30 years of Developing & Translating Neural Therapies for Repair

30th Annual Conference
American Society for Neural Therapy and Repair

Sheraton Sand Key Resort
Clearwater Beach, Florida, USA
ASNTR 2023 Officers, Council and Committee Members

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2023 Conference Survey

2024 ASNTR Annual Meeting Symposium Proposal
Dear Friends and Colleagues,

Wishing you all a warm and enthusiastic welcome to the 30th meeting of the American Society for Neural Therapy and Repair. I am really looking forward to the coming days of science, collaboration, and the building of professional networks and friendships. We are proud to support so many trainees to attend the meeting, and support a trainee-focused start to the meeting.

The theme of this year’s meeting – 30 Years of Developing and Translating Therapies for Neural Repair - also offers the chance to reflect on the early days of the meeting and the Society, with perspectives offered by the founders, who are renowned leaders and pioneers in the field of neural therapy and repair. It is extremely valuable to appreciate where the Society began, what the initial goals of the meeting were, and how far we have come. It will then be even more exciting to hear from trainees, our early career scientists in the field, and established senior investigators, who will talk about most recent discoveries in their ongoing research, and the vision for the future of neural therapy and repair.

We have an excellent series of sessions and platform presentations that range from exciting early pre-clinical discoveries to novel therapies under-development and in translation, with additional focus on the translational process and barriers that may be faced. It is also a great honor to have Nobel Laureate, and Professor at Kyoto University and Gladstone Institutes, Dr Shinya Yamanaka, give the Presidential lecture this year. There will also be a special presentation on Women in Neuroscience, followed by a focused panel discussion on supporting and retaining women in the field of neuroscience. The Society strongly supports diversity, equity, inclusion and belonging, and remains dedicated in this mission.

I am very excited for the meeting and am extremely grateful to all those that helped in its planning and organization, the sponsors who have very generously offered their support, the speakers who have dedicated their time to join us, and to all of you for attending. Thank you everyone, I hope you all enjoy the 30th annual meeting of the ASNTR!

Cheers,

Michael Aron Lane
President, ASNTR 2022-2024
# Conference Agenda

**Thursday, April 27, 2023**

**Platform Presentations – Beach/Gulf**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>01:00 – 06:00 pm</td>
<td>Conference Registration – Lobby II</td>
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<tr>
<td>01:00 – 03:00 pm</td>
<td>Session 1: Trainee Workshop and Mentor Meet &amp; Greet – Beach/Gulf</td>
</tr>
<tr>
<td>03:00 – 04:00 pm</td>
<td>Session 2: Mentor – Mentee Networking Opportunity</td>
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<tr>
<td>04:00 – 05:00 pm</td>
<td>Beach Break / Mentor – Mentee Networking</td>
</tr>
<tr>
<td>05:00 – 06:00 pm</td>
<td>Session 3: Rising Stars in Neural Therapy &amp; Repair – Beach/Gulf</td>
</tr>
<tr>
<td>06:15 – 06:45 pm</td>
<td>Travel Award Presentations – Michael Lane &amp; Agnes Luo – Beach/Gulf</td>
</tr>
<tr>
<td>06:45 – 07:30 pm</td>
<td>Welcome Reception – Palm/Bay</td>
</tr>
<tr>
<td>07:30 – 09:00 pm</td>
<td>Session 4: Poster Session A – Palm/Bay</td>
</tr>
</tbody>
</table>
Session 1: Funding Opportunities at NIH & Beyond
Trainee Workshop

Session Sponsor – NIH/NINDS
Beach/Gulf
1:00 pm – 3:00 pm
Moderator: Agnes Luo

1-1 NINDS, NIH
Adele Doperalski, PhD
Jiaqi O’Reilly, PhD
Todd White, PhD

1-2 American Heart Association
Angela Johnson, MPH

1-3 Parkinson’s Foundation
Vicki Cattani, PhD

Session 2: 3 Minute Mentor – Mentor/Mentee Networking
3:00 pm – 4:00 pm
Moderators: Agnes Luo & Corinna Burger

