

DGMS 2020

53rd Annual Conference of the DGMS
Including 27th ICP-MS User's Meeting

tagung2020.dgms.eu

Welcome to the 53rd Annual Conference of the German Society for Mass Spectrometry (DGMS)

On behalf of the DGMS, the regional network Bioanalytik-Muenster e.V. and the Local Organizing Committee at the University of Münster, it is our pleasure to welcome you to the 53rd Annual Conference of the German Society for Mass Spectrometry (DGMS) in the City of Münster. The conference will provide a forum to share knowledge and to exchange ideas on instrumentation, methods and applications in all areas of mass spectrometry with colleagues from Germany, the neighbouring countries and overseas.

This year's DGMS conference features, for the first time in more than one decade, the ICP-MS User's Meeting, with the goal to reunify all major directions of mass spectrometry research and application within one event. As "molecular" and "elemental" mass spectrometry methods are increasingly used as complementary techniques to solve demanding scientific challenges in the life sciences, the environmental sciences and the materials sciences, this integration follows current research directions.

From March 1 to 4, 2020, more than 500 participants from academia and industry will gather in the lecture halls of the Chemistry and Physics departments of the University of Münster. The technical program starts with a total of eight workshops on different topics in the afternoon of Sunday, March 1. While eight plenary lectures and several award lectures are among the highlights of the meeting, many young scientists will present their results in 88 keynote and contributed oral presentations and over 230 posters. A satellite LC/MS meeting on Wednesday (March 4) afternoon and a special session about science management on Monday, March 2, covering important aspects of large instrumentation grants and open access publications, complement the scientific program.

We have planned ample time for discussions after the lectures as well as in the poster and exhibition areas. Lunch will be available in the university restaurant ("Mensa"), just a few steps away from the conference site. The manufacturers will provide product seminars after lunch to inform about their latest developments. The social programme includes a welcome reception after the initial evening lectures on Sunday, March 1, and the Conference Dinner in the Zoo of Münster, including guided tours, feeding the elephants and more on Tuesday, March 3.

As young scientists are the future of our discipline, we have tried to stimulate their participation by low conference fees for graduate students and strongly discounted fees for the Conference Dinner. Poster prizes will be awarded to appreciate contributions from students. Finances always are an important aspect for a conference of this size. Therefore, our particular thanks go to all sponsors and exhibitors of the symposium, who helped to keep registration affordable.

Let us all look forward to the 53rd annual meeting of DGMS 2020 and the 27th ICP-MS User's Meeting in the beautiful, historic city of Münster. We will do our best to organize a rewarding and unforgettable symposium for all attendees!

Heiko Hayen
Conference
Münster

Uwe Karst
Conference
Münster

Klaus-Michael Weltring
Managing Director of
Bioanalytik-Muenster
Münster

Andrea Sinz
DGMS President
Halle



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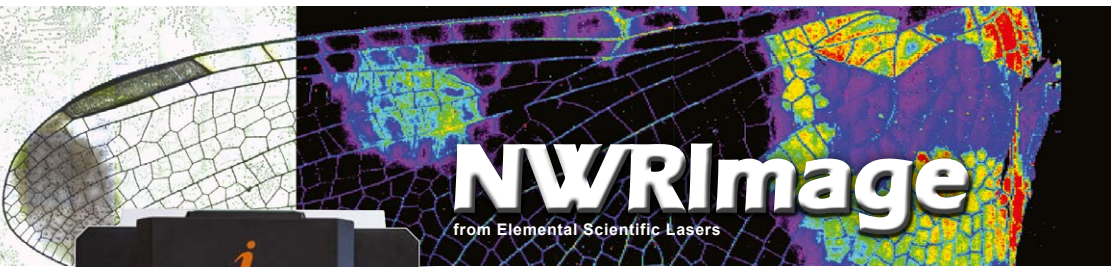
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CONTENT

SPONSORS AND MEDIA PARTNER	6
VENDOR SEMINARS	7
EXHIBITION	8
Exhibitors	8
Lecture Halls / Exhibition Area	9
MEETING ANNOUNCEMENTS	10
SESSION OVERVIEW	11
DGMS 2020 AWARDEES	17
SCIENTIFIC PROGRAMME	18
Workshops & Lecture Programme – Sunday, March 1, 2020	18
Lecture Programme – Monday, March 2, 2020	20
Lecture Programme – Tuesday, March 3, 2020	30
Lecture Programme – Wednesday, March 4, 2020	38
Poster Programme – Monday, March 2, 2020 – Tuesday, March 3, 2020	43
SPECIAL ISSUE RCM	66
SOCIAL PROGRAMME	67
GENERAL INFORMATION	69
Cloakroom	69
Name badges	69
Smoking	69
Information for Authors	69
Internet Access	70
Public Transportation / Taxi	72
CASH DISPENSER / SHOPPING IN MÜNSTER / POST OFFICE / TOURIST INFORMATION	72
SIGHTSEEING / MAP OF MÜNSTER'S CITY CENTRE	74
CONFERENCE VENUE IN MÜNSTER	78

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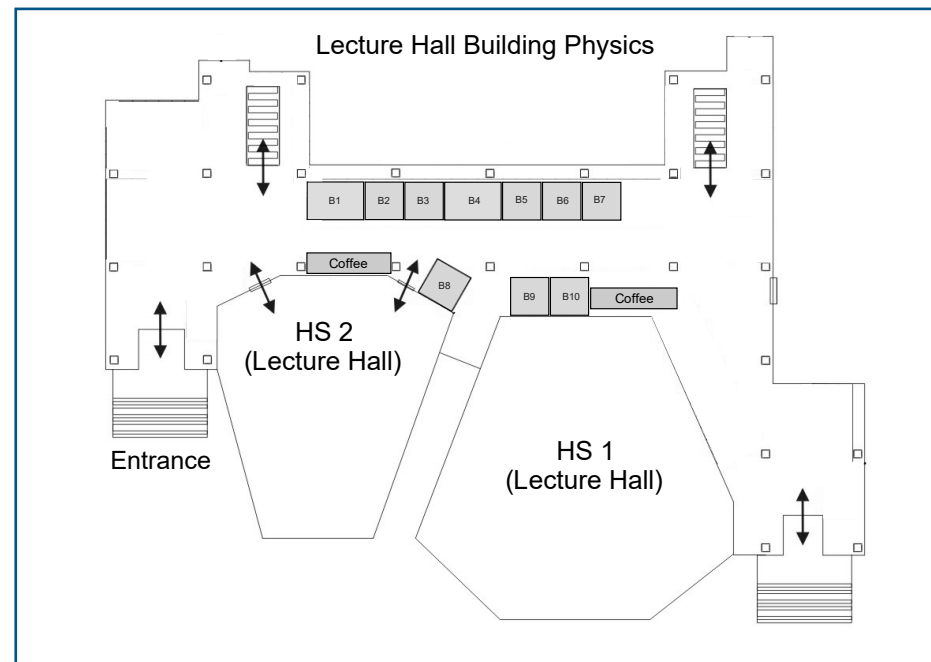
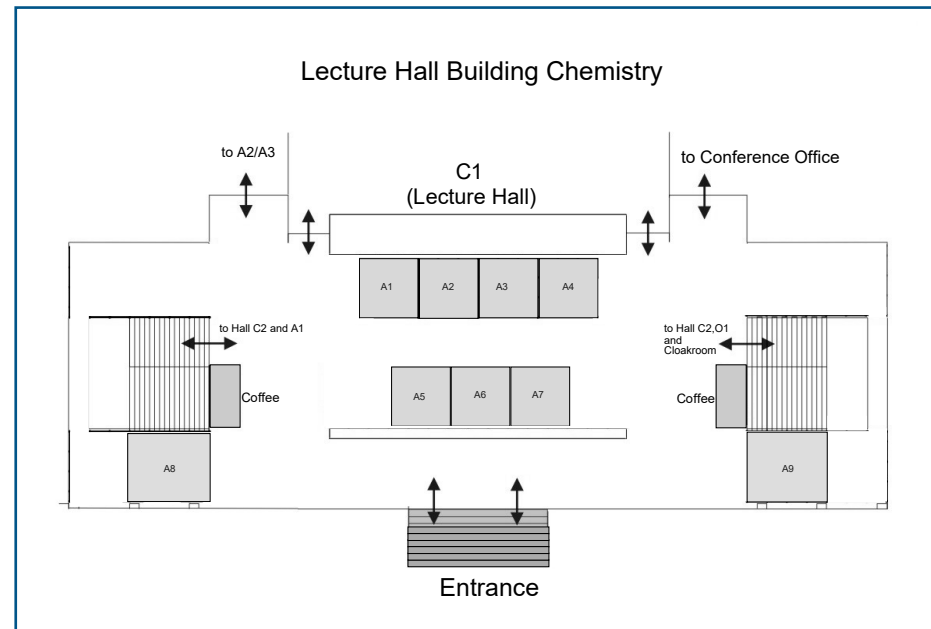


MEDIA PARTNER



Monday, March 2, 2020		Lecture Halls Chemistry and Physics
12:50 - 13:50	Bruker Daltonik GmbH	Hall C1
	Innovations and Disruptions in Mass Spectrometry "4D-Proteomics: Unleashing the Power of PASEF", Scarlet Koch, Bruker "MALDI imaging: Introduction and characterization of our new timsTOF flex MALDI-Q-TOF Instrument", Annika Koch, Bruker "Surfaces and Small Molecules: MALDI moving into new Areas", Arnd Ingendoh, Bruker	
12:50 - 13:50	Thermo Scientific GmbH	Hall C2
	The new Thermo Scientific™ Orbitrap Eclipse™ Tribrid™ mass spectrometer Dr. Martin Zeller	
12:50 - 13:50	Shimadzu Deutschland GmbH	Hall A1
	"Complementary molecular and elemental mass spectrometric imaging of tissue samples" , Rebecca Buchholz, University of Münster "The history of mass spectrometry - MS technologies over time" , Dr. Klaus Bollig, Shimadzu Deutschland GmbH	
12:50 - 13:50	Waters GmbH	Hall HS1
	"High End Ion Mobility with Waters Select Series Cyclic IMS - Applications on a Multi-Function Cyclic Ion Mobility - Mass Spectrometry System" , Dr. Gunnar Weibchen, Senior Product Sales Specialist Mass Spectrometry Solutions, Waters GmbH "Waters BioAccord SmartMS - The Biopharma Solution for Protein, Peptide and Glycan Routine Mass Analysis and recent Enhancements for Oligonucleotide Workflows" , speaker tba	
12:50 - 13:50	Agilent Technologies Sales & Services GmbH & Co. KG	Hall HS2
	LC/MS "Standardization in targeted metabolomics: obtain quantitative and reproducible results with Biocrates kits" , Dr. Bijon Chatterji, Biocrates Life Sciences AG ICP-MS "Quantification of metalloproteins in clinical samples - chances and challenges" , Dr. Claudia Swart, Physikalisch-Technische Bundesanstalt Braunschweig	
Tuesday, March 3, 2020		Lecture halls Chemistry and Physics
12:30 - 13:30	Thermo Scientific GmbH	Hall C2
	Triple Quadrupol ICP-MS Systeme: Der einfachste Weg zu besseren Ergebnissen in der Elementspurenanalytik Sebastian Völker	
12:30 - 13:30	ESI Elemental Service & Instruments GmbH	Hall A1
	"Aspects of Fast Laser Ablation Imaging for ICP-MS Measurements - What is really required?" , David Douglas, C. Derrick Quarles Jr., Ciaran O'Connor "Advancements in Sample Introduction for Elemental Analysis and Elemental Speciation" , C. Derrick Quarles Jr., Patrick Klemens, Paul Watson	
12:50 - 13:50	AB Sciex Germany GmbH	Hall HS1
	Neues von AB Sciex: "10,000s of samples per day: When High Throughput Requirements Meet Echo[®] MS System" , Dr. Axel Besa "New Mass Spectrometric Solutions for Global Targeted and Untargeted Metabolomics" Jörg Schlotterbeck	

AB Sciex Germany GmbH	A7
Agilent Technologies Sales & Services GmbH & Co. KG	A9
AHF Analysentechnik AG	B5
Bruker Daltonik GmbH	A8
ESI Elemental Service & Instruments GmbH	B1
Fasmatech Science & Technology	B10
IONTOF GmbH	B3
JEOL (Germany) GmbH	A4
MACHERY-NAGEL GmbH & Co. KG	A6
Merck Chemicals GmbH	B8
MS Vision GmbH	B2
Nu Instruments Ltd.	B6
PharmaFluidics	A2
Restek GmbH	A5
Shimadzu Deutschland GmbH	B9
SunChrom GmbH / KR Analytical Ltd.	B7
Tascon GmbH	A3
Thermo Fisher Scientific GmbH	B4
Waters GmbH	A1



Meeting Announcements

DGMS Interest Group Element-Mass Spectrometry

The DGMS Interest Group Element-Mass Spectrometry will meet on Monday, March 02, 2020 in lecture hall A1 (lecture hall building Chemistry) starting at 17:10.

DGMS Member's Meeting

The general assembly for DGMS members will place on Tuesday, March 03, 2020 starting at 18:00 in lecture hall HS2 (lecture hall building Physics).

DGMS Young Scientists Business Meeting

The DGMS Young Scientists Business Meeting will be held on Tuesday, March 03, 2020 in lecture room W043 of the building AC/PC (Corrensstraße 28/30, 48149 Münster) from 11:30 to 12:30. Please note: Building AC/PC is located north of the Physics building. Signs will guide you to the meeting venue.

DGMS Interest Group LC-MS: Post Symposium

A satellite meeting of the DGMS Interest Group LC-MS is taking place on Wednesday, March 04, 2020 in lecture hall C2 (lecture hall building Chemistry building) from 14:00 to 17:10.

Sunday, March 1, 2020

12:00 => Start Registration				
	Room: O1	Room: HS1	Room: A1	Room: HS2
	Workshop 1: FI, FD, LIFDI	Workshop 2: Mass Spectrometry Imaging	Workshop 3: PTB: Metro-logical Infrastructure	Workshop 4 (Tutorial): LC-MS
14:00 - 15:15	Part 1	Part 1	Part 1	Part 1
15:30 - 16:45	Part 2	Part 2	Part 2	
15:15 - 15:30	Coffee Break			

	Room: HS2	Room: C2	Room: W043 (IAAC Building)	Room: C1
	Workshop 5: ToF-SIMS	Workshop 6: Protein Modification and Expression Analysis	Workshop 7: Core Facilities	Workshop 8: Applications of MS in Pharma Industry
14:00 - 15:15		Part 1		Part 1
15:30 - 16:45	Part 1	Part 2	Part 1	Part 2
16:45 - 17:00	Coffee Break, Registration			

Lecture Hall Building Chemistry: Hall C1

17:00 - 17:20	Opening of DGMS and ICP-MS User's Meeting 2020		
17:20 - 18:00	Plenary Lecture 1: P. Picotti		
18:00 - 18:15	Mattauch-Herzog Award Session		
18:15 - 19:15	Wolfgang Paul Lecture: A. Makarov		
19:15 - 22:00	Welcome Reception	Chemistry & Physics Building	



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- Einfacher Wechsel der Ionenquellen

SESSION OVERVIEW

Monday, March 2, 2020					
Lecture Hall Building Physics: Hall HS1					
08:30 - 09:10 Plenary Lecture 2: J. Feldmann					
09:10 - 09:35 Wolfgang Paul Study Awards Session; Award Lecture					
09:35 - 10:00 Coffee Break, Exhibition, Posters					
	Hall C1	Hall HS1	Hall HS2	Hall C2	
10:00 - 11:50	Session 1 Proteomics - Basics	Session 2 Lipidomics I	Session 3 (ICP-MS User) Elemental Imaging	Session 4 Environmental MS	
10:00 - 10:30	Urner	Heiles	Clases	Petras	
10:30 - 10:50	Van Duijn	Niehaus	Bücker	Schade	
10:50 - 11:10	Rzagalinski	Helmer	Nowak	Kuzmich	
11:10 - 11:30	Tholey	Drotleff	Bleiner	Stadler	
11:30 - 11:50	Koch	Schuhmann	Shaw	Zuber	
11:50 - 12:50 Lunch Break					
Vendor Seminars I					
12:50 - 13:50	Bruker Hall C1	Waters Hall HS1	Agilent Hall HS2	Thermo Hall C2	Shimadzu Hall A1
14:00 - 15:50	Session 5 Proteomics - Clinical and biological applications	Session 6 Imaging I	Session 7 (ICP-MS User) ICP-MS: Nano-/ Bioanalysis	Session 8 Instrumentation I	Special Session Science Management
14:00 - 14:30	Winter	Hagenhoff	Engelhard	Cramer	Mürtz
14:30 - 14:50	Stolz	Oetjen	Buchholz	Wootton	Trevorrow
14:50 - 15:10	Wenk	Müller	Lemke	Papanastasiou	
15:10 - 15:30	Bräcker	Bookmeyer	Retzmann	Gross	
15:30 - 15:50	Sickmann	Treu	Stiboller	Uteschil	
15:50 - 16:20 Coffee Break, Exhibition, Posters					
Lecture Hall Building Chemistry: Hall C1					
16:20 - 17:00 Plenary Lecture 3: L. Konermann					
17:10 - 18:00	Poster Session I (even numbers) and Exhibition		Element MS Board Meeting (Hall A1)		
18:00 - 19:00			DGMS Board Meeting (Seminar Room W 043)		
19:00 - 21:00 Poster Evening with beer & pretzels					

