JARMILA STANKOVÁ

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16 Personalities

ENTP-A Debater / ENFP-A Campaigner

Talent compass:
Performance – Ability to develop others
Reliability – Responsibility
Sense for purpose – Growth initiation
Insight – Empathy
Strategic and Foresight thinking

BIO

I am a research assistant and postdoc at the Institute of Molecular and Translational Medicine, Faculty of Medicine, UP. I finished my master's studies at the Faculty of Science, Palacky University in Olomouc in 2016, since then I have been working on the research program chemical biology and experimental therapeutics at the IMTM. I mainly focus on new methods for identifying molecular targets, such as microscopic and proteomic methods. In 2020, I became part of the multi-omics group, where I work on proteomic profiling of plasma samples within the EATRIS-Plus project of the international EATRIS consortium. As part of this, I participated in the preparation of the multi-omics toolbox (https://motbx.eatris.eu/), which serves scientists from the field of translational medicine. I am a former rugby 7s player (hooker) and lover of all sports.

WORK EXPERIENCE

ASSISTENT | INSTITUTE OF MOLECULAR AND TRANSLATION MEDICINENY |2016–NOW

Cell analysis: fluorescence confocal microscopy, live cell imaging, flow cytometry

Proteomics: HPLC-MS, proteomic profiling, SILAC analysis, thermophoresis

Data analysis: Columbus, ImageJ, Proteome Discoverer, MaxQuant, Skyline, Spectronaut, Perseus

Lab managment: preparation of SOPs and public tenders, operation of instrumentation (RM and PM)

Teaching: undergraduate and graduate students

Presentation and organizational skills and experience working in an international team

LAB TECHNICIAN | FACULTY HOSPITAL OLOMOUC |2020–2022

Covid-19 diagnostics, PCR testing, BSL 2-3 Safety Workflow

JARMILA STANKOVÁ

EDUCATION

PHD DEGREE • 2024 • FACULTY OF MEDICINE AND DENTISTRY UPOL
Localization and identification of molecular targets of biologically active substances using microscopic methods

MSC DEGREE • 2016 • FACULTY OF SCIENCE UPOL
Proteomic profile of CCRF-CEM cell line treated by 5-fluorouracil

SUPERVISION

ELIŠKA KŘESŤANOVÁ • DEFENSE JUNE 2024
MSC thesis - Development of a DIA method suitable for proteomic analysis of plasma and a large cohort of samples

ELIŠKA HLADÍKOVÁ • 2020
BC thesis - Use of lentiviral reporter systems for fluorescence visualization of subcellular structures

KATEŘINA JEČMEŇOVÁ • 2018
BC thesis - Chemical-physical characteristics of approved drugs and their use in the identification of their molecular targets

THE DEAN'S AWARD

Award for significant publishing activity, QD publication (2023)
Aeard for student scientific work (2021)

TRAINING

DIA DATA ANALYSIS WORKSHOP • PROTEOMICKÁ SEKCE ČSBMB • BRNO • 2022
Responsible person – Pavel Bouchal, Training subject – Data-independent acquisition (DIA) methods, dia PASEF data, DIA data analysis in the program Spectronaut, Skyline and DIA-NN

YOKOGAWA USER MEETING • 2018 • 2019
Responsible Person - David Lorenz, Training subject - CV7000 and CV8000

ADVANCED PRACTICAL PROTEOMICS • EUROPEAN PROTEOMICS ASSOCIATION • VIENNA, AUSTRIA • 2018
Responsible Person - Karl Mechtler, Training subject - Quantification of TMT, Cross-linking (XL-MS), Targeted Proteomics PRM, Proteomic Bioinformatics

CHEMICAL PROTEOMICS • SCIENCE FOR LIFE LABORATORY, KAROLINSKA INSTITUTET • STOCKHOLM, SWEDEN • 2017
Responsible Person - Massimiliano Gaetani and Roman Zubarev, Training Subject - Thermal Proteome Profiling (TPP), Functional Target Identification Using Expression Proteomics (FITExP), Elucidation of the Interaction Interface and Mapping of the Binding Site of a Drug with Its Target Protein Using Hydrogen/Deuterium (H/D) exchange mass spectrometry (HDX MS)