Beach Break: Mentor – Mentee Networking
4:00 pm – 5:00 pm
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<tr>
<th>Session 3: Rising Stars in Neural Therapy and Repair</th>
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<tr>
<td><strong>5:00 pm – 6:00 pm</strong></td>
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<tr>
<td><strong>Session Chair:</strong> Julien Rossignol</td>
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
</table>
| 3-1 5:00 – 5:15 pm | NOVEL CHOROID PLEXUS ABLATION MODEL UNVEILS THE ROLE OF CEREBROSPINAL FLUID IN ADULT NEUROGENESIS IN THE SVZ | A. Taranov – University of Cincinnati, Travel Award Winner  
Advisor, Agnes Luo |
| 3-2 5:15 – 5:30 pm | ENGINEERING SPINAL INTERNEURONS FOR REPAIR OF THE INJURED CERVICAL SPINAL CORD               | T. Fortino – Drexel University, Travel Award Winner  
Advisor – Michael Lane |
| 3-3 5:30 – 5:45 pm | MONTELUKAST TREATMENT ATTENUATES COGNITIVE DYSFUNCTION IN A MODEL OF CHRONIC GULF WAR ILLNESS WITH MODULATION OF LEUKOTRIENE SIGNALING AND NLRP3-INFLAMMASOME ACTIVATION | Y. Somayaji – Texas A&M University, Travel Award Winner  
Advisor – Ashok Shetty |
| 3-5 5:45 – 6:00 pm | ABLATION OF MICROGLIA ALTERS REACTIVE ASTROCYTES GENE EXPRESSION AND ALLEVIATES DOPAMINERGIC NEURONAL LOSS IN THE SUBACUTE MPTP MODEL OF PARKINSON’S DISEASE | E. Wegman – University of Cincinnati, Travel Award Winner  
Advisor – Agnes Luo |
Travel Award Presentations

6:15 pm – 6:45 pm

Beach/Gulf

Agnes Luo & Michael Lane

2023 ASNTR TRAVEL AWARD RECIPIENTS

Reilly Allison  Anne Huntemer-Silveira  Alex Roman
Isaac Clark  Ebeneizer Ikefuama  Hannah Saternos
Ian Cox  Elizabeth Klaas  Kayla Schardien
Tara Fortino  Karthick Mayilsamy  Johnathon Smith
Alex Gowing  Rebecca Mueller  Yogish Somayaji
Adam Hall  Alessia Niceforo  Bhairavi Srinageshwar
Mozammel Haque Bhuiyan  Bo Peng  Nurul Sulimai
Zahra Hasanpour Segherlou  Arjun Poudel  Jared Swiontek
Kenneth Hawkins  Haley Powell  Aleksandr Taranov
Casey Hudson  Skandha Ramakrishnan  Elliot Wegman
ASNTR Welcome Reception – Michael Lane

6:45 pm – 7:30 pm

Session 4: Poster Session A

Session Sponsor – Novo Nordisk

Moderators: Aurelie Ledreux & Kevin Nash
Palm/Bay

7:30 pm – 9:00 pm

1. SARS-CoV-2 INFECTION INCREASES THE GENE EXPRESSION PROFILE FOR ALZHEIMER’S DISEASE RISK
   K. Mayilsamy – University of South Florida, Travel Award Winner

2. AN IN VITRO MODEL TO ASSESS THE CONSEQUENCES OF TAU AGGREGATION IN NEURONS
   R. Mueller – Michigan State University, Travel Award Winner

3. EFFECTS OF WHOLE-BODY RESISTANCE EXERCISE IN YOUNG AND MIDDLE-AGED RATS
   J. Stanford – University of Kansas Medical Center

4. ROLE OF PTPRS IN AXONAL SPROUTING OF MIDBRAIN DOPAMINERGIC NEURON IN PARKINSON’S DISEASE
   J. Peter – University of Cincinnati

5. NOVEL, INTERESTING, SURPRISING AND USEFUL PROPERTIES OF A PANEL OF NF-L MONOCLONAL ANTIBODIES
   G. Shaw – EnCor Biotechnology Inc.

6. IL-1ra AND CCL5 AS TARGETS FOR TREATING SMA ASTROCYTE-MEDIATED PATHOLOGY
   R. Allison – Medical College of Wisconsin, Travel Award Winner
7. EXPLORATION OF THE ROLE OF SCHWANN CELLS IN AN ALS PATHOGENESIS iPSC-NMJ MODEL
   K. Hawkins – University of Central Florida, Travel Award Winner

8. CONTRIBUTIONS OF PSEN1 AND APP GENETIC MUTATIONS TOWARDS ALZHEIMER’S DISEASE PATHOLOGY
   H. Powell – University of Central Florida, Travel Award Winner

9. INDUCIBLE ABLATION OF TGF-β SIGNALING IN ADULT MICROGLIA LEAD TO ACTIVATION OF MICROGLIA AND STIMULATION OF ADULT NEUROGENESIS IN HIPPOCAMPUS
   K. Ware – University of Cincinnati

