

PROGRAM

DAY 1 - MONDAY, APRIL 27TH

11:00 Badge pick up open

12:00 Lunch

Chair: Carlos Afonso (FR)

14:00 **INV-1 - Two decades of Orbitrap Mass Spectrometry as a mainstream technology for high-resolution Accurate Mass Analysis**

Invited lecture

A. Makarov

Thermo Fisher Scientific - Bremen (DE)

14:30 **#05 - Automated sample classification, calibration, molecular formula assignment, and statistical verification of ultra-complex FT-ICR Mass Spectrometry data streams**

R. Rodgers¹, T. Potu², L. Babcock-Adams¹, C.L. Hendrickson¹, M.L. Aguilera¹,

A.J. Tello-Rodriguez¹, C. Rüger³, C.R. Weisbrod¹, M. Sueur⁴, P. Giusti⁴, G.S. Vallverdu⁵

¹ National High Magnetic Field Laboratory - Tallahassee (US) ² Florida State Univ. - Tallahassee (US)

³ Univ. Rostock (DE)

⁴ TotalEnergies Research and Technology - Harfleur (FR)

⁵ Univ. Pau et des Pays de l'Adour - Pau (FR)

15:00 **#11 - Ion dynamics and methodological optimization for Orbitrap isotope ratio analysis of complex organic acid mixture**

H. Gontijo Machado

Univ. Estadual de Goiás - Goiânia (BR)

15:30 **#01 - Experimental tests for non-covalent interactions in large molecules: a case of substituted pyridinium ions**

A. Tsybizova¹, G. Vladimir², C. Peter³

¹ Sorbonne Univ., IPCM - Paris (FR)

² Univ. Basel, Department of Chemistry - Basel (CH)

³ ETH Zurich, Department of Chemistry and Applied Biosciences - Zurich (CH)

16:00 Break (30')

Chair: Pierre Giusti (FR)

16:30 **INV-2 – Advancing top-down proteomics for comprehensive characterization of protein complexes and proteoforms**

Invited lecture

R. Chan, M.S. Fischer, D.S. Roberts, E.A. Chapman, E.J. Larson, S.J. McIlwain, Y. Ge

Univ. Wisconsin-Madison (US)

17:00 **#20 - Coupling trapped ion mobility with two-dimensional mass spectrometry to analyze complex organic matter on the new 18 T timsMRMS**

M. Van Agthoven¹, J. Maillard², M. Sueur¹, S. Ollivier¹, C. Wootton³, M.A. Delsuc⁴, P. Giusti², C. Afonso⁵

¹ Univ. Rouen-Normandy - Mont-Saint-Aignan (FR)

² TotalEnergies Research and Technology Gonfreville - Harfleur (FR)

³ Bruker Daltonics - Bremen (DE)

⁴ IGBMC - CNRS UMR 7104 - INSERM U 1258 – Univ. Strasbourg - Illkirch-Graffenstaden (FR)

⁵ Univ. Rouen-Normandy - Harfleur (FR)

17:30 Flash poster talks

18:00 1027-2027 The legacy of Norman epics across Europe – William the Conqueror and the others..., by **J-G. Guyant**

18:30 Mixer and welcome reception and poster set up

DAY 2 - TUESDAY, APRIL 28TH - MORNING

Chair: Ljiljana Paša-Tolić (US)

09:00 **INV-3 – High resolution mass spectrometry in a spatial context**

Invited lecture

R. Heeren

M4I, Univ. Maastricht (NL)

09:30 **#38 - Sulfur as a source of dark matter in proteomics: roles of mass accuracy and fragmentation pathways**

K. Hakansson¹, K.L. Wu¹, M. Polak², M.M. Youssef³, E.R. Noche¹, S.A. Defiglia¹, S.D. Dunham², C.R. Weisbrod², L.C. Anderson¹

¹ *NHMFL/Florida State Univ. - Tallahassee (US)*

² *NHMFL - Tallahassee (US)*

³ *Ain Shams Univ. - Cairo (EG)*

10:00 **#07 - An unique and convergent LC-ExcedlonPro platform for both quantification of modified nucleosides and RNA sequencing for epitranscriptomics**

D. Touboul¹, L. Li En Tay², N. Ulryck², S. Bourcier¹, E. Nicol¹, M. Graille²

¹ *LCM, Ecole Polytechnique - Palaiseau (FR)*

² *BIOC, Ecole Polytechnique - Palaiseau (FR)*

10:30 *Break (30')*

Chair: Petr Novák (CZ)