PUBLIKACE

(9) **J. STANKOVÁ**, M. HAJDÚCH, M. JURÁŠEK, P. DŽUBÁK, TERPENES AND TERPENOIDS CONJUGATED WITH BODIPYS: AN OVERVIEW OF BIOLOGICAL AND CHEMICAL PROPERTIES. JOURNAL OF NATURAL PRODUCTS IF: **5.051** – ACCEPTED MANUSCRIPT

(8) **J. STANKOVÁ**, M. HAJDÚCH, P. DŽUBÁK, IDENTIFIKACE BUNĚČNÝCH CÍLŮ AKTIVNÍCH LÁTEK POMOCÍ MIKROSKOPICKÝCH METOD A FLUORESCENČNÍCH SOND. CHEMICKÉ LISTY **IF: 0.595** – ACCEPTED MANUSCRIPT

(7) D. BARUCIC*, S. KAUSHIK, J. KYBIC, J. **STANKOVÁ**, P. DŽUBÁK, M. HAJDÚCH, CHARACTERIZATION OF DRUG EFFECTS ON CELL CULTURES FROM PHASE-CONTRAST MICROSCOPY IMAGES, COMPUTERS IN BIOLOGY AND MEDICINE, 2022, 151, 106171, 0010-4825, **IF: 6.698**, PMID: 36306582.

(6) D. KODR*, **J. STANKOVÁ***, M. RUMLOVA, P. DŽUBÁK, J. ŘEHULKA, T. ZIMMERMANN, I. KRIZOVA, S. GURSKÁ, M. HAJDÚCH, P. DRAŠAR, M. JURÁŠEK, BETULINIC ACID DECORATED WITH POLAR GROUPS AND BLUE EMITTING BODIPY DYE: SYNTHESIS, CYTOTOXICITY, CELL-CYCLE ANALYSIS AND ANTI-HIV PROFILING, BIOMEDICINES, 2021, 9, 1104, 2227-9059**, IF: 6.081**, PMID: 34572290.

(5) M. PORUBSKÝ*, K. VYCHODILOVÁ, D. MILICEVIC, M. BUDESINKY, **J. STANKOVÁ**, P. DŽUBÁK, M. HAJDÚCH, J. HLAVÁČ, CYTOTOXICITY OF AMINO-BODIPY MODULATED VIA CONJUGATION WITH 2-PHENYL-3-HYDROXY-4(1H)-QUINOLINONES, CHEMISTRYOPEN, 2021, 10, 1104-1110, 2191-1363, **IF: 2.911**, PMID: 34427046.

(4) M. PORUBSKÝ*, S. GURSKÁ, **J. STANKOVÁ**, M. HAJDÚCH, P. DŽUBÁK, J. HLAVÁČ, AMINOBODIPY CONJUGATES FOR TARGETED DRUG DELIVERY SYSTEMS AND REAL-TIME MONITORING OF DRUG RELEASE, MOLECULAR PHARMACEUTICS, 2021, 18, 2385-2396, 1543-8384, **IF: 3.500**, PMID: 33961440.

(3) M. PORUBSKÝ*, S. GURSKÁ, **J. STANKOVÁ**, M. HAJDÚCH, P. DŽUBÁK, J. HLAVÁČ, AMINO-BODIPY AS THE RATIOMETRIC FLUORESCENT SENSOR FOR MONITORING DRUG RELEASE OR "POWER SUPPLY" SELECTOR FOR MOLECULAR ELECTRONICS, RSC ADVANCES, 2019, 9, 25075-25083, 2046-2069, **IF: 3.119**, PMID: 35528670

(2) S. KRAJČOVIČOVÁ*, **J. STANKOVÁ**, P. DŽUBÁK, M. HAJDÚCH, M. SOURAL, M. URBAN, A SYNTHETIC APPROACH FOR THE RAPID PREPARATION OF BODIPY CONJUGATES AND THEIR USE IN IMAGING OF CELLULAR DRUG UPTAKE AND DISTRIBUTION, CHEMISTRY- A EUROPEAN JOURNAL, 2018, 24, 4957-4966, 0947-6539, **IF: 5.317**, PMID: 29411907.

(1) T. OŽDIAN*, D. HOLUB, Z. MACEČKOVÁ, L. VARANASI, G. RYLOVÁ, J. ŘEHULKA, J. VÁCLAVKOVÁ, H. SLAVÍK, P. MOUDRÝ, P. ZNOJEK, **J. STANKOVÁ**, J. DE SANCTIS, M. HAJDÚCH, P. DŽUBÁK, PROTEOMIC PROFILING REVEALS DNA DAMAGE, NUCLEOLAR AND RIBOSOMAL STRESS ARE THE MAIN RESPONSES TO OXALIPLATIN TREATMENT IN CANCER CELLS, JOURNAL OF PROTEOMICS, 2017, 162, 73-85, 1874-3919, **IF: 3.867**, PMID: 28478306.

