



SCIENTIFIC PROGRAM

KEYNOTE & PLENARY LECTURES

Richard Axel, USA (Nobel Laureate)
Elizabeth Blackburn, USA
Mario Capecchi, USA (Nobel Laureate)
Rudolf Jaenisch, USA
Antoine Kremer, France
Eric Lander, USA

Christiane Nusslein-Volhard, Germany (Nobel Laureate)
Yoshinori Ohsumi, Japan
Svante Pääbo, Germany
Phillip A. Sharp, USA (Nobel Laureate)
Oliver Smithies, USA (Nobel Laureate)
Allan Spradling, USA
Ernst-Ludwig Winnacker, Belgium

CONCURRENT SYMPOSIA (CS)

TOPIC	CS	TOPIC	CS
EPIGENETICS (1): MECHANISMS & CHROMATIN	A1	AGING & LONGEVITY	C1
Chair: Berger, Shelly Co-Chair: Becker, Peter		Chair: Partridge, Linda Co-Chair: Baumeister, Ralf	
Speakers: Berger, S. (US) / Paro, R. (CH) / Henikoff, S. (US) Schulz, R. (UK) / Reuter, G. (DE)		Speakers: Partridge, L. (UK) / Dillin, A. (US) / Kennedy, B. (US) Mccormick, M. (US) / Yuan, R. (US)	
AGRICULTURAL APPLICATIONS	A2	HISTORY OF GENETICS	C2
Chair: Georges, Michel Co-Chair: Brockmann, Gudrun		Chair: Barahona Echeverria, Ana Co-Chair: Rheinberger, H.-J.	
Speakers: Goddard, M. (AU) / Doebley, J. (US) / Buckler, E. (US) Kassim, A. (UK) / Niemann, H. (DE)		Speakers: Barahona, A. (MX) / Rheinberger, H.-J. (DE) / Kevles, D. (US) Mueller-Wille, S. (UK) / Campos, L. (DE)	
QUANTITATIVE AND STATISTICAL GENETICS	A3	BIODIVERSITY/ADAPTATION	C3
Chair: Mackay, Trudy Co-Chair: Simianer, Henner		Chair: Tautz, Diethard Co-Chair: Heckel, David	
Speakers: Mackay, T. (US) / Flint, J. (UK) / Steinmetz, L. (DE) Ellen, E. (NL) / Heinig, M. (CZ)		Speakers: Tautz, D. (DE) / Ellegren, H. (SE) / Savolainen, O. (FI) Rossetto, M. (AU) / Brachi, B. (FR)	
INFECTON	A4	PHARMACOGENOMICS	C4
Chair: Liu, Edison Co-Chair: Meyer, Thomas		Chair: Frazer, Kelly Co-Chair: Schwab, Matthias	
Speakers: Lemaitre, B. (CH) / Beutler, B. (US) / Hibberd M. L. (SG) Lengeling, A. (DE) / Tang, N. (CN)		Speakers: Frazer, K. (US) / Lindpaintner, K. (CH) / Johnson, J. (US) McHugh, P. (NZ) / Aitchison, K. (UK)	
GENETIC MODEL ORGANISMS: DISCOVERY TO TRANSLATION	A5	GENETICS OF SEX	C5
Chair: Spradling, Allan Co-Chair: Stewart, Francis		Chair: Barton, Nick Co-Chair: Schartl, Manfred	
Speakers: Spradling, A. (US) / Steel, K. (UK) / Xu, T. (US) Ferrero, I. (IT) / Dosch, R. (CH)		Speakers: Barton, N. (UK) / Logsdon, J. (US) / de Visser, A. (NL) Ginter-Matuszewska, B. (PL) / Schartl, M. (DE)	
TEACHING GENETICS	A6	PLANT GENETICS	C6