10. FEASIBILITY AND SAFETY OF IMPLANTING AUTOLOGOUS REGENERATIVE PERIPHERAL NERVE TISSUE INTO THE BASAL GANGLIA OF ANIMAL MODELS OF DBS-PLUS
    J. Quintero – University of Kentucky

11. PAMAM DENDRIMER DELIVERED NOCODAZOLE AS A POTENTIAL TREATMENT FOR HUMAN GLIOBLASTOMA IN SCID MICE
    B. Srinageshwar – Central Michigan University, Travel Award Winner

12. DELIVERY OF CURCUMIN USING MIXED-SURFACE GENERATION 4 POLY-AMIDO(AMINE) DENDRIMERS PREVENTS THE DEVELOPMENT OF MOTORIC DEFICITS IN THE GFAP-IL 6 MOUSE MODEL
    J. Swiontek – Central Michigan University, Travel Award Winner

13. IDENTIFYING SPINAL INTERNEURONS THAT CONTRIBUTE TO RESPIRATORY PLASTICITY AFTER CERVICAL SPINAL CORD INJURY
    K. Schardien – Drexel University, Travel Award Winner

14. RECOMBINANT HUMAN GABAergic CELLS IN THE THERAPY OF SPINAL CORD INJURY-INDUCED CHRONIC PAIN
    S. Jergova – University of Miami

15. CELLULAR REPROGRAMMING FOR SPINAL CORD REPAIR
    A. Niceforo – Drexel University, Travel Award Winner
16. LOCATION, LOCATION, LOCATION: UTILIZING REGIONAL SPECIFICITY IN CELL TRANSPLANTATION THERAPEUTICS  
   A. Hunter-Silveira – University of Minnesota, Travel Award Winner

17. A NOVEL TARGET ESSENTIAL TO AXONAL REGENERATION AFTER SPINAL CORD INJURY  
   S. Ramakrishnan – Drexel University, Travel Award Winner

18. STRAIGHT TO THE SOURCE: MICROGLIAL HOMEOSTASIS RELIES ON MICROGLIA-DERIVED TGF-β1 LIGAND THAT IS HIGHLY SPATIALLY REGULATED  
   A. Bedolla – University of Cincinnati

19. PROBING MULTIPLE TRANSPLANTATION DELIVERY ROUTES OF CD+34 STEM CELLS FOR PROMOTING BEHAVIORAL AND HISTOLOGICAL BENEFITS IN EXPERIMENTAL ISCHEMIC STROKE  
   J-Y. Lee – University of South Florida

20. ADROPIN PROTECTS DELAYED CEREBRAL ISCHEMIA IN SUBARACHNOID HEMORRHAGE PATIENTS  
   Z. Hasanpour Segherlo – University of Florida, Travel Award Winner

21. CRISPR/Cas9 MEDIATED GENE KNOCKOUT IN ADULT RAT ASTROCYTES TO INHIBIT NOTCH, GSK-3 β, AND BMP CELL SIGNALING PATHWAYS  
   A. Poudel – Central Michigan University, Travel Award Winner

22. COMBINING α7 NICOTINIC ACETYLCOLINE RECEPTOR ALLOSTERIC MODULATOR AND ENVIRONMENTAL ENRICHMENT IMPROVES SUSTAINED ATTENTION, CHOLINERGIC NEUROTRANSMISSION, AND SYSTEMIC INFLAMMATION AFTER CONTROLLED CORTICAL IMPACT INJURY  
   C. Bondi – University of Pittsburgh

23. SCF+G-CSF TREATMENT ENHANCES REMYELINATION IN THE CHRONIC PHASE OF SEVERE TRAUMATIC BRAIN INJURY  
   L-R. Zhao – State University of New York, Upstate Medical University

24. THE NEUROPROTECTIVE EFFECT OF CAFFEIC ACID PHENETHYL ESTER ON FIBRINOGEN-INDUCED DAMAGE OF PRIMARY NEURONS  
   N. Sulimai – University of South Florida
## Conference Agenda