BOOK CHAPTERS

J. STANKOVÁ REPORTERS FOR SUBCELLULAR LOCALIZATION AND IMAGE ANALYSIS V KNIZE: AGRAWAL K, BOUCHAL J, DAS V, DRÁBEK J, DŽUBÁK P, HAJDÚCH M, KOBERNA K, LIGASOVÁ A, MISTRÍK

M, SANCTIS JBD, SROVNAL J LABORATORY TECHNIQUES IN CELLULAR AND MOLECULAR MEDICINE, 1ST EDITION, PALACKÝ UNIVERSITY OLOMOUC, 2021, ISBN 978-80-244-6049-9

PARTICIPATION ON SELECTED CONFERENCES

(7) **STANKOVÁ J.**; HAJDÚCH M. MULTIOMICKÁ STUDIE. OPEN SCIENCE WEEK 2023 – **OLOMOUC, CZECH REPUBLIC**. 16. 10. – 20. 10. 2023

(6) **STANKOVÁ J**.; BARUČIĆ D.; KYBIC J.; DŽUBÁK P.; HAJDÚCH M. THE DRUGS‘ MECHANISM OF ACTION IDENTIFICATION WITH HTS BASED ON DIGITAL-PHASE CONTRAST IMAGES ANALYZED BY DEEP LEARNING METHOD. SLAS2023 INTERNATIONAL CONFERENCE AND EXHIBITION. **SAN DIEGO, USA**. 25. 2. – 1. 3. 2023

(5) **STANKOVÁ J**.; BARUČIĆ D.; KYBIC J.; DŽUBÁK P.; HAJDÚCH M. VYUŽITÍ MIKROSKOPIE FÁZOVÉHO KONTRASTU K IDENTIFIKACI MECHANISMU ÚČINKU LÁTEK. INTERDISCIPLINÁRNÍ DOKTORANDSKÁ KONFERENCE. **OLOMOUC, CZECH REPUBLIC**. 24. – 25. 11. 2022

(4) **STANKOVÁ J.**; BARUČIĆ D.; KYBIC J.; DŽUBÁK P.; HAJDÚCH M. THE DRUGS' MECHANISM OF ACTION IDENTIFICATION BASED ON DIGITAL-PHASE CONTRAST IMAGES ANALYZED BY AI. CZECH ANNUAL CANCER RESEARCH MEETING. **OLOMOUC, CZECH REPUBLIC**. 1. – 2. 12. 2022

(3) **STANKOVÁ J.**; VRBKOVÁ J.; HOLUB D.; DŽUBÁK P.; HAJDÚCH M. CZECH MULTI-OMICS COHORT FROM A PROTEOMICS PERSPECTIVE. IMTM REACTOR: 6TH ANNUAL IMTM RETREAT. **VELKÉ KARLOVICE, CZECH REPUBLIC**. 3. – 5. 10. 2022

(2) **STANKOVÁ J.**; KODR D.; RUMLOVÁ M.; DŽUBÁK P.; ŘEHULKA J.; ZIMMERMANN T.; KŘÍŽOVÁ I.; GURSKÁ S.; HAJDÚCH M.; DRAŠAR P. B..; JURÁŠEK M. BIOLOGICAL PROPERTIES OF BETULINIC ACID ANALOGUES WITH POLAR GROUPS AND BODIPY DYE. OL4PERMED. **OLOMOUC, CZECH REPUBLIC**. 25. – 27. 11. 2021

(1) **STANKOVÁ J.**; MEDVEDÍKOVA M.; ŠÁREK J.; VLK M.; URBAN M.; HAJDÚCH M.; DŽUBÁK P. MITOCHONDRIAL PROTEIN CYTOCHROME C AS A MOLECULAR TARGET OF NEW BETUNILIC ACID DERIVATE JS8 (3B,28-DIACETOXY-18-OXO-19,20,21,29,30-PENTANORLUPAN-22-OIC ACID). EUPA SCHOOL OF ADVANCED PRACTICAL PROTEOMICS. **VIENNA, AUSTRIA**. 15. – 20. 7. 2018