

Otto Hahn Medal
for junior scientists at the Max Planck Society
2012 prize winners
(presented at the 2013 General Meeting)
Biology & Medicine Section

No.	Name	Institute/research group	The prize is awarded
1.	Elmar Behrmann	MPI of Molecular Physiology, Dortmund	for the structural elucidation of the actin-tropomyosin-myosin protein complex by means of cryo-electron microscopy
2.	Dr. Jörg Braun	MPI for Developmental Biology, Tübingen	for his outstanding work on the mechanisms of miRNA-mediated gene silencing
3.	Dr. Nana-Maria Grüning	MPI for Molecular Genetics, Berlin	for the identification of a coordination mechanism in the cellular energy and redox metabolism which enables the rapid growth of cancer cells
4.	Dr. Javier Matías Hernández	MPI for Biophysical Chemistry, Göttingen	for work on elucidating the mechanism of the fusion of membranes mediated by SNARE proteins
5.	Dr. Sophie Knobloch	MPI for Medical Research, Heidelberg	for work on the innervation of forebrain structures through axonal branching of hypothalamic oxytocin neurons
6.	Camilo Pérez	MPI of Biophysics, Frankfurt	for groundbreaking work on elucidating the structure of the BetP betaine transporter, and the molecular basis of its activation and regulation
7.	Dr. Meredith Schumann	MPI for Chemical Ecology, Jena	for the study of the defensive functions of plant odours in indirect plant-insect interactions
8.	Xiaoyue Wang	MPI for Developmental Biology, Tübingen	for experimental proof that the circuits in complex genetic networks change in the course of evolution.

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Chemistry, Physics & Technology Section

No.	Name	Institute/research group	The prize is awarded
9.	Jonas Ballani	MPI for Mathematics in the Sciences, Leipzig	for work on the efficient approximation of high-dimensional, tensor-structured data
10.	Dr. Gregor Birkenmeier	MPI for Plasma Physics, Garching	for the precise experimental investigation of the three-dimensional microscopic structure of turbulence in magnetised plasmas
11.	Christian Borchert	MPI for Dynamics of Complex Technical Systems, Magdeburg	for work on the modelling and observation of the growth dynamics of polyhedral crystals
12.	Aliaksei Charnukha	MPI for Solid State Research, Stuttgart	for the discovery and explanation of optical anomalies in iron-based high-temperature superconductors
13.	Wolfgang Keil	MPI for Dynamics and Self-Organisation, Göttingen	for investigations into the self-organisation and functional optimisation of cerebral cortex architecture
14.	Dr. Björn Lange	MPI für Eisenforschung, Düsseldorf	for theoretical studies into the limits of p-dopability in semiconductor-based light emitters
15.	Dr. Leonid Lichtenstein	Fritz Haber Institute, Berlin	for the elucidation of the atomic structure of a two-dimensional amorphous silica network with the scanning tunnelling and atomic force microscope
16.	Dr. Fernando Pastawski	MPI of Quantum Optics, Garching	for theoretical studies into the storage of quantum information, its experimental implementation and technological application
17.	Jonas Ranft	MPI for the Physics of Complex Systems, Dresden	for theoretical work on the dynamics of tissues
18.	Dr. Christoph Riplinger	MPI for Chemical Energy Conversion, Mülheim a. d. Ruhr	for groundbreaking quantum chemical contributions to an understanding of the reactivity and the spectroscopic properties of large and super-large molecules
19.	Dr. Mariana Rossi Carvalho	Fritz Haber Institute, Berlin	for theoretical work on the parameterless description of the structure and dynamics of large peptide molecules from first principles
20.	Dr. Sven Sturm	MPI for Nuclear Physics, Heidelberg	for work on determining the g-factor of the bonded electron in hydrogenic silicon, the most sensitive test of the quantum electrodynamics of bonded states
21.	Dr. Carola Winzen	MPI for Informatics, Saarbrücken	for the work "Toward a complexity theory for randomized search heuristics: black-box models"
22.	Dr. Irina Zhuravleva	MPI for Astrophysics, Garching	for research into X-ray radiation transport in the hot gas of galaxy clusters, its application in observations, and for the development of innovative theoretical methods of studying the dynamics of the hot gas

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Human Sciences Section

No.	Name	Institute/research group	The prize is awarded
23.	Friederike Busch	MPI for Intellectual Property and Competition Law, Munich	for the study, from both a legal and an anthropological perspective, of the protection of cultural expressions in Latin American states
24.	Mark Dingemans	MPI for Psycholinguistics, Nijmegen	for work on the significance and use of ideophones in Siwu, a Niger-Congo language spoken in Ghana
25.	Dr. Yana Fandakova	MPI for Human Development, Berlin	for the study of age differences in the mechanisms which falsely cause people to remember events they have not experienced
26.	Nandor Knust	MPI for Foreign and International Criminal Law, Freiburg	for outstanding research on the application of a pluralistic model of transitional justice for the reappraisal of state crime
27.	Adam Lenart	MPI for Demographic Research, Rostock	for mathematical and statistical research into the nature of Gompertz distribution and three of its key extensions that are often used in demographic analyses
28.	Philip Mader	MPI for the Study of Societies, Cologne	for his work on the financialisation of poverty through microfinance and the resulting crises in developing countries
29.	Daniela Schweigler	MPI for Social Law and Social Policy, Munich	for the study of "The right to be seen by a certain doctor (§ 109 SGG) – dogmatic integration and social welfare court practice of a controversial legal instrument"
30.	Dr. Marco Taubert	MPI for Human Cognitive and Brain Sciences, Leipzig	for research into plasticity in the somatosensory system in respect of learning-induced changes in the structure and function of the human brain