**Friday, April 28, 2023**

### Platform Presentations – Beach/Gulf

<table>
<thead>
<tr>
<th>Time</th>
<th>Events</th>
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<tbody>
<tr>
<td><strong>07:00 – 08:00 am</strong></td>
<td>Continental Breakfast – Coastal Room</td>
</tr>
<tr>
<td><strong>07:30 – 12:15 pm</strong></td>
<td>Conference Registration – Lobby II</td>
</tr>
<tr>
<td><strong>08:00 – 09:00 am</strong></td>
<td>Session 5: Cognitive Reserve &amp; Resilience in Aging &amp; Alzheimer’s Disease</td>
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<tr>
<td><strong>09:00 – 10:00 am</strong></td>
<td>Session 6: Cell Therapies for Neural Repair</td>
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<tr>
<td><strong>10:00 – 10:30 am</strong></td>
<td>Coffee/Tea Break – Coastal Room</td>
</tr>
<tr>
<td><strong>10:30 – 12:30 pm</strong></td>
<td>Session 7: 30 Years of Developing and Translating “Neural Therapy for Repair”</td>
</tr>
<tr>
<td><strong>12:30 – 02:30 pm</strong></td>
<td>Free Time</td>
</tr>
<tr>
<td><strong>02:30 – 04:00 pm</strong></td>
<td>Session 8: Advanced Technologies for Studying and Treating the Nervous System</td>
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<tr>
<td><strong>04:00 – 04:30 pm</strong></td>
<td>Coffee/Tea Break – Coastal Room</td>
</tr>
<tr>
<td><strong>04:30 – 05:45 pm</strong></td>
<td>Session 9: Women in Neuroscience</td>
</tr>
<tr>
<td><strong>05:45 – 06:00 pm</strong></td>
<td>Coffee/Tea Break – Coastal Room</td>
</tr>
<tr>
<td><strong>06:00 – 06:45 pm</strong></td>
<td>Session 10: Presidential Keynote Speaker</td>
</tr>
<tr>
<td><strong>07:30 – 09:00 pm</strong></td>
<td>Session 11: Poster Session B – Reception – Lobby II</td>
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</tbody>
</table>
### Session 5: Cognitive Reserve and Resilience in Aging and Alzheimer’s Disease

**8:00 am – 9:00 am**

**Session Chair:** Corinna Burger

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-1</td>
<td>8:00 – 8:20 am</td>
<td>Neuronal Bin1 Modulation of Tau Pathogenesis Reveals Potential Resistance Mechanisms</td>
<td>G. Thinakaran – University of South Florida</td>
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</tr>
<tr>
<td>5-2</td>
<td>8:20 – 8:40 am</td>
<td>Transcriptional Resilience Mechanisms for Cognitive Reserve</td>
<td>T. Foster – University of Florida</td>
<td></td>
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<tr>
<td>5-3</td>
<td>8:40 – 9:00 am</td>
<td>Cellular Mechanisms Underlying Neuroprotective Effects of Environmental Enrichment in Aged Rats</td>
<td>C. Burger – University of Wisconsin-Madison</td>
<td></td>
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</tbody>
</table>
# Session 6: Cell Therapies for Neural Repair

Session Sponsor – ASIA

9:00 am – 10:00 am
Session Chair: Lyandysha Zholudeva

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<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>6-1</td>
<td>9:00 am - 9:20 am</td>
<td>MULTISTEM® CELL THERAPY FOR NEUROLOGICAL INDICATIONS</td>
<td>S. Busch – Athersys, Inc</td>
</tr>
<tr>
<td>6-2</td>
<td>9:20 am - 9:40 am</td>
<td>BUILDING A NEW SPINAL CORD: CONSIDERATIONS FOR CHRONIC SCI PATIENTS</td>
<td>A. Parr – University of Minnesota</td>
</tr>
<tr>
<td>6-3</td>
<td>9:40 am - 10:00 am</td>
<td>A COMBINED GENE AND STEM CELL THERAPY FOR ALS TARGETING BOTH LOWER AND UPPER MOTOR NEURONS</td>
<td>C. Svendsen – Cedar-Sinai Regenerative Medicine Institute</td>
</tr>
</tbody>
</table>
# Session 7: 30 Years of Developing and Translating “Neural Therapy for Repair”

**Session Sponsors – EnCor Biotechnology**

**10:30 am – 12:30 pm**

**Chairs: Paul Sanberg, John Sladek & Barry Hoffer**

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<tr>
<th>7-1</th>
<th>10:30 – 11:00 am</th>
<th>REFLECTING ON THE PAST AND LOOKING TO THE FUTURE</th>
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<tbody>
<tr>
<td></td>
<td>P. Sanberg – University of South Florida</td>
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<tr>
<td></td>
<td>J. Sladek – University of Colorado School of Medicine</td>
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<tr>
<td></td>
<td>B. Hoffer – University Hospitals Cleveland Medical Center</td>
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<tr>
<th>7-2</th>
<th>11:00 – 11:20 am</th>
<th>CELL TRANSPLANTATION THROUGH THE YEARS</th>
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<tbody>
<tr>
<td></td>
<td>J. Kordower – Arizona State University</td>
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<tr>
<th>7-3</th>
<th>11:20 – 11:40 am</th>
<th>PUTTING IT ALL TOGETHER: A CLINICAL TRIAL EXPLOITING THE NEUROPROTECTIVE ACTIONS OF NEURAL STEM CELLS IN PERINATAL CEREBRAL INJURY</th>
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<tbody>
<tr>
<td></td>
<td>E. Snyder – Sanford Burnham Prebys Medical Discovery Institute &amp; University of California-San Diego</td>
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<tr>
<th>7-4</th>
<th>11:40 – 12:00 pm</th>
<th>ADVANCING PRECISION MEDICINE FOR NEURODEGENERATIVE DISORDERS</th>
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<tr>
<td></td>
<td>M. Emborg – University of Wisconsin</td>
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<tr>
<th>7-5</th>
<th>12:00 – 12:30 pm</th>
<th>ROUNDTABLE DISCUSSION</th>
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<tr>
<td></td>
<td>Marina Emborg, Jeffrey Kordower &amp; Evan Snyder</td>
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</table>
**Session 8: Advanced Technologies for Studying and Treating the Nervous System**

Session Sponsor – Miltenyi Biotec, Inc.

**2:30 pm – 4:00 pm**

Chairs: Ivette Sandoval & Fredric Manfredsson

| 8-1 | 02:30 – 02:50 pm | NEUROMODULATION USING BIOLUMINESCENT OPTOGENETICS IN SYMPATHETIC NEURONS  
*J. Ward – Emory University*

| 8-2 | 02:50 – 03:10 pm | TOWARDS THE USE OF CHEMOGENETICS TO CONTROL SPASTICITY  
*N. Boulis – Emory University*

| 8-3 | 03:10 – 03:30 pm | ENGINEERING OF GLIAL-TARGETED AAVS FOR NEURODEGENERATIVE DISEASE  
*F. Manfredsson – Barrow Neurological Institute*

| 8-4 | 03:30 – 03:50 pm | A REPAIR CELL THERAPY APPROACH FOR PARKINSON’S DISEASE: A SUMMARY OF SAFETY, FEASIBILITY, AND CLINICAL DATA FOR 68 PARTICIPANTS  
*C. van Horne – University of Kentucky*
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<th>Session 9: Women in Neuroscience</th>
<th>4:30 pm – 5:45 pm</th>
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<tr>
<td>Introductions: Marina Emborg</td>
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<tr>
<th>9-1</th>
<th>4:30 – 4:50 pm</th>
<th>BREAKING BARRIERS</th>
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<tr>
<td></td>
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<td>M. Tansey – University of Florida</td>
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<tr>
<th>9-2</th>
<th>4:50 – 5:45 pm</th>
<th>PANEL DISCUSSION: CAREER DEVELOPMENT AND RETENTION OF FEMALE NEUROSCIENTISTS</th>
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<td>Moderator: Malú Tansey</td>
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<td>C. Burger, S. Busch, V. Joers, A Parr, I. Sandoval &amp; L. Zholudeva</td>
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<tr>
<th>Session 10: Presidential Keynote Speaker</th>
<th>6:00 pm – 6:45 pm</th>
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<tr>
<td>Session Sponsor – Florida High Tech Corridor &amp; Aspen Neuroscience</td>
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<thead>
<tr>
<th>10-1</th>
<th>6:00 – 6:45 pm</th>
<th>RECENT PROGRESS IN iPS CELL RESEARCH AND APPLICATION</th>
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<tr>
<td></td>
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<td>Shinya Yamanaka MD, PhD – Kyoto University (via Zoom)</td>
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</table>
Session 11: Poster Session B

Session Sponsor – Novo Nordisk

Moderators: Aurelie Ledreux & Kevin Nash
Lobby II

7:30 pm – 9:00 pm

1. REMOVAL OF CANNABINOID RECEPTOR 2 REDUCES ALPHA-SYNUCLEIN AGGREGATION
   V. Joers – University of Florida

2. INVESTIGATING THE THERAPEUTIC UTILITY OF ADIPOSE STEM CELL DERIVED EXOSOMES ON
   A-SYNUCLEIN INDUCE NEURODEGENERATION IN RATS
   C. Logan – University of South Florida

