabolic processes. The role of Separation Science in the development of breakthrough directions of modern science (nanochemistry and biomedicine), Moscow, Russia, 2016. * “HPLC-MS Method Development for Multi-component Determination of Less Polar Ginsenosides in Urine”, Mass-spectrometry: Application to the Clinical Lab, Salzburg, Austria, 2016   **TEACHING EXPERIENCE** |
| **Lomonosov Moscow State University (2018 – 2019)**  *Teaching assistant*   * Course of analytical chemistry for students from Biology Department * Seminars, laboratory classes and student’s assessment   **PROFESSIONAL EXPERIENCE** |
| **Chromsystemslab (Jan. 2019 – present)**  *Analytical Chemist*   * Development, validation and optimization of HPLC-MS analytical techniques for determination of target compounds (hormones, vitamins, etc.) in blood and urine * Day-to-day and routine analysis of fat and water soluble vitamins, amino acids, hormones, etc. in urine, blood, plasma, serum, saliva by HPLC-MS, completed in an effective and timely manner   **Janssen (Johnson & Johnson) (2017 – 2018)**  *Regulatory affairs Professional*   * Products registration in accordance with EAEU legislation * Support of GMP inspections in Europe * Product life cycle management projects (RLC remediation, updated module 3, normative documents review and correction, ePackMat activities) * Regulatory support in Moldova   **Avis Rus (Pharma) (2016 – 2017)**  *Regulatory Affairs Manager*   * Initiated and developed normative documents for several medical products * Full registration cycle in accordance with CTD dossier format with successful implementation of more than 5 drugs * Clients support in quality assessment during certification stages   **Sanofi S. A. (2014 – 2016)**  *Medical department trainee*   * Responsible for full registration cycle and for launching of 5 new pharmaceutical products in a foreign market (Mongolia) * Technical support of registered products database in Russia and Mongolia   **LANGUAGES** |
| *English*: Advanced (TOEFL IBT (Aug. 2018) – 84; IELTS Academic (Nov. 2019) – 7.0)  *Russian*: Native  **TECHNICAL SKILLS** |
| Python, Matlab, R, Microsoft Office, Outlook, AspenONE, ACD labs, Origin, Chem Draw, Lab Solutions, Analyst, SCIEX OS, XCMS, MetaboAnalyst  **REFERENCES** |
| **Stavrianidi Andrey, Assoc. Prof., Ph.D.**  Lomonosov Moscow State University, Chemistry Department  +7-903-149-26-57  [stavrianidi.andrey@gmail.com](mailto:stavrianidi.andrey@gmail.com) |