11:00 **INV-4 – A quaternary hybrid instrument for state-of-the-art FT-ICR Mass Spectrometry at 14.5 and 21 Tesla**

Invited lecture

C. Weisbrod¹, J.D. Canterbury², M.W. Senko², L. Babcock-Adams¹, M. Polak¹, N.K. Kaiser¹, L.C. Anderson¹, J.P. Quinn¹, M.L. Aguilera¹, R.P. Rodgers¹, C.L. Hendrickson¹, K. Hakansson¹

¹ *National High Magnetic Field Laboratory - Tallahassee (US)*

² *Thermo Fisher Scientific - San Jose (US)*

11:30 **#30 - Quantitative top-down proteomics analysis from 1–50 human cells using spray-capillary CE-MS**

S. Wu

Univ. Alabama - Tuscaloosa (US)

12:00 Flash poster talks

12:30 *Lunch and poster session*

DAY 2 - TUESDAY, APRIL 28TH - AFTERNOON

Chair: Kristina Hakansson (US)

14:30 **INV-5 – Resolving molecular complexity in imaging with FT-ICR mass spectrometry**

Invited lecture

J.M. Spraggins

Vanderbilt Univ., Nashville/TN (US)

15:00 **#26 - The more the merrier: multimodal dissociation for native top-down MS on an FTICR**

A. Kádek¹, E. Gurler^{1,2}, T. Smrcka^{1,2}

¹ *Institute of Microbiology CAS - Prague (CZ)*

² *Charles Univ. - Prague (CZ)*

15:30 **#22 - Evaluation of dissolved organic matter structural models using systematic LC-HRMS and IMS-HRMS investigation of synthetic molecules**

J. Hawkes¹, A. Craig¹, A. Flygare¹, L. Moodie¹, P. Oliveira², L. Valadares Tose², K. Jeanneditfouque², F. Fernandez Lima²

¹ *Univ. Uppsala (SE)*

² *Florida International Univ. - Miami (US)*

16:00 *Break (30')*

Chair: Christopher Rüger (DE)

16:30 **INV-6 – timsMRMS – the next generation of ultra-high resolution MS instrumentation**

Invited lecture

C.A. Wootton¹, A. Theisen¹, G.F. Brabeck¹, M.E. Colley⁵, J.M. Spraggins⁵, J. Maillard^{2,3}, C.P. Rüger³, C. Afonso^{3,4*}, P. Giusti^{2,3,4}

¹ *Bruker Daltonics GmbH & Co. Kg, Bremen (DE)*

² *TotalEnergies One Tech, R&D, Downstream Processes & Polymers, TotalEnergies Research & Technology Gonfreville, Harfleur (FR)*

³ *International Joint Laboratory, iC2MC: Complex Matrices Molecular Characterization, Harfleur (FR)*

⁴ *Univ Rouen Normandie, INSA Rouen Normandie, CNRS, Normandie Univ, COBRA UMR 6014, INC3M FR 3038, Rouen (FR)*

⁵ *Department of Biochemistry, MRBIII U9228, Vanderbilt Univ. (US)*

17:00 **#36 - Fast Photochemical Oxidation of Nucleic acids (FPON) enables submolecular mapping of protein–DNA interfaces and conformational dynamics by High-Resolution Mass Spectrometry**

P. Novak¹, E. Biryukova¹, M. Polak¹, A. Kadek¹, V. Brinsa², A. Hnizda², J. Cerny³

¹ *Institute of Microbiology, Czech Academy of Sciences - Prague (CZ)*

² *First Faculty of Medicine, Charles Univ. - Prague (CZ)*

³ *Institute of Biotechnology, Czech Academy of Sciences - Prague (CZ)*

17:30 **#18 - Structural deciphering of oil and alkyd-based paints: Analysis by depolymerization and HRMS**

B. Almasri¹, C. Rolando²

¹ *Univ. Lille, UAR CNRS 2014, US INSERM 41, PLBS, Villeneuve d'Ascq (FR)*

² *CARMeN Institute, Univ. Rouen Normandy (FR)*

DAY 3 - WEDNESDAY, APRIL 29TH - MORNING

Chair: Ryan Rodgers (US)

09:00 **INV-7 – Life in a Nutshell: biotic and abiotic chemistry in natural complex systems**

Invited lecture

P. Schmitt-Kopplin^{1,2,3}

¹ Technical Univ. Munich TUM, Analytical Food Chemistry, Weihenstephan, Freising (DE)

