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P203	Accelerating Development of SINEUPs for Treatment of Haploinsufficiency-Associated Developmental and Epileptic Encephalopathies	Athena	Olszewski	St. Jude Children's Research Hospital Graduate School
P204	Antigen footprint governs activation of the B cell receptor	Marjan	Omer	MIT
P205	Multivalent display of EpCAM aptamers on DNA nanostructures for targeted siRNA delivery to triple-negative breast cancer cells	Marjan	Omer	MIT
P207	Unveiling the Role of MicroRNAs in Colorectal Cancer	Sonya	Ostashevskaya-Gohstand	UT Southwestern
P208	Higher-order structure evaluation of anti-PD-1 aptamer by combining circular dichroism spectroscopy and statistical testing method.	Taiji	Oyama	JASCO Corporation
P209	RNAi therapeutics against childhood cancer	Caroline	Palm Apergi	Department of Laboratory Medicine, Karolinska Institutet
P210	Oligophore and Semaphore for extrahepatic delivery of therapeutic RNA	Covadonga	Paneda	Altamira Therapeutics
P211	One Gene, Two Therapies: Targeting SCN2A Nano-Rare Mutations with Individualized Antisense Oligonucleotides	Catherine	Parisien	n-Lorem Foundation
P212	Overcoming Preclinical Development Challenges on the Path to Develop a Targeted Treatment for a Patient with Familial Dysautonomia	Catherine	Parisien	n-Lorem Foundation
P213	Mechanistic Underpinnings of Cas9 Guide RNA Ribose Requirements	Adrian	Pater	Wake Forest University School of Medicine
P214	Shuttle Peptide Mediates the Delivery of Phosphorodiamidate Morpholino Oligomers in Mucus Hypersecretion Models	Mia	Pelletier	Laval University
P215	Evaluation of HDAC inhibitors to increase dystrophin rescue in DMD following exon skipping therapy.	Micky	Phongsavanh	Université Saint-Quentin-en-Yvelines (UVSQ)
P216	An Empirical Approach to the Characterization of an Antisense Oligonucleotide Synthesis Process	Thomas	Pickel	Biogen
P217-V	Preliminary Biodistribution and Safety of an Unconjugated Reporter PMO at High Doses in the Central Nervous System of Mice	Ianthe	Pitout	Murdoch University
P221	Polyvalent DNA-encoded libraries (DELs) strategy enabled by a novel crosslinked DNA headpiece conferring improved chemical resiliency.	Julien	Poupart	Institute for Research in Immunology and Cancer
P223	Breaking the Skin Barrier: Novel siRNA Delivery for Dermatological Therapies	Mohamad Omar	Rachid	University of Massachusetts Chan Medical School
P224	tRNA therapeutics to treat stop codon disease	Swetha	Rajasekaran	Alltrna Inc.
P225	Discovery and Optimization of the Pre-Clinical Efficacy of Human PNPLA3-Targeting Short Interfering RNA Molecules (siRNAs) for the Treatment of Metabolic Dysfunction-Associated Steatohepatitis	Vivek	Rajwanshi	Aligos Therapeutics, Inc
P226	Two Pre-clinical Short Interfering RNA Molecules (siRNAs) Targeting Human HSD17B13- for the Treatment of Metabolic Dysfunction-Associated Steatohepatitis	Vivek	Rajwanshi	Aligos Therapeutics, Inc

P227	Extrahepatic Gene Editing and Knockdown Using the Non-Viral Fusogenix Proteolipid Vehicle	Arun	Raturi	Entos pharmaceuticals
P228	Using ADAR1 chimeric eCLIP to understand the on-target and off-target behaviors of RNA editing oligonucleotides	Zhiji	Ren	Korro Bio
P229	ELISA-like hybridization assay for the detection of therapeutic oligonucleotides	Nicholas	Rice	ADViRNA
P230	Synthetic Development and Application of Mesyl Phosphoramidate Fragments in Solid-Phase Synthesis	Brad	Robertson	Biogen
P231	Novel 3-Component Zwitterionic Amino Lipid Nanoparticles for mRNA Delivery	Joshua	Robinson	UT Southwesten Medical Center
P232	Chemical Engineering of Therapeutic Oligonucleotides: Role of the Non-natural Backbone	Vella	Ross	UMass Chan Medical School
P233	Alternative routes of administration for CNS delivery of oligonucleotides: Potency and exposure comparison between ICV, IT-catheter and IT-direct delivery in non-human primates	Kaushambi	Roy	Eli Lilly
P234	Enhancing Aptamer Diversity for Targeted Therapeutics Using DNA-Encoded Polymer Libraries	Christopher	Saab	McGill University
P235	Antibacterial activities of peptide nucleic acids targeting Salmonella Penicillin-Binding Proteins	Mohamed Elfateh	Salem	Department of Animal Science, Macdonald Campus, McGill University
P236	Quantifying and Mitigating Motor Phenotypes Induced by Antisense Oligonucleotides in the Central Nervous System	Samantha	Sarli	RNA Therapeutics Institute - UMass Chan Medical School
P237	Exploring Ribose Modification Tolerance in the Coding Region of mRNA	Emmanuel	Sasu	Biochemistry Department,Wake Forest University School of Medicine
P238	Development and Clinical Progress of RAG-01, a Novel saRNA Targeting p21 for Non-Muscle Invasive Bladder Cancer Treatment	Ian	Schacht	Ractigen Therapeutics
P239	Developing life-saving oligonucleotide-based therapies for H-ABC Leukodystrophy.	Yalda	Sedaghat	Evotec SE
P240	Optimization and Application of the Endosomal Escape Vehicle (EEV™) Platform for Enhanced Delivery of Oligonucleotides to Skeletal and Cardiac Muscle	Xiulong (Mark)	Shen	Entrada Therapeutics
P241	A new structure of N-(tert-butyl)guanidine-bridged nucleic acid, GuNA™[tBu] with a highly stable protecting group and its application in antisense oligonucleotides	Ajaya	Shrestha	Luxna Biotech Co., Ltd.
