



International Titisee Conferences

125. **2022**, October 19–23 **Leonid Mirny, Cambridge, MA, USA**
Job Dekker, Worcester, MA, USA
Genome folding: physics and function
124. **2022**, September 14–18 **Frank Jülicher, Dresden, Germany**
Marcos Gonzales-Gaitan, Geneva, Switzerland
Space, time, and life
123. **2022**, April 27–May 1 **Karla M. Neugebauer, New Haven, CT, USA**
Christine Mayr, New York, NY, USA
RNA as a driving force in cellular organization and function
122. **2021**, October 27–31 **Tobias J. Erb, Marburg, Germany**
Marileen Dogterom, Delft, The Netherlands
Life 2.0: From designing the molecules of life to designing life
121. **2020**, October 15+16
digital **Leonid Mirny, Cambridge, MA, USA**
Job Decker, Worcester, MA, USA
Genome folding: physics and function
120. **2019**, October 16–20 **Thomas Boehm, Freiburg, Germany**
David G. Schatz, New Haven, CT, USA
Evolution of immune defense mechanisms
119. **2019**, March 27–31 **Elly Tanaka, Vienna, Austria**
Peter Reddien, Cambridge, MA, USA
James Sharpe, Barcelona, Spain
Tissue formation and regeneration: from molecules to models
118. **2018**, Oct. 10–14 **Wendy A. Bickmore, Edinburgh, United Kingdom**
Sarah A. Teichman, Cambridge, United Kingdom
Cell heterogeneity & tissue architecture
117. **2018**, April 11–15 **Melina Schuh, Göttingen, Germany**
Takashi Hiragi, Heidelberg, Germany
From oocyte to embryo – illuminating the origins of life
116. **2017**, Oct. 25–29 **Roy Kishony, Haifa, Israel**
David Relman, Stanford, CA, USA
From pathogen evolution to microbiome dynamics
115. **2017**, March 29–Apr. 2 **Vamsi K. Mootha, Boston, MA, USA**
Michael W. Gray, Halifax, NS, Canada
Evolutionary mitochondrial biology: molecular, biochemical, and metabolic diversity
114. **2016**, Nov. 16–20 **David A. Keays, Vienna, Austria**
William Schafer, Cambridge, United Kingdom
The molecules and mechanisms of magneto-, thermo-, and mechanosensation

113. **2016**, April 6–10
Jason Kerr, Bonn, Germany
Richard H.R. Hahnloser, Zurich, Switzerland
Loren L. Looger, Ashburn, VA, USA
 Building tools for quantifying brain and behaviour
112. **2015**, Oct. 21–25
Jürgen A. Knoblich, Vienna, Austria
Hans Clevers, Utrecht, The Netherlands
 Organoids: modelling, development, and disease in 3D culture
111. **2015**, April 15–19
Luke O’Neill, Dublin, Ireland
Michael P. Murphy, Cambridge, United Kingdom
Erika L. Pearce, St. Louis, MO, USA
 Rediscovering Warburg – the role of metabolism in signalling disease
110. **2014**, Oct. 8–12
Holger Stark, Göttingen, Germany
Matthias Rief, Garching, Germany
 Structure, forces, and dynamics of macromolecular complexes
109. **2014**, April 9–13
Dan R. Littman, New York, NY, USA
Samuel I. Miller, Seattle, WA, USA
Philippe J. Sansonetti, Paris, France
 Microbiome-host mutualism in the shaping of host immunity
108. **2013**, Oct. 23–27
Angelika B. Amon, Cambridge, MA, USA
Don W. Cleveland, La Jolla, CA, USA
 Causes and consequences of aneuploidy
107. **2013**, March 5–10
Elena Conti, Martinsried, Germany
Anne Ephrussi, Heidelberg, Germany
 RNA transport
106. **2012**, Oct. 10–14
Andrea Mussachio, Dortmund, Germany **50 years ITC**
Tom Muir, New York, NY, USA
 Reconstituting chromatin: from self-assembly to self-organisation
105. **2012**, March 28–Apr. 1
Kai L. Simons, Dresden, Germany
Gisou van der Goot, Lausanne, Switzerland
 Lipids as organisers of cell membranes
104. **2011**, Oct. 12–16
Patrick Cramer, Munich, Germany
 Genomic regulation
103. **2011**, March 23–27
Barry Dickson, Vienna, Austria
 Genetic analysis of neural circuits
102. **2010**, Oct. 13–17
Thomas Jentsch, Berlin, Germany
Gary Lewin, Berlin, Germany
Christine Petit, Paris, France
 Sensory transduction, the gateway to perception: mechanisms and pathology
101. **2010**, March 17–21
Jonathon Howard, Dresden, Germany
Julie Theriot, Stanford, CA, USA
 Mechanics of cells and tissues: sensing, generating, and coordinating forces in biological systems
100. **2009**, Oct. 14–18
Axel Meyer, Konstanz, Germany
Yves Van de Peer, Ghent, Belgium
 Genome evolution and the origin of novel gene functions
99. **2009**, March 25–29
Bernd Bukau, Heidelberg, Germany
Stefan Jentsch, Martinsried, Germany
 Cellular safeguards and quality control

