

International Society for Neurovascular Disease

ISNVD 10th Annual Meeting

Vascular Contributions to Healthy Aging and Dementia

July 21-23, 2022 | New York, NY



After a two-year hiatus, the 10th Annual Meeting of the International Society for Neurovascular Disease was held from July 21 to July 23, 2022, at NYU Grossman School of Medicine in New York City.

The focus of ISNVD'2022 was targeted on the vascular contribution to age-related neurodegenerative diseases and dementia. The meeting featured lectures from the top-tier experts in the fields, as well as scientific abstract presentations and Young Investigator Awards (YIA) sessions.

The overall goal of the meeting was to provide updates on neurovascular research of recent innovations, as well as clinical translation between the inter-disciplinary fields. By gathering basic scientists and clinicians, the meeting aimed to collaboratively probe these extensive topics related to healthy aging and dementia.

1. Neurovascular anatomy from macro to microvasculature
2. Vascular physiology and healthy aging
3. Vascular risk factors, sleep, exercise and dementia
4. Vascular contributions to cognitive impairment and dementia (VCID)
5. Advanced neurovascular imaging techniques in aging and dementia
6. Diabetes, stroke and traumatic brain injury (TBI) and dementia
7. Cerebrospinal fluid dynamics and the glymphatic system
8. Venous abnormalities and neuroinflammation
9. Vascular function and imaging.

The conference, focused on vascular contribution to healthy aging, cognitive impairment, and dementia (**VCID**), was presented in a hybrid onsite/online attendance format. Approximately 80% of lectures/presentations were given in person, with 20% contributors joining in online.

40 distinguished speakers, representing the top researchers in their respective fields of discussion, shared their state-of-the-art research via 20-minute-long focus talks.

A total of **35 abstracts** were presented at the meeting, including 22 oral presentations and 13 poster presentations. Additionally, **6 selected abstracts** were presented for **Young Investigator Awards**, and 4 finalists were chosen.

The **two-and-a-half-day** meeting drew **115 in-person attendees**, and **75 online attendees** attended the conference session live on Zoom. Participants represented **50 affiliations** from **10 different countries**.



Yulin Ge, M.D.
Conference Chair of ISNVD 2022
Professor, NYU Grossman School of Medicine



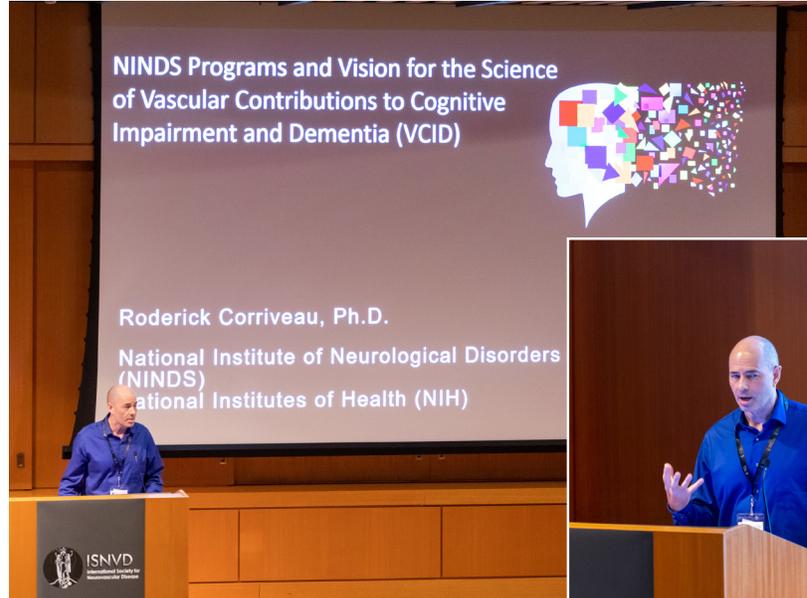
Robert I. Grossman, M.D.
Dean and CEO of NYU Grossman School of Medicine

Meeting Highlights

- 9 Topics
- 16 Sessions
- 40 Speakers
- 22 Oral Presentations
- 13 Poster Presentations
- 115 In-Person Attendees
- 75 Online Attendees
- 50 Affiliations
- 10 Countries



E. Mark Haacke, Ph.D.
Conference Co-Chair of ISNVD 2022
Professor, Wayne State University



Roderick Corriveau, Ph.D.
Keynote Speaker
Director of NINDS at NIH

On **Day 1**, Dr. Yulin Ge, the President of ISNVD and Conference Chair of ISNVD 2022 started off the meeting with the welcome remarks and the introduction of the meeting goals. Dr. Robert I. Grossman, the Dean and CEO of NYU Grossman School of Medicine and NYU Langone Health, gave a welcome speech. Dr. E Mark Haacke, the past President of ISNVD and Co-chair of ISNVD 2022, briefly introduced the history of the ISNVD society and its missions.

Dr. Roderick Corriveau gave a keynote plenary talk on “NINDS Programs and Vision for Vascular Contributions to Cognitive Impairment and Dementia (VCID)” in setting the tone for ISNVD 2022 theme sessions. He addressed some key issues that appeal to a broad cross-section of the audience regarding the VCID research and funding initiated by NIH.

The schedule of each event day was divided into sessions. The talks were grouped into sessions based on the topics. Each talk was followed by a **live Q&A** session when time permitted. The schedule also included coffee breaks and lunch breaks. The audience were engaging in the talks and would continue with the discussion at break times. At the end of each day, the speakers from the day would gather at the **panel discussions** session and further discuss the topic covered in their talks.





Invited Speakers from left to right:
Elizabeth M.C. Hillman, Ph.D.; David Kleinfeld, Ph.D.; David Salat, Ph.D.; Charles S DeCarli, M.D.;
Mohammad Arfan Ikram, M.D., Ph.D.; Jennifer Frontera, M.D.



In-Person Attendees Engaging in the Lectures

Most sessions on the first day were on **VCID** topics, which has been recently designated as a critical research area by the NIH. The talks, as well as the panel discussion of Day 1, led by Dr. Hanzhang Lu and Dr. Roderick Corriveau, provided an excellent environment to foster the collaborative and creative mindsets. We hope this encouraged clinicians and scientists to further promote a better biomedical research understanding of VCID.



Panel Discussions



Nivedita Agarwal, M.D.



Hanzhang Lu, Ph.D.



Arjun Masurkar, M.D., Ph.D.

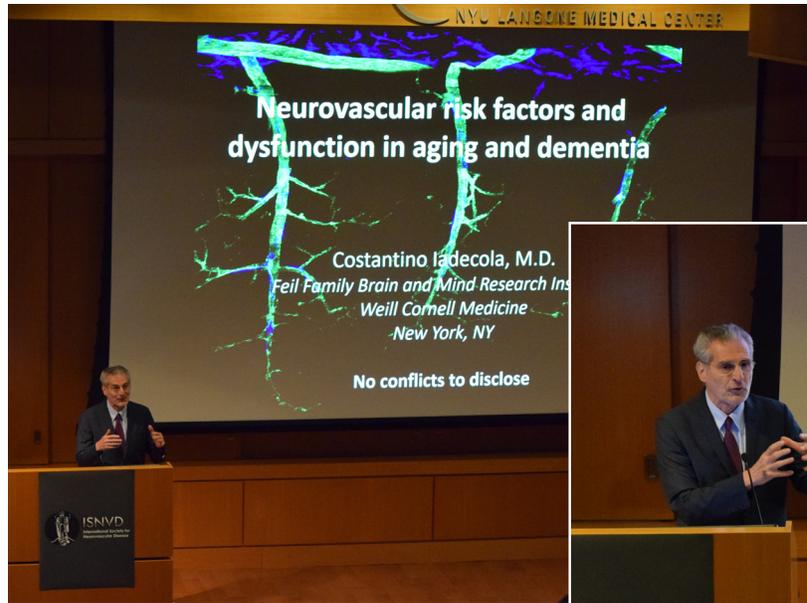


Invited Speakers from left to right
 Prashanthi Vemuri, Ph.D.; Danny JJ Wang, Ph.D.; Elisa E. Konofagou, Ph.D.;
 Cen Zhang, M.D.; Zoe Arvanitakis, M.D., M.S.; Paul Yushkevich, Ph.D.;

