

# Program and lectures

## Sunday, April 29, 2012

12:00 – 20:00 Registration

17:00 – 17:15 Welcome

17:15 – 18:00 **František Tureček, Zdeněk Spáčil, Michael H. Gelb, C. Ronald Scott**  
Massive Multiplexing of Tandem Mass Spectrometry Assays for the Early  
Detection of Lysosomal Storage Disorders by Newborn Screening (S1)

18:00 – 22:00 **Informal get together**

## Monday, April 30, 2012

08:00 – 12:30 Registration

Chairman: **František Tureček**

09:00 – 09:30 **Marlene Havlik, Jessica Bereszczak, Victor Weiss, Martina Marchetti-  
Deschmann, Dieter Blaas, Matt Kennedy, Albert Heck,  
Wladyslaw Szymanski, Guenter Allmaier**  
Nano ESI combined with a differential mobility or with a QqRTOF analyzer  
for sizing/molecular weight determination of virus-like-particles and human  
common cold virus (M1)

09:30 – 09:50 **Mark A. McDowall, Jonathan Williams, Kevin Giles**  
Traveling-Wave Stacked Ring Ion Guides for Electron Transfer Dissociation  
and Ion Mobility Separations (M2)

09:50 – 10:10 **Pascal Gerboux, Vincent Lemaur, Glenn Carroy, Jérôme Cornil**  
Experimental and theoretical investigation of the non covalent interactions  
between a ditopic cucurbituril host and several protonated guests:  
demonstration of the (homotropic) allosteric control on the complexation  
reaction (M3)

10:10 – 10:30 **Marc von Gernler, Rolf Kirschbaum, Thomas Drewello**  
Formation and fragmentation of sodiated amino acid cluster ions in the gas  
phase (M4)

10:30-11:00 **Coffee break**

Chairman: **Kevin Schug**

11:00 – 11:30 **Laura Molin, Roberta Seraglia, Zbigniew Czarnocki, Jan K. Maurin, Franciszek A. Pluciński, Pietro Traldi**  
On the primary ionization mechanism(s) in matrix assisted laser desorption ionization (M5)

11:30 – 11:50 **Marek Smoluch, Edward Reszke, Andrzej Ramsza, Grzegorz Schroeder, Jerzy Silberring**  
Flowing Atmospheric Pressure Afterglow (FAPA) plasma ion source for direct analysis of drugs of abuse (M6)

11:50 – 12:10 **Andreas Wiesner**  
Recently published Liquid Extraction Surface Analysis (LESA) studies (M7)

12:10 – 12:30 **Katarzyna Lech, Katarzyna Witkoś, Maciej Jarosz**  
ESI MS/MS spectra - a key to identification of photodegraded anthraquinones (M8)

12:30 – 14:00 **Lunch**

14:00 – 16:00 **Poster session I and Coffee break**  
**Odd-numbered posters**

Chairman: **Károly Vékey**

16:00 – 16:30 **Detlef Schröder**  
Golden moves: Ion mobility studies of mono- and oligonuclear gold(I) complexes (M9)

16:30 – 16:50 **Jing Li, Wei Wei, Leanne C. Nye, Peter S. Schulz, Peter Wasserscheid, Ivana Ivanović-Burmazović, Thomas Drewello**  
Zwitterionic clusters with dianion core produced by electrospray ionisation of Brønsted acidic ionic liquids (M10)

16:50 – 17:10 **Marc S. von Gernler, Thomas Drewello, Hartmut Hungerbühler**  
Coulomb explosion of doubly charged fullerene-ester alkali aggregates (M11)

17:10 – 17:30 **Jana Roithová**  
Infrared multiphoton dissociation spectroscopy in organometallics (M12)

17:45 – 18:45 **Concert at Faculty Auditorium**

**Tuesday, May 1, 2012**

Chairman: **Marek Šebela**

09:00 – 09:30 **Oliver Ozohanics, Lilla Turiák, Anita Jekő, Angel Puerta, Mercedes de Frutos, Károly Vékey, László Drahos**  
Glycosylation markers for atherosclerosis (T1)

09:30 – 09:50 **Giuseppe Grasso, Francesco Bellia, Adriana Pietropaolo, Giuseppe Spoto, Enrico Rizzarelli**  
The role of metalloproteases in Alzheimer's Disease: recent findings (T2)