P242	Engineering CIRTS to Rebalance Protein Expression from mRNA in Haploinsufficiencies	Riley	Sinnott	University of Chicago
P243	Selective ASO-based JAK2 inhibitor for the treatment of myeloproliferative disorders	Sandra	Smieszek	Vanda Pharmaceuticals
P244	Translating IGHMBP2 variants with a patient-specific neuromuscular junction system: Personalized medicine rescue.	Sandra	Smieszek	Vanda Pharmaceuticals
P245	Sustainability of lifetime dosing with ASOs for rare diseases: The need for scalable national models	Rachel	Smith	UK Platform for Nucleic Acid Therapies
P246	Utilizing NanoBRET to Study RNA Modifications and Binding Dynamics	Richard	Somberg	Promega Corporation
P247	Enhancing Peptide and PMO Delivery to Mouse Airway Epithelia by Chemical Conjugation with the Amphiphilic Peptide S10	Al Halifa	Soultan	Feldan Therapeutics
P248	Mechanistic characterization of enhanced delivery oligonucleotide (EDO) platform	Mangala	Soundarapandian	PepGen

P249	Combining 27-mer siRNAs for simultaneous knockdown of APP and MAPT for Alzheimer's Disease	Jack	Stahl	University of Miami Center for Therapeutic Innovation
P250	Preclinical development of a JAK1 siRNA for the treatment of inflammatory diseases in dogs	Qi	Tang	University of Massachusetts Chan Medical School
P251	Explainable AI for Predictive Modeling of Drug Properties	Disa	Tehler	Abzu
P253	Application of antisense oligonucleotide therapy to rescue dystrophin (DMD) in the central nervous system of the mdx23 mouse model of Duchenne muscular dystrophy	Konstantina	Tetorou	The Dubowitz Neuromuscular Centre, UCL Great Ormond Street Institute of Child Health
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P255	Sustainable Methods for Oligonucleotide Synthesis	James	Thorpe	McGill University
P256	Oligonucleotide Bioconjugation in Solution via Aminooxy Click Chemistry (AOCC)	Mark Neil	Tolentino	Alnylam Pharmaceuticals
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P259	Using G-ASOs to Inhibit MAOB Translation in Neuronal Cells for Parkinson's Disease Therapy	Marc-Antoine	Turcotte	Université de Sherbrooke
P260	A new type of siRNA that can knockdown the gene with single nucleotide mutation discriminating the wild-type gene for clinical application	Kumiko	Ui-Tei	The University of Tokyo
P261	Expanding RNAi to lungs, kidneys, and spleen via Selective ORgan Targeting (SORT) siRNA lipid nanoparticles	Amogh	Vaidya	University of Texas Southwestern Medical Center
P262	Universal Detection Reagents Bind Chemical Modifications for Biodistribution, Localization, and Quantification of Oligonucleotides Independent of Nucleic Acid Sequence	Allison	Van Camp	Rockland Immunochemicals, Inc.
