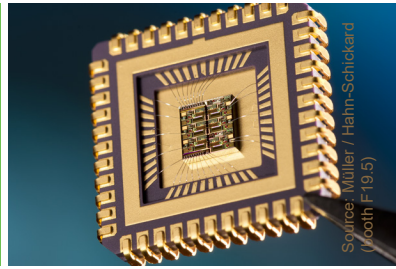


Source: Mikrop AG
(booth F29.5)



EXHIBITOR CATALOG 2018



Source: Müller / Hahn-Schickard
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(booth H19.5)

Micro | Nano MEMS | Photonics Advanced Materials

November 12-15, 2018

Hall 8a,

Booth F19, F29, F34, F35,
F39, G19, H19, H23, H29

IVAM Product Market High-tech for Medical Devices

Forum Program:



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- smart sensors
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Source: microLIQUID. (booth F34.1)



The IVAM exhibitor catalog includes all profiles of this year's exhibitors and will help you plan your visit in hall 8a.

We are looking forward to meeting you in the IVAM Business Lounge, hall 8a, booth F29!

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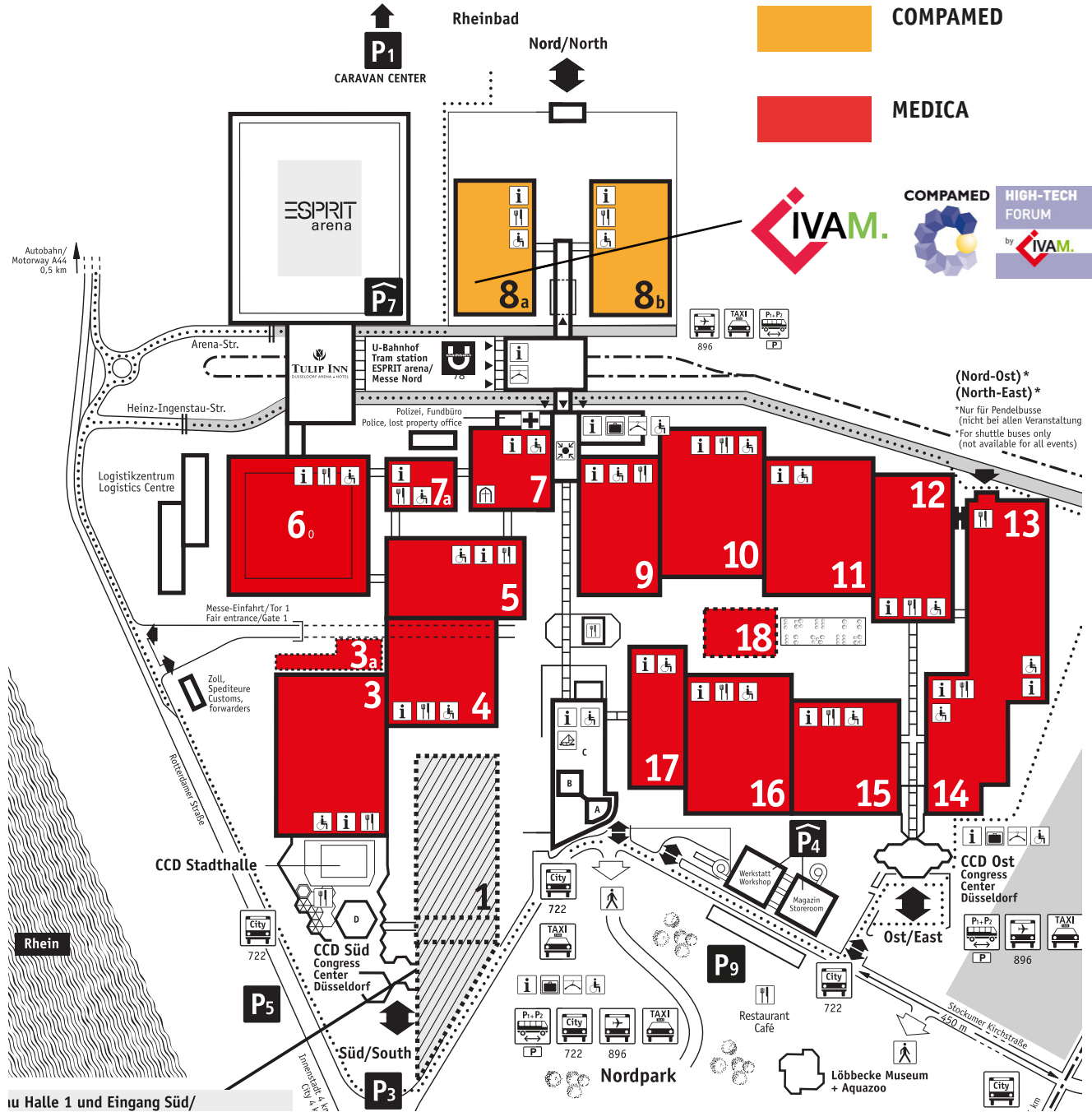
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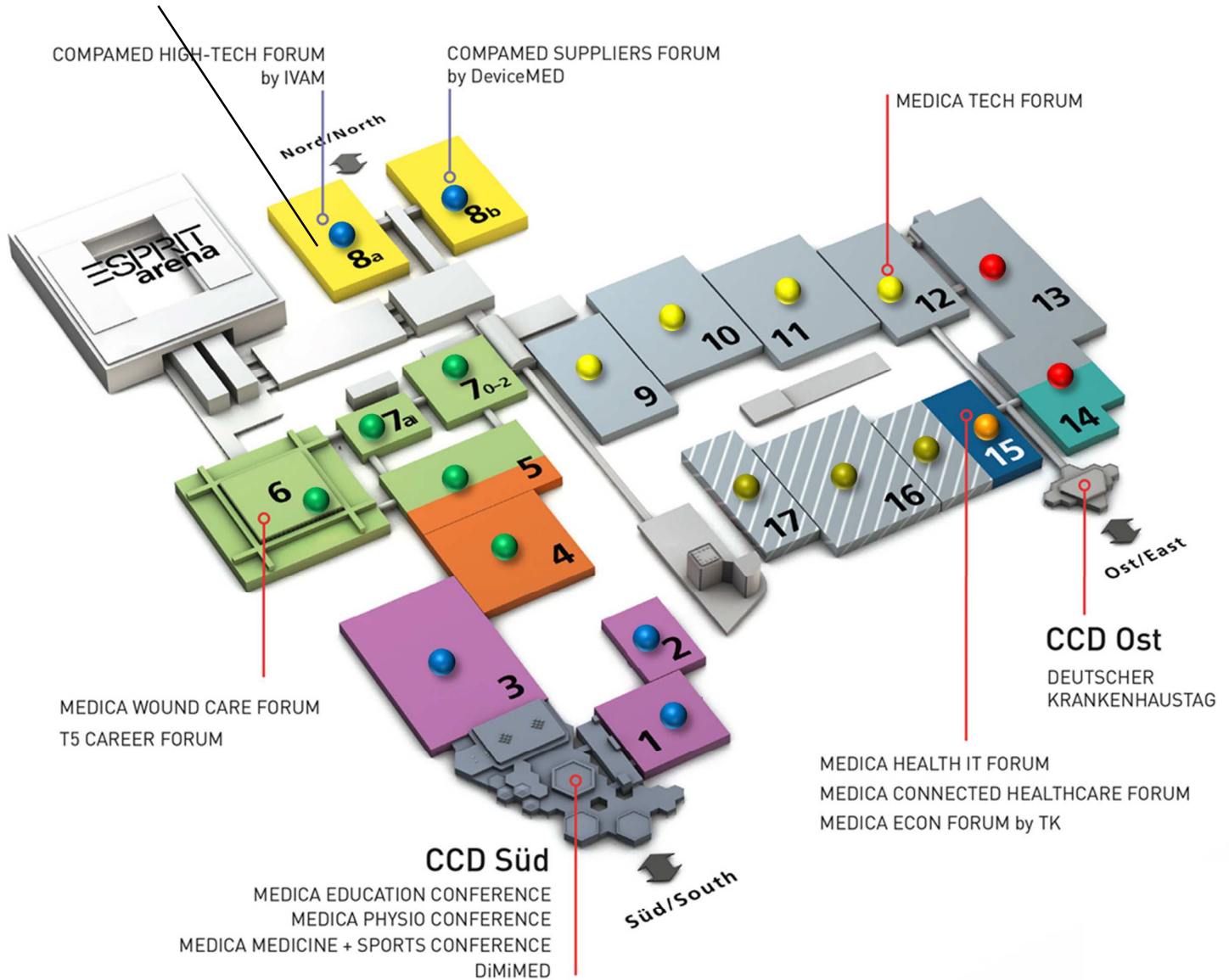
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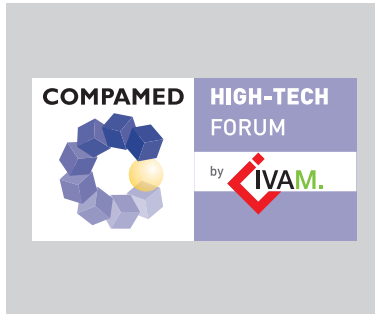
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Monday, November 12