09:50 – 10:10 **Fan Chen, Kaspar Locher, Renato Zenobi**  
Integral Membrane Proteins by High-mass MALDI-MS: Direct Access to the Stoichiometry of their Complexes and to Posttranslational Modifications (T3)

10:10 – 10:30 **Marcus Macht, Arnd Ingendoh, Arndt Asperger, Andrea Kiehne, Detlev Suckau, Michael Becker, Peter Hufnagel**  
Proteomics through integrated MALDI and ESI (T4)

10:30 – 11:00 **Coffee break**

11:00 – 11:45 **Roman Zubarev**  
Proteomics study of Alzheimer's disease mechanism (T5)

11:45 – 13:00 **Lunch**

13:00 – 15:00 **Poster session II and Coffee break**  
**Even-numbered posters**

15:00 **Departure to historical Fort XVII in Křelov**

15:30 – 22:00 **Visit of Fort XVII in Křelov (guided tour, informal discussions and social dinner)**

**Wednesday, May 2, 2012**

Chairman: **Pietro Traldi**

09:00 – 09:30 **Kevin A. Schug, Jaroslaw Krzywinski, Seoung Bum Kim, Sheheli Islam, Estrella Suarez, Carlos A. Serrano, Sandra E. Spencer**  
Fingerprinting Complex Mixtures by MALDI-TOF-MS: Forensic and Biological Applications (W1)

09:30 – 09:50 **Ernst Pittenauer, Omar Belgacem, Akihiko Kusai, Pavel Rehulka, Guenter Allmaier**  
Recent instrumental advances in the structural analysis of glycerolipids (TAGs and GPLs) by 20 keV high-energy CID – from MALDI-LinTOF/Curved field RTOF-MS to MALDI-Spiral TOF/Offset parabolic RTOF-MS (W2)

09:50 – 10:10 **Gabor Maasz, Janos Schmidt, Zsolt Pirger, Laszlo Mark**  
Single cell imaging by MALDI-TOF-MS (W3)

10:10 – 10:30 **Volker Krufft, Joerg Dojahn, Christie Hunter**  
Creating a digital image of any sample in the MS<sup>2</sup> space: the SWATH acquisition workflow on the AB SCIEX TripleTOF™ 5600 (W4)

10:30 – 11:00 **Coffee break**

Chairman: **Detlef Schroeder**

11:00 – 11:30 **Johan K. Terlouw, Karl J. Jobst**  
The gas-phase ion chemistry of ionized methyl carbamate and its isomers revisited: theory and experiment in concert (W5)

11:30 – 11:50 **László Drahos, Károly Vékey**  
Fragmentation of sodium formate cluster ions (W6)

11:50 – 12:10 **Claudia Dammann, Giovanni Bottari, Tomas Torres, Thomas Drewello**  
Charge-remote fragmentation (CRF) with C<sub>60</sub> as spacer (W7)

12:10 – 12:30 **Peter C. Burgers, Paul J.A. Ruttink**  
Tracing hydride ion transfer reactions in metal ion complex ions (W8)

12:30 – 14:00 **Lunch**

Chairman: **Vladimír Havlíček**

14:00 – 14:30 **Michal Holčapek, Eva Cífková, Miroslav Lísa, Blanka Červená, Joanna Znaleziona, Jitka Vostálová, Jan Galuszka**  
Comprehensive LC/MS approach for non-targeted lipidomic clinical studies (W9)

- 14:30 – 14:50 **Paola Donato, Francesco Cacciola, Paola Dugo, Luigi Mondello**  
Mass spectrometry detection in comprehensive two-dimensional liquid chromatography: instrumentation, software, and selected applications (W10)
- 14:50 – 15:10 **Cristian Peptu, Valeria Harabagiu, Bogdan C. Simionescu, Marek Kowalczyk**  
LC/MS/MS characterization of linear and branched azofunctional oligoesters (W11)
- 15:10 – 15:30 **Michaela Scigelova, Jennifer Sutton, Michael Athanas**  
LC/MS Data Processing with SIEVE: red wine, orange juice, and more (W12)
- 15:30-16:00 **Coffee break**
- Chairman: **Karel Lemr**
- 16:00 – 16:20 **Marie Zábranská, Vladimír Vrkoslav, Josef Cvačka**  
Characterization of plant glycolipids using a linear ion trap-orbitrap hybrid mass spectrometer (W13)
- 16:20 – 16:40 **Oliver Ozohanics, Lilla Turiák, Eszter Tóth, László Drahos, Károly Vékey**  
Influence of glycan structure on chromatographic separation (W14)
- 16:40 – 17:00 **Karl J. Jobst, Li Shen, Paul Helm, Vince Y. Taguchi and Eric J. Reiner**  
Non-targeted analysis of mixed halogenated organic contaminants in the environment using GC/FT-ICR mass spectrometry (W15)
- 17:00 – 17:20 **Lena Ruzik, Elżbieta Lipiec, Maciej Jarosz, Katarzyna Pawlak**  
What egg shell is covering? – Cobalt and iodine speciation by ICP/ESI MS (W16)
- 17:20 **Closing remarks**