3. ABLATION OF MITOCHONDRIAL RCC1L IN DOPAMINERGIC NEURONS YIELDS A PARKINSON’S
   DISEASE-LIKE PHENOTYPE IN MICE
   A. Gowing – University of Wisconsin – Madison, Travel Award Winner

4. iPSC-DERIVED MONONUCLEAR PHAGOCYTES HAVE REGENERATIVE EFFECTS ON COGNITION
   AND NEURAL HEALTH IN MOUSE MODELS OF AGING AND ALZHEIMER’S DISEASE
   A. Moser – Cedars-Sinai Medical Center

5. TARGETED CIRCUIT MANIPULATION FOR AMELIORATING HUNTINGTON’S DISEASE PATHOGENESIS
   E. Ikefuama – Central Michigan University, Travel Award Winner

6. A COMPARISON OF PATHOLOGIES IN THOSE WITH DOWN SYNDROME, EARLY-ONSET
   ALZHEIMER’S, AND LATE-ONSET ALZHEIMER’S IN THE LOCUS COERULEUS
   H. Saternos – University of Colorado Anschutz Medical Campus, Travel Award Winner

7. INVESTIGATION OF THE EFFECT OF DEANNA PROTOCOL ON THE TREATMENT OF
   ALZHEIMER’S DISEASE IN A HUMAN iPSC-DERIVED CORTICAL NEURON MODEL
   I. Cox – University of Central Florida, Travel Award Winner
8. HUMAN NEURAL STEM CELL-DERIVED EXTRACELLULAR VESICLES ATTENUATE COGNITIVE
IMPAIRMENT AND NEUROINFLAMMATION INDUCED BY CRANIAL IRRADIATION- AND
CHEMOTHERAPY
   C. Hudson – University of California - Irvine, Travel Award Winner

9. DETERMINING THE IMPACT OF CRISPR/Cas9 MEDIATED AVIL GENE KNOCKOUT ON HUMAN
GLIOBLASTOMA IN-VITRO
   J. Smith – Central Michigan University, Travel Award Winner

10. AGE-SPECIFIC IMPRINTING THROUGH DIRECT REPROGRAMMING REVEALS A
DEVELOPMENTAL LOSS OF INTRINSIC NEURITE GROWTH ABILITY IN HUMAN NEURONS
   B. Peng – University of Wisconsin - Madison

11. ATTENUATION OF CB1 ACTIVITY BY NOVEL CONOPEPTIDE IN A MODEL OF CHRONIC PAIN IN
RATS
   S. Jergova – University of Miami

12. PROPENTOFYLLINE AND IL-4 ALLEVIATES CENTRAL NEUROPATHIC PAIN IN MALE SPINAL
CORD INJURED RATS BY SUPPRESSING P38 MAP KINASE ACTIVATION
   D. Pearse – University of Miami

13. TEMPORAL CHANGES IN CONNECTIVITY BETWEEN TRANSPLANTED NEURAL TISSUE AND
THE INJURED SPINAL CORD
   A. Hall – Drexel University, Travel Award Winner

14. NEUROD1-MEDIATED CELL REPROGRAMMING FOR FUNCTIONAL RECOVERY IN SPINAL
CORD INJURED-RATS
   A. Roman – University of Minnesota – Twin Cities, travel Award Winner

15. CLINICAL TRANSLATION OF ALLOGENIC REGENERATIVE CELL THERAPY FOR WHITE MATTER
STROKE AND VASCULAR DEMENTIA
   S. Azarapetian – UCLA

16. COMBINED DELIVERY OF BDNF AND VEGF FROM AN INJECTABLE THERMORESPONSIVE
HYDROGEL PROMOTES FUNCTIONAL RECOVERY AFTER A FOCAL ISCHEMIC STROKE IN MICE
   M. Haque Bhuiyan – University of Otago, Travel Award Winner
17. ACTIVITY OF A NOVEL ANTI-INFLAMMATORY AGENT F-3,6’-DITHIOPOMALIDOMIDE AS A TREATMENT FOR TRAUMATIC BRAIN INJURY
   B. Hoffer – University Hospitals Cleveland Medical Center

18. NOVEL, THALIDOMIDE-LIKE, NON-CEREBLON BINDING DRUG TETRAFLUOROBORNYLPHTHALIMIDE MITIGATES INFLAMMATION AND BRAIN INJURY
   Y-H. Chiang – Taipei Medical University