P263	Exon skipping in ex vivo human skin highlights the potential of antisense oligonucleotide-mediated exon skipping as systemic treatment for recessive dystrophic epidermolysis bullosa	Peter	van den Akker	Division for Biological Chemistry and Drug Discovery, School of Life Sciences, University of Dundee
P264	Deciphering the impact of toxic antisense oligonucleotide (ASO) gapmer off-target (OT) RNA degradation on OT protein level	Daniel	van Leeuwen	Clinical Pharmacology and Safety Sciences, Biopharmaceuticals R&D, AstraZeneca
P265	Personalized antisense oligonucleotide screening for a Stargardt disease patient carrying the deep-intronic c.859-506G>C ABCA4 variant using human in vitro models.	Edwin	van Oosten	Department of Pediatrics, Radboud university medical center
P266	Targeting Polo-Like Kinase 1 against childhood cancer	Daria	Varyvoda	Karolinska Institute
P267	Rational design of chimeric antisense oligonucleotides with limited linkage modifications for efficient splice switching.	Rakesh	Veedu	Murdoch University
P268	Safety of antisense oligonucleotide therapy: A systematic review and meta-analysis on adverse events in clinical studies.	Cisse	Vermeer	University Medical Center Gronigen, Department of Genetics
P269	Splice switching of COL7A1 for Epidermolysis Bullosa by using tcDNA-oligonucleotides	Daniela	Vieira Rodrigues	UVSQ - Université Paris Saclay
P270	Toward complete modification of SpyCas9 guide RNAs	Kimanh	Vu	Umass Chan Medical School

P271	Construction of Chimeric Artificial Nucleic Acids (CANA) for Pancreatic Cancer Treatment by Inhibiting the Transcription Factor BACH1: Molecular Design Strategy Based on in vitro and in vivo Analysis	Takehiko	Wada	IMRAM, Tohoku University
P272	Enhanced Purity of sgRNA and pegRNA via 5'-DOT Hydrophobic Phosphoramidite	A.	Wagh	UMass Chan Medical School
P273	RNA-targeting antisense oligonucleotide therapeutics for actionable disease-causing variants of rare genetic disorders.	Htoo	Wai	University of Southampton
P274	Characterising antibodies targeting antisense oligonucleotide (ASO) modifications for quantification of in vitro intracellular trafficking and in vivo biodistribution	Xiao	Wan	Nucleic Acid Therapy Accelerator
P275	Antisense oligonucleotides targeting linked-SNPs provide allele-specific knockdown of a dominant-negative SPTAN1 pathogenic variant in a complex genetic region	Christiana	Wang	Baylor College of Medicine
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P279	Synthesis of Oligonucleotide Conjugates by Diselenide-Selenoester Ligation Deselenization / Alkylation	Christopher	Wilds	Concordia University
P280	Design, Synthesis, and Evaluation of 1′-C,3′-O-Bridged D-Altritol Nucleic Acids	Takao	Yamaguchi	Graduate School of Pharmaceutical Sciences, Osaka University
P281	Development of a Microflow LC-MS/MS Method for Enhanced Quantitative Analysis of Antisense Oligonucleotides in Human Plasma	Hao	Yang	Thermo Fisher Scientific
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P283	Evaluation of branched lipid conjugated siRNA by intracerebroventricular and intrathecal injection	Shinichi	Yokota	Shionogi & Co. Ltd.
P284	Novel synthetic route for 1′-C,3′-O-propylene-bridged altritol nucleic acid phosphoramidites bearing a purine nucleobase	Tomoki	Yoshimura	Graduate School of Pharmaceutical Sciences, Osaka University
P285	Mechanistic Insights and Innovative Technologies to Neurotoxicity in Nucleic Acid Therapies Targeting CNS diseases.	Kotaro	Yoshioka	Department of Neurology and Neurological Science, Tokyo Medical and Dental University
P286	Deciphering and improving antisense oligonucleotide safety in the CNS	Faouzi	Zarrouki	Neuroscience and Immuno-inflammation Therapeutic Area (NITA), Servier Research Institute
P287	Identification of Potent siRNA Hits for an Immunology Gene Target and Demonstration of CD71 Centyrin- siRNA Conjugate Preparation, Analysis and In Vitro and In Vivo Activity	Thomas	Zengeya	Aro Biotherapeutics
P288	Individualized Antisense Oligonucleotide Therapy for a Patient with Posterior Column Ataxia with Retinitis Pigmentosa (PCARP)	Boxun	Zhao	Boston Children's Hospital
P289	Comparison of modified T7 RNAPs to develop a simplified, cost effective, robust mRNA production process	Constance	Zhong	Providence Therapeutics
P290-V	The UK Platform for Nucleic Acid Therapy for Rare Diseases – the UPNAT Consortium	Haiyan	Zhou	University College London
P291	Exon skipping in DMD using newly developed Bulge-type RNA-DNA hetero-G4 inducing ASOs	Ryo	Iwase	Tokyo Medical and Dental University

P292	Personalized Splice-modulating Antisense Oligonucle	Robert	Thompson	Boston Children's Hospital, Mass General Brigham
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