**Thursday, May 3, 2012**

All-day trip

## LIST OF POSTERS

All posters should be set up on Monday before Poster session I and remove on Wednesday after lunch.

Authors of odd-numbered posters present on Monday, even-numbered posters on Tuesday.

- P1** Beyda Tasci, Ali Koc, Ayhan Ziba, Mustafa Dolaz  
Synthesis and characterization of new Schiff bases containing diethyl phosphate
- P2** Mustafa Cesme, Harun Muslu and Aysegul Golcu  
Analyzing Some Piroxicam-Metal Complexes by Mass Spectroscopy
- P3** Anna Bodzon-Kulakowska, Magdalena Skalska, Tomasz Cichon, Piotr Suder, Grzegorz Schroeder, Roman Pedrys, Jerzy Silberring  
Preparation of astrocyte primary cell culture for TOF-SIMS analysis
- P4** Aysegul Golcu, Mehmet Tumer  
Synthesis of Novel Polymer-Anchored Schiff Base Ligands and Their Metal Complexes: Catalytic Oxidation of Cyclohexane and Cyclooctane under Microwave Power
- P5** Pedro Caetano Alves, Paulo J. Amorim Madeira, Maria Helena Florêncio  
The influence of different processing methods on the TAG profile of Oils by LC-MS<sup>n</sup>
- P6** Anton Škríba, Jana Roithová  
Mass Spectrometric Investigation of Ruthenium Catalysed Reactions
- P7** Mario Cindrić, Ana Butorac, Ivana Dodig, Višnja Baćun Družina, Aryee Tishbee, Janko Diminić  
Species biotyzation, why *de novo* sequencing always wins?
- P8** Pramod Kumar, Jana Roithova  
Mass spectral studies of copper and silver complexes with a pyridine dicarboxamide ligand
- P9** Barbora Papoušková, Petr Bednář, Petr Barták, Martina Kadalová, Karel Lemr  
Development of a UPLC-ESI-MS/MS method for the fast analysis of phytochelatins in *Avena nuda L.*

- P10** Michał Ceglowski, Grzegorz Schroeder  
Matrices for MALDI mass spectrometry based on covalently functionalized carbon nanotubes
- P11** Raquel Santos, Micaela M. Sousa, Jessica Hallett, M. Conceição Oliveira  
Characterization of Lac-Dyes by HPLC-DAD-ESI/MS<sup>n</sup>
- P12** Emoke D. Kovacs, Arpad L. Imre, Codruta Cobzac, Dumitru Ristoiu, Melinda H. Kovacs  
Mass spectrometric characterization of aroma value behavior in *Cantharellus cibarius* at different evolution stage
- P13** Derya Tarinc, Duygu Polat, Aysegul Golcu  
Electrospray Ionization Mass Spectrometric Study on the Coordination Behavior of Cefotaxime Sodium Towards Transition Metal Ions
- P14** Eleana Hori, Andreea Iordache, Monica Culea  
PKU monitoring by isotope dilution GC-MS
- P15** Eszter Tóth, Oliver Ozohanics, Ágnes Gömöry, Lilla Turiák, Balázs Bobály, Kálmán Újszászy, László Drahos, Károly Vékey  
RP-HPLC fractionation method of human plasma glycoproteins
- P16** Floriana Moiseenco, Simona Oancea, Pietro Traldi  
A Comparative Analysis of Anthocyanin Profile of Wild and Cultivated Blueberries Investigated by UV-Vis Spectroscopy and ESI-MS
- P17** Ivo Fabrik, Marek Link, Anetta Härtlová, Pavel Řehulka, Adéla Strašková, Jiří Stulík  
Stable isotope labeling by amino acids in cell culture (SILAC) of murine primary bone-marrow derived dendritic cells
- P18** Grażyna Bartkowiak, Grzegorz Schroeder  
Interaction of formylphenylboronic acids hydrazones with diols and sugars as studied by means of MALDI mass spectrometry

