Program and Speakers
Floor Plan

Main Hall

Lobby

Meet the Speakers after each Session in the Lobby.

Wifi: Bolle
Password: Bolle
#futuremed16
#sciencematch
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30 – 9:50 am</td>
<td><strong>Opening</strong>&lt;br&gt;Welcome: Sebastian Turner, Publisher, Der Tagesspiegel</td>
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<td>Welcome: Erwin Böttinger, CEO, Berlin Institute of Health (BIH)</td>
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<td>Opening: Helge Braun, Minister of State to the Federal Chancellor</td>
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<td>9:50 – 11:05 am</td>
<td><strong>Session 1: Personalized Health</strong>&lt;br&gt;Keynote: Ernst Hafen, ETH Zürich</td>
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<td>R. Schwarz, U. Scholl, M. Serresi, E. Kenny, J. Striefler, A. Fendler,</td>
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<td>D. Ibrahim, L. Milani, A. Triantafyllopoulos, T. Schmitz-Hübsch, A. Eheim,</td>
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<td>C. Weidinger, E. Dworatzek, C. Kopitz, H. Deubzer, J. Radke, M. Koch,</td>
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<td>C. Brockmann, D. Rat, M. Mashreghi</td>
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<td>11:05 – 11:50 am</td>
<td><strong>Matching Break</strong></td>
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<td>11:50 am – 1:10 pm</td>
<td><strong>Session 2: Digital Health</strong>&lt;br&gt;Introduction: Morris Hosseini, Roland Berger</td>
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<td>Keynote: Shari Langemak, Medscape Germany</td>
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<td>D. Hadley, A. Puschilov, J. Starlinger, P. Ritter, N. Blüthgen, S. Köhler,</td>
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<td>O. Miron, M. Kittner, B. Kehr, P. Jahnke, P. Chojecki, A. McHardy, L. Dini,</td>
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<td>C. Finke, C. Wesemann, A. Blasimme, C. Reimann, C. Conrad</td>
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<td>1:10 – 2:35 pm</td>
<td><strong>Matching Lunch</strong></td>
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<td>2:35 – 3:30 pm</td>
<td><strong>Session 3: Start-Up Ecosystems</strong>&lt;br&gt;Keynote: Adrian J. Carter, Boehringer Ingelheim Pharma</td>
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<td>K. Stöckemann, K. Nitschke, C. Jung, S. Schürle, J. P. von Kries, T. Niendorf,</td>
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<td>C. Garner, J. Müller, O. Khan, P. Mergentaler, T. Meixner, M. Dahlem, M. Taupitz,</td>
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<td>T. Wilckens, J. Zielonka</td>
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<td>3:30 – 4:00 pm</td>
<td><strong>Matching Break</strong></td>
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<td>4:00 – 5:05 pm</td>
<td><strong>Session 4: Regenerative Medicine</strong>&lt;br&gt;Keynote: Hans-Dieter Volk, Charité – Universitätsmedizin Berlin</td>
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<td>B. Hewing, A. Künkele, I.-K. Na, M. Gouti, B. Strücker, W. Zimmermann,</td>
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<td>S. Reinke, A. Murphy, K. Thomas, F. Schröter, S. Landwehr-Kenzel,</td>
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<td>A. Paliege, S. Checa Esteban, M. Obenaus, A. Textor, S. Lienkamp, J. P. Junker</td>
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<td>5:05 – 6:05 pm</td>
<td><strong>Session 5: Cell Engineering</strong>&lt;br&gt;Keynote: Ross Cagan, Icahn School of Medicine at Mount Sinai</td>
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<td>F. Lorenz, P. Genovese, G. Gargiulo, S. van Heesch, M. Schmück-Henneresse,</td>
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<td>A. Busse, B. Di Ventura, S. Lacadie, C. Corvey, A. Blumrich, A. Ofenbauer, G. Kararigas</td>
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<td>6:05 – 6:15 pm</td>
<td><strong>Farewell</strong>&lt;br&gt;Sebastian Turner, Publisher, Der Tagesspiegel</td>
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<td>Erwin Böttinger, CEO, Berlin Institute of Health (BIH)</td>
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<td>6:15 pm</td>
<td><strong>Matching and Get Together</strong></td>
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**Meet the Speakers**
Program and Speakers

