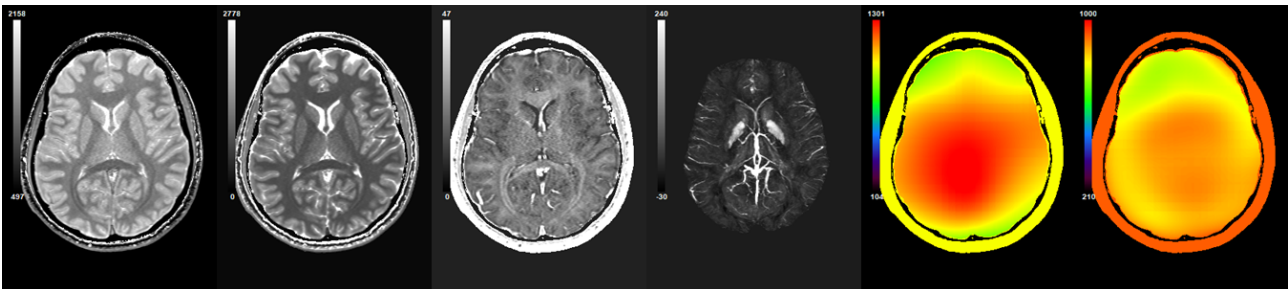


## ISNVD Webinar

# Approaches and Applications of Multi-Contrast Quantitative Imaging

January 20th, 2021

US EST: 08.00-10.00 am | UK GMT: 01.00-03.00 pm  
Europe CET: 02.00-04.00 pm | Asia Beijing Time: 09.00-11.00 pm



### Abstract:

The ability to acquire standardized quantitative data has important implications in the collection of "big data" and the use of AI processing in MRI. In this webinar, the speakers will review the concepts and clinical applications of quantitative imaging. In particular, a new multi-contrast, multi flip angle, standardized brain imaging protocol called STAGE (STrategically Acquired Gradient Echo) will be described. This protocol can be applied across manufacturer's systems and across field strengths.

**Moderator:** Dr. Marcella Laganà, Prof. E. Mark Haacke, Prof. Claudia Gandini Wheeler-Kingshott  
**Senior Chairs:** Prof. Yulin Ge and Prof. Mark Haacke

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- For participants, the audio and video will be turned off during the meeting, you are encouraged to ask questions in the Q/A session and chat room.
- If you have any questions, please contact Mr Li Jiang at [li.jiang@isnvd.org](mailto:li.jiang@isnvd.org)

## **Program (time shown in US EST)**

08.00-08.05 Welcome and introduction (Yulin Ge, MD, NYU Grossman School of Medicine, NY, USA. President of ISNVD)

08.05-08.20 **STAGE Imaging, A Rapid Standardized Multi-Contrast Imaging Technique for the Collection of BIG DATA and Application of Artificial Intelligence in Neuroimaging.** E. Mark Haacke, PhD - Wayne State University, Detroit, USA

08.20-08.35 **STAGE Applications in Parkinson's Disease.** Naying He, MD - Ruijin Hospital, Shanghai, China

08.35-08.50 **Imaging Neuromelanin in Parkinson's Disease Using MTC-STAGE.** Yongsheng Chen, PhD - Wayne State University, Detroit, USA

08.50-09.00 Q&A

09.00-09.15 **Imaging the Brain's Vasculature in Stroke Patients Using STAGE MRAV.** Shuang Xia, MD, PhD - Tianjin First Central Hospital, Tianjin, China

09.15-09.30 **STAGE Across Field Strengths.** Marcella Laganà, PhD - IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milan, Italy

09.30-09.45 Discussion from Moderator: **The Importance of Multi-Contrast Imaging.** Claudia Gandini Wheeler-Kingshott, PhD - University of Pavia, Italy; Mondino National Neurological Institute, Pavia, Italy; UCL Institute of Neurology, London, United Kingdom.

09.45-09.55 Q&A

09.55-10.00 Closing remarks (E. M. Haacke and Y. Ge)

## **Speakers**

**E. Mark Haacke, PhD.** Professor of Radiology and Biomedical Engineering, Wayne State University, Detroit, Michigan, USA. Founding member and former president of the ISNVD and former president of the ISMRM.

**Naying He, MD, PhD.** Head of the Neuroimaging Research Group, Department of Radiology, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China.

**Yongsheng Chen, PhD.** Assistant Professor, Department of Neurology, Wayne State University School of Medicine, Detroit, Michigan, USA.

**Shuang Xia, MD, PhD.** Radiology Department, Tianjin First Central Hospital, Nankai University, Tianjin, China. Member of Chinese stroke association. Founding review expert of NSCF.

**Maria Marcella Laganà, PhD.** Engineer, full researcher of the MRI laboratory, CADiTeR, IRCCS Fondazione Don Carlo Gnocchi, Milan, Italy. Adjunct Professor, University of Milan, Italy. Founding member of the National Bioengineering Group. Executive ISNVD board member.

**Claudia Gandini Wheeler-Kingshott, PhD.** Physicist, Professor at the UCL Queen Square Institute of Neurology (London, UK), and at the University of Pavia (Pavia, Italy). Co-founder and Director of the School of Brain Cells and Circuits dedicated to "Camillo Golgi".