- P19** Grzegorz Spólnik, Magdalena Kania, Adam Sobczak, Leszek Lipiński, Andrzej Dziembowski and Witold Danikiewicz  
HPLC-MS/MS qualitative and quantitative analysis of pesticides in soil samples
- P20** Hana Vlčková, Veronika Pilařová, Pavel Svoboda, Lucie Nováková, Petr Solich  
Comparison of manual and semiautomatic approaches of MEPS sample preparation technique in UHPLC-MS/MS methods for determination of statins in biological samples
- P21** Melinda Haydee Kovacs, Zaharie Moldovan, Dumitru Ristoiu, Emoke Dalma Kovacs  
Ecotoxicological assessment of home grown foodstuffs with GC-qMS for inhabitants' dietary exposure estimation
- P22** Ilena Isak, Andrea Duranti, Marco Mor, Daniele Pomelli, Giorgio Tarzia, Pietro Traldi  
Correlation between energetics of collisionally activated decomposition, interaction energy and biological stability of some N-Acylethanolamine acid amidase inhibitors
- P23** Andreea Iordache, Geana Irina, Roxana Elena Ionete, Adrian Marinescu, Aurora Ranca, Monica Culea  
ICP-MS multi-element analysis of certain Romanian wines and their provenance soils for geographical origin determination
- P24** Hana Janečková, Karel Hron, Petr Wojtowicz, Anders Brunsvik, Elon Correa, Andrew Vaughan, David Friedecký, Per Bruheim, Royston Goodacre, Tomáš Adam  
Untargeted metabolomic analysis of urine samples for diagnosing inherited metabolic disorders
- P25** Janina Witowska-Jarosz, Anna Chyla, Aleksander Paweł Mazurek  
LC/MS studies of medicines
- P26** Štěpánka Janková, Lucie Jašíková, Jana Roithová  
Mechanistic Study of Gold-Catalyzed Addition of Methanol to Alkynes
- P27** Monika Jarošová, David Milde  
Comparison of Inductively Coupled Plasma Mass Spectroscopy and Atomic Absorption Spectrometry – Elemental Analysis of Coffee



- P28** Anita Jekő, Eszter Tóth, Oliver Ozohanics, László Drahos, Károly Vékey  
Which trypsin: Is it important for protein digestion?
- P29** Julien De Winter, Olivier Coulembier, Philippe Dubois, Pascal Gerbaux  
Mass Spectrometry study of thermo-degradable polymers: investigation by single stage and tandem mass spectrometry
- P30** Kateřina Mičová, David Friedecký, Edgar Faber, Tomáš Adam  
Isotope dilution direct injection mass spectrometry for therapeutic drug monitoring in clinical laboratories
- P31** Luisa Mattoli, Michela Burico, Anna Gaetano, Roberta Seraglia, Laura Molin, Pietro Traldi  
MALDI mass spectrometry in the characterization of phytochemical products
- P32** Lukáš Najdekr, David Friedecký, Helen Podmore, Gary Woffendin, Tomáš Adam  
New phospholipid biomarkers of medium chain acylcarnitine dehydrogenase deficiency identified by Orbitrap and quadrupole mass spectrometry
- P33** Anna Bodzon-Kulakowska, Magdalena Skalska, Piotr Suder, Sławomir Kac, Grzegorz Schroeder, Roman Pedrys, Jerzy Silberring  
Cholesterol and vitamin E analysis in prefrontal cortex of morphine-addicted rat brain using TOF-SIMS
- P34** Magdalena Kania, Adam Jozwiak, Magdalena Ples, Aneta Baczewska, Wojciech Dmuchowski, Ewa Swiezewska and Witold Danikiewicz  
LC-MS analysis of polyisoprenoid alcohols and their esters in natural samples
- P35** Magdalena Zimnicka, Magdalena Ceborska, Mariusz Pietrzak, Anna Troć, Małgorzata Koźbiał, Janusz Lipkowski  
Mass spectrometry studies of structural diversity in cyclodextrins/folic acid complexes – from [2]-rotaxane to exclusion compound
- P36** Marcela Župková, Kateřina Mičová, Iveta Fikarová, Michaela Galoczová, Hana Janečková, David Friedecký, Tomáš Adam  
Targeted metabolomic analysis of leukocytes from patients with Chronic Myeloid Leukemia