19. NEUROD1 MAY PROMOTE NEUROGENESIS
   I. Clark – University of Minnesota, Travel Award Winner

20. IRON CHELATOR MITIGATES NEURODEGENERATIVE EFFECTS OF EXCESS IRON IN SUBARACHNOID HEMORRHAGE
   E. Klaas – University of Florida, Travel Award Winner

21. CXCL1: A NOVEL THERAPEUTIC TARGET FOR ANEURYSM HEALING
   M. Martinez – University of Florida

22. ROLE OF AGING IN MODULATING THE RESPONSE TO HUMAN ADIPOSE STEM CELL DERIVED EXOSOMES FOLLOWING TRAUMATIC BRAIN INJURY
   S. Abdelmaboud – University of South Florida

23. PRECLINICAL EVALUATION OF iPSC-DERIVED NEURAL PROGENITORS SECRETING GDNF FOR THE TREATMENT OF ALS AND RETINITIS PIGMENTOSA
   P. Avalos – University of California, Los Angeles

24. A NEW GENETIC MODEL FOR CHOLINERGIC FUNCTIONAL IMPAIRMENT IN SEPTO-HIPPOCAMPAL INTERACTION.
   N. Matsukawa – Nagoya City University
Conference Agenda

Saturday, April 29, 2023

Platform Presentations – Beach/Gulf

07:30 – 08:30 am  Continental Breakfast – Palm Room

08:30 – 09:30 am  Session 12: Spotlight on Early Career Investigators

09:30 – 10:30 am  Session 13: Cell & Gene Engineering for Neural Repair

10:30 – 11:00 am  Morning Break – Palm Room

11:00 – 12:15 pm  Session 14: Non-Neuronal Cells in CNS Homeostasis and Disease

12:15 – 02:30 pm  Free Time

02:30 – 03:30 pm  Session 15: Translating Treatments for Neural Injury & Disease
                   Panel Discussion

03:30 – 04:00 pm  Afternoon Break – Palm Room

04:00 – 04:45 pm  Session 16: Roy A.E. Bakay Memorial Lecture

04:45 – 05:00 pm  Award Presentations

05:00 – 05:15 pm  ASNTR Business Meeting

07:00 – 10:00 pm  ASNTR Beach Party – Dinner & Dancing (Cash Bar) – Mid-Beach
## Session 12: Spotlight on Early Career Investigators

8:30 am – 9:30 am  
Session Chair: Irene Llorente

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>12-1</td>
<td>8:30 – 8:50 am</td>
<td>CGMP PRODUCTION OF HIPSC-GLIAL ENRICHED PROGENITORS</td>
<td>I. Llorente – Stanford University</td>
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<tr>
<td>12-2</td>
<td>8:50 – 9:10 am</td>
<td>TRANSPLANTED HUMAN STEM CELL-DERIVED INTERNEURONS FUNCTIONALLY INTEGRATE WITH THE INJURED CERVICAL SPINAL CORD</td>
<td>L. Zholudeva – Gladstone Institutes</td>
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<tr>
<td>12-3</td>
<td>9:10 – 9:30 am</td>
<td>BI-PHASIC MICROTUBULE DEFECTS IN TAUOPATHY: TREATMENT IMPLICATIONS</td>
<td>L. Qiang – Drexel University</td>
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</tbody>
</table>
# Session 13: Cell and Gene Engineering for Neural Repair

**9:30 am – 10:30 am**
**Session Chair:** Oscar Qiang

| 13-1 | 09:30 – 09:50 am | THE HUMAN HYPOTHALAMUS AT SINGLE-CELL RESOLUTION: A BLUEPRINT FOR NEURAL HYPOTHALAMIC REPROGRAMMING  
*C. Doege – Columbia University* |
| 13-2 | 09:50 – 10:10 am | PERIPHERAL NEURON TRANSPLANTATION OVEREXPRESSING NACHBAC AS A THERAPEUTIC INTERVENTION FOR SPINAL CORD INJURY  
*V. Moreno Manzano – CIPF, Spain* |
| 13-3 | 10:10 – 10:30 am | REGENERATION OF THE SENSORY TRACT AFTER SPINAL CORD INJURY USING AAV GENE THERAPY  
*P. Jendelova – Czech Academy of Sciences* |
Session 14: Non-Neuronal Cells in CNS Homeostasis and Disease

Session Sponsors – NervGen & Parkinson’s Foundation

11:00 am – 12:15 pm
Session Chair: Agnes Luo

14-1 11:00 – 11:25 am MICROGLIA SENSE AND REGULATE NEURONAL ACTIVITY THROUGH ADRENERGIC MECHANISMS
L. Wu – Mayo Clinic

14-2 11:25 – 11:50 am ASTROCYTE REGULATION OF NEURONAL SYNAPSES
N. Allen – Salk Institute