8:30 am  Entrance

9:30 – 9:50 am  Opening

Welcome:  Sebastian Turner, Publisher, Der Tagesspiegel
Welcome:  Prof. Erwin Böttinger, CEO, Berlin Institute of Health (BIH)
Opening:  Prof. Helge Braun, Minister of State to the Federal Chancellor

9:50 am  Session 1: Personalized Health

1. Keynote: Prof. Ernst Hafen, ETH Zürich
   Genome Meets iPhone – Transforming Health Science by Citizen-Controlled Data Access

2. Dr. Roland Schwarz, Max Delbrück Center for Molecular Medicine (MDC)
   The Effect of Somatic Variation on the Regulatory Landscape – a Pan-Cancer Perspective

3. Dr. Ute Scholl, Heinrich-Heine-Universität Düsseldorf
   Hypertension – from Disease to Discovery

4. Dr. Michela Serresi, Max Delbrück Center for Molecular Medicine (MDC)
   Molecular Mechanisms Underlying Lung Cancer Dissemination to the Brain

5. Eimear Kenny, Ph.D., Icahn School of Medicine at Mount Sinai, New York City
   Biogeography – a New Biomarker for Personalized Medicine

6. Dr. Jana Striefler, Charité – Universitätsmedizin Berlin
   Pancreatic Cancer – the Feared Opponent

7. Dr. Annika Fendler, Max Delbrück Center for Molecular Medicine (MDC), Berlin Institute of Health (BIH)
   Combined Inhibition of WNT and NOTCH Signaling as a Therapeutic Strategy for Human Clear Cell Kidney Carcinoma

8. Dr. Daniel Ibrahim, Max Planck Institute for Molecular Genetics (MPI), Disruption of 3D Genome Architecture by Structural Variations

9. Lili Milani, Ph.D., Estonian Genome Center, Tartu
   Possibilities for Nation-Wide Implementation of Genomic Medicine

10. Dr. Antigoni Triantafyllopoulou, University of Freiburg
    Harnessing DNA Damage to Re-Program Macrophages in Granulomatous Diseases

11. Dr. Tanja Schmitz-Hübsch, Charité – Universitätsmedizin Berlin
    Digital Health Outcomes as a Decision Aid Towards Patient-Centered Care

12. Ashley Eheim, Bayer Pharma AG, Berlin
    Epigenetic Modifiers & The Human Condition

13. Dr. Carl Weidinger, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
    Targeting Calcium Influx in Chronic Inflammatory Bowel Disease

14. Dr. Elke Dworatzek, Charité – Universitätsmedizin Berlin
    Sex Matters: Development of Cardiac Fibrosis Differs between Men and Women
15. **Dr. Charlotte Christine Kopitz**, Bayer Pharma AG, Berlin
   *Anetumab Ravtansine - A Novel Antibody-Drug Conjugate for the Treatment of Mesothelin-Positive Tumors*

16. **Dr. Hedwig Deubzer**, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
   *Personalized Medicine in Pediatric Oncology*

17. **Dr. Josefine Radke**, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
   *Molecular Genetic Analysis of CNS Lymphoma*

18. **Dr. Markus Koch**, Bayer Pharma AG, Berlin
   *Addressing Neglected Diseases: Innovative Ways to Relieve Women from the Burden of Endometriosis*

19. **Dr. Claudia Brockmann**, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
   *Animal Models to Investigate Retinal Vascular Diseases*

20. **Dr. Dorothea Rat**, Sanofi Aventis Deutschland GmbH
   *Patient Stratification in Cystic Fibrosis*

21. **Dr. Mir-Farzin Mashreghi**, German Rheumatism Research Centre Berlin (DRFZ)
   *Therapeutic Oligonucleotides as Novel Therapy for Autoimmune Diseases*

11:05 am   Matching Break

11:50 am – 1:10 pm  Session 2: Digital Health


23. **Keynote: Dr. Shari Langemak**, Medscape Germany
   *The Future is Already Here: Digital Innovations that Will Change Healthcare Forever*

24. **Dexter Hadley, MD Ph.D.**, UCSF School of Medicine, San Francisco
   *Translating Big Data Into Precision Screening and Diagnosis of Melanoma with Smartphones*