98. **2008**, Nov. 5–9 **Rudolf Jaenisch, Cambridge, MA, USA**
Thomas Graf, Barcelona, Spain
Differentiation, reprogramming, and regeneration
97. **2008**, March 12–16 **Anne Ridley, London, United Kingdom**
Matthias Peter, Zurich, Switzerland
Mechanisms of cell polarity
96. **2007**, Nov. 14–18 **Stefan W. Hell, Göttingen, Germany**
Jörg Enderlein, Jülich, Germany
Trends in biological optical microscopy
95. **2007**, April 11–15 **Jan Hoeijmakers, Rotterdam, The Netherlands**
Molecular basis of aging
94. **2006**, Nov. 15–19 **Wolf Singer, Frankfurt, Germany**
The dynamical brain
93. **2006**, March 29–April 2 **U. Benjamin Kaupp, Jülich, Germany**
Michael Eisenbach, Rehovot, Israel
Mechanisms of chemotaxis
92. **2005**, Oct. 19–23 **Meinrad Busslinger, Vienna, Austria**
Stem cells and haematopoietic tumors
91. **2005**, April 6–10 **Hidde Ploegh, Boston, USA**
Cell biology meets the immune system: molecular aspects of host pathogens interactions
90. **2004**, Oct. 21–24 **Thomas Tuschl, New York, USA**
Thomas Jenuwein, Vienna, Austria
RNA silencing
89. **2004**, March 17–21 **Rudolf Valenta, Vienna, Austria**
Thomas Brocker, Munich, Germany
From allergy to cancer: new perspectives for therapeutic vaccination
88. **2003**, Oct. 22–26 **Jürgen Klingauf, Göttingen, Germany**
Erwin Neher, Göttingen, Germany
Synaptic transmission: from molecules to circuits
87. **2003**, March 19–23 **Christian Haass, Munich, Germany**
Roger Nitsch, Zurich, Switzerland
Alzheimer's and Parkinson's disease: from basic science to therapeutic treatment
86. **2002**, Oct. 23–27 **Franz Xaver Schmid, Bayreuth, Germany**
Reinhard Sterner, Cologne, Germany
Protein design at the crossroad of biotechnology, chemistry, and evolution
85. **2002**, March 13–17 **Sabine Werner, Zurich, Switzerland**
Clive Dickson, London, Great Britain
Growth factors in development, repair, and disease
84. **2001**, Oct. 24–28 **Alfred Wittinghofer, Dortmund, Germany**
Alan Hall, London, Great Britain
The actin cytoskeleton: from signalling to bacterial pathogenesis
83. **2001**, March 21–25 **Markus Hoth, Homburg, Germany**
Veith Flockerzi, Homburg, Germany
Walther Stühmer, Göttingen, Germany
Ion channels in health and disease