Chair: Nellen, Wolfgang Co-Chair: Moore, Andrew S.		Chair: Smyth, David Co-Chair: Altmann, Thomas	
Speakers: Nellen, W. (DE) / Griffiths, T. (CA) / Moore, A. (DE) Micklos, D. (US)		Speakers: Smyth, D. (AU) / Martienssen, R. (US) / Franklin-Tong, V. (UK) Tamaki, S. (JP) / Silva-Filho, M. (BR)	
EPIGENETICS (2): DEVELOPMENT	B1	CANCER GENETICS	D1
Chair: Klar, Amar Co-Chair: Reuter, Gunter		Chair: Stratton, Mike Co-Chair: Birchmeier, Walter	
Speakers: Klar, A. (US) / Matzke, M. (AT) / Surani, A. (UK) Ashe, A. (AU) / Gebert, C. (US)		Speakers: Stratton, M. (UK) / Rahman, N. (UK) / Berns, A. (NL) Katoh, M. (JP) / Evangelista, A. (PH)	
BIOTECHNOLOGY	B2	EVOLUTION/SPECIATION	D2
Chair: Pühler, Alfred Co-Chair: Schwab, Helmut		Chair: Ting, Chau-Ti Co-Chair: Meyer, Axel	
Speakers: Pühler, A. (DE) / Fussenegger, M. (CH) / Nielsen, J. (DK) Wohlleben, W. (DE) / Kalén, M. (SE)		Speakers: Ting, C.-T. (CN) / Meyer, A. (DE) / Weigel, D. (DE) Roux, F. (FR) / Nachman, M. (US)	
MICROBIAL GENETICS	B3	COMPLEX TRAITS	D3
Chair: Araki, Hiroyuki Co-Chair: Gottschalk, Gerhard		Chair: Donnelly, Peter Co-Chair: Schreiber, Stefan	
Speakers: Araki, H. (JP) / Komeili, A. (US) / Jenal, U. (CH) Wiehmann, L. (DE) / Bassler, B. (US)		Speakers: Donnelly, P. (UK) / Barrett, J. (UK) / Stefansson, K. (IS) Bertram, L. (US) / Xue, H. (HK)	
CLOCKS & RHYTHMS	B4	SYSTEMS BIOLOGY/IT	D4
Chair: Takahashi, Joseph Co-Chair: Kramer, Achim		Chair: Koller, Daphne Co-Chair: Eils, Roland	
Speakers: Takahashi, J. (US) / Green, C. (US) / Kramer, A. (DE) Brown, S. (CH)		Speakers: Koller, D. (US) / Segal, E. (IL) / Bork, P. (DE) Medina, M. (ES) / Busch, H. (DE)	
COMPARATIVE GENOMICS	B5	GENOME-ENVIRONMENT INTERACTIONS/ECOLOGY	D5
Chair: Bennetzen, Jeff Co-Chair: Green, Edward		Chair: Nadeau, Joe Co-Chair: Schweder, Thomas	
Speakers: Bennetzen, J. (US) / Bergman, C. (UK) / Lässig, M. (DE) Louis, E. (UK) / Hufton, A. (DE)		Speakers: Nadeau, J. (US) / Hobbs, H. (US) / Hall, M. (CH) Gavrila, L. (RO) / Sadovnick, D. (CA)	
POPULATION GENETICS	B6	SOCIETAL, ETHICAL, LEGAL ISSUES OF GENETICS (SELIG)	D6
Chair: Charlesworth, Deborah Co-Chair: Parsch, John		Chair: Knoppers, Bartha M. Co-Chair: Reich, Jens	
Speakers: Charlesworth, D. (UK) / Wakeley, J. (USA) / Stephan, W. (DE) Cardoso-Moreira, M. (US) / Bazykin, G. (RU)		Speakers: Knoppers, B. (CA) / Kaan, T. (SG) / Otlowski, M. (AU) Al-Hassnan, Z. (SA) / Sheu, S.-J. (TW)	