25. **Alexander Puschilov**, viomedo UG, Berlin
   *Accelerating Time to Market: Providing Patients With Access to Clinical Trials*

26. **Dr. Johannes Starlinger**, Humboldt-Universität zu Berlin
   *Simpatix: Similarity Search for Richly Annotated Structured Patient Cases*

27. **Dr. Petra Ritter**, Charité – Universitätsmedizin Berlin
   *Bridging Multiple Scales in the Human Brain Using Personalized Computational Modelling*

   *Using Models to Optimize Cancer Therapy*

29. **Dr. Sebastian Köhler**, Charité – Universitätsmedizin Berlin
   *Phenotype-Driven Analysis of Genomic Variation*

30. **Oren Miron**, Harvard Medical School, Boston
   *Autism Detection at Birth*
Program and Speakers

31. Dr. Madeleine Kittner, Humboldt-Universität zu Berlin
How Data Integration and Text Mining Can Support Personalized Cancer Therapy

32. Dr. Birte Kehr, Berlin Institute of Health (BIH)
Genomic Structural Variants in Disease

33. Dr. Paul Jahnke, Charité – Universitätsmedizin Berlin
PhantomX - Patient Individual Phantoms for Computed Tomography and Radiation Therapy

34. Paul Chojecki, Fraunhofer Heinrich Hertz Institute (HHI), Berlin
The Next Big Thing in Medical Interfaces – Monitors with Brains, Eyes and Ears

35. Prof. Alice McHardy, Helmholtz Centre for Infection Research (H2I), Braunschweig
Computational Inference of Microbial Genotype-Phenotype Relationships

36. Dr. Maria Lorena Dini Pou del Castillo, Charité – Universitätsmedizin Berlin
Kolegea Web 2.0 Plattform – Connecting General Practice

37. Prof. Carsten Finke, Charité – Universitätsmedizin Berlin
Digital Diagnosis and Treatment of Cognitive Deficits

38. Christian Wesemann, Charité – Universitätsmedizin Berlin
Wearable Technologies for Improved Patient Compliance in Orthodontic Treatment – Development of Intelligent Micro Sensor Foils by Using Organic and Printed Electronics

39. Dr. Alessandro Blasimme, University of Zurich
Health, Data and the Digital Self: Philosophy at the Dawn of New Medicine

40. Carolin Reimann, Charité – Universitätsmedizin Berlin
Molecular MR Imaging in Vascular Diseases to Improve Early Diagnosis

41. Dr. Christian Conrad, German Cancer Research Center (DKFZ), Heidelberg
Intelligent Imaging and Sequencing

1:10 – 2:35 pm  Matching Lunch

2:35 – 3:30 pm  Session 3: Start-Up Ecosystems

42. Keynote: Adrian J. Carter, Ph.D., Boehringer Ingelheim Pharma GmbH
Harnessing the Creative Power of the Scientific Crowd

43. Dr. Klaus Stöckemann, Peppermint VenturePartners
Hypes and Hopes around Digital Health

44. Dr. Klaus Nitschke, Senior Advisor Digital - Investor
Embracing the Future – How to Successfully Build Digital Businesses in Health

45. Dr. Christian Jung, Wellington Partners Venture Capital, Munich
The Current State of Life Science Venture Investing

46. Dr. Simone Schürle, Massachusetts Institute of Technology (MIT)
Magnetically Actuated Protease Sensors for Precision Diagnostics
47. Dr. Jens Peter von Kries, Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP), Berlin
Finding the Needle in the Haystack. Particular Requirements for High-Throughput Experiments (Chemical Biology Core Facility)

48. Prof. Thoralf Niendorf, Max Delbrück Center for Molecular Medicine (MDC) & MRLTOOLS GmbH, Berlin
Heartware and More: Bridging the Gap in Translational Medicine with Magnetic Resonance Imaging

49. Prof. Craig Garner, Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE)
Enhancing Academic Translation

50. Juliane Müller, diafy MedTech, Leipzig
On the Path to the Optimal Amount of Insulin for Diabetics

51. Omar F. Khan, Ph.D., Massachusetts Institute of Technology (MIT)
Customizable, Rapid-Response Vaccine Platform Technology