SESSION OVERVIEW

Tuesday, March 3, 2020				
Lecture Hall Building Chemistry: Hall C1				
08:30 - 09:10	Plenary Lecture 4: P. E. Barran			
09:10 - 09:35	Mass Spectrometry in the Life Sciences Award; Award Lecture			
09:35 - 10:00	Coffee Break, Exhibition, Posters			
	Hall C1	Hall HS1	Hall HS2	Hall C2
10:00 - 11:30	Session 9 Imaging II	Session 10 Lipidomics II	Session 11 (ICP-MS User) ICP-MS: Environ- ment I	Session 12 Affinity
10:00 - 10:30	Bhandari	Ahrends	Pröfrock	Glocker
10:30 - 10:50	Pirkl	Köfeler	Krystek	Falck
10:50 - 11:10	Kim	Al Machot	Faßbender	Lupu
11:10 - 11:30	Heijs	Fuchs	Macke	Wiegand
11:30 - 12:30	Lunch Break		Young Scientists Meeting Room W043 (IAAC Building)	
12:30 - 13:30	Vendor Seminars II			
	ESI (Hall A1)	Sciex (Hall HS1)		Thermo (Hall C2)
13:30 - 15:00	Poster Session II (odd numbers)			
	Hall C1	Hall HS1	Hall HS2	Hall C2
15:00 - 16:50	Session 13 Proteomics -Struc- tural & Functional Proteomics	Session 14 Metabolomics	Session 15 (ICP-MS User) ICP-MS: Environ- ment II	Session 16 Ions at Next Generation Lightsources
15:00 - 15:30	Richter	Schmid (DGMS Young Scientist Award)	Meermann	Bari
15:30 - 15:50	Piersimoni	Schlotterbeck	Kautenburger	Marklund
15:50 - 16:10	Singh	Cakić	Zimmermann	Loru
16:10 - 16:30	Kopicki	Schöttler	Pramann	Pouilly
16:30 - 16:50	Kuhne	Krüger	Brix	Kirschbaum
16:50 - 17:20	Coffee Break, Exhibition, Posters			
Lecture Hall Building Physics: Hall HS1				
17:20 - 18:00	Plenary Lecture 5: R. Boiteau			
18:00 - 19:15	DGMS Members´ Meeting (Hall HS1)			
19:15	Bus Transfer			
19:30 - 23:30	Conference Dinner			

Wednesday, March 4, 2020				
Lecture Hall Building Physics: Hall HS1				
09:00 - 09:40	Plenary Lecture 6: Maria Montes-Bayón			
09:40 - 10:20	Plenary Lecture 7: Jana Roithová			
10:20 - 10:40	Coffee Break, Exhibition, Posters			
	Hall C1	Hall HS1	Hall HS2	Hall C2
10:40 - 11:50	Session 17 Metabolomics/ Glycomics/Pro- teomics	Session 18 Ion Physics and Chemistry	Session 19 Forensics	Session 20 Instrumenta- tion II
10:40 - 11:10	Frolov	Engeser	Putz	Belder
11:10 - 11:30	Vakhrushev	Haack	Brungs	Foest
11:30 - 11:50	Wudy	Überschaar	Paßreiter	Rüger
11:50 - 12:10	Coffee Break, Exhibition, Posters			
Lecture Hall Building Chemistry: Hall C1				
12:10 - 12:50	Plenary Lecture 8: S. Richardson			
12:50 - 13:30	Poster Awards and Closing Ceremony			
13:30 - 14:30	Farewell Reception			

Post Symposium "LC-MS"	
Lecture Hall Building Chemistry: Hall C2	
14:00 - 14:05	Welcome; Chair: Hartmut Schlüter
14:05 - 14:35	Nicolai Bache, Odense/DK
14:35 - 15:05	Marcel Kwiatkowski, Innsbruck/AT
15:05 - 15:15	Stefan Loroeh, Dortmund/DE
15:15 - 15:45	Coffee Break
15:45 - 15:55	Ingo Feldmann, Dortmund/DE
15:55 - 16:05	Carina Wienken, Münster/DE
16:05 - 16:35	Christoph Krisp, Hamburg/DE
16:35 - 17:05	Lee Roberts, Leeds/UK
17:05 - 17:10	Farewell

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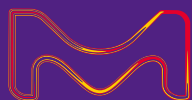
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DGMS 2020 Awardees

Mattauch-Herzog Award:

Dr. Yulin Qi
(Tianjin University, China)
Awarded for his Outstanding Achievements in the Development and Application of FT-ICR Mass Spectrometry

Mass Spectrometry in the Life Sciences Award:

Prof. Dr. Jeroen Krijgsfeld
(German Cancer Research Center (DKFZ), Heidelberg/DE):
Awarded for the "Development of Proteomics MS Approaches to Study Chromatin- and RNA-bound Proteins"

Wolfgang-Paul-Prize for the best PhD thesis:

Dr. Tim Esser
(Prof. Dr. Knut R. Asmis, University of Leipzig/DE; at present University of Oxford/UK)
Worked on: "A Cryogenic Mass Spectrometer for Action Spectroscopy of Single Nanoparticles"

Wolfgang-Paul-Prize for the best Master thesis:

Carla Kirschbaum
(Prof. Dr. Kevin Pagel, FU Berlin/DE)
Worked on: "Characterization of Isomeric Glycolipids by Cryogenic Gas-Phase Infrared Spectroscopy"

DGMS Young Scientist Award:

Robin Schmid
(Prof. Dr. Uwe Karst, University of Münster/DE):
Worked on: "New Developments for Small Molecule Identification using Open Source Software"

Sunday, March 1, 2020

Workshops		Lecture Hall Buildings Chemistry and Physics
14:00 - 15:15	WORKSHOP 1, Part 1:	Hall O1
	Field Ionization, Field Desorption and Liquid Injection Field Desorption / Ionization Mathias H. Linden, H. Bernhard Linden, Jürgen Gross	
15:15 - 15:30	COFFEE BREAK / EXHIBITION / POSTERS	
15:30 - 16:45	WORKSHOP 1, Part 2:	Hall O1
	Field Ionization, Field Desorption and Liquid Injection Field Desorption / Ionization Mathias H. Linden, H. Bernhard Linden, Jürgen Gross	
14:00 - 15:15	WORKSHOP 2, Part 1:	Hall HS1
	Mass Spectrometry imaging: Multimodal Approaches Andreas Römpf, Bernhard Spengler	
15:15 - 15:30	COFFEE BREAK / EXHIBITION / POSTERS	
15:30 - 16:45	WORKSHOP 2, Part 2:	Hall HS1
	Mass Spectrometry imaging: Multimodal Approaches Andreas Römpf, Bernhard Spengler	
14:00 - 15:15	WORKSHOP 3, Part 1:	Hall A1
	PTB-Workshop: Enabling Comparable Measurement Results through the Implementation of a Metrological Infrastructure Claudia Swart, Gavin O'Connor	
15:15 - 15:30	COFFEE BREAK / EXHIBITION / POSTERS	
15:30 - 16:45	WORKSHOP 3, Part 2:	Hall A1
	PTB-Workshop: Enabling Comparable Measurement Results through the Implementation of a Metrological Infrastructure Claudia Swart, Gavin O'Connor	
14:00 - 15:15	WORKSHOP 4, Tutorial:	Hall HS2
	Introduction to liquid chromatography for mass spectrometry Waldemar Hoffmann, Michael Hoffmann und Martin Penkert	
15:15 - 15:30	COFFEE BREAK / EXHIBITION / POSTERS	
15:30 - 16:45	WORKSHOP 5:	Hall HS2
	ToF-SIMS and LEIS: Atomic and Molecular Characterisation of Surfaces and Interfaces Birgit Hagenhoff	

14:00 - 15:15	WORKSHOP 6, Part 1:	Hall C2
	Protein Modification and Expression Analysis Simone König	
15:15 - 15:30	COFFEE BREAK / EXHIBITION / POSTERS	
15:30 - 16:45	WORKSHOP 6, Part 2:	Hall C2
	Protein Modification and Expression Analysis Simone König	
15:30 - 16:45	WORKSHOP 7:	Room W043 (IAAC Building)
	Core Facilities Christof Lenz	
14:00 - 15:15	WORKSHOP 8, Part 1:	Hall C1
	Applications of Mass spectrometry in Pharmaceutical Industry Jürgen Schäfer, Nico Zinn	
15:15 - 15:30	COFFEE BREAK / EXHIBITION / POSTERS	
15:30 - 16:45	WORKSHOP 8, Part 2:	Hall C1
	Applications of Mass spectrometry in Pharmaceutical Industry Jürgen Schäfer, Nico Zinn	
16:45 - 17:00	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
17:00 - 17:20	Opening of DGMS and ICP-MS User's Meeting 2020	
17:20 - 18:00	Proteomes in 3D Paola Picotti, Zurich/CH	
18:00 - 18:15	Mattauch Herzog Award Session	
18:15 - 19:15	Wolfgang Paul Lecture: Orbitrap Mass Spectrometry on a Journey from the Past to the Future Alexander Makarov, Bremen/DE	
19:15 - 22:00	Welcome Reception	

Monday, March 2, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS 1
08:30 - 09:10	Environmental processes need the entire MS toolbox: imaging at cellular level and the combination of elemental and molecular mass spectrometry Jörg Feldmann, Aberdeen/UK; Eva Krupp; Andrea Raab	
Wolfgang Paul Study Award Session		Lecture Hall Building Physics: Hall HS 1
09:10 - 09:35	Wolfgang Paul Study Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 1: Proteomics - Basics		Lecture Hall C1
10:00 - 10:30	Oligoglycerol Detergents for Native Mass Spectrometry of Membrane Proteins Leonhard H. Urner, Oxford/UK; Ildir Liko; Rainer Haag; Kevin Pagel; Carol V. Robinson	
10:30 - 10:50	On-line electrochemical reduction of inter- and intramolecular disulfide bonds for antibody analysis Martijn VanDuijn, Rotterdam/NL; Pablo Sanz de la Torre; Jean Pierre Chervet; Theo Luider	
10:50 - 11:10	Fast-tracking QconCAT approach for absolute protein quantification Ignacy Rzagalinski, Dresden/DE; Bharath Kumar Raghuraman; Aliona Bogdanova; Andrej Shevchenko	
11:10 - 11:30	Small droplets for high numbers – approaches for microfluidic supported LC-MS based proteomics Andreas Tholey, Kiel/DE; Jan Leipert	
11:30 - 11:50	diaPASEF: label-free quantification of highly complex proteomes Scarlet Koch, Bremen/DE; Florian Meier; Andreas Brunner; Max Frank; Annie Ha; Stephanie Kaspar-Schoenefeld; Markus Lubeck; Oliver Raether; Ute Distler; Stefan Tenzer; Tejas Gandhi; Lukas Reiter; Hannes Roest; Ben Collins; Ruedi Aebersold; Matthias Mann	
11:50 - 12:50	LUNCH BREAK	
12:50 - 13:50	Vendor Seminars	

Monday, March 2, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS 1
08:30 - 09:10	Environmental processes need the entire MS toolbox: imaging at cellular level and the combination of elemental and molecular mass spectrometry Jörg Feldmann, Aberdeen/UK; Eva Krupp; Andrea Raab	
Wolfgang Paul Study Award Session		Lecture Hall Building Physics: Hall HS 1
09:10 - 09:35	Wolfgang Paul Study Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 2: Lipidomics I		Lecture Hall HS 1
10:00 - 10:30	Reactive MALDI mass spectrometry imaging enabling Paternò-Büchi functionalization for C=C bond localization in isomeric phospholipids Sven Heiles, Gießen/DE; Bernhard Spengler; Fabian Wäldchen	
10:30 - 10:50	MALDI-2 at atmospheric pressure – first results from parameter optimization and imaging experiments Marcel Niehaus, Teddington/UK; Kenneth N. Robinson; Efstathios Elia; Rory T. Steven; Bin Yan; Ian M. Race; Teresa Murta; Josephine Bunch	
10:50 - 11:10	Analysis of isomeric cardiolipin oxidation products by means of liquid chromatography and trapped ion mobility-mass spectrometry Patrick Olaf Helmer, Münster/DE; Edward Rudt; Arne Behrens; Uwe Karst; Heiko Hayen	
11:10 - 11:30	Approaches towards large-scale lipid quantification in untargeted analysis by class-specific surrogate calibration Bernhard Drotleff, Tübingen/DE; Tomáš Pluháček; Michael Lämmerhofer	
11:30 - 11:50	Accurate lipidome-wide quantification by Orbitrap FT MS/MS and fragment intensity adjustment Kai Schuhmann, Dresden/DE; HongKee Moon; Henrik Thomas; Michael Groessl; Nicolai Wagner; Markus Kellmann; Andre Nadler; Andrej Shevchenko	
11:50 - 12:50	LUNCH BREAK	
12:50 - 13:50	Vendor Seminars	

Monday, March 2, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS 1
08:30 - 09:10	Environmental processes need the entire MS toolbox: imaging at cellular level and the combination of elemental and molecular mass spectrometry <u>Jörg Feldmann, Aberdeen/UK</u> ; Eva Krupp; Andrea Raab	
Wolfgang Paul Study Award Session		Lecture Hall Building Physics: Hall HS 1
09:10 - 09:35	Wolfgang Paul Study Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 3: ICP-MS User's Meeting: Elemental Imaging		Lecture Hall HS2
10:00 - 10:30	Quantification strategies for elemental bio-imaging: progress, pitfalls and possibilities <u>David Clases, Sydney/AU</u> ; Raquel Gonzalez de Vega; Philip Doble	
10:30 - 10:50	Gd and La in pharmaceuticals: New insights into their in-body deposition mechanism by means of laser ablation ICP-MS <u>Patrick Bucker, Münster/DE</u> ; Henning Richter; Michael Sperling; Astrid Jeibmann; Uwe Karst	
10:50 - 11:10	Qualitative and Quantitative Imaging of Transition Metal Deposition and Lithium Distribution Patterns in Lithium Ion Batteries <u>Sascha Nowak, Münster/DE</u> ; Patrick Harte; Timo Schwieters; Martin Winter	
11:10 - 11:30	Plasma-driven X-ray Laser for Nano-Scale Ablation and Desorption <u>Davide Bleiner, Dübendorf/CH</u>	
11:30 - 11:50	ICP-ToF-MS <u>Phil Shaw, Leicester/UK</u>	
11:50 - 12:50	LUNCH BREAK	
12:50 - 13:50	Vendor Seminars	

Monday, March 2, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS 1
08:30 - 09:10	Environmental processes need the entire MS toolbox: imaging at cellular level and the combination of elemental and molecular mass spectrometry <u>Jörg Feldmann, Aberdeen/UK</u> ; Eva Krupp; Andrea Raab	
Wolfgang Paul Study Award Session		Lecture Hall Building Physics: Hall HS 1
09:10 - 09:35	Wolfgang Paul Study Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 4: Environmental MS		Lecture Hall C2
10:00 - 10:30	From the Ocean to the Clouds - Tracking Anthropogenic Pollutants in Sea Spray Aerosols <u>Daniel Petras, San Diego/USA</u> ; Matthew Pendergraft; Pedro Belda-Ferre; Clare Morris; Brock Mitts; Pieter Dorrestein; Kimberly Prather	
10:30 - 10:50	Resonance-Enhanced Detection of Metals in Aerosols using Single-Particle Mass Spectrometry <u>Julian Schade, Rostock/DE</u> ; Johannes Passig; Ellen Iva Rosewig; Robert Irsig; Thomas Kröger-Badge; Hendryk Czech; Martin Sklorz; Thorsten Streibel; Ralf Zimmermann	
10:50 - 11:10	Crude oil weathering: formation of tar precursors under UV irradiation <u>Oleksandra Kuzmich, Aachen/DE</u> ; Wolfgang Schrader	
11:10 - 11:30	Advanced Application of Desorption Electrospray Ionization Mass Spectrometry (DESI MS): Radionuclide Speciation in Plant Parts <u>Julia Stadler, Hannover/DE</u> ; Anna Kogiomtzigis; Michael Steppert; Moritz Schmidt; Clemens Walther	
11:30 - 11:50	Anwendungsmöglichkeiten der FT-ICR-MS zur Charakterisierung von Energierohstoffen und deren Konversionsprodukten <u>Jan Zuber, Freiberg/DE</u> ; Philipp Rathsack; Matthias Otto; Carla Vogt	
11:50 - 12:50	LUNCH BREAK	
12:50 - 13:50	Vendor Seminars	

