MAX-PLANCK-GESELLSCHAFT

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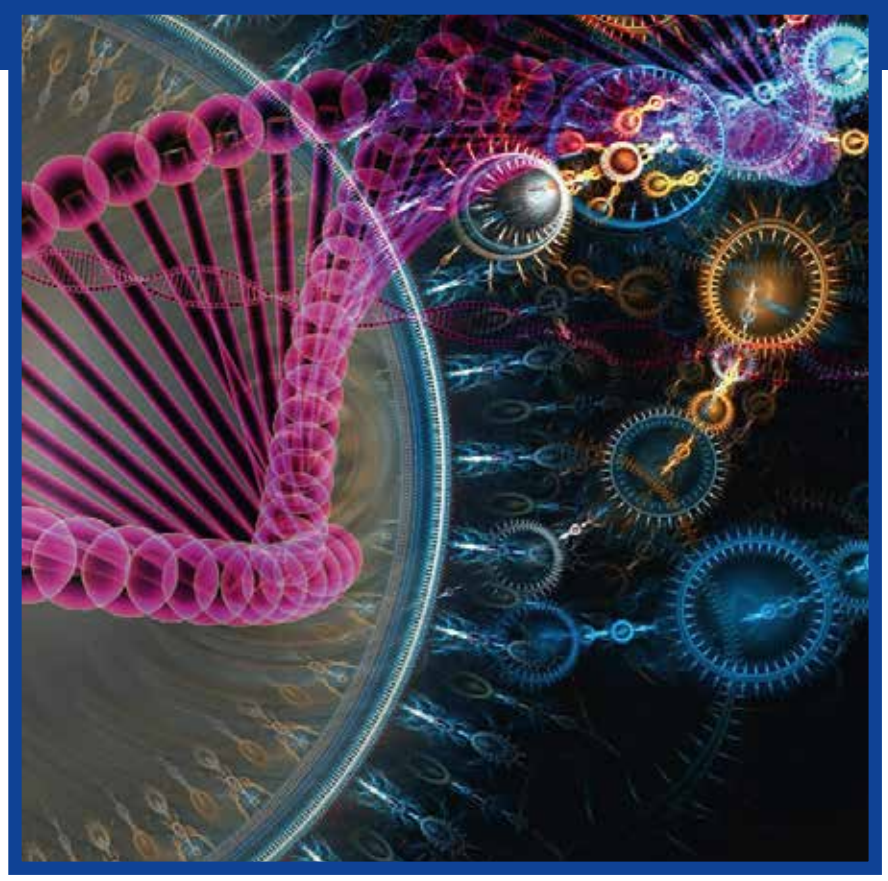
Future Trends in DNA-based Nanotechnology

Max Planck Institute for the Physics of Complex Systems

International Workshop
29 May - 2 June 2017



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Nucleic acid-based nanotechnology employing basic biological principles such as molecular recognition and self-assembly for advanced materials synthesis is now a pioneering field. The meeting will reflect the enormous progress in this rapidly growing cross-disciplinary field, and, by bringing experts from different scientific fields together, will enhance the exchange of ideas and understanding.

Topics

- Designer nucleic acid nanoarchitectures
- DNA-directed materials design
- DNA-directed photonic structures and sensor applications
- Cellular and in-vivo DNA nanotechnology
- Advanced imaging techniques and structure modeling for nucleic acid nanostructures
- Dynamic DNA nanotechnology
- DNA nanotechnology for programmable molecular circuitry, intracellular biocomputation and synthetic biology

Invited speakers

Aleksei Aksimentiev (US)
Ebbe Sloth Andersen (DK)
Sébastien Bidault (FR)
Baoquan Ding (CN)
Oleg Gang (US)
Ashwin Gopinath (US)
Kurt V. Gothelf (DK)
Björn Högberg (SE)
Stefan Howorka (UK)
Ralf Jungmann (DE)
Yonggang Ke (US)
Tim Liedl (DE)
Chenxiang Lin (US)
Dongsheng Liu (CN)
Chengde Mao (US)
Christof Niemeyer (DE)
Hao Pei (CN)
Ulrich Rant (DE)
Ivo Sbalzarini (DE)
Nadrian C. Seeman (US)
Ralf Seidel (DE)
William Shih (US)
Friedrich C. Simmel (DE)
Philip Tinnefeld (DE)
Andrew Turberfield (UK)
Qiangbin Wang (CN)
Yossi Weizmann (US)
Itamar Willner (IL)

Scientific coordinators

Chunhai Fan
Shanghai, China

Michael Mertig
Dresden, Germany

Hao Yan
Tempe, USA

Organisation

Katrin Lantsch
MPIPKS Dresden

Applications received before 28 February 2017 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

For further information please contact:
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We also offer individual fellowships (phd, postdoc, sabbatical). Applications are accepted continuously. For details, please check www.pks.mpg.de/visitors