

7th Annual Meeting of the Nucleic Acids Therapeutics Society of Japan (NatsJ7)

Premium Oral Session

6:00 pm - 8:35 pm (EDT) on August 1 (Mon)

7:00 am - 9:35 am (JST) on August 2 (Tue)

5:00 pm - 7:35 pm (CDT), 4:00 pm - 6:35 pm (MDT), 3:00 pm - 5:35 pm (PDT) on August 1 (Mon)

0:00 am - 2:35 am (CEST) on August 2 (Tue)

Organizer: Takanori Yokota, *Tokyo Medical and Dental University*

6:00 pm (EDT) Opening remarks

Takanori Yokota, *Tokyo Medical and Dental University*

Session 1 6:03 pm (EDT) - 7:03 pm (EDT)

Chair: Mano Manoharan, *Alnylam Pharmaceuticals*

Jonathan Watts, *UMass Medical School*

1. 6:03 pm (EDT) “Novel design strategy of DNA-artificial nucleic acid chimera toward enhancement of target RNA cleavage activities: Application for COVID-19 therapeutics”

Takehiko Wada, *Tohoku University*

2. 6:18 pm (EDT) “DNA/RNA heteroduplex with cationic oligopeptides reduces adverse effects of nucleic acid drugs”

Masahiro Ohara, *Tokyo Medical and Dental University*

3. 6:33 pm (EDT) “Allele-selective targeted therapy for repeat expansion diseases”

Kentaro Sahashi, *Nagoya University Hospital*

4. 6:48 pm (EDT) “Advanced delivery technology of mRNA drugs”

Keiji Itaka, *Tokyo Medical and Dental University*

Session 2 7:03 pm (EDT) - 7:48 pm (EDT)

Chair: David Corey, *UT Southwestern*

Satoshi Obika, *Osaka University*

5. **7:03 pm (EDT)** “Next generation siRNAs specific for mutations in the disease-causing genes”
Kumiko Ui-Tei, *The University of Tokyo*
6. **7:18 pm (EDT)** “Development of exon 53 skipping for Duchenne muscular dystrophy”
Tetsuya Nagata, *National Center of Neurology and Psychiatry*
7. **7:33 pm (EDT)** “Improvement of mRNA function based on chemical modification and structure design”
Hiroshi Abe, *Nagoya University*

Session 3 7:48 pm (EDT) - 8:33 pm (EDT)

Chair: Steven Dowdy, *UCSD School of Medicine*

Punit Seth, *Alnylam Pharmaceuticals*

8. **7:48 pm (EDT)** “Iontophoresis-mediated direct delivery of nucleic acid therapeutics to internal organs via non-blood circulatory pathways”
Kentaro Kogure, *Tokushima University*
9. **8:03 pm (EDT)** “Enhanced splice modulation in rodent CNS by PMO/RNA heteroduplex via ICV route”
Mitsugu Yanagidaira, *Tokyo Medical and Dental University*
10. **8:18 pm (EDT)** “A brief history of stereopure oligonucleotide therapeutics: chemical synthesis and applications”
Takeshi Wada, *Tokyo University of Science*

8:33 pm (EDT) Closing remarks

Steven Dowdy, *UCSD School of Medicine*