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TIME PLANNER

TIME	SATURDAY, JULY 12	SUNDAY, JULY 13	MONDAY, JULY 14
08:30 - 09:00		Plenary Lecture 1 Rudolf Jaenisch - Stem Cells, Pluripotency and Nuclear Reprogramming	Plenary Lecture 3 Elizabeth Blackburn - Telomeres and Telomerase
09:00 - 09:30			
09:30 - 10:00		Break	Break
10:00 - 10:30		CONCURRENT SYMPOSIA (CS) A1 Epigenetics (1): Mechanisms and Chromatin	CONCURRENT SYMPOSIA (CS) C1 Aging and Longevity
10:30 - 11:00		A2 Agricultural Applications	C2 History of Genetics
11:00 - 11:30		A3 Quantitative and Statistical Genetics	C3 Biodiversity/Adaption
11:30 - 12:00		A4 Infection	C4 Pharmacogenomics
12:00 - 12:30		A5 Genetic Model Organisms: Discovery to Translation	C5 Genetics of Sex
12:30 - 13:00		A6 Teaching Genetics	C6 Plant Genetics
13:00 - 13:30		Lunch	Lunch
13:30 - 14:00		Satellite A1	Satellite B1
14:00 - 14:30		Roche Diagnostics	Applied Biosystems Enabling New Applications with SOLID™ System Next Generation Sequencing Platform
14:30 - 15:00		Lunch	Lunch
15:00 - 15:30		CONCURRENT SYMPOSIA (CS) B1 Epigenetics (2): Development	CONCURRENT SYMPOSIA (CS) D1 Cancer Genetics
15:30 - 16:00		B2 Biotechnology	D2 Evolution/Speciation
16:00 - 16:30		B3 Microbial Genetics	D3 Complex Traits
16:30 - 17:00	Opening Ceremony Ernst-L. Winnacker	B4 Clocks and Rhythms	D4 Systems Biology/IT
17:00 - 17:30	Keynote Symposium "Mutating Genomes" Christiane Nuesselein-Volhard (Nobel Laureate) Oliver Smithies (Nobel Laureate) Mario Capecchi (Nobel Laureate)	B5 Comparative Genomics	D5 Genome-Environment Interactions/Ecology
17:30 - 18:00		B6 Population Genetics	D6 Societal, Ethical, Legal Issues of Genetics (SELIG)
18:00 - 18:30		Plenary Lecture 2 Allan C. Spradling - Gruber Genetics Prize Ceremony, 2008	Plenary Lecture 4 Eric Lander - Reading the Human Genome
18:30 - 19:00			
19:00 - 19:30	Welcome Reception		
19:30 - 20:00			