14-3 11:50 – 12:15 pm CHOROID PLEXUS-TARGETED GENE THERAPY TO TREAT NEUROLOGIC DISEASE
M. Lehtinen – Harvard Medical School

Session 15: Translating Treatments for Neural Injury and Disease
Panel Discussion

2:30 pm – 3:30 pm
Moderators: Sara Busch & Ed Wirth

15-1 02:30 – 03:30 pm N. Boulis – Emory University,
S. Busch – Athersys, Inc.
J. Wegeberg – Novo Nordisk
A Parr – University of Minnesota
E. Wirth – Aspen Neuro
Session 16: Roy A.E. Bakay Memorial Award

Session Sponsor – Bruker

4:00 pm – 4:45 pm
Introductions: Jeff Kordower

04:00 – 04:45 pm  ASNTrrrrr – THERAPY AND REPAIR
L. Granholm-Bentley, University of Colorado
Anschutz Medical Campus

Roy A.E. Bakay, M.D., 1949-2013
ASNTR Award Presentations

4:45 pm – 5:00 pm

Bernard Sanberg Memorial Award

- Paul Sanberg & John Sladek

Paul J. Reier Award for Excellence in Neurotrauma Research

- Michael Lane

ASNTR Business Meeting

5:00 pm – 5:15 pm

Michael Lane

All members and nonmembers are strongly encouraged to attend this meeting to welcome new ASNTR officers and to become actively involved in the future direction of the society.
ASNTR
BEACH PARTY

JOIN US FOR DINNER & DANCING
(MID-BEACH, CASH BAR AVAILABLE)

7:00 pm - 10:00 pm
(DINNER SERVED 7–8 pm)
WRIST BAND REQUIRED FOR ADMISSION

Thank you for 30 great years!
Submit a scientific symposium proposal for the 2024 ASNTR Annual Meeting.

**DEADLINE:** Proposals are due August 15, 2023

**MEETING DATES:** April 25 – 27, 2024

Please visit our website [www.asntr.org](http://www.asntr.org) to complete the proposal form.

The following information is required at time of submission:

- **Your Email Address**
- **Proposed Session Title**
- **Description** - Provide a clear synopsis of your proposed session. Include the title of the session. DO NOT list the presenters or other participants.
- **Topic Area**
- **Proposed Chair Name** - Provide full name of proposed chair/moderator of symposium.
- **Proposed Chair Institution/Company** - Provide Institution/Company of proposed chair/moderator of symposium.
- **Proposed Faculty** - Provide full name of proposed faculty along with Institution/Company of proposed Faculty of symposium.
Our Commitment to Providing a Safe environment for All Attendees

The ASNTR abides by and adheres to the policies of the American Association for the Advancement of Science (AAAS) Annual Meeting Code of Conduct as approved for 2023.

AAAS Annual Meeting Code of Conduct

Any individuals who have questions, concerns or complaints related to harassment are encouraged to contact the conference organizers or the HHS Office for Civil Rights (OCR)

If an individual wishes to file a formal complaint of harassment:

- Notify ASNTR Meetings staff: asntr.office@gmail.com or the following phone at (813) 974-3154.
- Reports can be made at any time after an incident, but preferably soon after so that appropriate actions can be taken.
- All complaints will be treated seriously and confidentially, and responded to promptly.
- ASNTR staff will discuss the details first with the individual filing the complaint, then with the alleged offender; seek counsel if the appropriate course of action is unclear; and report findings to the ASNTR Executive Officers and ASNTR President.
- ASNTR will consult with the individual filing the complaint prior to taking any action.

ASNTR reserves the right to remove an individual from the Annual Meeting without warning or refund, prohibit attendance at future ASNTR meetings, and notify the individual's employer.

Individuals wishing to file a complaint can also do so directly to the Office of Civil Rights (OCR) in the US Department of Health & Human Resources.


Reports can also be made to the National Institute of Health:

- Filing a complaint with the HHS OCR or NIH does not impact also filing a complaint with the ASNTR meeting organizers and vice-versa.
Make plans now to join us next year!

April 25 – 27
2024

31st annual meeting of the American Society for Neural Therapy and Repair

Abstract Submissions Open
01/02/2024 – 01/31/2024

Abstracts and Applications for Travel Award consideration due no later than
01/19/2024

Sheraton Sand Key Resort
Clearwater Beach, FL, USA

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