12.15 *Opening*
p.m. **Dr. Thomas Dietrich**,
IVAM Microtechnology Network, Dortmund, DE

Session: Printed Electronics, 3-D Diagnostics, 3-D Printing

Session Chair: Ilkka Kaisto,
VTT Technical Research Centre of Finland, Oulu, FI

12.20 *Advanced R2R Manufacturing Technologies for Medical Applications*
p.m. **Elmar Kempe**,
Coatema Coating Machinery GmbH, Dormagen, DE

12.40 *Quo Vadis – High-Precision 3D Printing in Medical Technology*
p.m. **Yannick Dupuis**,
Multiphoton Optics GmbH, Würzburg, DE

1.00 *Roll-to-Roll for Medical Disposable Manufacturing*
p.m. **Antti Tauriainen**,
Screentec Oy, Oulu, FI

1.20 *Automation in Disposable Medical Device Manufacturing*
p.m. **Markku Känsäkoski**, Ginolis Oy, Oulu, FI

1.40 *Elastomeric Smart Patches by Roll-to-Roll*
p.m. **Prof. Jussi Hiltunen**, VTT, Oulu, FI

2.00 *Using Smart Insole Inside and Outside of Hospital*
p.m. **Eero Kaikkonen**, Movesole Oy, Oulu, FI

2.20 **Break**
p.m.

Swiss Session

Session Chair: Mona Okroy-Hellweg,
IVAM Microtechnology Network, Dortmund, DE

2.40 *Photonics Switzerland: How Hidden Champions enable Disruptive Medical Technology*
p.m. **Franco Uffer**, St.GallenBodenseeArea, St. Gallen, CH

3.10 *Patent and Trade Marks in Switzerland – What is different in the EU?*
p.m. **Sebastian Tegethoff**, 24IP Law Group, Berlin, DE

3.40 *Aspheric Optic Designs in Endoscopy*
p.m. **Jan Fehse**, Fisba AG, St. Gallen, CH

4.00 *Technologies for the Medtech and Life Sciences Industry*
p.m. **Alexander Steinecker**,
CSEM Zentrum Zentralschweiz, Alpnach Dorf, CH

4.20 *Multilayer coating for miniaturized and implanted devices*
p.m. **Patrick Schneider / Hicham Damsir**,
Comelec, La Chaux-de-Fonds, CH

4.40 *Molecular Super-Glue: A Swiss-Army-Knife Coating Platform for Medical Devices and Diagnostics*
p.m. **Dr. Christian Mathis**, SuSoS AG, Duebendorf, CH

**Tuesday, November 13****Session: Laser and Photonics Applications I
Laser Surgery: Clinical Applications and Novel Developments**

Session Chair: Achim Lenenbach,
Fraunhofer Institute for Laser Technology ILT, Aachen, DE

10.20 *A Novel Diode-pumped Erbium Laser and its Potential for Medical Laser Applications*
a.m. **Dr. Karl Stock**, ILM Universität Ulm, Ulm, DE

10.40 *Laser Resection of Lung Metastases*
a.m. **Dr. Armin Warth**,
KLS Martin GmbH & Co. KG, Freiburg, DE

