

# Oral and Poster Presentations

Maritim proArte Hotel, Berlin

WED 5<sup>th</sup>

08:00 Registration and mounting of posters 1-52

## Opening

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09:00	<b>KROH</b>	Germany	Surprise and Welcome
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Invited Speaker in bold

*Young Scientist in italics*

## Session 1: Miniaturization - Chair: Poole/Morlock

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09:30	O-1	<b>OLESIK</b>	USA	Ion-exchange separation of biomolecules using UTLC
09:45	O-2	<b>LINFORD</b>	USA	Manufacturable microfabrication of patterned UTLC plates
10:00	O-3	SCHULZ	Germany	Particulate silica gel layers - new developments and perspectives
10:15	O-4	<i>FICHOU</i>	Germany	Office Chromatography

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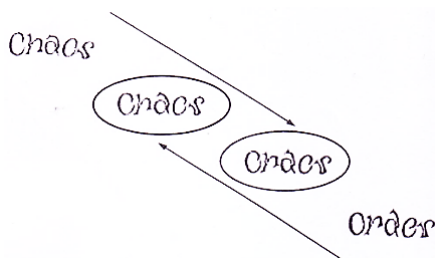
10:30 Coffee break (30 min)

## Tutorial 1

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11:00	O-5	<b>VERPOORTE</b>	NL	Publishing a world-class paper in HPTLC
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12:00 Session of posters 1-52 with lunch

## Session 2: Strong features of HPTLC - Chair: Agatonovic-Kustrin/Verpoorte

13:30	O-6	<b>VOVK</b>	Slovenia	Multidimensional HPTLC-MS
13:45	O-7	<i>YÜCE</i>	Germany	Targeted combinatorial on-plate synthesis as new tool for structure elucidation
14:00	O-8	<i>OBER-LERCHNER</i>	Austria	Bridging the analytical gap - comprehensive analysis of cellooligosaccharides by HPTLC
14:15	O-9	FADEL	France	Antioxidants in structured vegetable oils: chemical identification via HPTLC
14:30	O-10	<i>STIEFEL</i>	Germany	Application of hyphenated HPTLC in food, commodity and cosmetics analysis
14:45	O-11	MALINOWSKA	Poland	Biological activity is one of the most important properties of substances, not only used as drugs, but also as food additives, cosmetics, dietary supplements <i>etc.</i> , depending on permeability through biological barrier

15:00 Coffee break (30 min)

## Session 3: Effect-directed detection - Chair: Kowalska/Schwack

15:30	O-12	<b>MORICZ</b>	Hungary	Layer chromatography hyphenations assisted screening, characterization and isolation of bioactive plant components
15:45	O-13	CHOMA	Poland	Quantitative effect-directed analysis based on TLC/HPTLC-direct bioautography
16:00	O-14	<i>JAMSHIDI-AIDJI</i>	Germany	Bioquantification of natural antibiotics by direct bioautography linked to mass spectrometry
16:15	O-15	SCHOENBORN	Switzerland	Patterns of estrogenic activity in treated wastewater - a study from Switzerland
16:30	O-16	SPANGENBERG	Germany	2D-thin layer chromatography of 17 $\alpha$ -ethinylestradiol on RP-18 W plate, detected by YES-test
16:45	O-17	WEINS	Germany	Effect directed analysis, a new challenge according the upcoming enhancement of European Water Framework Directive 2000/60/EC in 2019

17:00 Session of posters 1-52

18:00 Panel discussion with manufacturers - Chair: Bernard-Savary

19:00 Welcome reception

20:00 End and switch of posters

**THU 6<sup>th</sup>**

**Invited Speaker in bold**

*Young Scientist in italics*

#### **Session 4: Fundamentals - Chair: Choma/Spangenberg**

9:00	O-18	<b>Kowalska</b>	Poland	Performance of chiral TLC in physico-chemical studies
9:15	O-19	<b>DZIDO</b>	Poland	New approach to development of planar chromatograms
9:30	O-20	<b>KLEBO-VICH</b>	Hungary	Radiochromatographic methods in drug metabolism research
9:45	O-21	<i>HALKA</i>	Poland	Reversed phase gradient thin-layer chromatography with one void volume of the mobile phase: advantages, pitfalls and prospects for the future
10:00	O-22	<i>GAJOS</i>	Poland	Micropreparative orthogonal pressurized planar electrochromatography of solutes showing the same electrophoretic mobility
10:15	O-23	<i>POLAK</i>	Poland	Separation of the optical isomers with pressurized planar electrochromatography

10:30 Coffee break (30 min)

#### **Session 5: Elution head-based HPTLC-MS - Chair: Olesik/Shiea**

11:00	O-24	<b>CEBOLLA</b>	Spain	HPTLC-ESI-MS/MS for identifying neutral lipids, sphingolipids and phospholipids in complex samples
11:15	O-25	<i>ILANGO</i>	India	Hyphenated HPTLC-AMD-ESI/MS for quantification of major protoberberines in herbal extracts and polyherbal formulations
11:30	O-26	<i>MERKERT</i>	UK	TLC-MS-coupling taken seriously: expression CMS and Plate Express
11:45	O-27	<i>VAN BEELEN</i>	France	Bringing the power of mass detection to scientists using TLC combined with the ACQUITY QDa detector
12:00	O-28	<i>GRIESINGER</i>	Germany	Unexpected products of the HOCl-induced oxidation of oleic acid: a study using HPTLC-ESI-MS
12:15	O-29	<i>VERMA</i>	India	Qualitative analysis of mephedrone by HPTLC-MS in forensic exhibits

12:30 Session of posters 53-111 with lunch (1h)