Monday, March 2, 2020		Afternoon
Session 5: Proteomics - Clinical and biological applications		Lecture Hall C1
14:00 - 14:30	BirA* Mouse Lines for the Analysis of Cell Type-Specific Proteomes in vivo <u>Dominic Winter, Bonn/DE</u> ; Shiva Ahmadi; Elham Pourbarkhordariesfandabadi; Kenichi Kimura; Angela Egert; Martin Breitbach; Caroline Geissen; Michael Hesse; Bernd Fleischmann; Hubert Schorle; Volkmar Gieselmann	
14:30 - 14:50	In-depth Characterization of Glycated and Carbamylated Hemoglobin in Clinical Samples by Top-down Capillary Electrophoresis-Tandem Mass Spectrometry <u>Alexander Stolz, Aalen/DE</u> ; Liesa Salzer; Laurent Leclercq; Ylva Hedeland; Hervé Cottet; Jonas Bergquist; Christian Neusüß	
14:50 - 15:10	Investigation of the impact of functionally selective dopamine receptor D2 ligands on the cellular protein expression by untargeted nano-LC-MS/MS <u>Deborah Wenk, Erlangen/Nürnberg/DE</u> ; Vladimir Ignatchenko; Andrew Macklin; Harald Hübner; Peter Gmeiner; Monika Pischetsrieder; Thomas Kislinger	
15:10 - 15:30	Analysis of Wheat Proteins by LC-HRMS/MS to elucidate the Human Gastrointestinal Metabolism in an in-vitro Model <u>Julia Bräcker, Stuttgart/DE</u> ; Andrea Goncalves Peca; Jens Brockmeyer	
15:30 - 15:50	Excellent sensitivity through excellent recovery – ERLIC for absolute quantification of low abundant protein phosphorylation events in cancer patient tissue <u>Albert Sickmann, Dortmund/DE</u> ; Stefan Loroch	
15:50 - 16:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
16:20 - 17:00	Exploring the Journey of Proteins from Solution into the Gas Phase during ESI <u>Lars Konermann, London/CA</u> ; Haidy Metwally; Quentin Duez; Insa Peters; Leanne M. Martin	
17:10 - 18:00	Poster Session I Authors of posters with EVEN number are requested to present their posters	
18:00 - 19:00	DGMS Board Meeting	Room W043 (IAAC Building)
19:00 - 21:00	Poster Evening with beer and pretzels	

Monday, March 2, 2020		Afternoon
Session 6: Imaging		Lecture Hall HS1
14:00 - 14:30	Surface Mass Spectrometry (SIMS): Where We Are and Where We Need to Go <u>Birgit Hagenhoff, Münster/DE</u>	
14:30 - 14:50	Proteomic profiles of breast cancer tumor subpopulations defined by MALDI guided SpatialOMx on a timsTOF flex <u>Janina Oetjen, Bremen/DE</u> ; Annika Koch; Romano Hebel; Frédéric Dewez; Corinna Henkel; Benjamin Balluff; Ron Heeren	
14:50 - 15:10	High resolution atmospheric-pressure mass spectrometry imaging of biological samples using a matrix-free ionization-assisting DIUTHAME foil <u>Max Alexander Müller, Gießen/DE</u> ; Dhaka Bhandari; Kerstin Strupat; Bernhard Spengler	
15:10 - 15:30	SPICing up your MALDI image: Soft and versatile post-ionization for enhanced ion yields of numerous analyte classes in MALDI-Single-Photon-Induced-Chemical Ionization-MSI <u>Christoph Bookmeyer, Münster/DE</u> ; Jens Soltwisch; Ulrich Röhlings; Klaus Dreisewerd	
15:30 - 15:50	Integrating high resolution MALDI imaging into the development pipeline of anti-Tuberculosis drugs <u>Axel Treu, Bayreuth/DE</u> ; Julia Kokesch-Himmelreich; Alan Race; Kerstin Walter; Christoph Hölscher; Andreas Römpf	
15:50 - 16:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
16:20 - 17:00	Exploring the Journey of Proteins from Solution into the Gas Phase during ESI <u>Lars Konermann, London/CA</u> ; Haidy Metwally; Quentin Duez; Insa Peters; Leanne M. Martin	
17:10 - 18:00	Poster Session I Authors of posters with EVEN number are requested to present their posters	
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Monday, March 2, 2020		Afternoon
Session 7: ICP-MS User's Meeting: Nano- / Bio-analysis		Lecture Hall HS2
14:00 - 14:30	Advances in single particle ICP-MS: dead time correction increases linear response and particles size coverage Carsten Engelhard, Siegen/DE; Ingo Strenge; Darya Mozhayeva; Annika Schardt; Antonio Montoro Bustos; Karen Murphy	
14:30 - 14:50	Investigating the biodistribution and long-term fate of ⁵⁷Fe-enriched iron oxide nanoparticles by means of LA-ICP-MS Rebecca Buchholz, Münster/DE; Max Masthoff; Andre Beuker; Katharina Kronenberg; Moritz Wildgruber; Cornelius Faber; Uwe Karst	
14:50 - 15:10	Sulphur isotope dilution ICP-MS for traceable protein quantification: application on an Alzheimer's biomarker Nora Lemke, Berlin/DE; Ahmed H. El-Khatib; Franz Theuring; Norbert Jakubowski; Jochen Vogl	
15:10 - 15:30	Pushing the limits – Low level Ca isotopic analysis using DS TIMS in biological tissues Anika Retzmann, Leoben/AT; Dorothy Walls; Kerri A. Miller; Johanna Irrgeher; Thomas Prohaska; Michael Wieser	
15:30 - 15:50	Analytical aspects and challenges associated with the analysis of arsenolipids in biological samples employing HPLC/mass spectrometry Michael Stiboller, Potsdam/DE; Georg Raber; Barbara Hertel; Sophie Scholz; Ariane Cofré; Kevin A. Francesconi; Tanja Schwerdtle	
15:50 - 16:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
16:20 - 17:00	Exploring the Journey of Proteins from Solution into the Gas Phase during ESI Lars Konermann, London/CA; Haidy Metwally; Quentin Duez; Insa Peters; Leanne M. Martin	
17:10 - 18:00	Poster Session I Authors of posters with EVEN number are requested to present their posters	
18:00 - 19:00	DGMS Board Meeting	Room W043 (IAAC Building)
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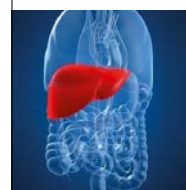
Roxy Exceed

Electrochemistry System for EC-MS

NEW



Proteomics



Metabolism



Drug Stability



Environmental



Synthesis



Monday, March 2, 2020		Afternoon
Session 8: Instrumentation I		Lecture Hall C2
14:00 - 14:30	Liquid AP-MALDI MS and its potential in high-speed sample analysis Rainer Cramer, Reading/UK; Henriette Krenkel; Cristian Piras; Jeffery Brown; Michael Morris	
14:30 - 14:50	New developments in Two-Dimensional Mass Spectrometry (2DMS) Christopher A. Wootton, Warwick/UK; Tomos E. Morgan; Bryan P. Marzullo; Yuko P.Y. Lam; Alina Theisen; Dianna C.; Palacio Lozano; Anisha Haris; Mark P. Barrow; Peter B. O'Connor	
14:50 - 15:10	Multiple Stage Tandem Mass Spectrometry of Protein Ions in the Omnitrap Platform Involving Variable Energy Electrons and Hydrogen Atoms. Dimitrios Papanastasiou, Agia Paraskevi/GR; Mariagela Kosmopoulou; Athanasios Smyrnakis; Roman Zubarev	
15:10 - 15:30	Gas Chromatography-Field Ionization Coupling with Acquisition-Synchronized Emitter Flash Heating on an Orthogonal Acceleration Time-of-Flight Instrument Jürgen H. Gross, Heidelberg/DE; Mathias H. Linden; H. Bernhard Linden; Norbert Nieth	
15:30 - 15:50	Thermogravimetry atmospheric pressure photoionization mass spectrometry (TG-APPI-MS): Development and Applications Florian Uteschil, Essen/DE; Dominik Brecht; Oliver J. Schmitz	
15:50 - 16:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
16:20 - 17:00	Exploring the Journey of Proteins from Solution into the Gas Phase during ESI Lars Konermann, London/CA; Haidy Metwally; Quentin Duez; Insa Peters; Leanne M. Martin	
17:10 - 18:00	Poster Session I Authors of posters with EVEN number are requested to present their posters	
18:00 - 19:00	DGMS Board Meeting	Room W043 (IAAC Building)
19:00 - 21:00	Poster Evening with beer and pretzels	

Monday, March 2, 2020		Afternoon
Special Session: Science Management		Lecture Hall A1
14:00 - 14:30	DFG-Empfehlungen für die Beantragung und Nutzung von Massenspektrometern an Hochschulen (DFG recommendations for the application and use of mass spectrometers at universities) Manfred Mürtz, Bonn/DE; German Research Foundation (DFG)	
14:30 - 15:00	From Open Access to Publish and Read models. The evolution of journal access. Paul E. Trevorrow, Emsworth/UK; Wiley	
15:50 - 16:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
16:20 - 17:00	Exploring the Journey of Proteins from Solution into the Gas Phase during ESI Lars Konermann, London/CA; Haidy Metwally; Quentin Duez; Insa Peters; Leanne M. Martin	
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18:00 - 19:00	DGMS Board Meeting	Room W043 (IAAC Building)
19:00 - 21:00	Poster Evening with beer and pretzels	

Tuesday, March 3, 2020		Morning
Plenary Session		Lecture Hall Building Chemistry: Hall C1
08:30 - 09:10	Adventures with Dynamic and Disordered Systems and Joy Perdita Barran, Manchester/UK	
Mass Spectrometry in the Life Sciences Award		Lecture Hall Building Chemistry: Hall C1
09:10 - 09:35	Mass Spectrometry in the Life Sciences Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 9: Imaging II		Lecture Hall C1
10:00 - 10:30	Molecular signatures during plant-pathogen interaction Dhaka Ram Bhandari, Gießen/DE ; Laura Righetti; Sven Gottwald; Chiara Dall'Asta; Bernhard Spengler	
10:30 - 10:50	Sub-micron 3D imaging combined with automated, high mass resolution MS/MS Alexander Pirkl, Münster/DE ; Henrik Arlinghaus; Daniel Breitenstein; Karsten Lamann; Elke Tallarek; Birgit Hagenhoff; Ewald Niehuis	
10:50 - 11:10	Probing accelerated ageing of pea (<i>Pisum sativum</i>) root nodules by mass spectrometric techniques Ahyoung Kim, Halle a. d. Saale/DE ; Steffen Breinlinger; Alexander Tsarev; Veronika Popova; Tatiana Bilova; Timo Niedermeyer; Ludger A. Wessjohann; Andrej Frolov	
11:10 - 11:30	Laser-induced post-ionization for the enhanced MALDI-2-MS analysis of N-glycans Bram Heijs, Münster/DE ; Alexander Potthoff; Hans Dalebout; Jens Soltwisch; Klaus Dreisewerd	
11:30 - 12:30	LUNCH BREAK	
11:30 - 12:30	Young Scientists Meeting	Room W043 (IAAC Building)
12:30 - 13:30	Vendor Seminars	

Tuesday, March 3, 2020		Morning
Plenary Session		Lecture Hall Building Chemistry: Hall C1
08:30 - 09:10	Adventures with Dynamic and Disordered Systems and Joy Perdita Barran, Manchester/UK	
Mass Spectrometry in the Life Sciences Award		Lecture Hall Building Chemistry: Hall C1
09:10 - 09:35	Mass Spectrometry in the Life Sciences Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 10: Lipidomics II		Lecture Hall HS1
10:00 - 10:30	Lipidomics informatics for life-science Robert Ahrends, Wien/AT ; Nils Hoffmann; Fadi Al Machot; Jacobo Miranda Ackermann; Andrej Shevchenko; Dominik Schwudke	
10:30 - 10:50	Lipid Data Analyzer: Identification of lipids by decision rule sets Harald Köfeler, Graz/AT ; Jürgen Hartler	
10:50 - 11:10	A LUX Score-Based Lipidome Comparison of Lung Tissue of Humans, Mice, Pig and Sheep Using a Dedicated Template SMILES Generator Fadi Al Machot, Borstel/DE ; Daniel Krause; Dominik Schwudke	
11:10 - 11:30	Lipidomic analysis of muscle and adipose tissue from lambs fed diets supplemented with microalgae Beate Fuchs, Dummerstorf/DE ; Dirk Dannenberger; Susana Alves	
11:30 - 12:30	LUNCH BREAK	
11:30 - 12:30	Young Scientists Meeting	Room W043 (IAAC Building)
12:30 - 13:30	Vendor Seminars	

Tuesday, March 3, 2020		Morning
Plenary Session		Lecture Hall Building Chemistry: Hall C1
08:30 - 09:10	Adventures with Dynamic and Disordered Systems and Joy <u>Perdita Barran, Manchester/UK</u>	
Mass Spectrometry in the Life Sciences Award		Lecture Hall Building Chemistry: Hall C1
09:10 - 09:35	Mass Spectrometry in the Life Sciences Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 11: ICP-MS User's Meeting: Environment I		Lecture Hall HS2
10:00 - 10:30	Application of multiple ICP-MS based approaches to decipher the chemical Anthropocene – from legacy pollution to new inorganic emerging contaminants <u>Daniel Pröfrock, Geesthacht/DE</u> ; Anna Reese; Lars Hildebrandt; Tristan Zimmermann; Fenna Nack; Ole Klein; Claudia Elena Schmidt	
10:30 - 10:50	Emerging Environmental Contaminants - Niches for research based on ICP-MS <u>Petra Krystek, Utrecht/NL</u>	
10:50 - 11:10	On-line hyphenation of CE with multicollector-ICP-MS for species-specific isotopic analysis of sulfur <u>Sebastian Faßbender, Berlin/DE</u> ; Katerina Rodiouchkina; Frank Vanhaecke; Björn Meermann	
11:10 - 11:30	Automated speciation analysis of gadolinium-based contrast agents in surface and drinking waters <u>Marcel Macke, Münster/DE</u> ; C. Derrick Quarles Jr.; Uwe Karst	
11:30 - 12:30	LUNCH BREAK	
11:30 - 12:30	Young Scientists Meeting	Room W043 (IAAC Building)
12:30 - 13:30	Vendor Seminars	

Tuesday, March 3, 2020		Morning
Plenary Session		Lecture Hall Building Chemistry: Hall C1
08:30 - 09:10	Adventures with Dynamic and Disordered Systems and Joy Perdita Barran, Manchester/UK	
Mass Spectrometry in the Life Sciences Award		Lecture Hall Building Chemistry: Hall C1
09:10 - 09:35	Mass Spectrometry in the Life Sciences Award Ceremony and Award Lecture	
09:35 - 10:00	COFFEE BREAK / EXHIBITION / POSTERS	
Session 12: Affinity		Lecture Hall C2
10:00 - 10:30	Unraveling the Three-dimensional Molecular Recognition Codes of Experimental and Diagnostic Antibodies by Mass Spectrometry <u>Michael O. Glocker, Rostock/DE</u> ; Bright D. Danquah; Claudia Röwer; Kwabena F.M. Opuni; Reham A. El-Kased; Cornelia Koy	
10:30 - 10:50	FcγR affinity chromatography – MS for structure-function analysis of proteoforms of therapeutic antibodies <u>David Falck, Leiden/NL</u> ; Lippold Steffen; Simone Nicolardi; Elena Domínguez-Vega; Gestur Vidarsson; Manfred Wuhrer	
10:50 - 11:10	Molecular Epitope Determination of Aptamer Complexes of the Multi-domain Protein C-Met by Proteolytic Affinity- Mass Spectrometry <u>Loredana-Mirela Lupu, Rüsselsheim/DE</u> ; Pascal Wiegand; Nico Hüttmann; Stephan Rawer; Wolfgang Kleinekofort; Irina Shugureva; Anna S Kichkailo; Felix N. Tomilin; Alexander Lazarev; Maxim V. Berezovski; Michael Przybylski	
11:10 - 11:30	Epitope Identification and Affinity Determination of an Inhibiting Human Antibody to Interleukin 8 (IL8) by SPR-Biosensor-Mass Spectrometry Combination <u>Pascal Wiegand, Rüsselsheim/DE</u> ; Nico Hüttmann; Julia Wack; Loredana Lupu; Katja Schmitz; Stephan Rawer; Michael Przybylski	
11:30 - 12:30	LUNCH BREAK	
11:30 - 12:30	Young Scientists Meeting	Room W043 (IAAC Building)
12:30 - 13:30	Vendor Seminars	

Tuesday, March 3, 2020		Afternoon	
13:30 - 15:00	Poster Session II Authors of posters with ODD number are requested to present their posters		
Session 13: Proteomics - Structural & Functional Proteomics		Lecture Hall C1	
15:00 - 15:30	RNP-ID generates a picture of the molecular interactions during shuttling and mRNP export Florian Martin Richter, Mainz/DE; Anfisa Solovyeva; Ilka Wittig; Michaela Müller-McNicoll		
15:30 - 15:50	Structural analysis of interaction between lecithin:cholesterol acyltransferase bound to the apolipoprotein A-I belt of high density lipoprotein particles Lolita Piersimon, Halle-Wittenberg/DE; Kelly A. Manthei; Dhableswar Patra; Christopher J. Wilson; Maria V. Fawaz; Jenny Shenkar; Wenmin Yuan; Philip C. Andrews; John R. Engen; Anna Schwendeman; Melanie D. Ohi; John J.G. Tesmer		
15:50 - 16:10	First Draft of the Human Lysosomal Interactome by Cross-Linking MS Reveals Novel Interactions and Structures Jasjot Singh, Bonn/DE; Volkmar Gieselmann; Hadeer Elhabashy; Oliver Kohlbacher; Dominic Winter		
16:10 - 16:30	MHC class I peptide binding monitored by native MS Janine-Denise Kopicki, Hamburg/DE; Raghavendra Anjanappa; Maria Garcia-Alai; Julia Lockhauserbäumer; Rob Meijers; Sebastian Springer; Charlotte Uetrecht		
16:30 - 16:50	The Impact of Immunoglobulin G1 Fc Sialylation on Backbone Amide H/D Exchange Felix Kuhne, Münster/DE; Lea Bonnington; Sebastian Malik; Marco Thomann; Cecile Avenal; Florian Cymer; Harald Wegele; Dietmar Reusch; Michael Mormann; Patrick Bulau		
16:50 - 17:20	COFFEE BREAK / EXHIBITION / POSTERS		
Plenary Session		Lecture Hall Building Physics: Hall HS1	
17:20 - 18:00	Ironing out environmental metal cycles with FTMS Rene Boiteau, Corvallis/USA		
18:00 - 19:15	DGMS Members' Meeting		Hall HS1
19:15	Bus Transfer to Münster Zoo		
19:30 - 23:30	Conference Dinner at Münster Zoo (Opportunity of Guided Tours)		