11.00 *2 µm Laser Surgery – Current Clinical Applications*
a.m. **Dr. Heinrich-Otto Teichmann**,
LISA laser products OHG, Katlenburg-Lindau, DE

11.20 *Frontiers of Femtosecond Laser Applications in Ophthalmology*
a.m. **Prof. Holger Lubatschowski**,
ROWIAK GmbH, Hannover, DE

11.40 *Cutting Bone Tissue with
a.m. Picosecond Lasers for Neurosurgery*
Dr. Achim Lenenbach,
Fraunhofer Institute for Laser Technology ILT, Aachen, DE

12.00 **Break**
p.m.

**Session: Laser and Photonics Applications II
EPIC Tech Watch**



Session Chair: Dr. Jose Pozo,
EPIC - European Photonics Industry Consortium, Eindhoven, NL

12.20 *Integrated Photonics for Innovative Life Science
p.m. Applications enabled through PIX4life*
Dr. Hilde Jans, PIX4life, Heverlee, BE

12.50 *Photonics Circuits in Surgery, Treatment and Diagnostics
p.m.* **Ana Gonzalez,** PIXAPP/EPIC, Eindhoven, NL

1.05 *Optical Engineering for World-class Medical
p.m. Instruments and Products enabled by Light*
Lidia Pérez Briquets, ASE Optics, Barcelona, ES

1.20 *New Generation of Active Implants and
p.m. Microfluidics Applications by Glass-Micro-Bonding*
Ville Hevonkorpi, Schott Primoceler, Tampere, FI

1.35 *Power of Small in Microscopy –
p.m. Digital Imaging Platform JENOPTIK SYIONS*
Dr. Andrei Tschernook, JENOPTIK GmbH, Jena, DE

1.50 *Magic Hollow Micro-Needle for Diabetes
p.m.* **Yoichi Oikawa,** Think-Lands Co., Ltd., Kanagawa, JP

2.05 *Polarization and Polarizers for Medical Applications
p.m.* **Ralf Werner,** CODIXX AG, Barleben, DE

2.20 *Small Smaller Smallest –
p.m. Laser based Production of Medical Devices*
Maximilian Brosda,
Fraunhofer ILT, Aachen, DE

2.35 *Plastic Welding for Medical Application
p.m.* **Frauke Legewie,**
Leister Technologies Deutschland GmbH, Solingen, DE

12.50 **Break**
p.m.

**Session: A Platform for Ultra-Sensitive
Point-of-Care Diagnostics for
Infectious Diseases – The PoC-ID Project**



Session Chairs: Patric Salomon, enablingMNT GmbH, Berlin, DE
Dr. Erik Jung, Fraunhofer Institute for Reliability and
Microintegration IZM, Berlin, DE

3.20 *Point-of-Care Diagnostics for Infectious Diseases – The
p.m. Clinical Perspective*

Dr. Gerben Ferwerda,
Radboud University Clinic, Nijmegen, NL

3.40 *Microfluidics in Point-of-Care: Concepts & Systems and
p.m. an Approach to Standardisation*

Henne van Heeren,
enablingMNT The Netherlands, Dordrecht, NL

4.00 *A Platform for Ultra-Sensitive Point-of-Care Diagnostics
p.m. for Infectious Diseases – The PoC-ID Project*

Dr. Tanja Braun, TU Berlin, Berlin, DE

4.20 *A Novel Ultra-Sensitive Bio Graphene
p.m. Field Effect Transistor for PoC-ID*

Prof. Andrey Tuchanin, FSU Jena, Jena, DE

4.40 *The Benefits of using Aptamers and Carbon
p.m. Nanomembranes in PoC-ID*

Dr. Axel Vater, Aptarion biotech AG, Berlin, DE

5.00 *Clinical Testing Results achieved with the new PoC-ID
p.m. Point-of-Care System and Future Perspectives*

Dr. Marien De Jonge,
Radboud University Clinic, Nijmegen, NL



Wednesday, November 14

Session: Smart Sensor Solutions I



Session Chair: Mona Okroy-Hellweg,
IVAM Microtechnology Network, Dortmund, DE

10.20 *Technological Advances in Next-Generation Devices*
a.m. *for Personalized Healthcare*

Dr. Nick Van Helleputte, imec, Leuven, BE

10.50 *Wireless Energy Transfer for Medical Smart Textiles*
a.m.