- P37** M. Demeyer, P. Flammang, P. Gerbaux  
Mass spectrometry investigation of structure/ biological activity relationships of saponins in the seastar *Asterias rubens*
- P38** Eva Marková, Petra Nováková, Hana Švecová, Jana Skopalová, Petr Barták  
Anodic oxidation of 2,4,6-tribromophenol and its products
- P39** Michela Begala  
Conversion of benzoic acid into phenol under CI conditions: investigation of the reactant species
- P40** Kateřina Haladová, Hynek Mrázek, Tomáš Ječmen, Petr Halada, Petr Man, Petr Novák, Josef Chmelík, Miroslav Šulc  
The Combination of Hydrogen/Deuterium Exchange or Chemical Cross-linking Techniques with Mass Spectrometry: Mapping of Human 14-3-3 $\zeta$  Homodimer Interface
- P41** Marina Kosevich, Vitaliy Chagovets, Stepan Stepanian, Viktor Karachevtsev  
Prediction of methylene blue-carbon nanotubes nanocomposite structure on the base of laser desorption/ionization data
- P42** Nikolaos Stavros Koulakiotis, Maria Halabalaki, Evangelos Gikas, Alexios Leandros Skaltsounis, Anthony Tsarbopoulos  
A high-throughput UHPLC-Orbitrap-HRMS<sup>n</sup> method for the identification and structural elucidation of carotenoid glucosides (crocins) from *Crocus sativus* L.
- P43** Tomáš Oždian, Dušan Holub, Petr Džubák, Gabriela Rylová, Madhusudhan Kollareddy, Jiří Řehulka, Rolf Čábelka, Dana Cahová, Vladimír Havlíček, Marián Hajdúch  
Comparison of proteomic profiles of cisplatin, carboplatin, oxaliplatin, daunorubicin and vincristin treated CEM cell line
- P44** Pentti Oksman, Päivi Joensuu, Susanna Pohjanen, Péter Csomós, Lajos Fodor  
MS studies of several new 4*H*-1,3 benzothiazines,  $\beta$ -lactam condensed 1,3-benzothiazines and 1,4-benzothiazepine derivatives
- P45** Petra Nováková, Hana Švecová, Eva Marková, Jana Skopalová, Petr Bednář, Petr Barták  
Derivatization and GC/MS analysis of resveratrol in wine

- P46** Petr Fryčák, Vítězslav Branda, Karel Lemr  
Analysis of some polyphenolic compounds in broccoli using UHPLC/MS
- P47** Petr Kačer, Kamila Syslová, Adéla Pankráčová, Marek Kuzma  
HPLC-MS/MS Method for Monitoring of Neurotransmitters and Their Metabolites in Brain Tissue and Brain Microdialysates
- P48** Przemyslaw Mielczarek, Magdalena Skalska, Piotr Suder, Roman Pedrys, Grzegorz Schroeder, Jerzy Silberring  
SIMS vs DESI analysis of electrochemical products of Amodiaquine oxidation on TLC plate
- P49** Ana Rita Gomes, Paulo J. Amorim Madeira, M. Tereza Fernandez, Nuno Galamba, Benedito J. C. Cabral, João Paulo Leal  
The gas-phase acidity of trolox and caffeic acid: experiment vs. theory
- P50** Robert Jirásko, Tomáš Mikysek, Veronika Jedličková, Michal Holčapek  
Electrochemical Generation and UHPLC/MS/MS Identification of Atorvastatin Oxidative Metabolites
- P51** Roberta Seraglia, Luisa Mattoli, Anna Maidecchi, and Pietro Traldi  
Protein profiling of royal jelly by MALDI mass spectrometry
- P52** Simona C. Nicoara, David E. Minnikin, Oona Y.-C. Lee, Denise M. O'Sullivan, Ruth McNerney, Collin T. Pillinger, Ian Wright, Geraint H. Morgan  
Development and optimization of a gas chromatography-mass spectrometry method for the detection of phthiocerol dimycocerosates extracted from *Mycobacterium tuberculosis*
- P53** K. Škrášková, L. Santos, M. Montenegro, L. Nováková, D. Šatínský, P. Solich  
Development of methodology for determination of tetracyclines in environmental waters using tandem mass spectrometry coupled with UHPLC and using mixed-mode stationary phase
- P54** Kristína Slováková, Dominic Roberts, Karel Lemr  
Characterization of technical samples of poly(acrylic acid) using mass spectrometry and ion mobility