Tuesday, March 3, 2020		Afternoon	
13:30 - 15:00	Poster Session II Authors of posters with ODD number are requested to present their posters		
Session 14: Metabolomics		Lecture Hall HS1	
15:00 - 15:30	New Developments for Small Molecule Identification using Open Source Software (DGMS Young Scientist Award) Robin Schmid, Münster/DE; Daniel Petras; Louis Felix Nothias; Ming Wang; Ansgar Korf; Florian Hübner; Tomáš Pluskal; Pieter Dorrestein; Uwe Karst		
15:30 - 15:50	„Shotgun” High-Throughput Untargeted Metabolomics Jörg Schlotterbeck, Darmstadt/DE; Mariateresa Maldini; Eva Duchoslav; Cyrus Papan; Khatereh Motamedchabok		
15:50 - 16:10	Orbitrap Fusion method development for the targeted and non-targeted screening of coenzyme A thioesters Nevenka Cakić, Oldenburg/DE; Bernd Kopke; Ralf Rabus; Heinz Wilkes		
16:10 - 16:30	Investigation of genetically determined metabolome changes in Arabidopsis thaliana by capillary ion chromatography-MS Hannah Schöttler, Münster/DE; Heiko Hayen		
16:30 - 16:50	Targeted HILIC-MS/MS of Foodborn Methylamines: Fermented Dairy and Indirect TMAO Ralf Krüger, Karlsruhe/DE; Kathryn J. Burton; Benedikt Merz; Tim Roggensack; Valentin Scherz; Linda H. Münger; Manuela J. Rist; Gianfranco Picone; Nathalie Vionnet; Claire Bertelli; Gilbert Greub; Francesco Capozzi; Achim Bub; Guy Vergères		
16:50 - 17:20	COFFEE BREAK / EXHIBITION / POSTERS		
Plenary Session		Lecture Hall Building Physics: Hall HS1	
17:20 - 18:00	Ironing out environmental metal cycles with FTMS Rene Boiteau, Corvallis/USA		
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Tuesday, March 3, 2020		Afternoon
13:30 - 15:00	Poster Session II Authors of posters with ODD number are requested to present their posters	
Session 15: ICP-MS User's Meeting: Environment II		Lecture Hall HS2
15:00 - 15:30	Metal based pollutant assessment via diatoms - new possibilities via automated single cell-ICP-ToF-MS <u>Björn Meermann, Berlin/DE</u> ; Marcus Von der Au; Olga Borovinskaya; Claudia Büchel	
15:30 - 15:50	Low level analysis for high level nuclear waste disposal: CE- and LC-ICP-MS as tools for analysing metal mobility in clay <u>Ralf Kautenburger, Saarbrücken/DE</u> ; Kristina Brix; Sandra Baur; Christina Hein	
15:50 - 16:10	Boron and strontium isotope ratio analysis of the Rhine river – tracer for anthropogenic boron emissions? <u>Tristan Zimmermann, Geesthacht/DE</u> ; Ole Klein; Anna Reese; Johanna Irrgeher; Daniel Prüfrock	
16:10 - 16:30	Investigation of mass-scale drift effects in HR-MC-ICP-MS: Influence on isotope ratio measurements at the limits <u>Axel Pramann, Braunschweig/DE</u> ; Janine Noordmann; Olaf Rienitz	
16:30 - 16:50	On the Trace (Level) of a high-level nuclear waste Disposal – Retention of Cs⁺, Eu³⁺ and UO₂²⁺ on Ca-Bentonite <u>Kristina Brix, Saarbrücken/DE</u> ; Christina Hein; Sandra Baur; Traudel Allgayer; Ralf Kautenburger	
16:50 - 17:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Physics: Hall HS1
17:20 - 18:00	Ironing out environmental metal cycles with FTMS <u>Rene Boiteau, Corvallis/USA</u>	
18:00 - 19:15	DGMS Members' Meeting	Hall HS1
19:15	Bus Transfer to Münster Zoo	
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Tuesday, March 3, 2020		Afternoon
13:30 - 15:00	Poster Session II Authors of posters with ODD number are requested to present their posters	
Session 16: Ions at Next Generation Light Sources		Lecture Hall C2
15:00 - 15:30	Gas-phase biomolecules at advanced light sources <u>Sadia Bari, Hamburg/DE</u>	
15:30 - 15:50	Orienting electrosprayed protein complexes for single particle imaging using X-ray free electron lasers <u>Erik Gustav Marklund, Uppsala/S</u> ; Carl Caleman	
15:50 - 16:10	Revealing the make-up of substituted polycyclic aromatic hydrocarbons by discharge sources <u>Donatella Loru, Hamburg/DE</u> ; Daniël B. Rap; Johannes M. M. Thunnissen; Alexander K. Lemmens; Sébastien Gruet; Amanda L. Steber; Anouk M. Rijs; Melanie Schnell	
16:10 - 16:30	Direct effects of ionizing radiation on biological molecular systems <u>Jean-Christophe Pouilly, Caen/FR</u> ; Marwa Abdelmouleh; Wen Li; Xin Wang; Mathieu Lalonde; Violaine Vizcaino; Thomas Schlathölter	
16:30 - 16:50	Resolving Structural Details of Isomeric Glycolipids by Cryogenic Gas-Phase Infrared Spectroscopy <u>Carla Kirschbaum, Berlin/DE</u> ; Kevin Pagel	
16:50 - 17:20	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Physics: Hall HS1
17:20 - 18:00	Ironing out environmental metal cycles with FTMS <u>Rene Boiteau, Corvallis/USA</u>	
18:00 - 19:15	DGMS Members' Meeting	Hall HS1
19:15	Bus Transfer to Münster Zoo	
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Wednesday, March 4, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS1
09:00 - 09:40	Labelled Antibodies and ICP-MS Linked Immunoassays for Quantitative Analysis of Cell Biomarkers: Remaining Challenges <u>María Montes-Bayón, Oviedo/ES</u> ; Mario Corte; Daniel Turiel; Alejandro Fernández; Elisa Blanco; Jörg Bettmer	
09:40 - 10:20	Ion Spectroscopy in the Service of Metal Organic Chemistry <u>Jana Roithova, Nijmegen/NL</u>	
10:20 - 10:40	COFFEE BREAK / EXHIBITION / POSTERS	
Session 17: Metabolomics / Glycomics / Proteomics		Lecture Hall C1
10:40 - 11:10	A combination of proteomics and metabolomics techniques in characterization of age-related changes in legume root nodule <u>Andrej Frolov, Halle a. d. Saale/DE</u> ; Tatiana Bilova; Christian Ihling	
11:10 - 11:30	GlycoDIA: Gene Editing and Advanced Mass Spectrometry for O-Glycoproteomics to bridge Next Generation O-glycoproteomics <u>Sergey Vakhrushev, Copenhagen/DK</u> ; Zilu Ye; Yang Mao; Henrik Clausen	
11:30 - 11:50	High resolution multiple-reaction-monitoring (MRMHR) time-of-flight mass spectrometry to detect cyclolinopeptides in urine and blood after linseed consumption <u>Susanne Wudy, Munich/DE</u> ; Roman Lang; Tatjana Lang; Oliver Frank; Gaby Andersen; Thomas Skurk; Thomas Hofmann; Karin Kleigrew	
11:50 - 12:10	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
12:10 - 12:50	What's In My Drinking Water? Revealing the Chemicals We Can't See <u>Susan Richardson, Columbia/USA</u>	
12:50 - 13:30	Poster Awards and Closing Ceremony	
13:30 - 14:30	Farewell Reception	

Wednesday, March 4, 2020		Morning
Plenary Session		Lecture Hall Building Phy- sics: Hall HS1
09:00 - 09:40	Labelled Antibodies and ICP-MS Linked Immunoassays for Quantitative Analysis of Cell Biomarkers: Remaining Challenges <u>María Montes-Bayón, Oviedo/ES</u> ; Mario Corte; Daniel Turiel; Alejandro Fernández; Elisa Blanco; Jörg Bettmer	
09:40 - 10:20	Ion Spectroscopy in the Service of Metal Organic Chemistry <u>Jana Roithova, Nijmegen/NL</u>	
10:20 - 10:40	COFFEE BREAK / EXHIBITION / POSTERS	
Session 18: Ion Physics and Chemistry		Lecture Hall HS1
10:40 - 11:10	Gas-phase fragmentation of metallo-supramolecular aggregates <u>Marianne Engeser, Bonn/DE</u>	
11:10 - 11:30	A First Principle Model of Differential Ion Mobility: the Effect of Ion-Solvent Clustering <u>Alexander Haack, Wuppertal/DE</u> ; W. Scott Hopkins; Thorsten Benter	
11:30 - 11:50	Gas-Phase Chemistry in the GC Orbitrap Mass Spectrometer <u>Nico Ueberschaar, Jena/DE</u> ; Tim U. H. Baumeister; Georg Pohnert	
11:50 - 12:10	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Che- mistry: Hall C1
12:10 - 12:50	What's In My Drinking Water? Revealing the Chemicals We Can't See <u>Susan Richardson, Columbia/USA</u>	
12:50 - 13:30	Poster Awards and Closing Ceremony	
13:30 - 14:30	Farewell Reception	

Wednesday, March 4, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS1
09:00 - 09:40	Labelled Antibodies and ICP-MS Linked Immunoassays for Quantitative Analysis of Cell Biomarkers: Remaining Challenges <u>Maria Montes-Bayón, Oviedo/ES</u> ; Mario Corte; Daniel Turiel; Alejandro Fernández; Elisa Blanco; Jörg Bettmer	
09:40 - 10:20	Ion Spectroscopy in the Service of Metal Organic Chemistry <u>Jana Roithova, Nijmegen/NL</u>	
10:20 - 10:40	COFFEE BREAK / EXHIBITION / POSTERS	
Session 19: Forensics		Lecture Hall HS2
10:40 - 11:10	Metabolite identification studies of trenbolone by hydrogen isotope ratio mass spectrometry and LC-HRMS for doping control analysis <u>Marlen Putz, Cologne/DE</u> ; Thomas Piper; Thevis Mario	
11:10 - 11:30	Identification of Tattoo Pigments in Human Skin Samples by Mass Spectral Library Matching and μXRF <u>Corinna Brungs, Münster/DE</u> ; Robin Schmid; Carina Wolf; Sebastiaan van der Bent; Uwe Karst	
11:30 - 11:50	First steps towards uncovering gene doping with CRISPR/Cas9 <u>Alina Paßreiter, Cologne/DE</u> ; Andreas Thomas; Katja Walpurgis; Mario Thevis	
11:50 - 12:10	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
12:10 - 12:50	What's In My Drinking Water? Revealing the Chemicals We Can't See <u>Susan Richardson, Columbia/USA</u>	
12:50 - 13:30	Poster Awards and Closing Ceremony	
13:30 - 14:30	Farewell Reception	

Wednesday, March 4, 2020		Morning
Plenary Session		Lecture Hall Building Physics: Hall HS1
09:00 - 09:40	Labelled Antibodies and ICP-MS Linked Immunoassays for Quantitative Analysis of Cell Biomarkers: Remaining Challenges <u>Maria Montes-Bayón, Oviedo/ES</u> ; Mario Corte; Daniel Turiel; Alejandro Fernández; Elisa Blanco; Jörg Bettmer	
09:40 - 10:20	Ion Spectroscopy in the Service of Metal Organic Chemistry <u>Jana Roithova, Nijmegen/NL</u>	
10:20 - 10:40	COFFEE BREAK / EXHIBITION / POSTERS	
Session 20: Instrumentation II		Lecture Hall C2
10:40 - 11:10	Interfacing droplet chips to mass spectrometry <u>Detlev Belder, Leipzig/DE</u>	
11:10 - 11:30	Miniaturized combination of Nano-Electrospray and Flexible Microtube Plasma (FμTP) as ionization source for mass spectrometry <u>Daniel Foest, Dortmund/DE</u> ; Sebastian Brandt; Michael Schilling; Carolin Drees; Felix David Klute; Alexander Knodel; Joachim Franzke	
11:30 - 11:50	Cyclic ion mobility spectrometry coupled to high-resolution time-of-flight mass spectrometry — Prospects for complex mixture analysis <u>Christopher Rüger, Rostock/DE</u> ; Johann Le Maître; Martin Palmer; Eleanor Riches; Carlos Afonso; Pierre Giusti	
11:50 - 12:10	COFFEE BREAK / EXHIBITION / POSTERS	
Plenary Session		Lecture Hall Building Chemistry: Hall C1
12:10 - 12:50	What's In My Drinking Water? Revealing the Chemicals We Can't See <u>Susan Richardson, Columbia/USA</u>	
12:50 - 13:30	Poster Awards and Closing Ceremony	
13:30 - 14:30	Farewell Reception	

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Affinity Mass Spectrometry

- AFF-01** **Epitope Identification and Affinity Characterization of Myoglobin by online combination of SPR biosensor analysis and ESI Mass Spectrometry**
Delia Mihoc, Rüsselsheim/DE; Loredana Lupu; Pascal Wiegand; Michael Przybylski; Oliver Müller; Friedemann Völklein; Michael Glocker; Frederik Barka; Günes Barka
- AFF-02** **Characterization of Primary structure and microheterogeneity of polypeptide of Paracelsin A and Trichotoxin A by MALDI-MS**
Rana Boustani, Rüsselsheim/DE; Loredana Lupu; Thomas Degenklob; Hans Brückner; Michael Przybylski
- AFF-03** **Immunepeptide: New Approaches for Enzyme Replacement Therapy of Lysosomal Diseases with high Immunogenicity by Mass Spectrometric Identification of Antibody Epitopes**
Pascal Wiegand, Rüsselsheim/DE; Stefan Maeser; Zdenek Kukacka; Loredana Lupu; Christina Uth; Sascha Knauer; Andreas Hahn; Julia B. Hennermann; Michael Przybylski
- AFF-04** **Novel analytical approach for food allergen detection: Aptamer-based affinity purification of peptide biomarkers before analysis via tandem mass spectrometry**
Marion Fresch, Stuttgart/DE; Jens Brockmeyer
- AFF-05** **Intact Transition Epitope Mapping - Thermodynamic Weak-force Order (ITEM-TWO) applied to Troponin I antigen epitopes with single amino-acid residue mutations.**
Claudia Röwer, Rostock/DE; Bright D. Danquah; Kwabena F.M. Opuni; Cornelia Koy; Michael O. Glocker; Reham F. El-Kased
- AFF-06** **Epitope identification and affinity quantification of protein- ligand interactions using online SPR-biosensor- ESIMS**
Loredana-Mirela Lupu, Rüsselsheim/DE; Pascal Wiegand; Delia Mihoc; Oliver Müller; Friedemann Völklein; Frederik Barka; Günes Barka; Michael Przybylski

Environmental and Forensic Mass Spectrometry

- ENV-01** **HR-CS-GF-MAS as a new screening method for emerging pollutants – per- and polyfluorinated substances in the environment**
Marcus von der Au, Berlin/DE; Lennart Gehrenkemper; Matthias Metzger; Björn Meermann
- ENV-02** **Development of an ETV/ICP-MS method as a powerful and complementary tool for single organism metal analysis in ecotoxicological tests**
Marcus von der Au, Berlin/DE; Hannah Karbach; Björn Meermann
- ENV-03** **Lysergic Acid Diethylamide (LSD) Analogues Investigated by ToF-SIMS and Orbitrap-SIMS**
Daniel Breitenstein, Münster/DE; Karsten Lamann; Elias Luetzen; Elke Tallarek; Uwe Karst; Alexander Pirkel; Ewald Niehuis; Birgit Hagenhoff
- ENV-04** **Microplastic Analyzed by Secondary Ion Mass Spectrometry**
Karsten Lamann, Münster/DE; Daniel Breitenstein; Elke Tallarek; Uwe Karst; Birgit Hagenhoff
- ENV-05** **Cleaning the River Clun: targeted and non-targeted screening**
Sven Meyer, Bremen/DE; Anthony Gravell; Melanie Schumacher; Bob Galvin; Carsten Baesmann