Dr. Christian Hedayat / Dominik Schröder,
Fraunhofer Institute for Electronic Nano Systems ENAS,
Paderborn, DE

11.10 *Creating Medical Devices for IoMT –*
a.m. *The Internet of Medical Things*

Guy Vinograd, Softimize Ltd., Petah Tikva, IL

11.30 *UV-LED Diagnostic in Medical Applications*
a.m.

Dr. Christian Möller, CiS Forschungsinstitut für
Mikrosensorik GmbH, Erfurt, DE

11.50 *Tailor-made Coatings for Smart Sensors*
a.m.

Dr. Anke Schütz-Trilling, Surfex BV, Wageningen, NL

12.10 *e-skin – Next Generation Smart Apparel*
p.m. *for Disease Prevention*

Ichiro Amimori, Xenoma Inc., Tokyo, JP

12.30 **Break**
p.m.

Session: Smart Sensor Solutions II



Session Chair: Dr. Thomas R. Dietrich,
IVAM Microtechnology Network, Dortmund, DE

12.40 *Individualized Medical Technology – Precise and*
p.m. *Personalized Treatment Supported by*
Micro and Nano Systems

Dr. Mario Baum, Fraunhofer Institute for Electronic Nano
Systems ENAS, Paderborn, DE

1.00 *Ultrasound – Medical Application*
p.m. *of Piezoelectric Components*

Annemarie Oesterle, PI Ceramic GmbH, Karlsruhe, DE

1.20 *Silicon Capacitive Pressure Sensors*
p.m. *for Medical Applications*

Nikolas Valantassis-Kanellos,
European Sensor Systems (ESS) S.A., Athens, GR

1.40 *Fast Multiplex-Based Point-of-Care Analysis*
p.m. *of Pathogens with Pandemic Potential*

Dr. Tobias Schunck, Fraunhofer Institute for
Microengineering and Microsystems IMM, Mainz, DE

2.00 *Smart Reliable Biosensor Enabled Solutions*
p.m.

Gerhard Jobst,
Jobst Technologies GmbH, Freiburg, DE

2.20 *How can Miniaturized Sensors be protected?*
p.m.

Dr. Victor Callegari, Turck duotec GmbH, Halver, DE

2.40 **Break**
p.m.

Session:

Microprecision, Manufacturing and Processing



Session Chair: Katrin Neureiter,
IVAM Microtechnology Network, Dortmund, DE

2.50 *Ceramics Additive Manufacturing and Process*
p.m. *Combinations in Bio- and Medical Technology*

Dr. Matthias Ahlhelm, Fraunhofer Institute for Ceramic
Technologies and Systems IKTS, Dresden, DE

3.10 *The New Berliner Glas “Universal Alignment Tool” –*
p.m. *A Smart Solution for High Precision*

Martin Kuchenbecker, Berliner Glas KGaA Herbert
Kubatz GmbH & Co., Berlin, DE

3.30 *500'000 rpm Brushless Electrical Motor for*
p.m. *Medical Application*

Dr. Luc Burdet, Electromag SA, Ecublens, CH

3.50 *Development and Industrialization of Saving Life Stand*
p.m. *for Accurate Aortic Dissection in Patients with High Risk*
and Contra-Indication for Surgery

Kazuyuki Abe, Yamanouchi Co., Ltd., Kanagawa, JP

4.10 *Polymer Materials and Processes for Precision Optical*
p.m. *Components*

Dr. Markus Cremer, Viaoptic, Wetzlar, DE

4.30 *Pitfalls in Fluidic Design for Precision Dosing*
p.m.

