



20th Annual Meeting of the Oligonucleotide Therapeutics Society
October 6-9, 2024, Centre Mont-Royal, Montreal, QC, Canada
Meeting Agenda
As of April 15, 2024

Sunday, October 6 (Day ONE)

08:00-09:00 *Registration Open – Welcome Coffee*

09:00-11:00 Pre-conference Session - Oligonucleotide Therapeutics Education Workshop Chair: Hassan Fakh, Ph.D., <i>Postdoctoral Associate, RNA Therapeutics Institute, UMass Chan Medical School</i>

09:00 – 09:05 Intro by chair

09:05 – 09:20 **Thomas Duchaine**, Ph.D., *McGill University*

09:20 – 09:35 **Selecting A Platform For Novel Oligonucleotide Clinical Bioanalysis, Assessing Benefits And Challenges.**
Rebecca Lescarbeau, Ph.D., *Intellia Therapeutics*

09:35 – 09:50 **The Evolving Landscape Of Oligonucleotide Manufacturing: Meeting Future Demand With Ligation Technologies.**
David Butler, Ph.D., *Hongene Biotech Corp.*

09:50 – 10:05 **Nonclinical Development Of Nucleic Acid-Based Therapies**
Jessica Grieves, DVM, Ph.D., DACVP, *Ionis Pharmaceuticals, Inc.*

10:05 – 11:00 *Speaker to be announced*

Hosted Lunch Break (for all registered delegates)
11:00-13:00 *& Mentorship-Program Lunch (reserved for program attendees only)*

13:00-15:00 Pre-conference Session Contd. - New-Gen Early Career Scientist Session Co-Chairs: Eva-Maria Manz, Ph.D. Candidate, <i>ETH Zürich</i> & Jathavan Asohan, Ph.D. Candidate, <i>McGill University</i>
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13:00-13:05 Welcome & Introduction

13:05-13:30 Keynote Address:
A Decade of Extrahepatic Oligonucleotide Delivery
Maire Fiona Jung, Ph.D. *Eli Lilly*

13:30-15:00 Short Talks

15:00 Voting for Best Talk of Next Gen Session

15:00-15:30 *Refreshment Break*

15:30-16:30 Annual Meeting Opening & Keynote Session
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15:30-15:45 Welcome & Opening Remarks
David Corey, Ph.D., *Organizing Chair, UT Southwestern*
Laura Sepp-Lorenzino, Ph.D., *Organizing Chair, Intellia Therapeutics*
Masad J. Damha, Ph.D., *Organizing Chair, McGill University*



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15:45-16:45 Keynote Presentation:
From Rare to Extremely Rare: Applying Lessons Learned From Duchenne Muscular Dystrophy Antisense Oligonucleotide Mediated Exon Skipping To Developing Individualized Treatment
Prof. Dr. Annemieke Aartsma-Rus, Ph.D., *Leiden University Medical Center (LUMC, the Netherlands)*

16:45-19:30 Welcome Reception with Exhibitors (No host poster viewing)

20:00-23:00 STUDENTS ONLY: Networking Event – Early Career Scientist Social Meet Up

Sponsored by: 

Monday, October 7 (Day TWO)

08:00-08:30 Registration Open - Welcome Coffee

08:30-10:30	Session I: Chemistry, Mechanism and Delivery I
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Chair:	Jonathan Hall, Ph.D., <i>ETH Zürich</i>
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08:30 – 08:55 **Modulating siRNA Activities Using Click Chemistry**
Nathan Luedtke, Ph.D., *McGill University*

08:55 – 09:20 **Engineering Of Brainshuttle-Antisense Oligonucleotide Conjugates For Brain Delivery - A Field Guide**
Felix Schumacher, Ph.D., *Roche*

09:20 – 09:45 **Chemically Enhanced RNA Aptamers For Diagnostic And Therapeutic Applications**
Jorgen Kjems, Ph.D., *University of Aarhus*

09:45 – 10:30 Short Talks

10:30-11:00 Refreshment Break

11:00-13:00	Session II: Pre-Clinical I (Early Stage)
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Chair:	Maja Janas De Angelis, Ph.D, <i>DABT, Alnylam Pharmaceuticals</i>
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11:00 – 11:25 **Engineered RNA Targeting Systems In Neurodegeneration**
Gene Yeo, Ph.D., MBA, *UCSD*

11:25 - 11:50 **Preclinical Development Of Personalized ASO Therapeutics Using Patient-Derived Organoid Systems**
Scott Younger, Ph.D., *Genomic Medicine Center, Children's Mercy Kansas City*

11:50 – 12:15 **Realizing the Promise of In Vivo CRISPR Therapies**
Jonathan Phillips, Ph.D., *Intellia Therapeutics*

12:15 – 13:00 Short Talks

13:00-14:30 Hosted Lunch Break



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14.30-16.30 Session III: Pre-clinical II (Late Stage)