- P55** **Thomas Josse, Julien De Winter, Philippe Dubois, Olivier Coulembier, Pascal Gerbaux**  
Synthesis and Characterization of Cyclic Poly lactides as Obtained by Huisgen Cycloaddition of End-Functionalized Poly lactide Chains
- P56** **Tiago Filipe Jorge, Paulo J. Amorim Madeira, Maria Helena Florêncio**  
Identification of compounds in grape extracts by electrospray mass spectrometry: the search for resveratrol
- P57** **Tomáš Ječmen, Monika Koberová, Petr Novák, Petr Hodek, Miroslav Šulc**  
Characterization of cytochrome P450 2B4 and cytochrome b<sub>5</sub> mutual orientation by photoactivable nanoprobe and mass spectrometry
- P58** **Veronika Jedličková, Robert Jirásko, Ivan Vokřál, Lenka Skálová, Michal Holčapek**  
Identification of biotransformation products of ivermectin using UHPLC/MS/MS
- P59** **Vlada Pashynska, Marina Kosevich, Olga Vashchenko, Longin Lisetski, Agnes Gomory, Karoly Vekey**  
Mass spectrometry as an efficient method of revealing the membranotropic antimicrobial drugs activity modulation by organic acids
- P60** **Volodymyr Pauk, Barbora Papoušková, Petr Sulovský, Karel Lemr**  
Identification of historical pigments Prussian blue and Indigo by FIA/ESI-MS
- P61** **Vladimír Vrkoslav, Miroslav Lísa, Josef Cvačka**  
Silver-ion HPLC/APCI-MS analysis of wax esters
- P62** **Wojciech Ostrowski, Rafał Frański**  
Mass spectrometric fragmentation pathways of carbamazepine-metal complexes
- P63** **Petr Lacina, Milada Vávrová, Ludmila Mravcová**  
Development and application of the analytical method using GCxGC-TOF MS for the monitoring of wastewater and surface waters in the Czech Republic for presence of selected drug residues
- P64** **Petra Ženatová, Milada Vávrová, Josef Čáslavský**  
Occurrence of antibiotics in the river sediment determined by liquid chromatography coupled to electrospray mass spectrometry

- P65** Valentina Zobnina, Vitaliy Chagovets, Marina Kosevich, Oleg Boryak, Agnes Gomory, Karoly Vekey  
Study of self-organization of complexes of valine and proline amino acids with polyethers by means of mass spectrometry and molecular dynamics simulation
- P66** David Friedecký, Hana Janečková, Stanislava Pavlíková, Eva Hlídková, Lenka Kittlová, Tadeáš Semeniuk, Tomáš Adam  
Diagnosing multiple inherited metabolic disorders in urine by LC-MS/MS
- P67** Adéla Pankrácová, Petr Kačer, Kamila Syslová, Kateřina Šimková, Marek Kuzma, Daniela Pelclová  
Immunomagnetic Probe for Biomarker Detection in Body Fluids
- P68** Kamila Syslová, Adéla Pankrácová, Marek Kuzma, Michaela Gajdošová, Daniela Palclová, Petr Kačer  
Determination of Biomarkers in Exhaled Breath Condensate: A Perspective Way in Bronchial Asthma Diagnostics
- P69** Jana Chalupová, Michaela Sedlářová, Michaela Helmel, Pavel Řehulka, Martina Marchetti-Deschmann, Günter Allmaier, Marek Šebela  
Identification of downy and powdery mildews using intact spore MALDI-TOF mass spectrometry
- P70** Ondřej Novák, Eva Hényková, Ilkka Sairanen, Mariusz Kowalczyk, Tomáš Pospíšil, Karin Ljung  
Tissue specific profiling of the *Arabidopsis thaliana* auxin metabolome