Dr. Ralf Ehret, HNP Mikrosysteme GmbH, Schwerin, DE

4.50 *Processing of Membranes with Conical Holes for*
p.m. *Selective Filtration of Specific Cell Types*

Timo Noll, temicon GmbH, Freiburg, DE

- 5.10 *A High Performance Conformal Coating for Medical*
p.m. *Implantables*
Dick Molin, Specialty Coating Systems, Indianapolis, US

Thursday, November 15

Session: Microfluidics Enabling New Products



Session Chair: Dr. Claudia Gärtner,
microfluidic ChipShop, Jena, DE

- 11.00 *Introductory Remarks: From Chip-in-a-Lab to real*
a.m. *Lab-on-a-Chip Systems*
Dr. Claudia Gärtner,
microfluidic ChipShop GmbH, Jena, DE
- 11.10 *Drop by Drop – Facing the Challenge in the Small*
a.m. *Volume Range from Pico to Nano in Automation*
Dr. Eckhard Nordhoff, M2-Automation, Berlin, DE
- 11.30 *Microarray-based Diagnostic System for*
a.m. *Zoonotic Pathogens*
Dr. Andrea Csaki, Leibnitz Institut für Photonische
Technologien, Jena, DE
- 11.50 *Tumor-associated miRNA Analysis with an Integrated*
a.m. *Microfluidic Cartridge*
Dr. Thomas Brandstetter, IMTEK, Freiburg, DE
- 12.10 *Highly Integrated Microfluidic Cartridges: Challenges*
p.m. *and Manufacturing Solutions*
Dr. Claudia Gärtner,
microfluidic ChipShop GmbH, Jena, DE
- 12.30 *From Microfluidic Modules to a Monolithic System Design*
p.m. **Dr. Carmen Streich**,
Bartels Mikrotechnik GmbH, Dortmund, DE
- 12.50 *Microfluidic Systems for Leukemia Diagnostics and*
p.m. *Nanopharmaceutical Production*
Dr. Heike Kreher / Michael Hüntemann,
Micronit GmbH, Dortmund, DE
- 1.10 **Break**
p.m.

**Session: EU Medical Device Regulation –
Anforderungen an Forschungsinstitute**



Session Chair: Dr. Thomas R. Dietrich, IVAM

- 1.30 *Gemeinsame Verbandsinitiative:*
p.m. *KMU-freundliche Umsetzung der EU-MDR*
Dr. Katja Riebeseel, microTEC Südwest e.V., Freiburg,
DE / **Julia Steckeler**, Medical Mountains GmbH,
Tuttlingen, DE / **Dr. Thomas R. Dietrich**, IVAM
Microtechnology Network, Dortmund, DE
- 1.45 *Anforderungen der neuen EU-MDR an Forschungsinstitute*
p.m. **Alexander Fink**, Metecon GmbH, Mannheim, DE
- 2.15 *Offene Diskussion zu Handlungsempfehlungen*
p.m.

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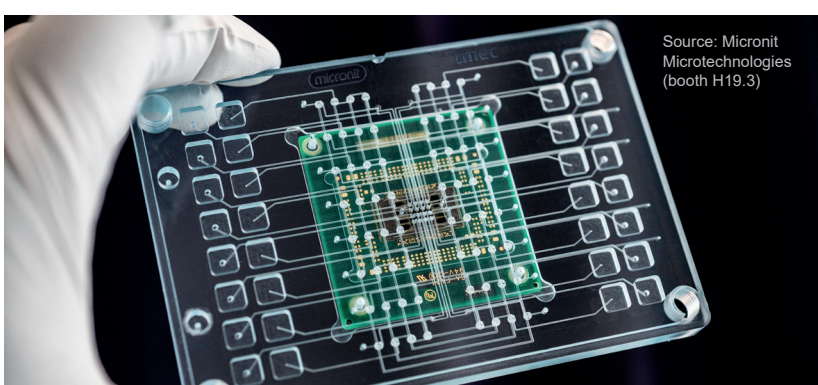
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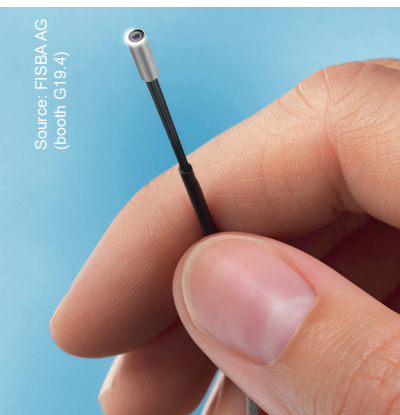


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