TIME PLANNER

TIME	TUESDAY, JULY 15	WEDNESDAY, JULY 16	THURSDAY, JULY 17
08:30 - 09:00	Plenary Lecture 5 Hall 2 Phillip Sharp (Nobel Laureate) - Gene regulation by small RNAs	Plenary Lecture 6 Hall 2 Svante Pääbo - Neandertal Genomics	Plenary Lecture 8 Hall 2 Yoshinori Ohsumi - Autophagy in Yeast
09:00 - 09:30			
09:30 - 10:00	Break	Break	Break
10:00 - 10:30	CONCURRENT SYMPOSIA (CS) E1 RNA World (1): RNA Machines Hall 3	CONCURRENT SYMPOSIA (CS) F1 Evolution of Humans Hall 3 F2 RNA World (2): microRNAs and endogenous siRNAs Roofgarden	CONCURRENT SYMPOSIA (CS) H1 Chromosome Segregation Hall 7 H2 Human Diseases: Animal Models Hall 3
10:30 - 11:00	E2 Human Genetics (1) Roofgarden E3 Veterinary Genetics Hall 4/5 E4 Stem Cells Hall 7	F3 Neurogenetics (1) Hall 7 F4 Technology Bioimaging Hall 9 F5 Immunogenetics Hall 10 F6 Genetics of Symbiosis Hall 4/5	H3 Developmental Genetics (1): Signalling Roofgarden H4 Behavior Hall 9 H5 Last Minute Excitement Hall 10 H6 Metagenomics Hall 4/5
11:00 - 11:30	E5 Computational Genomics Hall 10 E6 Evolution of Development Hall 9		
11:30 - 12:00			
12:00 - 12:30	Lunch	Lunch	Lunch
12:30 - 13:00		Satellite D1 Hall 4/5 Illumina Inc.	
13:00 - 13:30			CONCURRENT SYMPOSIA (CS) I1 Mutation/DNA Repair/ Recombination Hall 10 I2 Genetics and World Hunger Hall 3 I3 Genetics of Parasitism Hall 9 I4 Mammalian Genetics Roofgarden I5 Developmental Genetics (2): Movement Hall 7 I6 Synthetic Biology Hall 4/5
13:30 - 14:00			
14:00 - 14:30		Lunch	
14:30 - 15:00	Workshop 1: Functional Genomics: From Disease Genes to Protein Networks Hall 6	CONCURRENT SYMPOSIA (CS) G1 Evolutionary Genomics Hall 3 G2 Neurogenetics (2) Roofgarden G3 Human Genetics (2) Hall 7 G4 Genetics of Fungi Hall 9 G5 Omics: Genomics, Transcriptomics, Proteomics, Metabolomics Hall 10 G6 Genetics of Cell Biology Hall 4/5	
15:00 - 15:30	Workshop 2: Plant Artificial Minichromosomes: Potential Vectors for Gene Transfer Hall 8		Break
15:30 - 16:00			Plenary Lecture 9 Hall 2 Antoine Kremer- Ecological Genetics
16:00 - 16:30			
16:30 - 17:00		Break	Closing Ceremony
17:00 - 17:30		Plenary Lecture 7 Hall 2 Richard Axel (Nobel Laureate)- Olfactory Perception	
17:30 - 18:00			
18:00 - 18:30			

**Workshop 1: Functional Genomics: From Disease
Genes to Protein Networks**

Chair: Wurst, W. (DE)

Speakers: Mann, M. (DE) / Stewart, F. (DE)
Slabicki, M. (DE) / Rudnicki, M. (CA)
Skarnes, B. (UK)

**Workshop 2: Plant Artificial Minichromosomes:
Potential Vectors for Gene Transfer**

Chair: Schubert, I. (DE)

Speakers: Birchler, J. (US) / Copenhaver, G. (US)
Svitashev, S. (US) / Murata, M. (JP)

Poster Session B



SCIENTIFIC PROGRAM

CONCURRENT SYMPOSIA (CS)

TOPIC	CS	TOPIC	CS
RNA WORLD (1): RNA MACHINES	E1	GENETICS OF FUNGI	G4
Chair: Izaurrealde, Elisa Co-Chair: Erdmann, Volker		Chair: Kahmann, Regine Co-Chair: Brakhage, Axel	
Speakers: Izaurrealde, E. (DE) / Siomi, M. (JP) / Patel, D. (US) Kurreck, J. (DE) / Mizgalska, D. (PL)		Speakers: Kahmann, R. (DE) / Bonfante, P. (IT) / Heintzen, C. (UK) Schueller, H. (DE) / Heinekamp, T. (DE)	
HUMAN GENETICS (1)	E2	OMICS: GENOMICS, TRANSCRIPTOMICS, PROTEOMICS, METABOLOMICS	G5
Chair: Chakravarti, Aravinda Co-Chair: Sperling, Karl		Chair: Aebersold, Ruedi Co-Chair: Lehrach, Hans	
Speakers: Chakravarti, A. (US) / Majumder, P. P. (IN) / Liu, E. (SG) Lan, F. (CN) / Maynard, N. (US)		Speakers: Aebersold, R. (CH) / Oliver, S. (UK) / Gavin, A.-C. (DE) Wilming, L. (UK) / Sarov, M. (DE)	
VETERINARY GENETICS	E3	GENETICS OF CELL BIOLOGY	G6
Chair: Haley, Chris Co-Chair: Niemann, Heiner		Chair: Cooley, Lynn Co-Chair: Schliwa, Manfred	
Speakers: Haley, C. (UK) / Bradley, D. (IE) / Andersson, L. (SE) Charlier, C. (BE) / Kues, W. (DE)		Speakers: Cooley, L. (US) / Rao, Y. (CN) / Podbilewicz, B. (IL) Schenck, A. (NL) / Saveanu, C. (FR)	
STEM CELLS	E4	CHROMOSOME SEGREGATION	H1
Chair: Lehmann, Ruth Co-Chair: Schöler, Hans		Chair: Orr-Weaver, Terry Co-Chair: Ellenberg, Jan	
Speakers: Lehmann, R. (US) / Buckingham, M. (FR) / Schöler, H. (DE) Monk, A. (AU) / Tajbakhsh, S. (FR)		Speakers: Orr-Weaver, T. (US) / Kops, G. (NL) / Uhlmann, F. (UK) Szabad, J. (HU) / Lange, B. (DE)	
COMPUTATIONAL GENOMICS	E5	HUMAN DISEASES: ANIMAL MODELS	H2
Chair: Birney, Ewan Co-Chair: Vingron, Martin		Chair: Jenkins, Nancy Co-Chair: Hrabé de Angelis, M.	
Speakers: Birney, E. (UK) / Guigó, R. (ES) / Beck, S. (UK) Robinson, P. (DE) / Schönbach, C. (SG)		Speakers: Jenkins, N. (SG) / Stewart, C. (SG) / Bonini, N. (US) / Gondo, Y. (JP) / Hrabé de Angelis, M. (DE)	
EVOLUTION OF DEVELOPMENT	E6	DEVELOPMENTAL GENETICS (1): SIGNALLING	H3
Chair: Kaufman, Thomas Co-Chair: Wimmer, Ernst		Chair: Wieschaus, Eric (Nobel Laureate) Co-Chair: Hammerschmidt, M.	
Speakers: Kaufman, T. (US) / Duboule, D. (CH) / Hasebe, M. (JP) Schoppmeier, M. (DE) / Theissen, G. (DE)		Speakers: Wieschaus, E. (US) / Leyser, O. (UK) / Stainier, D. (US) Mariyappa, D. (UK) / Russ, A. (UK)	
EVOLUTION OF HUMANS	F1	BEHAVIOR	H4
Chair: Di Rienzo, Anna Co-Chair: Oefner, Peter		Chair: Sokolowski, Marla Co-Chair: Gerber, Bertram	
Speakers: Di Rienzo, A. (US) / McVean, G. (UK) / Hammer, M. (US) Jakobsson, M. (US) / Labuda, D. (CA)		Speakers: Sokolowski, M. (CA) / Kyriacou, C. P. (UK) / Boomsma, D. (NL) Anholt, R. (US) / Philibert, R. (US)	
RNA WORLD (2): microRNAs AND ENDOGENOUS siRNAs	F2	LAST MINUTE EXCITEMENT	H5
Chair: Baulcombe, David Co-Chair: Kurreck, Jens		Chair: Batterham, Phil Co-Chair: Nordheim, Alfred	
Speakers: Baulcombe, D. (UK) / Meister, G. (DE) / Kim, N. (KR) Takeda, H. (BE) / Eulalio, A. (DE)		Speakers: Ruan, Y. (SG) / Gudbjartsson, D. (IS) / Axtell, M. (US) Land, H. (US) / Gingeras, T. (US)	
NEUROGENETICS (1)	F3	METAGENOMICS	H6
Chair: Bellen, Hugo Co-Chair: Wurst, Wolfgang		Chair: Huson, Daniel Co-Chair: Wohlleben, Wolfgang	
Speakers: Dickson, B. (AT) / Bargmann, C. (US) / Zoghbi, H. (US) Chaudhary, K. (DE) / Choi, S. (US)		Speakers: Huson, Daniel (DE) / Jansson, J. (SE) / Rodriguez-Valera, F. (ES) Ikemura, T. (JP) / Davenport, C. (ZA)	
TECHNOLOGY/BIOIMAGING	F4	MUTATION/DNA REPAIR/RECOMBINATION	I1
Chair: Frommer, Wolf Co-Chair: Griesbeck, Oliver		Chair: Lindahl, Tomas Co-Chair: Wiesmüller, Lisa	
Speakers: Frommer, W. (US) / Miyawaki, A. (JP) / Deisseroth, K. (US) Runz, H. (DE) / Griesbeck, O. (DE)		Speakers: Lindahl, T. (UK) / Van der Horst, B. (NL) / Klungland, A. (NO) Akiyama, M. (JP) / Sperling, K. (DE)	
IMMUNOGENETICS	F5	GENETICS AND WORLD HUNGER	I2
Chair: Akira, Shizuo Co-Chair: Pfeffer, Klaus		Chair: Potrykus, Ingo Co-Chair: Kempken, Frank	
Speakers: Akira, S. (JP) / Cooper, M. (US) / Rajewsky, K. (US) Galimov, A. (RU) / Ligoxygakis, P. (UK)		Speakers: Potrykus, I. (CH) / Zhen, Z. (CN) / Gressel, J. (IL) Warthmann, N. (PH)	
GENETICS OF SYMBIOSIS	F6	GENETICS OF PARASITISM	I3
Chair: Holub, Eric Co-Chair: Andersson, Siv		Chair: Hill, Adrian Co-Chair: Dessein, Alain	
Speakers: Holub, E. (UK) / Andersson, S. (SE) / Parniske, M. (DE) Nikoh, N. (JP) / Göttfert, M. (CH)		Speakers: Hill, A. (UK) / Dessein, A. (FR) / Burdon, J. (AU) Becker, M. (UK) / Timmann, C. (GH)	
EVOLUTIONARY GENOMICS	G1	MAMMALIAN GENETICS	I4
Chair: Clark, Andy Co-Chair: Saedler, Heinz		Chair: Schimenti, John Co-Chair: Gossler, Achim	
Speakers: Clark, A. (US) / Philippe, H. (CA) / Carvalho, B. (BR) Panopoulou, G. (DE) / Backström, N. (FI)		Speakers: Schimenti, J. (US) / Ostrander, E. (US) / Hayashizaki, Y. (JP) Wu, X. (CN) / Ivics, Z. (US)	
NEUROGENETICS (2)	G2	DEVELOPMENTAL GENETICS (2): MOVEMENT	I5
Chair: Shin, Hee-Sup Co-Chair: Graw, Jochen		Chair: Han, Min Co-Chair: Knust, Elisabeth	
Speakers: Shin, H.-S. (KR) / Bellen, H. (US) / Bucan, M. (US) Schweizer, U. (DE) / Lighthart, L. (NL)		Speakers: Han, M. (US) / Parkhurst, S. (US) / Raz, E. (DE) Hoppe, T. (IT) / Gaspar, I. (HU)	
HUMAN GENETICS (2)	G3	SYNTHETIC BIOLOGY	I6
Chair: Reis, André Co-Chair: Mundlos, Stefan		Chair: Church, George Co-Chair: Budisa, Nediljko	
Speakers: Reis, A. (DE) / Eichler, E. (US) / Kong, A. (IS) Dibbens, L. (AU) / Digweed, M. (DE)		Speakers: Church, G. (US) / Smolke, C. (US) / Panke, S. (CH) Wiltschi, B. (DE) / Lepthien, S. (DE)	