ENV-06	online uSPE forensics <u>Arnd Ingendoh, Bremen/DE</u> ; Marina Schumacher; Birgit Schneider; Laura M. Huppertz; Jürgen Kempf; Michaela Schmidt
ENV-07	Metabolism Simulation of Designer Drugs by means of Electrochemistry/Mass Spectrometry <u>Oxana Korzhenko, Münster/DE</u> ; Uwe Karst
ENV-08	Characterization and Quantification of organic and inorganic compounds from Chinese and Iranian Aerosol Filter Samples by MS Imaging and ICP-MS <u>Christof Barth, Giessen/DE</u> ; Klaus-Peter Hinz; Bernhard Spengler
ENV-09	C-IRMS concept development for online GC investigations for industrial utilisation of low concentrated methane <u>Sebastian Schröder, Cologne/DE</u> ; Ronny Cieplik; Astrid Rehorek
ENV-10	Mass spectrometric investigation of the interactions of Gd3+-ions with biomolecules <u>Karolin Sommer, Münster/DE</u> ; Uwe Karst
ENV-11	Analysis of mycotoxins in indoor samples using UHPLC-MS/MS <u>Viktoria Lindemann, Münster/DE</u> ; Joana Katharina Hillen; Benedikt Cramer; Hans-Ulrich Humpf
ENV-12	Using Free, High-Performance, Computer Modeling Software to Simulate Gas Chromatographic Separations <u>Christian Weyer, Bad Homburg/DE</u> ; Jaap de Zeeuw; Chris Rattray; Chris Nelson; Scott Adams; Kristi Sellers
ENV-13	Quantitation of Mycotoxins in Four Food Matrices Comparing Stable Isotope Dilution Assay (SIDA) with Matrix Matched Calibration Methods by LC-MS/MS <u>Christian Weyer, Bad Homburg/DE</u> ; Dan Li; Justin Steimling; Joseph Konschnik; Ty Kahler
ENV-14	A Novel, and Versatile Hybrid HILIC and Ion Exchange Column for the Separation of a Wide Range of Polar Compounds <u>Christian Weyer, Bad Homburg/DE</u> ; Connor Flannery; Xiaoning Lu; Vernon C. Bartlett; Ahren Green; Terry S. Reid
ENV-15	The Analysis of Acrylamide Using an Aqueous Compatible Reversed-Phase Column by LC-MS/MS Detection <u>Christian Weyer, Bad Homburg/DE</u> ; Landon A. Wiest; Paul Connolly; Joe Konschnik
ENV-16	Analysis of Ultrashort-Chain and Alternative PFAS: LC-MS/MS Method Development and Application to Water Samples <u>Christian Weyer, Bad Homburg/DE</u> ; Shun-Hsin Liang; Justin Steimling; Mike Chang; Paul Connolly
ENV-17	Proven consistency in PFAS analytical workflow with extended compound list <u>Christian Weyer, Bad Homburg/DE</u> ; Mike Chang; Shun-Hsin Liang; Justin Steimling; Paul Connolly; Susan Steinike; Hansjoerg Majer

ENV-18	Development and optimization of a membrane - inlet - photoionization mass spectrometer for fast analysis of (polycyclic)aromatic compounds in aquatic systems <u>Christian Gehm, Bad Homburg/DE</u> ; Thorsten Streibel; Sven Ehlert; Detlef Schulz-Bull; Ralf Zimmermann
ENV-19	Rapid Profiling and Quantification of 17 Bile Acids in Human Plasma by LC-MS/MS <u>Christian Weyer, Bad Homburg/DE</u> ; Dan Li; Frances Carroll; Justin Steimling; Sue Steinike; Paul Connolly
ENV-20	Phospholipid Removal from Protein Precipitated Plasma Using In-Line Sample Preparation (ILSP-PR) <u>Christian Weyer, Bad Homburg/DE</u> ; Sharon Lupo; Randy Romesberg; Xiaoning Lu; Frances Carroll
ENV-21	Derivatisation causes peptide formation: Considerations for the analysis of prebiotic oligomerisation <u>Malte Bayer, Münster/DE</u> ; Andreas Savelsbergh; Michael Kaufmann; Simone König
ENV-22	Mass spectrometric detection of doping agents in simulated exhaled breath aerosol using sampling devices equipped with an electret membrane <u>Ann-Marie Garzinsky, Cologne/DE</u> ; Andreas Thomas; Oliver Krug; Mario Thevis
ENV-23	Characterization of gasoline and diesel range fuels derived from plastics using GC-EI-Orbitrap <u>Yun Xu, Mülheim an der Ruhr/DE</u> ; Wolfgang Schrader
ENV-24	Fully automated dried blood spot sample preparation enables the detection of lower molecular mass peptide and non-peptide doping agents <u>Tobias Lange, Cologne/DE</u> ; Andreas Thomas; Katja Walpurgis; Mario Thevis
ENV-25	Investigation of biodiesel degradation products via FT-MS <u>David Hamacher, Mülheim an der Ruhr/DE</u> ; Wolfgang Schrader
ENV-26	Structural elucidation of compounds in supercomplex mixtures using a two-dimensional chromatographic approach with high-resolution mass spectrometry <u>Jens Dreschmann, Mülheim an der Ruhr/DE</u> ; Wolfgang Schrader
ENV-27	Feature-based molecular networking: a powerful tool for the identification of transformation products in environmental water samples <u>Daniela Oberleitner, Münster/DE</u> ; Robin Schmid; Axel Bergmann; Christine Achten
ENV-28	Passive Sampling Analysis of PAH Contaminated Soils using Gas Chromatography – Atmospheric Pressure Laser Ionization – Mass Spectrometry (GC-APLI-MS) <u>Viviane J. Bayer, Münster/DE</u> ; Kilian E.C. Smith; Christine Achten
ENV-29	Method development for speciation analysis of MRI contrast agents in river and seawater of Sydney (Australia) by μSPE and HILIC-ICP-MS <u>Maximilian Horstmann, Münster/DE</u> ; Raquel Gonzalez de Vega; Uwe Karst; Philip Doble; David Clases

ICP-MS User's Meeting: Analysis of Nanomaterial

- ICP-01** **Detection of Silver and Titanium Dioxide Nanoparticles in Waste Waters and Natural Water via Single-Particle ICP-MS with Microsecond Time Resolution**
Annika Schardt, Siegen/DE; Darya Mozhayeva; Carsten Engelhard
- ICP-02** **Investigating the in vivo gold nanoparticle translocation – Quantitative bioimaging and single particle analysis by means of LA-ICP-MS**
Ilona Denise Nordhorn, Münster/DE; Christine Verlemann; Antje Vennemann; Michael Sperling; Martin Wiemann; Uwe Karst
- ICP-03** **A statistical model fit to extrapolate signal durations in the inductively coupled plasma-mass spectrometry in single nanoparticle mode**
Matthias Elinkmann, Münster/DE; Uwe Karst
- ICP-04** **Single Cell Analysis with ICP-TQ-MS Detection to Characterize Selenized Yeast**
Paula García Cancela, Oviedo/ES; Roberto Álvarez-Fernández García; Mario Corte-Rodríguez; Marcel Macke; Kelly LeBlanc; Zoltan Mester; Maria Montes-Bayón; Jörg Bettmer
- ICP-05** **Quantification of Organo(fluoro)phosphates by means of HPLC-ICP-MS from field tested electric vehicles**
Kristina Kösters, Münster/DE; Jonas Henschel; Martin Winter; Sascha Nowak
- ICP-06** **Investigation of Transition Metal Species in Lithium Ion Batteries by Means of CE/ICP-MS**
Lenard Hanf, Münster/DE; Martin Winter; Sascha Nowak
- ICP-07** **Comparison of hydrodesulfurization products from different catalysts by LEC-FTMS and LEC-ICP-MS/MS**
Alessandro Vetere, Mülheim an der Ruhr/DE; Daniel Präfrock; Wolfgang Schrader
- ICP-08** **Bioimaging of heavy metal hyperaccumulating plants by means of LA-ICP-MS**
Maximilian von Bremen-Kühne, Münster/DE; Hassan Ahmadi; Ute Krämer; Uwe Karst
- ICP-09** **Trace element mapping of high-pressure, high-temperature experimental samples with LA-ICP-TOFMS – Illuminating melt-rock reactions in the lithospheric mantle**
Yannick Bussweiler, Münster/DE; Fernanda Gervasoni; Martin Rittner; Jasper Berndt; Stephan Klemme
- ICP-10** **Coupling of an ICP-QQQ-MS and a Laser Ablation for Elemental Mapping of Environmental Samples**
Dorian Zok, Hannover/DE; Anica Weller; Georg Steinhauser
- ICP-11** **Retention Behavior of Radionuclides on Calcium Silicate Hydrate (C-S-H) Phases: A Kinetic Study under Highly Saline and Hyperalkaline Conditions**
Sandra Baur, Saarbrücken/DE; Kristina Brix; Traudel Allgayer; Ralf Kautenburger
- ICP-12** **Quantitative determination of potential biomarkers for Alzheimer's disease by ID-ICP-MS**
Claudia Swart, Braunschweig/DE; Julia Gleitzmann; Sabrina Peters

- ICP-13** **Speed up Your Productivity – High-Throughput Measurement of Drinking Water by Plasma-Quant MS Q**
Wolfram Weisheit, Jena/DE; Martin Gleisner
- ICP-14** **Determination of heteroatom-containing, non-evaporable impurities in OLED and polymeric substances**
Stefanie Fingerhut, Darmstadt/DE; Victoria Klement; Matthias Steiner; Christian Wolf; Peter Leonhard
- ICP-15** **Calibration of Mg isotope amount ratios and delta values**
Jochen Vogl, Berlin/DE; Olaf Rienitz; Martin Rosner; Björn Brandt; Simone A. Kasemann; Rebecca Kraft; Dmitriy Malinovskiy; Anette Meixner; Janine Noordmann; Savelas Rabb; Jan A. Schuessler; Robert D. Vocke“
- ICP-16** **TQ ICP-MS with brineFAST: A Strong Tool to Detect Ultratrace Elemental Impurities in 25% Brine for Chlor Alkali Membrane Electrolysis**
Kerstin Vogel, Stade/DE; Kemal Cay; Sebastian Völker; Patrick Klemens
- ICP-17** **Development of a calibration strategy for LA-ICP-MS based on dried droplet residues of individual picoliter droplets**
Felix Kuczelinis, Mainz/DE; Peter Weis; Nicolas H. Bings

Instrumentation - Ion Sources and Analyzers

- IIS-01** **Determining the Influence of Pre-Lithiation Techniques on the Lithium Distribution in Graphitic Electrodes for Lithium Ion Batteries**
Malina Helling, Münster/DE; Marcel Diehl; Martin Winter; Sascha Nowak
- IIS-02** **Aging of lithium ion battery electrolyte – Accessing potentially toxic organophosphorus compounds using GC-MS and GC-ICP-SF-MS**
Yannick Philipp Stenzel, Münster/DE; Martin Winter; Sascha Nowak
- IIS-03** **Identification of Decomposition Products in Pyrrolidinium-based Ionic Liquid Electrolytes in Lithium Ion Batteries by means of GC/APCI-Q-TOF**
Yves Preibisch, Münster/DE; Martin Winter; Sascha Nowak
- IIS-04** **MALDI with laser-induced post-ionisation (MALDI-2): Effect of the post-ionisation laser pulse width on the lipid ion yields**
Jens Soltwisch, Münster/DE; Alexander Potthoff; Klaus Dreisewerd
- IIS-05** **Dynamics of desorption from a microdroplet with IR laser in LILBID-MS**
Mónica María Córdoba Estevez, Frankfurt am Main/DE; Phoebe Young; Nina Morgner
- IIS-06** **Characterization of quadrupole mass filters regarding elevated entrance ion currents**
Markus Langner, Wuppertal/DE; Marco Thinius; Hendrik Kersten; Thorsten Benter
- IIS-07** **What determines the post-ionisation efficiency in MALDI-2: A combined soft-/hardware-based set-up to characterise the role of relevant input parameters**
Alexander Potthoff, Münster/DE; Klaus Dreisewerd; Jens Soltwisch

IIS-08	LILBID-MS enables detection of UV-light induced MHC-I protein complex formation Janosch Martin, Frankfurt am Main/DE; Ines Katharina Müller; Robert Tampe; Nina Morgner
IIS-09	Advancing ionization of analytes using Low-Temperature Plasma Mass Spectrometry Rohit Solanki, Kiel/DE; Björn Lottes; Björn Raupers; Jürgen Grotemeyer
IIS-10	Visualization of the MALDI-2 plume development via ultrafast shadowgraphy technique Olaf Minte, Münster/DE; Jens Soltwisch; Klaus Dreisewerd
IIS-11	Paperspray mass spectrometry – A potential novel technique for the detection of polarcompounds in sports drug testing? Luisa Seyerlein, Cologne/DE; Christian Görgens; Katherine Walker; Cornelia Boeser; Neloni Wijeratne; Claudia Martins; Sven Guddat; Mario Thevis
IIS-12	Increasing the Ease of Use and Robustness of Nanoflow with Plug and Play Low Flow Source Jörg Schlotterbeck, Darmstadt/DE; Petra Blankenstein; Christie Hunter
Instrumentation - New Developments	
IND-01	Characterization of Isomeric Glycolipids by Cryogenic Gas-Phase Infrared Spectroscopy Carla Kirschbaum, Berlin/DE; Lisa Kain; Luc Teyton; Essa M. Saied; Christoph Arenz; Eike Mucha; Kim Greis; Gert von Helden; Gerard Meijer; Kevin Pagel
IND-02	Aroma profiling of brewing hops by a prototype HS-GC-MS/IMS setup and machine learning strategies Rebecca Brendel, Mannheim/DE; Sascha Rohn; Philipp Weller
IND-03	Utilization of mass defects and mass remainders in LC/HRMS data of polymers for simplified interpretation of multiply charged ions Sebastian Hagenhoff, Münster/DE; Ansgar Korf; Heiko Hayen
IND-04	Orbitrap-SIMS: New Analytical Options Demonstrated on Highlighter Inks Daniel Breitenstein, Münster/DE; Karsten Lamann; Reinhard Kersting; Elke Tallarek; Alexander Pirkel; Ewald Niehuis; Uwe Karst; Birgit Hagenhoff
IND-05	Identification of Molecular Indicator Paper Components by Orbitrap-SIMS and Multivariate Analysis Jan Troeger, Münster/DE; Karsten Lamann; Daniel Breitenstein; Elke Tallarek; Uwe Karst; Alexander Pirkel; Ewald Niehuis; Birgit Hagenhoff
IND-06	A software platform for the quality control of synthetic oligonucleotides Janina Oetjen, Bremen/DE; Detlev Suckau; Sam Kyritsoglou; Yue Ju; Guillaume Tremintin; Anjali Alving; Michael Greig; Robert Kane
IND-07	Instrumentation developments in omnitrap technology for advanced processing of gas phase ions Athanasios Smyrnakis, Agia Paraskevi/GR; Alexandros Lekkas; Dimitris Papanastasiou
IND-08	Gangliosides associated to human brain development and aging: a high resolution mass spectrometry study Mirela Sarbu, Timisoara/RO; Raluca Ica; Alina Petrut; Željka Vukelić; Alina D. Zamfir

IND-09	Automated chiral analysis of amino acids by trapped ion mobility-mass spectrometry Jonas Maurice Will, Münster/DE; Arne Behrens; Marcel Macke; C. Derrick Quarles Jr.; Uwe Karst
IND-10	LILBID-MS based method for the quantitative assessment of dsDNA binding affinities Phoebe Young, Frankfurt am Main/DE; Carina Immer; Genia Hense; Nina Morgner
IND-11	Increasing resolving power in a High Field Cassinian ion trap by comparison of simulated a measured mass spectra Björn Raupers, Kiel/DE; Hana Medhat; Frank Gunzer; Jürgen Grotemeyer
IND-12	Coupling Microfluidic Free-Flow Electrophoresis to Mass Spectrometry for the Separation of Biomolecules Matthias Raphael Jender, Dortmund/DE
IND-13	Description of polymers and composite materials with thermal analysis hyphenated to photoionization mass spectrometry Lukas Friederici, Rostock/DE; Christopher P. Rüger; Christoph Grimmer; Ahmad Naim; Thorsten Streibel; Ralf Zimmermann; Carlos Afonso; Pierre Giusti
IND-14	Characterization of an Integrated Low Pressure Gas Dynamics and Ion Migration Simulation Method within the SPARTA-DSMC Framework Robin Hillen, Wuppertal/DE; Walter Wissdorf; Hendrik Kersten; Thorsten Benter
IND-15	Autarkic DESI platform with integrated liquid extraction pen for on-site analysis of consumer goods Florian Lotz, Giessen/DE; Kerstin Strupat; Bernhard Spengler; Sabine Schulz
IND-16	European Network of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Centres (EU_FT-ICR_MS) Christopher Rüger, Rostock/DE; Anika Neumann; Ralf Zimmermann
IND-17	Setup of an orthogonal acceleration time-of-flight system (oa-tof) with simultaneously on-line vacuum single- and multi-photon ionization. Jan Heide, Rostock/DE; Sven Ehlert; Andreas Walte; Ralf Zimmermann
IND-18	LC-MS2 based method development for therapeutic drug monitoring Franziska Waldow, Borstel/DE; Kerstin Walter; Michael Weinkauff; Ann-Kathrin Lemm; Niklas Köhler; Patricia Sánchez-Carballo; Hande Karaköse; Christoph Hölscher; Dominik Schwudke
IND-19	Comparison of UHPLC-MS Solvents with High-resolution MS Christian Kempf, Darmstadt/DE; Florian Krantz; Kevin Eckey; Anne-Kathrin Bergmann; Rudolf Köhling; Stephan Altmaier; Michael Schulz
IND-20	QCloud: The First Community System for Automated Daily Quality Control at MS Facilities Dominic Helm, Heidelberg/DE; Cristina Chiva; Roger Olivella; Mikhail Savitski; Teresa Mendes Maia; Evy Timmerman; Francis Impens; Damarys Loew; Christian Panse; Claudia Fortes; Paolo Nanni; Henrik Thomas; Andrea Schuhmann; Anna Shevchenko; Thibault Douche; Mariette Matondo; Karl Mechtler; Eduard Sabido