² Helmholtz Munich, Analytical BioGeoChemistry, Oberschleissheim (DE)

³ Max Plank Institute for Extraterrestrial Physics, Center for Astrochemical Studies, Garching (DE)

09:30 **INV-8 – Aerosolomics for maritime emissions and engine decarbonization: FTMS fingerprints of ammonia dual-fuel exhaust and wet-scrubber discharges**

Invited lecture

C. Rügner¹, **H. Czech**¹, **E. Schneider**¹, **H. Hansen**¹, **F. Carl**¹, **S. Ehlert**², **M. Aguilera**³,
T. Streibel¹, **B. Buchholz**⁴, **R. Zimmermann**¹

¹ Univ. Rostock, Department of Analytical Chemistry - Rostock (DE)

² Photonion GmbH - Schwerin (DE)

³ National High Magnetic Field Laboratory - Tallahassee (US)

⁴ Univ. Rostock, Department of Piston Machines and Internal Combustion Engines - Rostock (DE)

10:00 **#34 - Development of FTICR MS methods for the advanced molecular characterization of electrolytes and passivation layers in lithium-ion batteries**

T. Sombret¹, **E. Kherchiche**¹, **M. Hubert-Roux**¹, **A. Gajan**², **J. Maillard**³, **S. Ollivier**¹,
C. Afonso¹, **P. Giusti**³

¹ Univ. Rouen Normandie, INSA Rouen Normandie, Univ. Caen Normandie, ENSICAEN, CNRS, Institut CARMeN UMR 6064, - Rouen (FR)

² SAFT, Corporate Research, - Bordeaux (R)

³ TotalEnergies OneTech, TotalEnergies Research & Technology Gonfreville, Harfleur (FR)

10:30 *Break (30')*

Chair: Simon Ollivier (FR)

11:00 **INV-9 – Deep learning-enhanced characterization of (Glyco-) peptide fragmentation on the Orbitrap-Omnitrap**

Invited lecture

S. Mohammed

Univ. Oxford and the Rosalind Franklin Institute (UK)

11:30 **#19 - Surpassing DFT limitations in FT MS: transient fitting via parallelized genetic algorithm**

C. Rolando¹, **U. Abdulkarimova**², **P. Collet**³

¹ CARMeN Institute, Univ. Rouen Normandy (FR)

² French-Azerbaijani Univ. - Baku (AZ)

³ Univ. Andrés Bello - Viña Del Mar (CL)

12:00 Flash poster talks

12:30 *Lunch and poster session*

DAY 3 - WEDNESDAY, APRIL 29TH - AFTERNOON

Chair: Janne Janis (FI)

- 14:30** **INV-10 – AI-driven software development and machine learning optimization for FTICR mass spectrometry**
Invited lecture
W. Kew¹, K.J. Zemaitis¹, P. Xiang¹, R. Chu¹, Y. Corilo¹, J. Lindquist¹, S. Munikoti¹, J. Strube¹, T.P. Wörner, M. Biel², A.A. Makarov², L. Paša-Tolić¹
¹ Pacific Northwest National Laboratory, Richland, WA (US)
² Thermo Fisher Scientific, Bremen (DE)
- 15:00** **#03 - Molecular characterization of bio-based binder after outdoor aging and PAV aging by Orbitrap mass spectrometry**
O. Lacroix, N. Dolmazon, S. Laage
TotalEnergies OneTech - Solaize (FR)
- 15:30** **#08 - Spatial mapping of adrenal steroidogenesis by MALDI-FTICR Mass Spectrometry Imaging**
E. Nicol¹, F. Bonnet-Serrano², L. Thomeret², F. Violon², K. Perlemoine², M. Favier³, P. Renquet¹, A. Jouinot², J. Bertherat², G. Assié², D. Touboul¹
¹ LCM, IP Paris, Ecole Polytechnique, CNRS UMR 9168 - Palaiseau (FR)
² INSERM U1016-CNRS UMR8104, Institut Cochin - Paris (FR)
³ Plateforme HistIM, Institut Cochin - Paris (FR)
- 16:00** **INV-11 – Unveiling the molecular complexity of produced water: from predictive modeling to HPLC-21T FT-ICR MS**
Invited lecture
B. Gontijo¹, J. Roque¹, H. Machado¹, B. Acioli¹, M. Aguilera², I. Medeiros³, R. Mesquita³
¹ UFG - Goiania (BR)
² MagLab - Tallahassee (US)
³ PETROBRAS - Rio de Janeiro (BR)
- 16:30** *Break (30')*
- 17:00** **Social activities:**
Walking tour of the city center of Rouen
- 19:30** Conference dinner (at the Joan of Arc Historical)

