Douglas Eric Raines, MD

Douglas Eric Raines, MD is a Board Certified anesthesiologist in the Department of Anesthesia, Critical Care and Pain Medicine at Massachusetts General Hospital in Boston, Mass. Dr. Raines is the inventor of ABP-700, a novel, potent, positive allosteric modulator of the GABAA receptor currently being developed for induction and/or maintenance general anesthesia and procedural sedation in patients undergoing diagnostic or therapeutic procedures.

Dr. Raines's research is focused on understanding the molecular mechanisms of anesthetic action on ligand-gated ion channels. General anesthetics are administered to more than 25 million patients in the U.S each year, but the underlying molecular mechanisms are not understood. Cys-loop ligand-gated ion channels such as the GABAA, 5-HT3, glycine, and nicotinic acetylcholine receptors form a superfamily of anesthetic-sensitive receptors that are thought to play important roles in mediating the desirable clinical actions and undesirable side-effects of general anesthetics. NMDA receptors are glutamatergic ligand-gated ion channels that are also important targets of general anesthetics. His laboratory uses electrophysiological techniques to define the actions of general anesthetics on ligand-gated ion channels.

Dr. Raines received his MD degree from the University of Virginia and conducted his residency at Massachusetts General Hospital.

Source: Massachusetts General Hospital website (www.massgeneral.org)
Prof. Dr. M.M.R.F. (Michel) Struys

Prof. Dr. MD Michel Struys is Professor and Chairman at the Department of Anesthesiology, University Medical Center Groningen, Groningen, The Netherlands and Full professor at the University of Groningen. His main research field covers clinical pharmacology of intravenous and inhaled drugs used in anesthesia, pharmacological modelling including closed-loops in anesthesia, drug administration techniques and equipment testing.

Previously, Prof. Struys was head of the department of Ambulatory Surgery and Anesthesia, Gent, Belgium, and staff member at the department of Anesthesia at UZ Gent.

Prof. Struys is Editor and Board Member British Journal of Anaesthesia.

Source: University Medical Center Groningen website (www.umcg.nl).
About Massachusetts General Hospital

Founded in 1811, Massachusetts General Hospital (MGH) is the original and largest teaching hospital of Harvard Medical School, and is also where the first public demonstration of ether anesthesia was performed in 1846. The 999-bed medical center each year admits approximately 48,000 inpatients; handles nearly 1.5 million visits in its extensive outpatient programs at the main campus, four health centers and satellite facilities; and records more than 100,000 visits to its Emergency Department. The surgical staff perform more than 42,000 operations annually, and the MGH Vincent Obstetrics Service delivers more than 3,600 babies a year. The largest nongovernment employer in Boston, the MGH has more than 23,000 employees, including more than 3,700 registered nurses. In 1994, MGH and Brigham and Women's Hospital – also one of the top 10 hospitals on the U.S. News Honor Roll – affiliated to form Partners HealthCare, an integrated health care delivery system.

The oldest and largest hospital in New England, MGH conducts the largest hospital-based research program in the nation, and is designated a Magnet hospital, the highest honor for nursing excellence awarded by the American Nurses Credentialing Center.

The Department of Anesthesia, Critical Care and Pain Medicine (DACCPM) at MGH offers world-class patient care, the finest education for medical students and residents, innovative research laboratories and a team of accomplished faculty. Each year, MGH provides anesthesia services for more than 50,000 procedures in 67 operating rooms and 25 additional locations on the Mass General campus.

Source: Massachusetts General Hospital website (www.massgeneral.org)
About The University Medical Center Groningen (UMCG)

The University Medical Center Groningen (UMCG) was established in 2005 as a joint activity of the University of Groningen and the Academic Hospital Groningen (AZG). At present, the UMCG is one of the largest hospitals in the Netherlands and the largest employer in the Northern Netherlands. More than 10,000 employees provide patient care, are involved in medical education and perform cutting-edge scientific research, focused on ‘healthy and active ageing’.

Research and education at the UMCG are funded through the University of Groningen, and the Faculty of Medical Sciences functions as an integral part of the University. More than 3,400 students of the University of Groningen study Medicine, Dentistry or Human Movement Sciences, while more than 340 physicians are doing their specialty training at the state of the art facilities of the UMCG.

Patients attend the UMCG for basic care but also for very specialist diagnoses, examination or treatment. All patients from the Northern Netherlands with complicated or unusual disorders are eventually referred to the UMCG.

Research at the UMCG is characterized by a combination of fundamental and patient oriented clinical research. The interaction between these two stimulates the development of new clinical and research opportunities. Problems that occur in the clinical practice act as a catalyst which sets new fundamental research in motion, whereas fundamental research can come up with new clinical possibilities.

Good quality care is always based on the latest information, and is provided by the best doctors and nurses. Together with the support staff, every day the health care professionals at UMCG work to achieve a single common goal: building the future of health.

Source: The University Medical Center Groningen website (www.umcg.nl)