Instrumentation and Application of MS Imaging

IMA-01	AP-SMALDI MSI of <i>Cryptosporidium parvum</i> and <i>Neospora caninum</i>-infected cells and tissues Nils Holger Anschütz, Giessen/DE; Stefanie Gerbig; Camilo Larrazabal; Juan Diego Velez Muñoz; Liliana Silva; Carlos Hermosilla; Anja Taubert; Bernhard Spengler
IMA-02	Novel MALDI imaging solution empowered by a dual-source Q-TOF and a dedicated bioinformatics pipeline for identification of peaks from tissue Annika Koch, Bremen/DE; Janina Oetjen; Arne Fuetterer; Juergen Suetering; Niels Goedecke; Sven W. Meyer; Stephanie Kaspar-Schoenefeld; Scarlet Koch; Shannon Cornett; Christian Marsching; Carsten Hopf; Nikolas Kessler; Wiebke Timm; Aiko Barsch; Heiko Neuweger; Jan H. Kobarg; Dennis Trede; Sören-Oliver Deininger; Alice Ly; Jens Fuchser; Lucy Woods; Oliver Raether; Jens Höhndorf
IMA-03	Different Mass Spectrometry Imaging Applications on a timsTOF fleX MALDI-Q-TOF Instrument Annika Koch, Bremen/DE; Alice Ly; Janina Oetjen; Arne Fütterer; Richard Drake; Anand Mehta; Michael Becker; Berin Boughton; Jennifer Wilkinson-Berka
IMA-04	Combination of Thin Layer Chromatography and Secondary Ion Mass Spectrometry for the Analysis of Complex Sample Systems Karsten Lamann, Münster/DE; Elke Tallarek; Daniel Breitenstein; Uwe Karst; Alexander Pirkl; Ewald Niehuis; Birgit Hagenhoff
IMA-05	Analysis of Tattooed Human Skin Samples by ToF-SIMS and Orbitrap-SIMS Karsten Lamann, Münster/DE; Daniel Breitenstein; Corinna Brungs; Elke Tallarek; Alexander Pirkl; Uwe Karst; Ewald Niehuis; Birgit Hagenhoff
IMA-06	Electrochemistry meets Imaging – Electrode surface analysis by means of MALDI-ToF-MS Jens Fangmeyer, Münster/DE; Arne Behrens; Uwe Karst
IMA-07	MS Imaging of processed food of plant origin exemplified by the contaminant acrylamide in gingerbread Oliver Wittek, Bayreuth/DE; Julia Kokesch-Himmelreich; Andreas Römpf
IMA-08	Optimized MS imaging workflow for on-tissue digestion of proteins for high-resolution MALDI mass spectrometry imaging Bastian Jahreis, Bayreuth/DE; Julia Kokesch-Himmelreich; Alan M. Race; Andreas Römpf
IMA-09	Novel approaches for mass spectrometry imaging of single cells Tanja Bien, Münster/DE; Jens Soltwisch; Marcel Niehaus; Sebastian Beßler; Klaus Dreisewerd
IMA-10	Towards elemental bioimaging by means of an in-house developed visual light-based laser ablation system Sabrina Katharina Ingelore Funke, Münster/DE; Michael Kießhauer; Michael Sperling; Uwe Karst
IMA-11	Detection of metabolites and lipids using nanospray desorption electrospray ionization mass spectrometry imaging (nano-DESI MSI) Michael Thomas Waletzko, Giessen/DE; Klaus Welters; Karl Christian Schäfer; Bernhard Spengler

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DGMS - Seminar:
Tuesday, March 03, 2020
12:30 - 13:30
HS1

IMA-12	Optimization of sample preparation parameters to enhance the detection limit of Statins in a MALDI-2-MSI approach <u>Jan Schwenzfeier, Münster/DE</u> ; Christoph Bookmeyer; Alexander Potthoff; Jens Soltwisch; Nana-Maria Wagner; Klaus Dreisewerd
IMA-13	Venom gland mass spectrometry imaging of Hottentotta saulcyi (Scorpiones: Buthidae) at high lateral resolution <u>Parviz Ghezellou, Giessen/DE</u> ; Sven Heiles; Kevin Jakob; Javad Atashi; Alireza Ghassempour; Bernhard Spengler
IMA-14	MALDI-TIMS-MS based analysis of cannabis plant samples <u>Arne Behrens, Münster/DE</u> ; Uwe Karst
IMA-15	Immuno-Mass Spectrometry Imaging of Manganese Transporters in Cancers <u>Sarah Meyer, Sydney/AU</u> ; Thomas Lockwood; David Clases; Raquel Gonzalez de Vega; David Bishop; Philip Doble
IMA-16	Host-parasite interaction of S. mansoni eggs in hamster liver investigated by high-resolution AP-SMALDI MSI <u>Stefanie Gerbig, Giessen/DE</u> ; Patrik Kadesch; Thomas Quack; Elke Roeb; Martin Roderfeld; Christoph G. Grevelding; Bernhard Spengler
IMA-17	Mapping of imatinib in cryo-sections of drug-treated Schistosoma mansoni via high-resolution AP-SMALDI MSI <u>Annika Sabine Mokosch, Giessen/DE</u> ; Stefanie Gerbig; Christoph Grevelding; Simone Häberlein; Bernhard Spengler
IMA-18	UV- and IR-MALDI-2-MS imaging to visualize the metabolic exchange between competing gram-negative and positive bacterial cultures <u>Eike Ulrich Brockmann, Münster/DE</u> ; Jens Soltwisch; Klaus Dreisewerd
IMA-19	Chemical topography of metal-associates allergens on non-planar everyday items <u>Azar Rezaei, Giessen/DE</u> ; Dhaka Ram Bhandari; Siegfried Schindler; Bernhard Spengler
IMA-20	Identifying transition metal deposition patterns on aged graphite anodes by means of LA-ICP-MS imaging <u>Patrick Harte, Münster/DE</u> ; Martin Winter; Sascha Nowak
IMA-21	First Insights into Tracing the Lithium Ion Movement During the Formation Process of Lithium Ion Batteries <u>Maximilian Mense, Münster/DE</u> ; Martin Winter; Sascha Nowak
IMA-22	IR-MALDI MSI of apolar metabolites <u>Julian Schneemann, Giessen/DE</u> ; Sven Heiles; Bernhard Spengler
IMA-23	The Role of Matrix Layer Thickness in ME-SIMS Ion Yields for Selected Biomolecules <u>Thorsten Adolphs, Münster/DE</u> ; Marie Droßbach; Bonnie J. Tyler; Marcel Heeger; Heinrich F. Arlinghaus

IMA-24	MALDI imaging in Tuberculosis research - Characterization of lipid profiles and drug detection in mouse lung tissue <u>Julia Kokesch-Himmelreich, Bayreuth/DE</u> ; Axel Treu; Kerstin Walter; Christoph Hölscher; Andreas Römpf
Ion Physics and Ion Chemistry - Applications	
IPC-01	Investigations of Isotope Labeled Lithium Ion Battery Electrolytes via GC-MS-based Techniques <u>Christoph Peschel, Münster/DE</u> ; Fabian Horsthemke; Jonas Henschel; Martin Winter; Sascha Nowak
IPC-02	Characterization of artificially oversulfated glycosaminoglycan-like oligosaccharides by electrospray ionization ion trap (ESI-IT) mass spectrometry <u>Katharina Lemmnitzer, Leipzig/DE</u> ; Sebastian Köhling; Joanna Freyse; Jörg Rademann; Jürgen Schiller
IPC-03	Fully quantum mechanically calculated EI and CID mass spectra using the QCEIMS program <u>Jeroen Koopman, Bonn/DE</u> ; Stefan Grimme
IPC-04	Simulations of Charged Nanodroplets in MS Transfer Stages <u>Clara Markert, Wuppertal/DE</u> ; Walter Wißdorf; Thorsten Benter; Hendrik Kersten
IPC-05	Spectroscopic investigations of the first excited state and ionic ground state of non-deuterated and deuterated m-chloro- and m-fluoropyridine <u>Niklas Helle, Kiel/DE</u> ; Jürgen Grottemeyer
IPC-06	Fragmentation Mechanisms of Metal-Lipid Complexes in the Gas Phase <u>Simon Becher, Giessen/DE</u> ; Tizian Müller; Giel Berden; Jos Oomens; Bernhard Spengler; Sven Heiles
IPC-07	Mechanistic investigations of a dual-activated gold/or organocatalytic cyclization <u>Kim Schuppener, Bonn/DE</u> ; Marianne Engeser
IPC-08	Product study in the interaction of selected metal and semiconductor surfaces with H2 plasma generated species <u>Joshua Rieger, Wuppertal/DE</u> ; Hendrik Kersten; Thorsten Benter
IPC-09	Adduct Suppression and Enhanced Fragment Intensity of Oligosaccharides by Means of SORI-CID Technique <u>Volker Iwan, Kiel/DE</u> ; Jürgen Grottemeyer
IPC-10	Influence of the aromatic moiety on gas phase reactions of heptamethine cyanine dyes using femtosecond-laser-pulse induced photodissociation <u>Elena Mitrofanov, Kiel/DE</u> ; Tassilo Muskat; Jürgen Grottemeyer
IPC-11	New fragmentation pathways of ortho-, meta-, and para-methylbenzalacetone <u>Christian Smets, Kiel/DE</u> ; Jürgen Grottemeyer
IPC-12	Investigation of Non-Covalent Clusters of Various Aniline-Derivatives via REMPI-Spectroscopy <u>Thorben Reinert, Kiel/DE</u> ; Jürgen Grottemeyer

IPC-13	X-raying protein molecular ions: small steps to large fragments. An update <u>Knut Kölbl, Hamburg/DE; Charlotte Uetrecht</u>
IPC-14	Fragmentierung von 3,4-Dimethoxy-4'-Dimethylamino-azobenzol mittels CID und PD <u>Bent Gorgel, Kiel/DE; Jürgen Grotemeyer</u>
IPC-15	Experimental Determination of Bond Dissociation Energies of Silver(I)-Helicene Adducts in the Gas-Phase by ESI-MS/MS <u>Johannes Oschwald, Nuremberg/DE; Vera Warmbrunn; David Reger; Norbert Jux; Christian Neiß; Andreas Görling; Thomas Drewello</u>
IPC-16	Oxidation of Tetraphenyldihydrodiazapentacene Studied by ESI-MS(/MS) <u>Marina Kinzelmann, Nuremberg/DE; Johannes Oschwald; Vera Warmbrunn; Miriam Hauschild; Milan Kivala; Thomas Drewello</u>
IPC-17	Mechanistic Investigations of Unidirectional Hydrogen Rearrangement Reactions in EI-MS <u>Dennis Zeh, Cologne/DE; Marcel Bast; Sven Thorwirth; Jörg Neudörfl; Aimee Cammiade; Daniël Rap; Sandra Brünken; Dietmar Kuck; Stephan Schlemmer; Mathias Schäfer</u>
Lipidomics: Techniques and Applications	
LIP-01	High speed untargeted 4D-lipidomics LC-MS/MS workflows with Parallel Accumulation Serial Fragmentation (PASEF) <u>Sven Meyer, Bremen/DE; Aiko Barsch; Ulrike Schweiger-Hufnagel</u>
LIP-02	Investigation of Unsaturated γ-Lactones Found in Riboflavin Fermentation Broths Using Paternò-Büchi Functionalization <u>Patrick Esch, Giessen/DE; Florian Birk; Marco A. Fraatz; Sven Heiles; Holger Zorn</u>
LIP-03	Mass spectrometric analysis of liamocin biosurfactants <u>Karen Scholz, Münster/DE; Till Tiso; Heiko Hayen</u>
LIP-04	Lipid profiling of Pseudomonas bacteria using heart-cut two-dimensional chromatography coupled to HRMS <u>Carina M. Wienken, Münster/DE; Patrick O. Helmer; Nils Kuhlbusch; Heiko Hayen</u>
LIP-05	Monitoring (phospho-)lipid biosynthesis in human multipotent stromal cells by isotopic labelling and MALDI TOF MS – What's up with sphingomyelin? <u>Patricia Prabutzki, Leipzig/DE; Susanna Schubert; Jürgen Schiller; Ariane Nimptsch</u>
LIP-06	CCSPredict: Using a Machine Learning Approach for Higher Confidence in Lipid Identification <u>Scarlet Koch, Bremen/DE; Matthias Szesny; Sebastian Wehner; Heiko Neuweger; Ulrike Schweiger-Hufnagel; Sven W. Meyer; Aiko Barsch; Nikolas Kessler</u>
LIP-07	Analysis of glycolipid-based surfactants by supercritical fluid chromatography-mass spectrometry <u>Anna Lipphardt, Münster/DE; Heiko Hayen</u>
LIP-08	Investigation of Lipid A species in gram-negative bacteria by LC-MS/MS <u>Matti Froning, Münster/DE; Patrick O. Helmer; Heiko Hayen</u>

LIP-09	Analysis of trans-Fatty Acids in Food Products Using Various GC Columns <u>Christian Weyer, Bad Homburg/DE; Jana Rousova; Joe Konschnik; Scott Adams; Kristi Sellers; Jaap de Zeeuw; Chris English</u>
LIP-10	Differences in the lipid patterns during maturation of 3T3-L1 adipocytes investigated by thin-layer chromatography, gas chromatography and mass spectrometric approaches <u>Yulia Popkova, Leipzig/DE; Dirk Dannenberger; Jürgen Schiller; Kathrin M. Engel</u>
LIP-11	Lipid Compass <u>Nils Hoffmann, Dortmund/DE; Fadi Al Machot; Dominik Schwudke; Kenneth Haug; Claire O'Donovan; Robert Ahrends</u>
LIP-12	Leishmania contain phosphatidylserine, possibly responsible for host-invasion mechanism <u>David Lüke, Giessen/DE; Nils Holger Anshütz; Stefanie Gerbig; Bernhard Spengler</u>
LIP-13	Investigating reactivity trends of Paternò-Büchi functionalization for C=C localization in ESI and MALDI lipidomics studies <u>Fabian Wäldchen, Giessen/DE; Jonas Dick; Bernhard Spengler; Sven Heiles</u>
LIP-14	Analysis of Lipid Signaling Class Analytes Using a Travelling Wave Cyclic Ion Mobility Separator (cIM) <u>Gunnar Weibchen, Eschborn/DE; Michael McCullagh; Martin Palmer; Emma Marsden-Edwards; James Langridge; Johannes PC Visser</u>
LIP-15	Proof of principle study for the quantitative analysis of lipid mediators of sputum samples of Tuberculosis patients <u>Anke Bollen, Borstel/DE; Christoph Leschczyk; Adam Wutkoeski; Ulrich Schaible; Dominik Schwudke</u>
LIP-16	Similarities of lung tissue lipidomes: what are the main physiological determinants of the human lung lipidome? <u>Daniel Krause, Borstel/DE; Dirk Dannenberger; Torsten Goldmann; Dominik Schwudke</u>
LIP-17	Lipidomic study to investigate the incorporation of n-3 PUFA in muscle of micro algae fed pigs <u>Dirk Dannenberger, Dummerstorf/DE; Claudia Kalbe; Dominik Schwudke; Anja Eggert</u>
LIP-18	Combined lipid- and transcriptomic profiling in inflammatory processes <u>Julia Maria Post, Mainz/DE; Raissa Lerner; Laura Bindila</u>
LIP-19	LipidXplorer 2.0 Web: Online tool for simplified and streamlined lipid identification, visualization and quantification by shotgun lipidomics <u>Eduardo Jacobo Miranda Ackerman, Dresden/DE; Nils Hoffmann; Andrej Shevchenko</u>

Mass Spectrometry in Physics

- PHY-01** **Gas Phase Analyses of ¹³C-Labeled Lithium Ion Battery Electrolytes by Means of GC-MS**
[Marco Leißing, Münster/DE](#); Christoph Peschel; Jan-Patrick Schmiegel; Martin Winter; Sascha Nowak
- PHY-02** **Investigation of the catalytic effect of manganese (II) on lithium ion battery electrolytes via ion chromatography hyphenated to mass spectrometry**
[Stefan van Wickeren, Münster/DE](#); Martin Winter; Sascha Nowak
- PHY-03** **Sandwich-structured substrates embedded in a diode laser-plasma interface for analytical chemistry**
[Alexander Knodel, Dortmund/DE](#); Ulrich Marggraf; Sebastian Brandt; Daniel Foest; Bienvenida Gilbert-Lopéz; Joachim Franzke
- PHY-04** **Radionuclides from Space**
[Silke Merchel, Dresden/DE](#); Johannes Lachner; Georg Rugel; Anton Wallner