DAY 4 - THURSDAY, APRIL 30TH - MORNING

Chair: William Kew (US)

- 09:00 **INV-12 – Be patient and release the pressure: recipe for high-resolution charge detection mass spectrometry**
Invited lecture
A. Heck
Univ. Utrecht, The Netherlands
- 09:30 **#14 - Direct Screening of Diamondoids and Geochemical Markers in Brazilian Crude Oils by APPI (+) FT-ICR MS - Insights into Thermal Maturity**
D. Muller¹, T. Covas¹, R. Pereira¹, M. Rangel¹, J. Roque¹, Y. Rocha², J. Lopes², I. Souza², B. Vaz¹
¹CEMEP - Federal Univ. Goiás - Goiania (BR)
²CENPES - Petrobras - Rio de Janeiro (BR)
- 11:00 **INV-13 – Advancing single-cell and spatial proteomics with novel LC-MS and tissue dissection workflows**
Invited lecture
Y. Kwon¹, J.M. Fulcher¹, P. Xiang¹, P. Dawar¹, R. Kumar¹, S.M. Williams¹, Y. Zhu^{1,2}, A. Arif³, S.K.Y. Tang³, L. Paša-Tolić¹
¹Pacific Northwest National Laboratory, Environmental Molecular Sciences Div., Richland, WA (US)
²Genentech, Dpt. Proteomic and Genomic Technologies, South San Francisco, CA (US)
³Stanford Univ., Dpt. Mechanical Engineering, Stanford, CA (US)
- 10:30 *Break (30')*
- Chair: Hélène Lavanant (FR)
- 11:00 **INV-14 – Protein quantitation across broad mass ranges in FTMS: handle with care!**
Invited lecture
Y.O. Tsybin
Spectroswiss, Lausanne (CH)
- 11:30 **INV-15 – Decoding organic matter complexity through hyphenated chromatography and ion mobility on an 18 T TIMS–FTICR platform**
Invited lecture
T. Imhoff, J. Maillard, C. Barrère-Mangote, M. Hubert-Roux, M. Mignot, S. Ollivier, J. Meng, J-P. Croué, C. A Wootton, P. Giusti, C. Afonso
Univ. Rouen Normandy, CARMEN institute, Rouen (FR)
International Joint Laboratory, iC2MC: Complex Matrices Molecular Characterization, Harfleur (FR)
- 12:00 *Lunch eat in or to go. Closing at 2.00 pm*