82. **2000**, Oct. 25–29 **Reinhard Jahn, Göttingen, Germany**
Membrane fusion
81. **2000**, April 12–16 **Michael Reth, Freiburg, Germany**
Lawrence E. Samelson, Bethesda, MD, USA
Signal processing through protein complexes
80. **1999**, Nov. 4–7 **Kim Nasmyth, Vienna, Austria**
Martin Raff, London, United Kingdom
Erwin Wagner, Vienna, Austria
Growth control in cells, organs, and animals
79. **1999**, April 28–May 2 **Peter Herrlich, Karlsruhe, Germany**
Hartmut Land, London, United Kingdom
Parallels in cancer and embryonic development
78. **1998**, Oct. 7–11 **Bernhard Horsthemke, Essen, Germany**
Molecular mechanisms in human malformation syndromes
77. **1998**, March 4–8 **Wolf Singer, Frankfurt, Germany**
Christoph von der Malsburg, Bochum, Germany
The role of timing in neuronal processing
76. **1997**, Oct. 15–19 **Cord Michael Becker, Erlangen, Germany**
Adriano Aguzzi, Zurich, Switzerland
Neurological disease: models, molecules, and mechanisms
75. **1997**, March 5–9 **Christiane Nüsslein-Volhard, Tübingen, Germany**
Eric Wieschaus, Princeton, NJ, USA
Gradients in development – formation and interpretation
74. **1996**, Oct. 2–6 **Werner Franke, Heidelberg, Germany**
Rolf Kemler, Freiburg, Germany
Cell junctions and disease
73. **1996**, March 27–31 **Gert Riethmüller, Munich, Germany**
Dormant cancer and latent infection: novel strategies for immune intervention
72. **1995**, Nov. 1–5 **Norbert E. Fusenig, Heidelberg, Germany**
Petra Boukamp, Heidelberg, Germany
Tumor angiogenesis and anti-angiogenesis: a major aspect in tumor-stroma interaction
71. **1995**, March 22–26 **U. Benjamin Kaupp, Jülich, Germany**
G.H. Gold, Philadelphia, PA, USA
Signal transduction in vision and the chemical senses
70. **1994**, Oct. 5–9 **Fritz Melchers, Basel, Switzerland**
Lymphopoiesis
69. **1994**, March 9–13 **Hinrich Rahmann, Stuttgart, Germany**
The neurobiology of memory formation in vertebrates: neuronal plasticity and brain function
68. **1993**, Oct. 27–31 **Michael Schramm, Jerusalem, Israel**
Heinrich Betz, Frankfurt, Germany
Open problems in brain glutamate receptors: structure, function, and neurotoxicity
67. **1993**, March 17–21 **Anna Starzinski-Powitz, Cologne, Germany**
Don Fishman, New York, USA
Molecular and cellular biology of muscle development: in vivo analysis

66. **1992**, Nov. 4–8 **Wolfram Ostertag, Hamburg, Germany**
Somatic gene therapy – gene transfer and differentiation
65. **1992**, March 4–8 **Sergej Fedoroff, Saskatoon, Canada**
Georg W. Kreutzberg, Martinsried, Germany
Neuroimmune networks: cell–cell communication and response to injury and regeneration in the CNS
64. **1991**, Oct. 16–20 **John G. Nicholls, Basel, Switzerland**
Eric Shooter, Stanford, CA, USA
Development, regeneration, and plasticity of the nervous system
63. **1991**, March 6–10 **Georg Wick, Innsbruck, Vienna**
Immune–endocrine interactions
62. **1990**, May 9–13 **Guenter Pasternak, Berlin-Buch, Germany**
Monoclonal antibodies in cancer research and diagnostic
61. **1990**, March 28–April 1 **Gerd Heusch, Essen, Germany**
Adrenergic mechanisms in myocardial ischemia
60. **1990**, Febr. 14–18 **Benno Hess, Dortmund, Germany**
Deterministic chaos in biology and medicine
59. **1989**, April 12–16 **G.A. Robison, Houston, TX, USA**
Drug action at the molecular level: differences between agonists and antagonists
58. **1989**, March 1–5 **Gerald and Heide Schatten, Madison, WI, USA**
Nuclear cytoskeletal interactions
57. **1988**, Oct. 5–9 **Gerd Hunsmann, Göttingen, Germany**
Antiretroviral chemotherapy
56. **1988**, May 11–15 **Rolf Knippers, Konstanz, Germany**
A.J. Levine, Princeton, NJ, USA
Transforming proteins of DNA tumor viruses
55. **1988**, March 2–6 **Ludwig Heilmeyer, Bochum, Germany**
Signal transduction and protein phosphorylation
54. **1987**, Sept. 30–Oct. 4 **Harald zur Hausen, Heidelberg, Germany**
Papillomavirus in human genital cancer: causative role and practical consequences
53. **1987**, May 13–17 **Hans Neurath, Seattle, WA, USA**
E. Davie, Seattle, WA, USA
Fritz Melchers, Basel, Switzerland
Proteolytic processing and biological function
52. **1986**, Oct. 8–11 **Bernd Hamprecht, Tübingen, Germany**
Dennis Monard, Basel, Switzerland
Molecular factors involved in the development of the nervous system
51. **1986**, April 23–27 **Bob Williamson, London, United Kingdom**
Human gene mapping and molecular pathology
50. **1985**, Oct. 2–6 **Werner Kalow, Toronto, Canada**
Werner Goedde, Hamburg, Germany
Ethnic differences in reactions to drugs and other xenobiotics

49. **1985**, May 2–4, **George Weber, Indianapolis, IN, USA**
Enzyme-pattern-targeted chemotherapy
48. **1984**, Oct. 17–21 **Paul Gerhard Spieckermann, Göttingen, Germany**
Hans-Michael Piper, Göttingen, Germany
Isolated adult heart muscle cells, a new model for studies on cardiac metabolism, functions, and structure
47. **1984**, Oct. 10–14 **Alfred P. Fishman, Philadelphia, PA, USA**
Endothelium
46. **1983**, Oct. 5–9 **Sydney Brenner, Cambridge, United Kingdom**
Impact of modern molecular genetics on human biology and medicine
45. **1983**, March 17–19 **Wolfgang Kübler, Heidelberg, Germany**
A. Katz, Farmington, CT, USA
Myocardial ischemia: pathogenesis, mechanisms and clinical implications
44. **1982**, Oct. 20–24 **Dennis Chapman, London, United Kingdom**
Trigger processes and biological membranes
43. **1982**, Oct. 15–17 **Sabine von Kleist, Freiburg, Germany**
Transformation of the cell
42. **1982**, Oct. 6–8 **Ernst Schöpf, Freiburg, Germany**
Mediators of allergy and inflammation
41. **1981**, Oct. 15–17 **Leo Sachs, Jerusalem, Israel**
Concepts in development and malignancy
40. **1981**, Oct. 1–3 **Michael Schramm, Jerusalem, Israel**
Fusion and implantation in biological membranes
39. **1980**, Oct. 2–4 **Helmut Holzer, Freiburg, Germany**
Metabolic interconversion of enzymes
38. **1980**, March 6–9 **W. Loewenstein, Miami, FL, USA**
Structure and dynamics of membrane channels
37. **1979**, Oct. 18–20 **G.A. Robison, Houston, TX, USA**
Drug action at the molecular level: differences between agonists and antagonists
36. **1979**, May 10–12 **Hans Dierck Waller, Tübingen, Germany**
Critical issues of bone marrow transplantation
35. **1978**, Oct. 26–28 **J.M. van Rossum, Nijmegen, Netherlands**
Fred Koss, Biberach, Germany
Pharmacokinetics during drug development: data analysis and evaluation techniques
34. **1978**, Oct. 19–21 **Heinrich Matthys, Freiburg, Germany**
Biomedical engineering and data processing in pneumonology
33. **1978**, April 6–8 **Leo Sachs, Rehovot, Israel**
The genetic control of cell differentiation and malignancy
32. **1977**, Oct. 13–15 **A.G. Motulsky, Seattle, WA, USA**
Human genetic variation in response to medical and environmental agents: pharmacogenetics and ecogenetics

