Neurology

Chair

• George B. Richerson

Faculty: https://medicine.uiowa.edu/neurology/profile
Website: https://medicine.uiowa.edu/neurology/

Neurology is the branch of medical science concerned with
diagnosis and management of disorders of the brain, spinal
cord, peripheral nervous system, and muscle.
The Department of Neurology’s hallmark is its history of
carefully integrating patient care, scientific investigation,
and the education of medical, postdoctoral, and graduate
students. The department also offers research opportunities
in various fields of neuroscience including neuropsychology,
neuroimaging, and neuroanatomy to PhD students in
neuroscience and psychology.

Research

The faculty's investigative interests center on cognitive
neuroscience, degenerative diseases, cerebrovascular
disease, neurogenetics, neuromuscular diseases,
electrophysiological correlates of central and peripheral
nervous system disease, growth factors in the nervous
system, control and regulation of autonomic functions, neuro-
ophthalmology, movement disorders, epilepsy, and pain
management. For more information see the Department of
Neurology website.
The new Iowa Center for Neurodegeneration, housed in
the Department of Neurology and affiliated with the
Iowa Neuroscience Institute, will concentrate on combating
neurodegenerative diseases such as Alzheimer’s disease,
Parkinson’s disease, dementia, and amyotrophic lateral
sclerosis (ALS).

MD Training

The department provides clinical and clinical research training
to second-, third-, and fourth-year MD students.

Residency

The Department of Neurology offers an active, four-year
approved residency program that qualifies physician trainees
for board certification in neurology. Experience in clinical
electrophysiology, pediatric neurology, psychiatry, and
neuropathology is part of this training.

Courses

Neurology Courses

NEUR:5365 Seminar: Neuropsychology and Neurosciences
Clinical neuropsychology and cognitive neuroscience: cutting-edge research from scientific journals, case presentations in clinical neuropsychology, and current research. Same as NSCI:5365, PSY:5365.

NEUR:7235 Neurobiology of Disease
Broad, thematic understanding of disease mechanisms in neurobiological disorders. Prerequisites: ACB:6252. Same as NSCI:7235.

NEUR:8301 Clinical Neurology
Experience in clinical neurology through ward work and case-based conferences linked to required reading; focus on neurologic examination, diagnosis of neurologic problems.

NEUR:8401 Advanced Inpatient Neurology
Experience and management of patients with seizure disorders, headache, cerebrovascular diseases; conferences, clinical rounds; two weeks on each inpatient service for a total of four weeks. Prerequisites: NEUR:8301.

NEUR:8402 Advanced Outpatient Neurology
Experience in evaluation, management of patients with various neurologic diseases; four weeks in clinic patient care. Prerequisites: NEUR:8301.

NEUR:8404 Advanced Inpatient Subinternship in Neurology
Care of patients with acute and serious neurological diseases, management of patients with varied cerebrovascular diseases; treatment of acute brain disease, comorbid medical diseases, medical and neurological complications that occur among patients with stroke; clinical assessments of patients, writing orders and clinical notes, contribution to rounds; close communication with patients, families, and colleagues; assignment to evening calls for emergency visits and consultations.

NEUR:8497 Research in Neurology
Medical research, clinical or laboratory projects; individual study.

NEUR:8498 Neurology On Campus

NEUR:8499 Neurology Off Campus