POSTER PROGRAM

- #04** – Dissecting nitrosamine dissociation using tandem mass spectrometry techniques
S. Weekes¹, M. Li², C.A. Wootton³, M.P. Barrow⁴, S.W. Holman⁵, A. Ray⁶, P.B. O'connor⁴
¹ *Analytical Science Centre of Doctoral Training, Univ. Warwick - Coventry (UK)*,
² *Advanced Mass Spectrometry Research Technology Platform, Univ. Warwick - Coventry (UK)*
³ *Bruker Daltonics GmbH and Co. Kg - Bremen (DE)*
⁴ *Department of Chemistry, Univ. Warwick - Coventry (UK)*
⁵ *Chemical Dvlpt, Pharmaceutical Technology & Development, Operations, AstraZeneca - Macclesfield (UK)*
⁶ *Analytical Science & Technology, Global Product Dvlpt, Operations, AstraZeneca - Macclesfield (UK)*
- #06** – Analysis of synthetic and environmental micro- and nano-polyethylene terephthalates (PET) based-plastics by depolymerization and HRMS
B. Almasri¹, C. Rolando²
¹ *Univ. Lille, UAR CNRS 2014, US Inserm 41, PLBS, Villeneuve d'Ascq (FR)*
² *CARMeN Institute, Univ. Rouen Normandy (FR)*
- #09** – Conformer-selective ECD analysis of proteins using a novel gated TIMS-MRMS platform
A. Theisen, C.A. Wootton
Bruker Daltonics GmbH & Co. KG - Bremen (DE)
- #10** – Single ion detection with FT-ICR MS: trapped ion kinetic energy correction for improved charge determination
N. Kaiser¹, S. Beu², C. Hendrickson¹, J. Quinn¹, J. Kafader³, C. Weisbrod¹
¹ *National High Magnetic Field Laboratory - Tallahassee, FL (US)*
² *S.C. Beu Consulting – Austin/TX (US)*
³ *Northwestern Univ. – Evanston/IL (US)*
- #12** – Isomer-level description of complex bio-oils enabled by gTIMS hyphenated to 18 T FTICR MS
T. Imhoff, S. Ollivier, J. Maillard, C. Barrère-Mangote, M. Hubert-Roux, M. Mignot, P. Giusti, C. Afonso
Institut CARMeN UMR CNRS 6064, Univ. Rouen Normandie, Mont-Saint-Aignan, Rouen (FR)
- #13** – Novel sample preparation for the pre-treated biomass characterization using MALDI-FTICR
P. Renquet¹, S. Devos¹, A. Le Masle², F. Bataille², E. Nicol¹, D. Touboul¹
¹ *Laboratoire de Chimie Moléculaire, CNRS UMR 9168, Institut Polytechnique de Paris - Palaiseau (FR)*
² *IFP Energies nouvelles, Rond-point de l'échangeur de Solaize - Solaize (FR)*
- #16** – Prescribed fire severity reshapes the molecular fingerprint of topsoil organic matter in a mediterranean pinus forest revealed by Orbitrap UHRMS (ESI+)
N. Jiménez-Morillo¹, G. Correa-López¹, A.Z. Miller¹, C. Tsitsigianni¹, B. Martínez-Haya²
¹ *Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC), Sevilla (ES)*
² *BIO-MS Group, Dpt. of Physical, Chemical and Natural Systems, Univ. Pablo de Olavide, Sevilla (ES)*
- #17** – Molecular characterization of soils impacted by Tajogaite lava deposition using ultra-high-resolution Orbitrap MS
N. Jiménez-Morillo¹, J. Mataix-Solera², G. Correa-López¹, S. Gutiérrez-Patricio¹, J. Martínez-Martínez³, J. Vegas³, F. Gázquez⁴, B. Martínez-Haya⁵, A.Z. Miller⁵
¹ *Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC), Sevilla (ES)*
² *GETECMA. Dpt. de Agroquímica y Medio Ambiente, Univ. Miguel Hernández, Elche (Spain)*
³ *Instituto Geológico y Minero de España (IGME-CSIC), Madrid (Spain)*
⁴ *Department of Biology and Geology, Univ. Almería (Spain)*
⁵ *BIO-MS Group, Dpt. of Physical, Chemical and Natural Systems, Univ. Pablo de Olavide, Sevilla (Spain)*