31. **1977**, March 30–April 2 **Max Burger, Basel, Switzerland**
Receptors: signal transmission
30. **1976**, Oct. 14–16 **Alfred P. Fishman, Philadelphia, PA, USA**
Non-respiratory functions of the lung in health and disease
29. **1976**, March 25–27 **N.D. Goldberg, Minneapolis, MI, USA**
Cyclic nucleotides as regulators of proliferation and differentiated cell function
28. **1975**, April 24–27 **W.R. Loewenstein, Miami, FL, USA**
Informationtransfer between cells
27. **1975**, March 6–8 **P. Harris, London, United Kingdom**
Perfusion of the lung
26. **1974**, March 28–30 **Walter Kukovetz, Graz, Austria**
Cyclic AMP and membranes
25. **1974**, March 21–23 **L.L.M. van Deenen, Utrecht, The Netherlands**
Dynamic of membranes
24. **1973**, Oct. 15–27 **Gustav V.R. Born, Cambridge, United Kingdom**
Rudolf Gross, Köln, Germany
Platelets in thrombosis: their clinical significance and the evaluation of potential drugs
23. **1973**, March 22–24 **Donald F. Hoelzl-Wallach, Boston, MA, USA**
Membrane aspects of neoplasia
22. **1972**, April 13–15 **Friedrich Vogel, Heidelberg, Germany**
Spontaneous mutation
21. **1972**, March 23–25 **Franz Gross, Heidelberg, Germany**
P. Wolff, Mainz, Germany
Physiology and pathology of vascular response
20. **1971**, Oct. 28–30 **Dennis Chapman, Sheffield, United Kingdom**
Recent physical studies of the structure of biomembranes
19. **1970**, Oct. 30–31 **Dietrich W. Lübbers, Dortmund, Germany**
Problems of muscular circulation
18. **1970**, March 13–14 **Hans Werner Goedde, Hamburg, Germany**
Georg-Wilhelm Löhr, Freiburg, Germany
Hans-Dierck Waller, Tübingen, Germany
Pharmacogenetics
17. **1970**, March 6–7 **Werner Kaufmann, Tübingen, Germany**
Hans-Erhard Bock, Tübingen, Germany
Renin-angiotensin-aldosterone system and the influence of drugs
16. **1969**, Oct. 31–Nov. 1 **Paul Schölmerich, Mainz, Germany**
G. Gerlach, Aachen, Germany
Arrest, survival time, and reanimation of the heart
15. **1969**, Oct. 24–25 **W. Kalkoff, Freiburg, Germany**
Psoriasis
14. **1968**, April 5–6 **Ernst Lüthy, Zürich, Switzerland**
Hypertrophy and hyperplasia in the heart

13. **1968**, March 29–30 **Fred Lembeck, Tübingen, Germany**
Rudolf Gross, Köln, Germany
Problems in general clinical pharmacology
12. **1967**, Oct. 26–28 **H. Hassler, Frankfurt/Main, Germany**
Trigeminal neuralgia
11. **1967**, April 21–22 **Hans-Erhard Bock, Tübingen, Germany**
Problems of reno-vascular hypertension
10. **1967**, April 14–15 **Herbert Braunsteiner, Innsbruck, Austria**
Clinical problems of transplantation immunology
9. **1966**, Oct. 28–29 **Rudolf Gross, Köln, Germany**
Problems of modern diagnosis
8. **1966**, March 25–26 **R. Bing, Detroit, MI, USA**
Myocardial insufficiency – clinical and experimental correlations
7. **1965**, Oct. 28–30 **F. Grosse-Brockhoff, Düsseldorf, Germany**
Cardiac metabolism under different physiological, pharmacological,
and pathological conditions
6. **1965**, March 26–27 **Hans-Erhard Bock, Tübingen, Germany**
On the situation of clinical therapeutical research
5. **1965**, Oct. 30–31 **E. Brücke, Vienna, Austria**
Physiological and clinical aspects of myocardial stimulus origin
and stimulus propagation
4. **1964**, March 13–14 **Helmut Baitsch, Freiburg, Germany**
Hans Werner Goedde, Freiburg, Germany
Pharmacogenetics – results and problems
3. **1963**, Oct. 25–26 **Albrecht Fleckenstein, Freiburg, Germany**
Excitation, contractility, and metabolism of the myocardium
2. **1963**, March 30–31 **Erich Letterer, Tübingen, Germany**
Dynamics, morphology, and biochemistry of inflammation
1. **1962**, Autumn **Ludwig Heilmeyer, Freiburg, Germany**
E.H. Fischer, Seattle, WA, USA
On the pathophysiology of insufficient cardiac circulation, its
significance for heart functions and possibilities for its treatment