

Maryann Martone, Ph.D.
Professor-in-Residence
Department of Neuroscience
Co-Director of the National Center for Microscopy and Imaging Research
University of California, San Diego

Maryann Martone received her B.A. from Wellesley College in Biological Psychology and Ancient Greek, and her Ph.D. in Neuroscience in 1990 from the University of California, San Diego. Her thesis work on the neurochemical organization of the mammalian neostriatum was performed in the laboratory of Dr. Philip Groves. After receiving her degree, she joined the National Center for Microscopy and Imaging Research, then newly founded at the University of California, San Diego by Dr. Mark Ellisman. The National Center is a NIH-established research resource dedicated to the advancement of 3D multi-scale imaging technologies for unraveling the molecular and structural complexity of the nervous system. She is currently the co-director of the National Center and a Professor-in-Residence in the Department of Neuroscience at UCSD.

Although she continues to investigate the structure of the nervous system using light and electron microscopy, for the past several years, she has been involved in the creation of neuroinformatics resources for neuroscience. Dr. Martone is the principal investigator of the Neuroscience Information Framework project, an effort of the NIH Neuroscience Blueprint initiative to establish a uniform resource description framework for neuroscience. She also is the head of the Cell Centered Database project (www.ccdb.ucsd.edu), an on-line database for electron tomography and correlated light and electron microscopic data. Her recent work has focused on building ontologies for neuroscience to facilitate data exchange and integration, and integrating such ontologies into image analysis and data mining tools. She chairs the Neuroinformatics Committee for the Society for Neurosciences and is the U.S. scientific representative to the International Neuroinformatics Coordinating Facility (INCF). Within the INCF, she chairs the program on Ontologies for Neural Structures.