- #21** – Liquid chromatography coupled to Orbitrap Excedlon Pro for HRMS profiling and steroids quantification in adrenocortical tumors
C. Amoros¹, F. Bonnet-Serrano², B. Farguet¹, L. Thomeret², K. Perlemoine², F. Violon², G. Assié², J. Bertherat², D. Touboul¹
¹ LCM, IP Paris, Ecole Polytechnique, CNRS UMR 9168 - Palaiseau (FR)
² INSERM U1016-CNRS UMR8104, Cochin Institute - Paris (FR)
- #24** – Compositional analysis hydrothermal extracts of softwood bark by direct-infusion ESI FT-ICR Mass Spectrometry
J. Jänis, M. Nikunen, T. Kekäläinen, M. Negm
Univ. Eastern Finland - Joensuu (FI)
- #25** – Comparative molecular characterisation of bio-oils from different feedstocks FTICR MS
H. Wang¹, M. Li², S. Weekes¹, B. Gannon¹, C.G. Littlejohn¹, P.B. O'connor¹, S. Gu¹, S. Banks³, M.P. Barrow¹
¹ Department of Chemistry, Univ. Warwick - Coventry (UK)
² Advanced Mass Spectrometry RTP, Univ. Warwick - Coventry (UK)
³ College of Engineering and Physical Sciences, Aston Univ. - Birmingham (UK)
- #27** – Molecular insights into DNA mismatch repair: probing protein–protein and protein–ligand interactions by Native High-Resolution Mass Spectrometry
J. Jänis¹, H. Le¹, M. Laitaoja¹, K. Rasheed², P. Friedhoff², J. Lebbink³
¹ Univ. Eastern Finland - Joensuu (FI)
² Univ. Giessen - Giessen (DE)
³ Erasmus MC - Rotterdam (NL)
- #29** – Unraveling the molecular complexity of dissolved organic matter issued from wood combustion using trapped ion mobility spectrometry coupled with 18 T FTICR MS
A. Duhamel¹, E. Varea², C. Wootton³, F. Portet-Koltalo⁴, C. Afonso¹
¹ Normandie Univ., CNRS, CARMEN UMR 6064 and FR 3038, Univ. Rouen Normandie - Rouen (FR)
² Normandie Univ, CNRS CORIA UMR 6614, UNIROUEN, INSA Rouen - Rouen (FR)
³ Bruker Daltonics GmbH & Co.KG - Bremen (DE)
⁴ Normandie Univ., CNRS, CARMEN UMR 6064 and FR 3038, Univ. Rouen Normandie - Evreux (FR)
- #32** – Development of on-line coupling between supercritical fluid chromatography and 18 T FTICR MS for the molecular characterization of wood bio-oil
G. Limousin¹, T. Imhoff², M. Hubert-Roux³, P. Giusti², M. Mignot³, C. Afonso³
¹ Univ. Rouen Normandie, INSA Rouen Normandie, CNRS, CARMEN UMR 6064, INC3M FR 3038/International Joint Laboratory, iC2MC: Complex Matrices Molecular Characterization, Harfleur, France - Mont-Saint-Aignan (FR)
² Univ. Rouen Normandie, INSA Rouen Normandie, CNRS, CARMEN UMR 6064, INC3M FR 3038/International Joint Laboratory, iC2MC: Complex Matrices Molecular Characterization/TotalEnergies One Tech, R&D, Downstream Processes & Polymers, TotalEnergies Research & Technology Gonfreville - Mont-Saint-Aignan (FR)
³ Univ. Rouen Normandie, INSA Rouen Normandie, CNRS, Laboratoire CARMEN UMR 6064, INC3M FR 3038/International Joint Laboratory, iC2MC: Complex Matrices Molecular Characterization - Mont-Saint-Aignan (FR)
- #33** – Development of a hyphenated LC-MS method to characterize N- glycan structures of recombinant glycoproteins produced in microalgae
X. Richard¹, O. Perruchon¹, P. Lerouge¹, S. Ollivier², C. Afonso², E. Mathieu-Rivet¹, C. Loutelier-Bourhis²
¹ Univ. Rouen Normandie, Normandie Univ, GlycoMEV UR 4358, SFR Normandie Végétal FED 4277, Innovation Chimie Carnot, IRIB, GDR CNRS Chemobiologie - Mont-Saint-Aignan (FR)
² Univ. Rouen Normandie, INSA Rouen Normandie, Univ. Caen Normandie, ENSICAEN, CNRS, Institut CARMEN UMR 6064, Mont-Saint-Aignan (FR)

#35 – Fundamental Understanding of interfacial mechanisms of Li-ion batteries by FTICR mass spectrometry and imaging mass spectrometry: effect of lithium difluorophosphate as an electrolyte additive

T. Sombret¹, E. Kerchiche¹, M. Hubert-Roux¹, A. Gajan², J. Maillard³, C. Afonso¹, P. Giusti³

¹ Univ. Rouen Normandie, INSA Rouen Normandie, Univ. Caen Normandie, ENSICAEN, CNRS, Institut CARMeN UMR 6064, Rouen (FR)

² SAFT, Corporate Research, Bordeaux (FR)

³ TotalEnergies OneTech, TotalEnergies Research & Technology Gonfreville, Harfleur (FR)

#37 – Help wanted: trying to understand ICR m/z peaks splitting of specific ions produced by MALDI or SALDI

J. Far, W.H. Müller, E. De Pauw, G. Eppe

Mass Spectrometry Laboratory (MSLab), Univ. Liège (BE)

#40 – Extending high-mass performance in Orbitrap-based CDMS via FTMS booster-enhanced acquisition and isotope depletion

L. Li¹, A. Kozhinov², K. Nagornov², Y. Tsybin², A. Mathew¹, R. Heeren¹

¹ Maastricht Univ., Maastricht MultiModal Molecular Imaging Institute (M4I), Maastricht (NL)

² Spectroswiss - Lausanne (CH)

#41 – Extending protein sequence coverage in Orbitrap-based top-down proteomics using FTMS booster-enhanced acquisition and isotope depletion

T. Tebi¹, M.A.H. Ron¹, M. Anjusha¹, L. Linglan¹, O.T. Yury², K. David³, O.N. Konstantin⁴

¹ Maastricht MultiModal Molecular Imaging Institute (M4I), Maastricht Univ. - Maastricht (NL)

² Spectroswiss, EPFL Innovation Park - Lausanne (CH)

³ Vibrat-Ion Ltd (UK)

⁴ Spectroswiss, EPFL Innovation Park - Lausanne (UK)

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