52. Dr. Philipp Mergenthaler, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
Machine Learning for Personalized Immunotherapy in Rare Neurological Autoimmune Disease

53. Tobias Meixner, smartHELIOS and helios.hub, HELIOS Kliniken GmbH
How We Evaluate Digital Innovations and Scale Them Up

54. Dr. Markus Dahlem, Newsenselab GmbH, Berlin
Personalized, Data-Driven Migraine Therapy

55. Prof. Matthias Taupitz, Charité – Universitätsmedizin Berlin
Important Hurdles in the Development of Nanotechnology Based Drugs

56. Dr. Thomas Wilckens, InnVentis Ltd
From Big Data to Precision Medicine – Challenges = Opportunities?!?

57. Juliane Zielonka, Startupbootcamp Digital Health Berlin
Building a Digital Health Ecosystem for Start-Ups in Co-Creation with Corporates

3:30 – 4:00 pm  Matching Break

4:00 – 5:05 pm  Session 4: Regenerative Medicine

58. Keynote: Prof. Hans-Dieter Volk, Charité – Universitätsmedizin Berlin
Immune Reactivity – Friend or Foe of Regeneration

59. Dr. Bernd Hewing, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
Targeting Inflammatory Pathways for the Treatment of Atherosclerosis

60. Dr. Annette Künkele, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
A CAR-T Cell Approach for Solid Tumor Attack

61. Dr. Il-Kang Na, Charité – Universitätsmedizin Berlin
Restore the Bone Marrow Niche and Immune Competence After Allogeneic Hematopoietic Stem Cell Transplantation
Program and Speakers

62. Dr. Mina Gouti, Max Delbrück Center for Molecular Medicine (MDC)
Neuromesodermal Progenitors: Tracing the Origins of Neuromuscular Diseases

63. Dr. Benjamin Strücker, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
Generation of a Tissue-Engineered Neo-Pancreas

64. Prof. Wolfram Zimmermann, Universitätsmedizin Göttingen
Tissue-Engineered Heart Repair

65. Dr. Simon Reinke, Berlin-Brandenburg Center for Regenerative Therapies (BCRT)
Immune Experience – Too Much of a Beautiful Thing within the Fracture Healing Process!

66. Prof. Andrew J. Murphy, Baker Institute University of Melbourne
Controlling Haematopoiesis to Treat Cardiovascular Disease

67. Dr. Katja Thomas, Universitätsklinikum Carl Gustav Carus an der Technischen Universität Dresden
Selective Immune Cell Characteristics in MS Pathology and its Relevance and Patient Individualized Treatment Strategies

68. Dr. Friederike Schröter, Heinrich-Heine-Universität Düsseldorf
Study Alzheimers’ Diseased Neurons in a Dish

69. Dr. Sybille Landwehr-Kenzel, Charité – Universitätsmedizin Berlin
Reshaping Undesired Adaptive Immunity by nTreg Therapy

70. Dr. Alexander Paliege, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
Annexins as Protective Mediators in Renal Disease

71. Dr. Sara Checa Esteban, Julius Wolff Institute, Berlin
Using Computer Models to Promote Skeletal Regeneration

72. Matthias Obenaus, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)
T Cell Receptor Gene Therapy of Cancer

73. Dr. Ana Textor, Charité – Universitätsmedizin Berlin, Max Delbrück Center for Molecular Medicine (MDC)
Refining the Targets for T Cell Receptor Gene Therapy

74. Dr. Soeren Lienkamp, University of Freiburg
Direct Reprogramming of Fibroblasts to Renal Tubule Cells

75. Dr. Jan Philipp Junker, Max Delbrück Center for Molecular Medicine (MDC)
Understanding Tissue Regeneration on the Single Cell Level
5:05 – 6:05 pm  
**Session 5: Cell Engineering**

76. **Keynote: Ross Cagan, Ph.D.**, Icahn School of Medicine at Mount Sinai, New York City  
*Fly to Bedside*

77. **Dr. Felix Lorenz**, Max Delbrück Center for Molecular Medicine (MDC)  
*Next Generation T Cell Receptors for Cancer Immunotherapy*

78. **Pietro Genovese, Ph.D.**, The San Raffaele Telethon Institute for Gene Therapy, Milan  
*Toward Clinical Translation of Haematopoietic Stem Cell Gene Editing for the Treatment of Inherited Diseases*