Metabolomics: Techniques and Applications

- MET-01** **DeltaMS: a tool to track isotopologues in GC- and LC-MS data**
[Tim U. H. Baumeister, Jena/DE](#); Nico Ueberschaar; Wolfgang Schmidt-Heck; J. Frieder Mohr; Michael Deicke; Thomas Wichard; Reinhard Guthke; Georg Pohnert
- MET-02** **Clarification of decomposition pathways in a state-of-the-art lithium ion battery electrolyte through ¹³C-labeling and LC-HRMS2**
[Jonas Henschel, Münster/DE](#); Christoph Peschel; Martin Winter; Sascha Nowak
- MET-03** **Uniting metabolomics data processing and highly confident annotation across six MS instrumental platforms by MetaboScape 5.0**
[Sven Meyer, Bremen/DE](#); Nikolas Kessler; Wiebke Timm; Sascha Winter; Ulrike Schweiger-Hufnagel; Aiko Barsch; Heiko Neuweger
- MET-04** **Metabolomics-based identification of specific biomarkers for bell pepper intake in human urine**
[Mareike Schulz, Münster/DE](#); Yannick Hövelmann; Florian Hübner; Hans-Ulrich Humpf
- MET-05** **Application of metabolomics methods on LC/GQ-QTOF data to discriminate extra virgin olive oils from different Protected Designations of Origin**
[Christian Albers, Bremen/DE](#); Lucía Olmo-García; Karin Wendt; Aadil Bajoub; Carmen María Sánchez-Arévalo; Arsenio Muñoz de la Peña; Artem Filipenko; Carsten Baessmann
- MET-06** **Instrument comparison of non-targeted UHPLC-HRMS analysis for wine authentication**
[Mona Ehlers, Berlin/DE](#); Carsten Fahl-Hassek; Imke Westkamp; Leos Uttl; Jana Hajslova; Jens Brockmeyer; Julia Raeke
- MET-07** **Metabolic profiling based on HILIC-MS to characterize mammalian cell cultures**
[Andrea Gerdemann, Münster/DE](#); Matthias Behrens; Melanie Esselen; Hans-Ulrich Humpf
- MET-08** **In vitro metabolism of Arnica sesquiterpene lactones**
[Franziska M. Jürgens, Münster/DE](#); Thomas J. Schmidt

- MET-09** **Visualizing sequestered cardiac glycosides in *Danaus plexippus* and *Euploea core* using high-resolution AP-SMALDI MSI**
[Domenic Dreisbach, Giessen/DE](#); Dhaka R. Bhandari; Georg Petschenka; Bernhard Spengler
- MET-10** **A comprehensive metabolomics and lipidomics profile of ischemic stroke**
[Julica Folberth, Lübeck/DE](#); Alaa Othman; Sina Rhein; Markus Schwaninger
- MET-11** **Integrated workflow with quality control for large cohort and clinical metabolomics research using robust hardware and signal correction**
[Sven W. Meyer, Bremen/DE](#); Matthew R. Lewis; Nikolas Kessler; Ulrike Schweiger-Hufnagel; Matthias Szesny; Aiko Barsch; Sebastian Goetz
- MET-12** **AP-SMALDI MSI of *Besnoitia besnoiti* cysts in cattle**
[Katja Rebecca Wiedemann, Giessen/DE](#); Stefanie Gerbig; Patrik Kadesch; Liliana Silva; Carlos Hermosilla; Anja Taubert; Bernhard Spengler
- MET-13** **MetaboQuan-R: Rapid plasma profiling of a bladder and lung cancer human cohort**
[Gunnar Weibchen, Eschborn/DE](#); Sarah Lennon; Billy Joe Molloy; Robert S. Plumb; Lee A. Gethings
- MET-14** **Probing carbonyl metabolome by liquid chromatography-mass spectrometry (LC-MS)**
[Alena Soboleva, Saint-Petersburg/RU](#); Elana Kysil; Nadezhda Frolova; Julia Shumilina; Kseniia Bureiko; Gagan Paudel; Tatiana Grishina; Tatiana Karonova; Claudia Birkemeyer; Ludger A. Wessjohann; Andrej Frolov
- MET-15** **Integrated GC- and LC-MS-based approach for analysis of metabolite patterns associated with desiccation tolerance in moss (*Dicranum scoparium*)**
[Kseniia Bureiko, Saint-Petersburg/RU](#); Tatiana Bilova; Andrei Chasov; Elena Lukasheva; Mandy Dorn; Gerd U. Balcke; Farida Minibayeva; Andrej Frolov
- MET-16** **Differentiation of dihydroxylated vitamin D3 isomers using tandem mass spectrometry**
[Anisha Haris, Warwick/UK](#); Yuko Lam; Alina Theisen; Christopher A. Wootton; Bryan Marzullo; Pascal Schorr; Yulin Qi; Dietrich Volmer; Peter B. O'Connor

Natural Product Mass Spectrometry

- NAT-01** **MALDI-TOF analysis of fossilized wood**
[Anne Schnell, Bonn/DE](#); Moritz Liesegang; Marianne Engeser
- NAT-02** **On the structural diversity of Shiga toxin-binding glycosphingolipids of porcine kidney epithelial cells determined by immunochemical detection and mass spectrometry**
[Johanna Detzner, Münster/DE](#); Caroline Gloerfeld; Gottfried Pohlentz; Hans-Ulrich Humpf; Johannes Müthing
- NAT-03** **Species identification of marine food with protein-based LC-MS-analysis**
[Tim Roggensack, Kiel/DE](#); Ingrid Clawin-Rädecker; Kristina Kappel; Fynn Brix; Andreas Tholey; Ute Schröder; Jan Fritsche
- NAT-04** **Progress in polyphenol analysis: Multi-step analysis of diol LC-ESI-HRMS data reveals proanthocyanidin composition of complex plant extracts**
[Nico Symma, Münster/DE](#); Jandirk Sendker; Frank Petereit; Andreas Hensel

- NAT-05** **Unravelling the complexity of mammalian mucin O-glycosylation by mass spectrometry**
Gottfried Pohlentz, Münster/DE; Stefanie Kruse; Ilona Yilmaz; Johannes Müthing
- NAT-06** **Thermochemical and Thermophysical Mapping of Burning Superslim and Kingsize Cigarettes**
Sven Ehlert, Rostock/DE; Huapeng Cui; Jan Heide; Nan Deng; Chuan Liu; Andreas Walte; Ralf Zimmermann
- NAT-07** **Investigation of Tetrahydrocannabinol (THC) and Cannabidiol (CBD) in Smoke by Application of an On-Line Photo Ionization Mass Spectrometry**
Sven Ehlert, Rostock/DE; Jan Heide; Andreas Walte; Ralf Zimmermann
- NAT-08** **HPLC-MS/MS Analysis of Cell Culture Samples: In vitro Studies on Biotransformation and Transport of Nutritional Relevant Alkaloids across Cellular Barriers**
Maria Hahn, Münster/DE; Matthias Behrens; Hans-Ulrich Humpf

Proteome Analysis – Basic Research

- PRB-01** **New chemical cross-linkers for Protein Structure Elucidation with switchable properties: CID stable and cleavable by In-Source Paternò-Büchi Reactions**
Mathias Schäfer, Cologne/DE; Sven Heiles; Patrick Esch; Moritz Fischer
- PRB-02** **Analysis of recombinant erythropoietin by mass spectrometry**
Min Zhang, Hamburg/DE; Yudong Guan; Hartmut Schlüter
- PRB-03** **In-depth characterization of the glycosylated soy milk proteome**
Sanja Milkovska-Stamenova, Leipzig/DE; Laura Krieg; Ralf Hoffmann
- PRB-04** **Protein glycation and oxidation sites in raw milk and flavored milk drinks**
Michele Wölk, Leipzig/DE; Sanja Milkovska-Stamenova; Ralf Hoffmann
- PRB-05** **Application of Sample Displacement Batch Chromatography and Intact Protein Mass Spectrometry Analysis for Enrichment and Identification of Proteoforms**
Siti Nurul Hidayah, Hamburg/DE; Manasi Gaikwad; Hartmut Schlüter
- PRB-06** **Complementarity of different SDS-PAGE gel staining methods for the identification of sORF-encoded peptides in Methanosarcina mazei by in-gel digestion**
Philipp Theodor Kaulich, Kiel/DE; Liam Cassidy; Andreas Tholey
- PRB-07** **Towards automated proteomics sample preparation - up to 384 complex biological samples per week**
Stefan Loroch, Dortmund/DE; Cornelia Schumbrutzki; Yvonne Reinders; Julia Sophie Rauch; Fiorella Andrea Solari; Albert Sickmann
- PRB-08** **UVPD-FTICR-2DMS: Expanding the toolbox for biomolecule analysis**
Alina Theisen, Warwick/UK; Christopher Wootton; Tomos Morgan; Anisha Haris; Yuko Lam; Sean Ellacott; Sebastien Perrier; Peter O'Connor
- PRB-09** **Time-resolved proteomic profiling of a mammalian cell cultivation process using the positive pressure workstation Resolvex A2-0**
Louise Schellletter, Bielefeld/DE; Oliver Hertel; Jens Lättig; Thomas Noll; Raimund Hoffrogge

- PRB-10** **Multi-omics analysis of a PS1-E280A mutation of familiar Alzheimer's disease brain tissue**
Laura Heikaus, Hamburg/DE; Alejandro Soto-Ospina; Pedro Nel Araque; Andres Villegas; Markus Glatzel; Francisco Lopera; Hartmut Schlüter; Diego Sepulveda-Falla
- PRB-11** **Comprehensive proteome analysis of Xanthomonas campestris pv. campestris with a focus on proteins involved in the biosynthesis of xanthan**
Julia Voss, Bielefeld/DE; Vera Ortseifen; Karsten Niehaus
- PRB-12** **Enhancement in sensitivity and reliability of identification of protein carbonylation sites**
Juan Camilo Rojas Echeverri, Leipzig/DE; Sanja Milkovska-Stamenova; Ralf Hoffmann
- PRB-13** **Capillary flow micro Pillar Array Columns (µPAC™ capLC): Combining nano flow sensitivity with analytical robustness and throughput for proteomics LCMS**
Christof Mitterer, Ghent/BE; Robert Van Ling; Maarten Dhaenens; Jeff Op De Beeck; Geert Van Raemdonck; Kurt Van Mol; Bo Claerebout; Natalie Van Landuyt; Wim De Malsche; Gert Desmet; Paul Jacobs
- PRB-14** **A novel robust LCMS proteomics approach using micro pillar array columns (µPAC™)**
Robert van Ling, Ghent/BE; Christof Mitterer; Geert Van Raemdonck; Jeff Op de Beeck; Kurt van Mol; Bo Claerebout; Natalie Van Landuyt; Wim De Malsche; Gert Desmet; Paul Jacobs
- PRB-15** **Selective maleylation directed isobaric peptide termini labelling for accurate proteome quantification**
Xiaobo Tian, Groningen/NL
- PRB-16** **Mass spectrometric approaches towards the differentiation between glucose- and fructose-derived glycation products**
Sophia Murr, Stuttgart/DE; Ina Brümmer; Jens Brockmeyer

Proteome Research – Applications in Biology and Biochemistry

- PRA-01** **Dietary spermidine protects mitochondrial function and delays brain aging via hypusination**
Ewelina Paulina Dutkiewicz, Dortmund/DE; YongTian Liang; Chengji Piao; Christine B Beuschel; Laxmikanth Kollipara; Eva Michael; Sheng Huang; Jason Chun Kit See; Tim Conrad; Ulrich Kintscher; Frank Madeo; Albert Sickmann; Stephan J Sigrüst
- PRA-02** **Structural Insights into Full-Length Retinal Guanylyl Cyclase 1 (ROS-GC1) by Cross-linking/Mass Spectrometry and Homology Modeling**
Anne Rehkamp, Halle/DE; Dirk Tänzler; Christian Tüting; Panagiotis L. Kastiris; Claudio Iacobucci; Christian H. Ihling; Andrea Sinz
- PRA-03** **Rapid MALDI-TOF-MS-based proteomics approach for reliable detection of PDO feta cheese adulteration**
Annika Koch, Bremen/DE; Janina Oetjen; Anastasia Kritikou; Nikolaos Thomaidis
- PRA-04** **Quantification of isoforms of citrate synthase in Desulfurella acetivorans that are involved in citrate cleavage during inorganic carbon fixation**
Simone König, Münster/DE; Lydia Steffens; Eugenio Pettinato; Ivan Berg

PRA-05	Potential of TIMS combined with LC-HRMS in food authenticity studies: Identification and characterization of secoiridoids isomers in greek olive oil <u>Sven Meyer, Bremen/DE</u> ; Sofia Drakopoulou; Nikolaos Thomaidis
PRA-06	Generating an assembly pathway for the Na⁺ F1FO ATP synthase of Acetobacterium woodii using LILBID-MS <u>Khanh Vu Huu, Frankfurt am Main/DE</u> ; Volker Müller; Martin Grininger; Nina Morgner
PRA-07	Quantitative Proteomic Profiles generated by non-targeted Liquid Chromatography Tandem Mass Spectrometry distinguishes different Truffle Species <u>Dennis Krösser, Hamburg/DE</u> ; Benjamin Dreyer; Hartmut Schlüter
PRA-08	Proteome and Phosphoproteome Mapping of Proteins Specificity in Different Subcellular Membrane Fractions of Rat Brain <u>Tingting Li, Dortmund/DE</u> ; Alessandro-Dario Confettura; Canan Has; Michael R Kreutz; Albert Sickmann; Robert Ahrends
PRA-09	Exploring post-translational modification dynamics during dark-light transition in Arabidopsis thaliana leaves <u>Jonas Giese, Münster/DE</u> ; Ines Lassowskat; Jürgen Eirich; Dirk Walther; Iris Finkemeier
PRA-10	Identification of low affinity SUMO interaction partners by photo-inducible crosslinking <u>Kira Brüninghoff, Münster/DE</u> ; Wolfgang Dörner; Kim F. Taupitz; Henning D. Mootz
PRA-11	Compliant-ready workflow for mass confirmation of oligonucleotides and related impurities <u>Andy Tudor, Milford/US</u>
PRA-12	An Investigation into the use of cyclic ion mobility for the separation of biopharmaceutical peptid and protein modifications <u>Lames Langridge, Manchester/UK</u>
PRA-13	Mass spectrometry towards more native samples and cells <u>Kudratullah Karimi, Frankfurt am Main/DE</u> ; Khanh Vu Huu; Morgner Nina
PRA-14	Identification and Quantitation of Phosphopeptide Positional Isomers using Trapped Ion Mobility Spectrometry and PASEF <u>Christian Albers, Bremen/DE</u> ; Katherine Tran; Baozhen Shan, Zac Anderson; Charles Farnsworth; Matthew P. Stokes; Kimberly Lee; Shourjo Ghose; Matthew Willetts; Gary Kruppa
PRA-15	High Sensitivity Phosphoproteomics using PASEF on a TIMS-QTOF mass spectrometer <u>Scarlet Koch, Bremen/DE</u> ; Kristina Desch; Heiner Koch; Thomas Kosinski; Markus Lubeck; Erin Schuman; Julian Langer
PRA-16	New workflow for the identification of global marker peptides using a LC-MS/MS approach <u>Sophia Murr, Stuttgart/DE</u> ; Ina Brümmer; Jens Brockmeyer
PRA-17	Elucidation of pathomechanisms of renal Fanconi-syndromes <u>Jörg Reinders, Dortmund/DE</u> ; Nadine Aßmann; Enrico Klootwijk; Carsten Broeker; Johann M.B. Simbuerger; Katja Dettmer; Peter J. Oefner; Robert Kleta; Richard Warth; Markus Reichold

PRA-18	Replacing Immunoassays with MS-based Technology: Quantitative Proteomics Assays Enabling Deep Molecular Phenotyping of the Mouse <u>Ingo Feldmann, Dortmund/DE</u> ; Olga Shevchuk; Laxmikanth Kollipara; Sarah Michaud; Yvonne Reinders; Konstantin Shuvaev; Helena Pětrošová; Yassene Mohammed; Christoph Borchers; Albert Sickmann
PRA-19	Quantitative, Tandem-Mass-Tag (TMT)-based LC-MS/MS proteome analysis of FFPE Medulloblastoma tissue reveals new, orthogonally confirmable, molecular signatures for different cancer subtypes <u>Hannah Voß, Hamburg/DE</u> ; Christoph Krisp; Julia Neumann; Hartmut Schlüter
PRA-20	Sample matrix effects in Walnut proteomics: Pellicle components induce high protein oxidation and chemical modifications <u>Benjamin Dreyer, Hamburg/DE</u> ; Dennis Krösser; Hartmut Schlüter
PRA-21	Analysis of temporal changes in the plasma proteome of adult and neonatal mice in response to cytomegalovirus infection <u>Christoph Krisp, Hamburg/DE</u> ; Manuela Moritz; Annette Kemmer; Silvia Tödter; Renke Brixel; Wolfram Brune; Felix Stahl; Hartmut Schlüter
PRA-22	TMT-based quantitative proteomics of lung samples from cytomegalovirus infected and non-infected mice <u>Manuela Moritz, Hamburg/DE</u> ; Christoph Krisp; Annette Kemmer; Silvia Tödter; Renke Brixel; Felix Stahl; Wolfram Brune; Hartmut Schlüter
PRA-23	Modified hippocampal lipid signaling pathways triggered by lifestyle conditions: a multi-omics perspective <u>Cristina Coman, Wien/AT</u> ; Maximilian Borgmeyer; Hans-Frieder Schött; Tingting Li; Philipp Westhoff; Hilaire Cheung; Canan Has; Marina Mikhaylova; Michael R. Kreutz; Robert Ahrends
PRA-24	The mechanisms of formation of the resistance of seeds of Brassica napus L. to oxidative stress during storage <u>Alexander Tsarev, Saint Petersburg/RU</u> ; Michail Bankin; Christian Ihling; Tatiana Bilova; Andrea Sinz; Sergei Medvedev; Galina Smolikova; Andrej Frolov
PRA-25	Targeted Absolute Quantification of Lysosomal Proteins by Multiple Reaction Monitoring and QConCAT Protein Standards <u>Peter Robert Mosen, Bonn/DE</u> ; Roman Sakson; Biswajit Moharana; Edgar Kaade; Robert Hardt; Thomas Ruppert; Volkmar Gieselmann; Dominic Winter
PRA-26	The role of the c-ring in the assembly of bacterial F-type ATP-synthases analyzed by LILBID-MS <u>Güler-Nur Yesiltac, Frankfurt am Main/DE</u> ; Khanh Vu Huu; Volker Müller; Martin Grininger; Nina Morgner
PRA-27	Proteomics analysis of symbiosis efficiency of pea plant (Pisum sativum L.) genotypes <u>Sarah Etemadi Afshar, Halle/DE</u> ; Alexander Tsarev; Christian Ihling; Maria Vikhnina; Vladimir A. Zhukov; Igor A. Tikhonovich; Andrea Sinz; Andrej Frolov