Chair: Marie Wikström Lindholm, Ph.D., *Silence Therapeutics*

- 14:30 – 14:55 **TfR1 Fab-Mediated Delivery Of Oligonucleotides For The Treatment Of Rare Neuromuscular Disorders**
Oxana Beskrovnaya, Ph.D., *Dyne Therapeutics*
- 14:55 – 15:20 **Translation of the Pharmacodynamics of Antibody-Oligonucleotide Conjugates for Neuromuscular Disease**
Husam Younis, Ph.D., *Avidity Biosciences*
- 15:20 – 15:45 *Speaker to be announced*
- 15:45 – 16:30 Short Talks

16.30-17.00 Session IV: Presentation of Awards I

Chair: Richard Geary, Ph.D., *Ionis Pharmaceuticals*

Presentation of 2024 Society Advocacy Award
Presentation of 2024 Society Paper of the Year Award – Basic Research Category

17:00-20:00 Poster Session I / Reception (drinks and bites)

(Viewing of ODD numbered posters)

Tuesday, October 8 (Day THREE)

08:00-08:30 Registration Open - Welcome Coffee

08:30-10:30 Session V: DNA/RNA Editing

Chair: Laura Sepp-Lorenzino, Ph.D., *Intellia Therapeutics*

- 08:30 – 08:55 **Guide And Template Engineering For Genome Editing**
Erik Sontheimer, Ph.D., *UMass Chan Medical School*
- 08:55 – 09:20 **Targeted Gene Insertion of Factor 9 as a Potential Durable Treatment for Hemophilia B**
Leah Sabin, Ph.D., *Regeneron Genetic Medicines*
- 09:20 – 09:45 **Writing DNA With RNA: Genome Engineering By Target Primed Reverse Transcription**
Cecilia Cotta-Ramusino, Ph.D., *Tessera Therapeutics*
- 09:45 – 10:00 Invited Speaker or short talk tbc
- 10:00 – 10:30 Short Talks

10:30-11:00 Refreshment Break



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11:00-12:30 Session VI: Awards Session / Lifetime Achievement Awards

11:00 – 11:05 Introduction by **Mano Manoharan**, Ph.D., *AInylam*

11:05 – 12:00 **John Maraganore**, Ph.D., *JMM Innovations*
2024 Lifetime Achievement Award

12:00 – 12:30 Q&A

12:30 - 14:30 Hosted Lunch Break

14:30-15:45 Session VII: Chemistry, Mechanism, Delivery II

Chair: **Steve Dowdy**, Ph.D., *UCSD School of Medicine*

14:30 – 14:55 **Dan Siegwart**, Ph.D., *UTSW*

14:55 – 15:20 **Xiao Wang**, Ph.D., *MIT*

15:20 – 15:45 **Non-Peptidic Delivery Vehicle For ASOs And Chemistry For Next Generation PMOs**
Surajit Sinha, Ph.D., *Indian Association for the Cultivation of Science*

15.45-18.45 Poster Session II Reception

(Viewing of EVEN numbered posters)

Wednesday, October 9 (Day FOUR)

08:00-08:30 Registration Open - Welcome Coffee

08:30-10:30 Session VIII: Awards Session II

Chair: **David Corey**, Ph.D., *UT Southwestern*

8:30-8:45 Presentation of Awards:

- Next Gen Session: Best Talk Announcement
- Announcement of Poster Awards
- Travel Grant Awards
- Paper of the Year Awardee – Late Discovery Category

8:45-9:05 Dr. Alan M. Gewirtz Memorial Scholarship Award for Graduate Students

9:05-9:30 Mary Ann Liebert publishers, Inc. Young Investigator Award

9:30-9:50 Dr. Alan M. Gewirtz Memorial Scholarship Award for Postdocs/Jr Professionals

9:50-10:30 Q&A

10:30-11:00 Refreshment Break



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11:00-13:00 Session IX: Clinical
Chair: Art Krieg, M.D., RTI, *UMass Chan Medical School*

11:00 – 11:20 **Identification and Early Clinical Development of Lepodisiran, a GalNAc-conjugated siRNA Targeting Lipoprotein(a) Production**
Laura Michael, Ph.D., *Eli Lilly and Co.*

11:20 – 11:40 **RNA Editing Program For WVE-006**
Cynthia F. Caracta, MD, FCCP, *Wave Life Sciences*

11:40 - 12:00 Speaker tbc, Alnylam

12:00 – 12:20 Speaker tbc, Ionis

12:20 – 12:40 Speaker to be announced

12:40 – 13:00 Speaker to be announced

13.00-14.30 Hosted Lunch Break

14:30-16:10 Session X: Late Breaking Talks
Chair: Laura Sepp-Lorenzino, Ph.D., *Intellia Therapeutics*

Speakers to be announced.

16:10-16:30 Closing Remarks

16:30 Closing of 20th Annual Meeting of the Oligonucleotide Therapeutics Society

19:00-23:00 Annual Meeting Wrap Party: The Windsor Ballrooms

Sponsored by:

