

Agenda

Agenda subject to change

Sunday, October 13, 2019

09:00	<p>Registration Opens Holiday Inn - Foyer Ballsaal</p>
10:00 - 12:00	<p>Optional Preconference Session: Next-Gen Early Career Scientist Session Holiday Inn - Grosser Saal Chairs: Ronald A.M. Buijsen, PhD, <i>Leiden University Medical Center</i> Daniel O'Reilly, MChem, <i>McGill University</i></p> <p>10.05-10.35 The First Few Bases: Career and Chemical Modification Plenary Speaker: Jonathan Watts, PhD, <i>RNA Therapeutics Institute, University of Massachusetts Medical School</i></p> <p>10:35–10:51 Short Talk 1 <i>selected from abstracts</i></p> <p>10:51–11:07 Short Talk 2 <i>selected from abstracts</i></p> <p>11:07–11:23 Short Talk 3 <i>selected from abstracts</i></p> <p>11:23–11:39 Short Talk 4 <i>selected from abstracts</i></p> <p>11:39–11:55 Short Talk 5 <i>selected from abstracts</i></p> <p>11:55–12:00 Voting for Best Talk</p>
12:00 - 13:30	<p>Lunch Break <i>Lunch on Own</i></p>
13:30 - 17:00	<p>Optional Preconference Session: Oligonucleotide Therapeutics Education Workshop Holiday Inn - Grosser Saal Designing and Making Oligonucleotide Therapeutics, Understanding Their Development and CMC Specificities Chair: Marc Lemaitre, PhD, <i>M_L Consult</i></p> <p>13.30-13.45 Welcome & Introduction</p> <p>13.35-14.05 Oligonucleotide Manufacturing Process Planning, Development and Scale-up: CMC Strategy for Sustainable Manufacturing Eduardo PAREDES, PhD, <i>Nitto Denko Avecia</i></p> <p>14.05-14.35 Topic: miRNA Development from Lead Selection to Phase 2 Prof. Dr. Ekkehard Leberer, <i>Sanofi Deutschland GmbH</i></p> <p>14.35-15.05 Selection and Chemistry Improvement of siRNA for Therapeutic Development Anastasia Khvorova, PhD, <i>UMass, RNA Therapeutics Institute</i></p> <p>15.05-15.30 Break</p> <p>15.30-16.00 Current CMC and Regulatory Aspects for Oligonucleotide Therapeutics Thomas Rupp, PhD, <i>Thomas Rupp Consulting</i></p>

16.00-16.30 **A Bioanalytical Toolkit to Support Oligonucleotide Therapeutics Throughout the Drug Development Pipeline**
Brooke Rock, *Amgen Research San Francisco*

16.30-17.00 **Q&A**

Session Chair: Marc Lemaitre, PhD

17:00 - 18:00 **Welcome Reception and Meet the Experts Networking**

18:00 - 19:30 **Poster Session I**
ODD numbered posters hosted

19:30 **Dinner on own**

20:30 - 22:30 **Optional: Early Career Scientist Social Event**
Come meet fellow early career OTS meeting delegates/members for an event of networking. This no-host, informal event will start at 20.30 on and be held in the Lobby Bar at Motel One, just a 5 minute walk from the Holiday Inn. No RSVP required.

Monday, October 14, 2019

08:00 - 08:30 **Welcome Coffee**
Holiday Inn - Foyer Grosser Saal

08:30 - 08:45 **Welcome & Opening Remarks**
Holiday Inn - Grosser Saal
Annemieke Aartsma-Rus, PhD, *Leiden University Medical Center, OTS President*
Gunther Hartmann, MD, PhD, *University Hospital Bonn, Meeting Organizing Chair*

08:45 - 10:45 **Session I: Nucleic Acid Chemistry & Biology**
Chair: Masad J. Damha, PhD, FCIC, *McGill University*

8.45-9.05 **Sequence Selective Recognition of Double-Stranded RNA by Cationic Nucleobase and Backbone-Modified Peptide Nucleic Acids**
Eriks Rozners, PhD, *Binghamton University*

9.05-9.25 **DNA Nanostructures for Cellular Delivery of Therapeutics**
Hanadi Sleiman, PhD, *McGill University*

9.25-9.45 **Synthesis and Properties of Oligonucleotides with Triazole, Carbamate and Amide Backbones**
Tom Brown, PhD, *University of Oxford*

9.45-10.05 **Closing the Gap on Therapeutic Aptamers**
John Chaput, PhD, *University of California, Irvine*

10.05-10.25 **Short Talk 1**
selected from abstracts

10.25-10.45 **Short Talk 2**
selected from abstracts

Session Chair: Masad J. Damha, PhD, FCIC

10:45 - 11:15 **Refreshment Break**

11:15 - 12:15

Keynote Presentation

TBA

Prof. Dr. Thomas Carell, *Ludwig-Maximilians-Universität München*

12:15 - 13:30

Lunch

Holiday Inn - Grat3

Hosted lunch buffet

13:30 - 15:30

Session II: Nucleic Acid Functional Interference Techniques

Chair: Anastasia Khvorova, PhD, *RNA Therapeutics Institute, UMass Medical School*

13.30-13.55 TBA

13.55-14.20 TBA

14.20-14.45 TBA

14.45-15.00 Short Talk 1
selected from abstracts

15.00-15.15 Short Talk 2
selected from abstracts

15.15-15.30 Short Talk 3
selected from abstracts

Session Chair: Anastasia Khvorova, PhD

15:30 - 16:00

Refreshment Break

16:00 - 18:00

Session III: Nucleic Acid Damage & Repair

Chair: Rachel Meyers, PhD, *Third Rock Ventures*

16.00-16.25 RNA or DNA: Unexpected Therapeutic Mechanism of a Classic Nucleoside Drug
Prof. Nathan W. Luedtke, *University of Zurich*

16.25-16.50 TBA

16.50-17.15 TBA

17.15-17.30 Short Talk
selected from abstracts

17.30-17.45 Short Talk
selected from abstracts

17.45-18.00 Short Talk
selected from abstracts

Session Chair: Rachel Meyers, PhD

18:00 - 20:00

Poster Session II

EVEN numbered posters hosted

20:00

Dinner on Own

Tuesday, October 15, 2019

08:00 - 08:30

Welcome Coffee

Holiday Inn - Foyer Grosser Saal

08:30 - 10:30

Session IV: Nucleic Acid Immunity

Chair: Gunther Hartmann, MD, PhD, *University Hospital Bonn*

8.30-8.55

TBA

Shizuo Akira, MD, PhD, *Osaka University*

8.55-9.20

Nucleic Acid Sensing in Human Myeloid Cells

Prof. Dr. Veit Hornung, *Ludwig-Maximilians-Universität München*

9.20-9.45

Circular RNA Immunity

Grace Chen, PhD, *Yale University School of Medicine*

9.45-10.00

Short Talk 1

selected from abstracts

10.00-10.15

Short Talk 2

selected from abstracts

10.15-10.30

Short Talk 3

selected from abstracts

Session Chair: Gunther Hartmann, MD, PhD

10:30 - 11:00

Refreshment Break

11:00 - 13:00

Session V: Awards Presentations and Talks

Chair: Frank Rigo, PhD, *Awards Chairperson*

Annemeike Aartsma-Rus, PhD, *OTS President*

Welcome & Announcements

Poster Award Winners, Early Career Scientist Session Best Talk Award, Ono Foundation Grant Program

8.40-9.00

Dr. Alan Gewirtz Memorial Scholarship

TBA

9.00-9.20

Mary Ann Liebert, publishers Young Investigator Award

TBA

9.20-9.40

Paper of the Year Award

TBA

9.40-10.30

Lifetime Achievement Award

Living in the World of Oligonucleotide Therapeutics

Mano Manoharan, PhD, *Alynlam Pharmaceuticals*

Session Chair: Frank Rigo, PhD

13:00 - 14:30

Lunch

Holiday Inn - Grat3

Hosted lunch buffet

14:30 - 16:30

Session VI: Oligonucleotide Delivery & Targeting

Chair: Mark Kay, MD, PhD, *Stanford University*

14.30-14.55

Targeting Blood Clots and Tumors with Aptamers

Bruce Sullenger, PhD, *Duke University*

14.55-15.20

mRNA Therapy for Rare Diseases: Optimization of Payload and Delivery System

Pete Lutwyche, PhD, *Genevant Sciences Corp*

15.20-15.45

Cell Specific Centyrin Targeting of Oligonucleotides for Cancer

Karyn O'Neil, PhD, *Aro Biotherapeutics*

15.45-16.00

Short Talk 1

selected from abstracts

16.00-16.15 **Short Talk 2**
selected from abstracts

16.15-16.30 **Short Talk 3**
selected from abstracts

Session Chair: [Mark Kay, MD, PhD](#)

18:30 - 22:30

Annual Meeting Party



Don't miss out on this year's Annual Meeting Party at the historic [Münchner Künstlerhaus](#) (Munich Artist House)

sponsored by  **ChemGenes**
CORPORATION

Separate RSVP and ticket required. Tickets must be purchased in advance of the meeting. Includes: dinner, authentic German entertainment and two drink tickets. *Additional drinks may be purchased onsite at the cash bar with cash only - no credit cards accepted.*

Wednesday, October 16, 2019

08:00 - 08:30

Welcome Coffee
Holiday Inn - Foyer Grosser Saal

08:30 - 10:30

Session VII: Oligonucleotide Preclinical Stage Discovery

Chair: [Art Levin, PhD, Avidity BioSciences](#)

8.30-8.35 **Welcome & Announcements: Poster Award Winners**

8.35-9.00 **Development of Non-coding RNA-based Treatment Strategies for Cardiac Diseases**

[Prof. Dr. Dr. med. Thomas Thum, Hannover Medical School](#)

9.00-9.25

TBA

[Stefanie Dimmeler, PhD, Goethe-Universität Frankfurt am Main \(invited\)](#)

9.25-9.50

TBA

[Luca Cartegni, PhD, Rutgers University](#)

9.50-10.05

Short Talk 1

selected from abstracts

10.05-10.20

Short Talk 2

selected from abstracts

10.20-10.35

Short Talk 3

selected from abstracts

Session Chair: [Art Levin, PhD](#)

10:30 - 11:00

Refreshment Break
Holiday Inn - Foyer Grosser Saal

11:00 - 13:00

Session VIII: Oligonucleotide Preclinical Stage Development

Chair: [Annemieke Aartsma-Rus, PhD, Leiden University Medical Center](#)

11.00-11.25

Antisense Oligonucleotide Therapies for Rare Neurodegenerative Disorders

Thomas de Vlaam, *Amylon Therapeutics*

- 11.25-11.50** **PNPLA3 Antisense Oligonucleotide, a Novel Precision Medicine Approach to Treat Non-alcoholic Steatohepatitis**
Daniel Lindén, PhD, *AstraZeneca*
- 11.50-12.05** The Role of Patient Organisations in Drug Development
Elizabeth Vroom, *World Duchenne Organisation*
- 12.05-12.20** **Short Talk 1**
selected from abstracts
- 12.20-12.35** **Short Talk 2**
selected from abstracts
- 12.35-12.50** **Short Talk 3**
selected from abstracts

Session Chair: [Annemieke Aartsma-Rus, PhD](#)

13:00 - 14:30

Lunch
Holiday Inn - Grat3
Hosted lunch buffet

14:30 - 16:30

Session IX: Oligonucleotide Clinical Studies

Chair: Art M. Krieg, MD, *Checkmate Pharmaceuticals*

- 14.30-14.50** **TBA**
- 14.50-15.10** **TBA**
- 15.10-15.30** **TBA**
- 15.30-15.50** **TBA**
- 15.50-16.10** **TBA**
- 16.10-16.30** **TBA**

Session Chair: [Arthur Krieg, MD](#)

16:30 - 16:45

Closing Remarks & Meeting Adjournment