Basic relevant information on methodologies used in neurological disease models can be extremely hard to find. The Handbook of Experimental Neurology contains 30 chapters from over 60 internationally recognized scientists and covers every major methodology and disease model in the neurosciences. The book is divided into two major sections: Part I deals with general methodologies in neuroscience research covering topics from animal welfare and ethical issues to surgical procedures, postoperative care, and behavioral testing, while Part II covers every major disease model from traumatic brain injury, ischemia and stroke, to CNS tumors, hydrocephalus, demyelinating disease, Parkinson's, motor neuron disease, epilepsy, bacterial infection, and sleep disorders. Delivering critical, up-to-the-minute, methodological information and describing small-animal models for almost all major neurological diseases, this book is written specifically for beginners and young scientists in neurosciences. It will also serve as a cutting-edge reference for more experienced researchers.

Dr. Tatlisumak received his neurology training in the Helsinki University Central Hospital. His Ph.D. was gained in experimental brain ischemia and magnetic resonance imaging at the University of Massachusetts. His research field is clinical and experimental stroke and magnetic resonance imaging. He holds board certificates in neurology and healthcare administration in Finland. He is currently an associate professor and Vice-Chairman at the Department of Neurology, Helsinki University Central Hospital and the director of the Experimental Magnetic Resonance Imaging Laboratory. Dr. Tatlisumak is a Fellow of the American Heart Association. He is an awarded teacher and holds a degree in teaching sciences.

Dr. Fisher received his medical degree from the State University of New York at Syracuse and then trained in medicine at the University of
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