**Session 6: Desorption-based HPTLC-MS and structure elucidating techniques -  
Chair: Cebolla/Linford**

13:30	O-30	SHIEA	Taiwan	TLC combined with flame-induced atmospheric pressure chemical ionization mass spectrometry (FAPCI/MS) for volatile and semi-volatile compound analysis
13:45	O-31	HÄBE	Germany	Automated desorption- and elution-based HPTLC-MS
14:00	O-32	FEREY	France	TLC-UV and TLC-MALDI-TOF/MS: an efficient tool for enzyme characterization and screening of bioactive substrates
14:15	O-33	CHEN	China	HPTLC+SERS > HPLC+MS
14:30	O-34	LONGIE-RAS	France	TLC and TLC-RAMAN as an effective tool for polymer additives deformation
14:45	O-35	AZAD-NIYA	Germany	HPTLC-EDA-HRMS and PLC-NMR to reveal co-eluting isomers of bioactive zones

15:00 Coffee break (30 min)

**Session 7: Data treatment - Chair: Klebovich/Dzido**

15:30	O-36	AGATONOVIC-KUSTRIN	Malaysia	Evaluation of polyphenolic fingerprints and antioxidant profiles of Victorian marine algae with HPTLC and multivariate analysis
15:45	O-37	RISTIVOJEVIC	Serbia	Hyphenation of planar chromatography with chemometrics
16:00	O-38	MAQUIN	France	Software associated with TLC/HPTLC-MS coupling
16:15	O-39	BÖHMDORFER	Austria	Clustering analysis of colored wheat varieties by anthocyanin patterns
16:30	O-40	ROUSSEL	France	Modern HPTLC method validation, application of prediction and tolerance intervals to dextrine profiles of enzymatic digestion of starch and baking products
16:45	O-41	VAN OORDT	Switzerland	Comparison of different derivatization techniques including the Derivatizer

**17:00 Session of posters 53-111**

19:00 Symposium dinner and poster award ceremony

21:00 End

## FRI 4<sup>th</sup>

Invited Speaker in bold

*Young Scientist in italics*

### Session 8: Pharmaceutical analysis – Chair: Sheth/Reich

09:00	O-42	GU	China	Application of TLC/HPTLC in identification of Chinese crude drugs for ChP
09:15	O-43	<b>GAWAN-DE</b>	India	Preparative isolation and characterization of degradation products of cefixime and azithromycin
09:30	O-44	<i>THORAT</i>	India	Development and validation of a HPTLC method for determination of methotrexate in human serum
09:45	O-45	<i>THUM-MAR</i>	India	Extractable and leachable study of phthalates in pharmaceutical products by TLC <i>versus</i> LC-MS/MS

### Tutorial 2

10:00	O-46	<b>POOLE</b>	USA	What every chromatographer should know about solvents
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10:30 Coffee break (30 min)

### Session 9: Food and dietary supplements – Chair: Vovk/Kroh

11:00	O-47	<b>SCHWACK</b>	Germany	Determination of total glucosinolates in <i>Brassica</i> crops
11:15	O-48	<i>SOSTARIC</i>	Australia	Authentication of honeys of different floral origins
11:30	O-49	<i>BEITLICH</i>	Germany	TLC screening for the authentication of New Zealand Manuka honey
11:45	O-50	<i>OELLIG</i>	Germany	Screening methods for ergots by HPTLC-FLD/MS
12:00	O-51	<i>DO</i>	Switzerland	Rapid HPTLC screening and quantification of adulteration with synthetic drugs in dietary supplements
12:15	O-52	<b>REICH</b>	Switzerland	Can HPTLC help solve the quality problems of botanical dietary supplements?

12:30 Lunch (1 h)

## Session 10: Botanicals – Chair: Moricz/De-Eknamkul

13:30	O-53	<b>DE-EK-NAMKUL</b>	Thailand	HPTLC detection of steroid 5 $\alpha$ -reductase activity from a non-radioactive cell-based assay
13:45	O-54	CAÑIGU-ERAL	Spain	HPTLC for herbal drugs and herbal drug preparations in the European Pharmacopoeia
14:00	O-55	VERMA	India	Development of pharmacopoeial standards on <i>Embelia ribes</i> fruits and a comparative study of HPTLC fingerprints with samples on the market
14:15	O-56	<i>BALLERT</i>	Germany	Multidimensional chromatography (HPLC-HPTLC) for identification of antifungal substances in <i>Rheum</i> root extracts
14:30	O-57	<i>BELETE</i>	Ethiopia	HPTLC assay of thymoquinone in black seed and black seed oil ( <i>Nigella sativa</i> Linn) and identification of thymoquinone conversion with UV/Vis
14:45	O-58	ANSARI	India	Development and validation of a HPTLC method for simultaneous estimation of flavonoids and phenolics in <i>Carica papaya</i> leaf juice

15:00 Coffee break (30 min)

## Session 11: Traditional medicines – Chair: Agbaba/Cañigueral

15:30	O-59	AHMAD	India	HPTLC studies on single drugs and compound formulations of the Indian system of medicine
15:45	O-60	SHRIVA-STAVA	India	Chemical signature and multiple marker analysis of Avipattikar Churna: an Ayurvedic multicomponent formulation for quality assessment
16:00	O-61	GUPTA	India	HPTLC-MS based method development for cardiovascular disease controlling compounds containing plant <i>Coleus forskolii</i> as per US chapter 203
16:15	O-62	CHATURVEDI	India	Antioxidant compound production at different germinating stages of cow pea ( <i>Vigna articulata</i> L.) seeds varieties and aspartic protease gene expression

## Closure

16:30	<b>KAISER</b>	Germany	Dieter Jänchen Award for the Young Researcher
16:45	<b>POOLE</b>	USA	Highlights

17:00 Demounting of posters 53-111