- PRA-28** **Investigation of the Post-translation Modification Isoforms of the Transcription Factor EB (TFEB)**
[Anne Sanner, Bonn/DE](#); Gishnu Harikumar Parvathy; Georgia Makrypidi; Thea van den Bosch; Thomas Braulke; Volkmar Gieselmann; Dominic Winter
- PRA-29** **Proteolytic processing of urotensin-II and urotensin-II related peptide and identification of corresponding circulating enzymes**
[Raphael Schuster, Lübeck/DE](#); Pascal Steffen; Sascha Rohn; Hartmut Schlüter; Maria Riedner
- PRA-30** **Development of a multiple-reaction monitoring (MRM) LC-MS/MS method for detection of microbial transglutaminase from *Streptomyces Mobaransis***
[Petra Blankenstein, Darmstadt/DE](#); Rebekah Sayers; Jianru Stahl-Zeng
- PRA-31** **Validation of a filter aided sample preparation (FASP)-based label-free quantification approach for proteomics analysis of plant tissues**
[Tatiana Leonova, Halle/DE](#); Christian Ihling; Wolfgang Hoehenwarter; Andrej Frolow

Proteome Research – Clinical Applications

- PRC-01** **Comparison of Targeted Proteomics Approaches on a TIMS-Q-TOF**
[Janina Oetjen, Bremen/DE](#); Joseph Longworth; François Bernardin; Gunnar Dittmar; Antoine Lesur; Scarlet Koch; Pierre-Olivier Schmit
- PRC-02** **Intact Transition Epitope Mapping - Targeted High-Energy Rupture of Extracted Epitopes (ITEM-THREE) of the anti-pfMSP119 Antibody – Towards Malaria Screening**
[Cornelia Koy, Rostock/DE](#); Bright Danquah; Maren Reepmeyer; Manuela Ruß; Peter Lorenz; Hans-Jürgen Thiesen; Moritz Weresow; Astrid Alef; Michael O. Glocker; Kwabena F. M. Opuni
- PRC-03** **Molecular signatures of Neuroblastoma by matrix-assisted laser desorption/ionization mass spectrometry imaging (MALDI-MSI)**
[Zhiyang Wu, Berlin/DE](#); Patrick Hundsdörfer; Angelika Eggert; Oliver Klein
- PRC-04** **Comparative DIA analysis of Zika virus positive and negative human serum proteomes**
[Julia Sophie Rauch, Dortmund/DE](#); Stefan Loroch; Martin Müller; Gülsah Gabriel; Albert Sickmann
- PRC-05** **Robust and efficient workflow for characterization of clinical biopsy samples by MALDI imaging and MS-proteomics**
[Anna Shevchenko, Dresden/DE](#); Pia Hönscheid; Marc Gentzel; Annett Linge; Andrea Schuhmann; Christian Sperling

Structural and Functional Proteomics

- PRS-01** **Studying the Interactions between the C-Terminal Domain of the Tumor Suppressor p53 with S1-0B and Human Sirtuins**
[Alan An Jung Wie, Halle/DE](#); Christian Arlt; Andrea Sinz
- PRS-02** **Structural Characterization of α -Synuclein Liquid-Liquid Phase Separation by Cross-linking/Mass Spectrometry**
[Daniele Ubbiali, Halle/DE](#); Christian Arlt; Lolita Piersimoni; Andrea Sinz

- PRS-03** **Streamlining mAb Characterization with a PASEF Based Disulfide Analysis Workflow**
[Christian Albers, Bremen/DE](#); Stuart Pengelley; Waltraud Evers; K. Ilker Sen; Eric Carlson; Anja Resemann; Detlev Suckau; Marshall Bern
- PRS-04** **Chemical modification of proteins for structure elucidation and analysis of protein orientation in lipid bilayer**
[Marie Barth, Halle/DE](#); Julian Bender; Til Kundlacz; Carla Schmidt
- PRS-05** **Structural Characterization of the Interaction between the Full-Length Human Tumor Suppressor p53 and DNA by Native MS and Cross-linking/Mass Spectrometry**
[Alessio Di Ianni, Halle/DE](#); Christian Arlt; Andrea Sinz
- PRS-06** **Establishing proteoliposomes for the analysis of membrane proteins**
[Melissa Frick, Halle/DE](#); Julian Bender; Carla Schmidt
- PRS-07** **Quantification of histone modifications in NaBu and RA treated CHO production cells by Orbitrap-MS after optimized derivatization and isotope labeling**
[Melissa Motzkau, Bielefeld/DE](#); Oliver Hertel; Thomas Noll; Raimund Hoffrogge
- PRS-08** **HybG and its Role in Diatomic Ligand Biosynthesis of NiFe-Hydrogenases studied by native mass spectrometry**
[Christian Arlt, Halle/DE](#); Kerstin Nutschan; Gary Sawers; Andrea Sinz
- PRS-09** **Analysis of SNARE complex intermediates by structural mass spectrometry**
[Julia Hesselbarth, Halle/DE](#); Sabine Wittig; Carla Schmidt
- PRS-10** **Determination of Protein Complex Stoichiometries using LILBID-MS and Crosslinking**
[Nils Hellwig, Frankfurt am Main/DE](#); Siyuan Sima; Klaus Richter; Nina Morgner
- PRS-11** **Protein Interaction Studies of IGF2BP1 by Chemical Crosslinking/Mass Spectrometry**
[Christian Ihling, Halle/DE](#); Marcell Lederer; Dirk Tänzler; Stefan Hüttelmaier; Andrea Sinz

Invitation to publish in RCM Conference Special Issue

All presenters (posters, lectures) are invited to submit a paper to a special conference issue of Rapid Communications in Mass Spectrometry (RCM). The type of article can be chosen from any of the regular article categories (full article, review, letter, perspective, protocol). During electronic submission, please check the box for a special issue and insert DGMS 2020.

The deadline for submission is April 30, 2020.

The acceptance for presentation at DGMS 2020 does not guarantee the acceptance of the article for the special issue. Acceptance for publication in the journal is subject to peer review and the journal reserves the right to refuse publication of any paper that does not meet the journal's scientific and editorial standards.

**Rapid
Communications in
Mass Spectrometry**

SUNDAY, MARCH 1, 2020

19:15 - 22:00

Welcome Reception in lecture hall buildings Chemistry and Physics

On Sunday evening after the plenary talks and award session, DGMS 2020's participants and exhibitors come together to celebrate the beginning of the 53rd Annual conference of the DGMS including 27th ICP-MS User's Meeting. The welcome reception is held in lecture hall buildings Chemistry and Physics, where drinks and food are served. The Scientific Committee of DGMS 2020 and the local organisers are looking forward together with all conferees to a successful conference, fruitful discussions and a pleasant time in Münster.

MONDAY, MARCH 2, 2020

19:00 - 21:00

Poster Evening

On Monday evening, DGMS' traditional poster session with beer and pretzels takes place. Learn about latest developments in the field of mass spectrometry, discuss with scientists on new ideas and enjoy the relaxed atmosphere in both lecture hall buildings. Of course, soft drinks, snacks and candies are also being served throughout the poster areas.

TUESDAY, MARCH 3, 2020

19:30 - 23:30

Conference Dinner at Münster Zoo

On Tuesday evening, the conference dinner takes place at Münster Zoo, which is located pretty close to Lake Aasee and presently being home for more than 2,700 animals. Münster Zoo, opened in 1974, is famous for being an “allweather zoo“, which means that enclosures are connected by canopied ways. Thus, visitors can walk for more than 1 km even when it is raining. Furthermore, on rainy days the zoo’s inhabitants, from ara birds to zebras, may return into their houses where they can be watched by the visitors. Each year, around one million people from Germany and from neighbouring countries come to visit Münster Zoo. on today’s evening, the zoo is exclusively opened for DGMS 2020’s conferees. Enjoy to walk around, to visit the aquarium, to feed the elephants or just to take the opportunity to take part in one of the guided tours led by the Münster Zoo staff. For those who need a rest, there are many places to sit down in different areas. Food and drinks are served in the restaurant and the aquarium; a map provided to the conferees at the entrance will guide you to the restaurant and the aquarium. Or just follow the illuminated paths to meet other DGMS 2020 participants – close to the elephants, in the aquarium or during the guided tours....

Free bus transportation (included in your Conference Dinner ticket) from the conference venue to Münster Zoo starts at 19:15.

Free bus transportation (included in your Conference Dinner ticket) from Münster Zoo to Münster main station (via Münster city centre) at: 22:30, 23:15, 23:30, 23:45 and 00:00.

Booking required. Please take your Conference Dinner Ticket with you.

WEDNESDAY, MARCH 04, 2020

13:30 - 15:00

Farewell Reception in lecture hall building Chemistry

At the end of a successful conference, it is time to gather again in lecture hall building chemistry to have some farewell talks and to make final appointments with colleagues to start up a research project or for a visit.

OPENING HOURS OF THE CONFERENCE OFFICE

Sunday, March 1, 2020	12:00 - 19:15
Monday, March 2, 2020	08:00 - 19:00
Tuesday, March 3, 2020	08:00 - 18:00
Wednesday, March 4, 2020	08:00 - 13:30

Cloakroom

A cloakroom is located in the basement of lecture hall building Chemistry. Wardrobe and luggage can be deposited there during the opening hours of the conference office.

Name badges

DGMS 2020’s participants and exhibitors are kindly requested to wear their name badges throughout the symposium. In case that you should have lost your badge, a new one is available at the conference office.

Smoking

Smoking is prohibited within all university buildings. It is kindly requested to smoke outside the buildings where ashtrays are placed for your convenience.

INFORMATION FOR AUTHORS**Lectures and vendor seminars**

Lectures and vendor seminars are given in lecture halls C1, C2, A1 (lecture hall building Chemistry) and HS1, HS2 (lecture hall building Physics). Please follow the signs in the conference buildings to find the respective session halls.

Morning speakers are kindly requested to provide their presentation on USB by the end of the day before their lecture will be given.

Afternoon speakers are kindly requested to provide their presentation on USB by the beginning of the lunch break.

In all session rooms, DGMS 2020’s technical staff shall assist you in installing your presentation.

Poster sessions

Each poster space is A0, portrait orientation. Each board is numbered in the upper left corner.

Posters are to be set-up on Sunday, March 1, 2020 from 12:00 to 19:00 and should be removed on Wednesday, March 2, 2020 at 14:30 the latest. All posters shall be on display throughout the duration of the conference.

Poster session I is scheduled for Monday, March 2, 2020 from 17:10 to 19:00, followed by a poster evening with beer & pretzels.

Poster session II on Tuesday, March 3, 2020 is scheduled from 13:10 to 15:00.

Poster authors whose poster number is even are kindly requested to present their posters during poster session I.

Poster authors whose poster number is odd are kindly requested to present their posters during poster session II.

Poster award session

The poster award session is scheduled on Wednesday, March 4, 2020 from 12:50 to 13:30. A poster jury will view all posters and select the three best posters from each poster sessions.

Coffee and lunch breaks

Coffee, tea and refreshments will be served in the exhibition areas in lecture halls Chemistry and Physics throughout the conference. Coffee and refreshments are included in the registration fee. The university cafeteria (mensa) is five minutes walking distance from lecture hall buildings Chemistry and Physics. Upon registration, all DGMS 2020 participants receive lunch vouchers for Monday and Tuesday for the university cafeteria. All vouchers include a main dish, three side dishes and one non-alcoholic beverage. You may select between different menus in the university cafeteria.

INTERNET ACCESS FOR PARTICIPANTS

LAN/WLAN access

Wireless LAN is provided in both lecture hall buildings. The best option to get internet access via WLAN is to choose the encrypted SSID “eduroam”

Via the WLAN of Münster University you can access the Internet wirelessly and use services in the university network. Münster University has an extensive WLAN network covering most university buildings in the city, including refectories, bistros and some outdoor areas. Connect to the SSID “GuestOnCampus” and start any web browser (e.g. Chrome or Firefox). You will automatically be redirected to the login page. Confirm the terms of use and click on “log in for free“. 1 GB data volume is available per device and day. Please note that the connection is not encrypted.

Topics for EuroAnalysis2021 include:

ANALYTICAL CHALLENGES

ANALYTICAL TECHNOLOGIES AND INSTRUMENTATION

ANALYTICAL SOLUTIONS FOR SOCIETAL CHALLENGES



22-27
August 2021

Congress Venue:
De Vereniging, Nijmegen
The Netherlands



www.EuroAnalysis2021.nl

PUBLIC TRANSPORTATION

Bus connections to the city centre and to Münster main station

The fastest way to go to the city centre is by bus. The bus stop next to the symposium building is “Coesfelder Kreuz” near the university cafeteria (mensa). Buses departing from the mensa side ride to destinations outside the city centre, buses departing from the side opposite to the mensa ride to the city centre and to Münster main station. Information about the bus schedule is available at the conference office. Bus tickets that are valid for Münster city during DGMS 2020 have been sent to you by e-mail prior to the conference.

Bus connections from Münster main station to Münster-Osnabrück International Airport (FMO)

Buses regularly ride from Münster main station to FMO airport. Bus lines R51 and S50 directly take you to FMO (scheduled transfer time: 47 min for R51, scheduled transfer time: 34 min for S50). A ticket to FMO airport is €7.70 (ticket-fee level “4M”). Please note that the bus ticket included in your conference bag is not valid for a ride to the airport.

Train connections from Münster main station to Düsseldorf International Airport (DUS)

A ride to Düsseldorf International Airport by train takes approximately 90 to 110 min. (For most train connections from Münster to Düsseldorf airport, you have to change the train one time). Further information can be found on the Deutsche Bahn (German Rail) website: <http://reiseauskunft.bahn.de/bin/query.exe/en>.

CASH DISPENSERS

Cash dispensers next to the conference venue are:

in the university cafeteria (mensa), two cash dispensers
5 min walking distance from the symposium venue,

Sparkasse Münsterland Ost

Self-service agency
Münzstraße 1
48143 Münster (approx. 20-25 min walking distance from the symposium venue)

Sparkasse Münsterland Ost

Self-service agency
Hüfferstraße 54
48155 Münster (approx. 20-25 min walking distance from the symposium venue)

Postbank

Domplatz 6 - 7
48143 Münster (approx. 30-40 min walking distance from the conference venue)

Shops' opening hours in the city centre

Münster offers an attractive city centre with numerous shopping possibilities. Nearly all shops are open from 10:00 to 19:00, only few of them open from 9:30 to 20:00.

Post office

The post office next to the conference venue is:
Deutsche Post
Domplatz 6 - 7
48143 Münster (approx. 30-40 min walking distance from the conference venue)

Taxi

To call a taxi, dial: +49 251 60011 (“Taxi Münster”). “Taxi Münster” staff on the phone looks forward to answer your calls in English. Payment by credit card (MasterCard, VISA, American Express) or EC in the taxi is possible, if you have announced credit card as preferred payment procedure in your reservation call.

TOURIST INFORMATION

Münster Marketing provides information for tourists in the “Münster Information” office located in the city centre:

Münster Information

Heinrich-Brüning-Straße 9
48143 Münster
Phone: +49 251 492 2710
Fax: + 49 251 492 7743
info@stadt-muenster.de

Opening hours are

Monday to Friday 10:00 - 18:00
Saturday 10:00 - 13:00

Münster Marketing

Münster Information:

Heinrich-Brüning-Str. 9
48143 Münster
Mon.-Fri. 10:00 a.m. - 6:00 p.m.
Sat. 10:00 a.m. - 1:00 p.m.
Phone: +49 251 492 - 2710
Fax: +49 251 492 - 7743
info@stadt-muenster.de

**Information Centre
at the Historic
Town Hall**

Prinzipalmarkt 10
48143 Münster
Tues.-Fri. 10:00 a.m. - 5:00 p.m.
Sat., Sun. and bank holidays
10:00 a.m. - 4:00 p.m.
Phone: +49 251 492 - 2724
friedenssaal@stadt-muenster.de



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Visit our website at
www.tourismus.muenster.de

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münsterview (9), D. Wirlitsch (8/11)



1 Historisches Rathaus (Historic Town Hall)



2 St. Paulus-Dom (Cathedral)



3 Prinzipalmarkt



4 St. Lamberti (Church)



5 Stadtmuseum



6 Schloss (Residence)



7 Aasee



8 Erbdrostenhof



9 Dominikanerkirche



10 Kunstmuseum Pablo Picasso



11 Museum für Lackkunst



12 LWL-Museum für Kunst und Kultur



MÜNSTER
WISSENSCHAFT
UND LEBENSART

- car park
- car park with limited space
- multi-storey car park
- park and ride
- main railway station
- long-distance coaches
- coach park
- coach stop
- bus stop
- taxi rank
- tourist information
- hospital
- public toilet
- multi-storey bicycle park with bicycle hire
- camping site
- post office
- St.-Paulus-Dom
- pedestrian area
- low emission zone

- conference dinner
Allwetterzoo
- venue
Natural Sciences campus
of the University of
Münster (Wilhelm-
Klemm-Straße)

Münster Marketing 02/20
Grafik: Vermessungs- und Katasteramt



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