79. **Dr. Gaetano Gargiulo**, Max Delbrück Center for Molecular Medicine (MDC)  
*Glioblastoma Subtype Avatar Models for Target Discovery and Biology*

80. **Dr. Sebastiaan van Heesch**, Max Delbrück Center for Molecular Medicine (MDC)  
*Think Small! New Proteins in Heart Disease*

81. **Dr. Michael Schmück-Henneresse**, Charité – Universitätsmedizin Berlin  
*Adaptive Cellular Immunotherapy for Viral Diseases*

82. **Dr. Antonia Busse**, Charité – Universitätsmedizin Berlin, Berlin Institute of Health (BIH)  
*Isolation of Tumor-Specific T Cells from Tumor-Infiltrating Lymphocytes or Peripheral Blood for TCR Gene Therapy*

83. **Dr. Barbara Di Ventura**, Heidelberg University  
*Synthetic Biology Approaches for Less Invasive, Versatile and Sustainable Treatments*

84. **Dr. Scott Allen Lacadie**, Max Delbrück Center for Molecular Medicine  
*Shedding Light on Genomic ‘Dark Matter’ — Associated Disease Using Zebrafish Embryonic Development*

85. **Dr. Carsten Corvey**, Sanofi Aventis Deutschland GmbH  
*Multispecific Protein Therapeutics for Targeted Therapies*

86. **Annelie Blumrich**, German Center for Cardiovascular Research (DZHK), Berlin  
*The Fruit Fly – An Appropriate Model to Study Heart Function?*

87. **Andreas Ofenbauer**, Max Delbrück Center for Molecular Medicine (MDC)  
*Gene Activation With CRISPR/Cas Featuring Breakdancing Worms*

88. **Prof. Georgios Kararigas**, Charité – Universitätsmedizin Berlin  
*En Route for Personalized Health through the Integration of Sex/Gender Based Science*

6:05 – 6:15 pm  
**Farewell**

Farewell: Sebastian Turner, Publisher, Der Tagesspiegel  
Farewell: Prof. Erwin Böttinger, CEO, Berlin Institute of Health (BIH)

6:15 pm  
**Matching and Get Together**
Keynotes and Speakers

Prof. Helge Braun
Minister of State to the Federal Chancellor

Since 2013 he has been serving as Minister of State to the Federal Chancellor, Federal Government Coordinator for Bureaucracy Reduction and Better Regulation and Federal Government Coordinator for Relations as well as between the Federation and the Länder.

Ross Cagan, Ph.D.
Icahn School of Medicine at Mount Sinai, NYC

Ross Cagan is currently Professor in the Department of Developmental and Regenerative Biology, and Director of the Center for Personalized Cancer Therapeutics at the Icahn School of Medicine at Mount Sinai, New York City, as well as Senior Editor of the journal Disease Models and Mechanisms and co-founder of the biotechnology company Medros Inc.

Adrian J. Carter, Ph.D.
Boehringer Ingelheim

Adrian Carter is Corporate Vice President and Global Head of Discovery Research Coordination at Boehringer Ingelheim where he is currently responsible for guiding research policy, managing strategic and operational initiatives across all research sites, and overseeing competitive intelligence activities in R&D.
Keynotes and Speakers

Prof. Hans-Dieter Volk
Charité – Universitätsmedizin Berlin

Hans-Dieter Volk is a Professor and Head of Berlin-Brandenburg Center for Regenerative Therapies (BCRT). Moreover, he is Deputy Spokesman of Berlin-Brandenburg School for Regenerative Therapies (BSRT) and Head of Immunology Division at Labor Berlin Charité Vivantes GmbH.

Prof. Ernst Hafen
ETH Zürich

Ernst Hafen is a Professor and former president of Systems Genetics at the ETH Zurich. He has a strong interest in human genetics and personalized medicine and argues that an individual’s control over his or her personal health data will be a key asset for a better and more effective healthcare.

Dr. Shari Langemak
Medscape Germany

Shari Langemak is Editorial Director at Medscape German Edition. Furthermore, Shari’s passion for digital health has led to an immersion into the startup world, where she mentors healthcare startups and advises investors. She frequently gives lectures and talks on digital health and healthcare innovation.
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