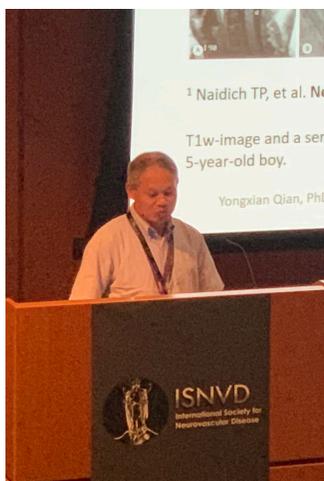
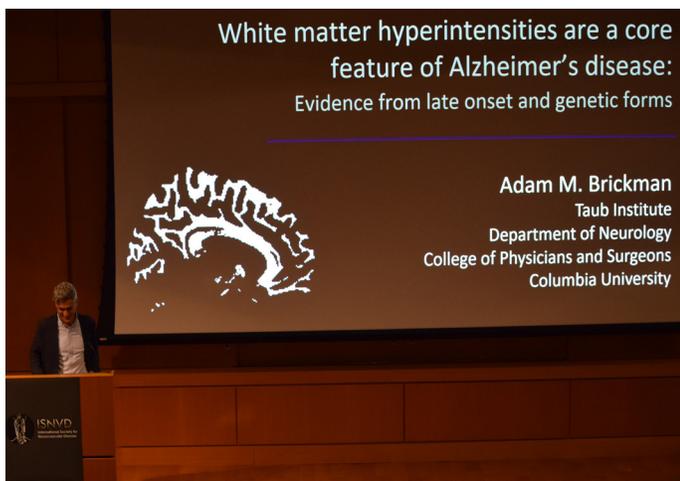
On **Day 2**, the meeting topics were more varied, focusing on neurovascular diseases and neurodegenerative diseases, as well as neurofluids.

Dr. Costantino Iadecola gave a keynote plenary talk on “Neurovascular Risk Factors and Dysfunction in Aging and Dementia” to bring together and shed light on the various topics that were discussed.

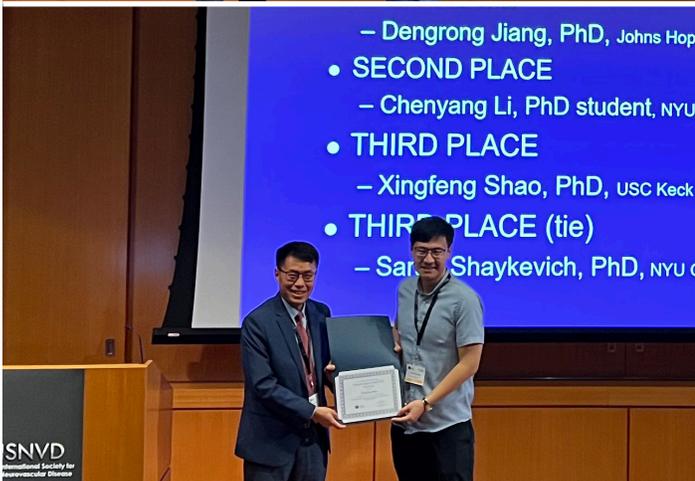
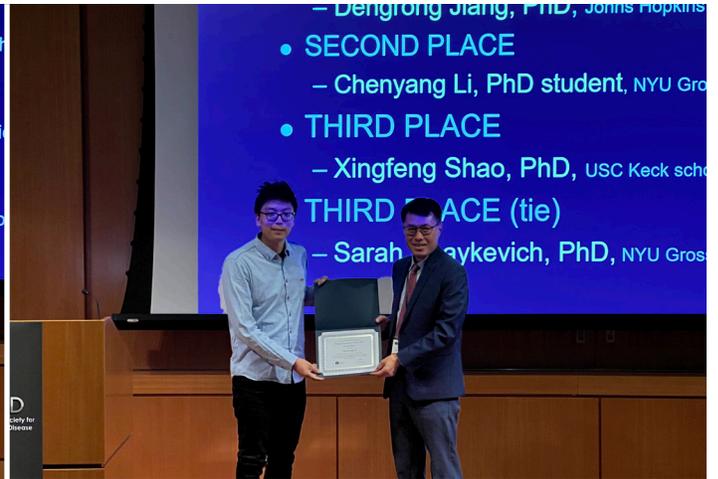
On **Day 3**, the meeting focused on advanced methods in neuroimaging. Additionally, four invited zoom lectures were presented virtually, including a live Q&A session for online speakers.



Constantino Iadecola, M.D.
Keynote Speaker
Professor, Weill Cornell Medicine



Invited Speakers clockwise, from top left:
Adam Brickman, Ph.D.; Matthias van Osch, Ph.D.; Gene S Kim, Ph.D.; Sagar Buch, Ph.D.;
David Chu, Ph.D.; Maria Marcella Laganà, Ph.D.; Yongxian Qian, Ph.D.

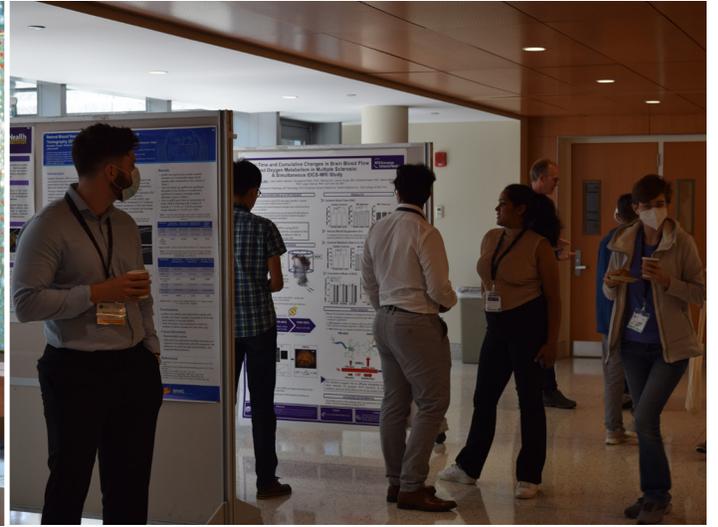
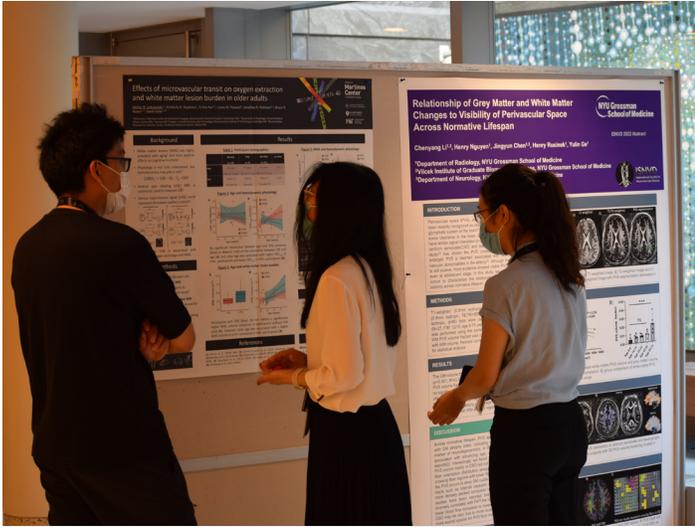


One of the goals through this meeting was to offer a potential career pathway towards neurovascular research among topnotch graduate students in neuroscience, bioengineering, and clinical fellows. One particular activity, the **Young Investigator Awards (YIA)**, has proven over the years to be an effective mechanism for identifying and recognizing top-tier talent among an international pool of postdocs and students. YIA candidates were selected from early-stage investigators who gave oral presentations at the conference. Additionally, eight **Travel Stipend Awards** were also given to selected in person abstract presenters. The award ceremony was held before the closing remarks.

Young Investigator Award Recipients clockwise, from top left:
 First Place - Dengrong Jiang, Johns Hopkins University
 Second Place - Chenyang Li, NYU Grossman School of Medicine
 Third Place (tie) - Sarah Shaykevich, NYU Grossman School of Medicine
 Third Place (tie) - Xingfeng Shao, USC Keck School of Medicine



Travel Stipend Award Recipients



Poster Sessions

Attendees who submitted abstracts presented their work during the **scientific abstract presentation sessions** on the first two days. Additionally, the meeting also featured **poster sessions** on these days. The attendees enjoyed the exchange of ideas during the poster sessions, and the break times were fully utilized to further discuss the lectures and presentations throughout the meeting.



With Dr. Raymond Damadian

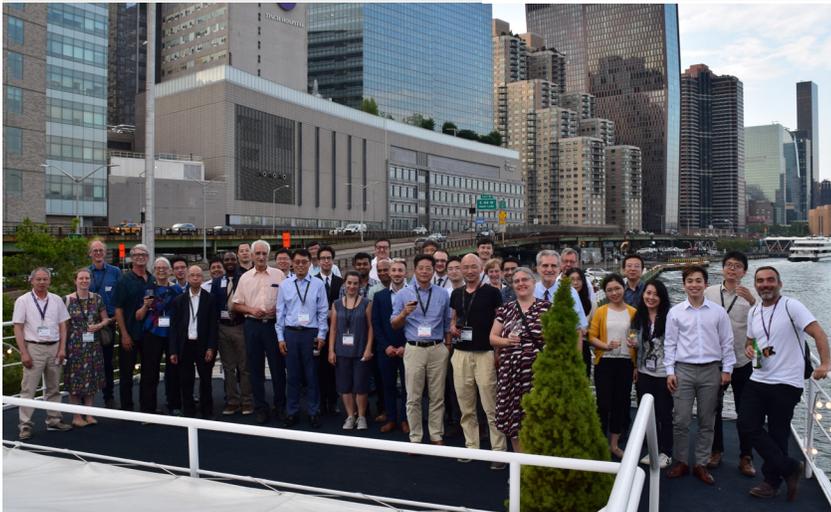


Coffee Breaks and Lunch Breaks

All attendees were invited to the dinner cruise on the first day for the **opening reception event**. The boat stopped by Statue of Liberty at sunset and witnessed the NYC skyline in both daytime and nighttime. The speakers and YIA candidates were invited to the **speaker dinner** on the second day.



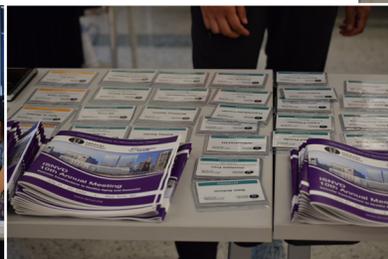
Opening Reception Dinner Cruise Attendees and the Statue of Liberty at sunset



Speaker Dinner Speakers, staff, and YIA candidates, looking over the campus by East River

The ISNVD would like to thank the sponsors, NYU, and all the staff that are involved in making the event successful.

Written and designed by Li Jiang
Photos by Alan Barnett and Zifei Liang



Li Jiang, M.A.
Chief of Staff at ISNVD 2022



Our next annual meeting will be held in Zhengzhou, China