

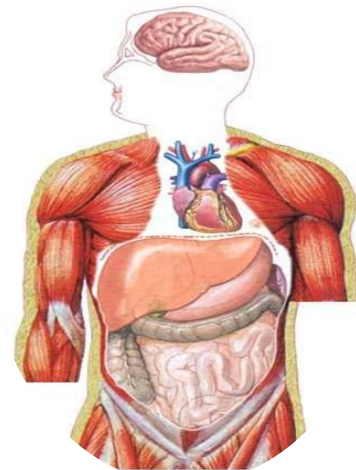
Translational Neuroscience

Brain, Mind and Muscle

We gain more and more biomedical knowledge of neurological and psychiatric diseases like migraine and depression. But how can we translate this knowledge into clinical applications? And how to translate clinical questions into biomedical research proposals? The field of translational neuroscience deals with these issues. If you want to be a clinical doctor, a neuroscientist, or if you are interested to explore this area, this half minor is for you.

Introduction

Translational Neuroscience is about the effort to translate advances in basic neuroscience into the development of new treatments or medical procedures for patients. It is also about clinicians translating their clinical knowledge and findings into key questions for basic neuroscientists.



Quote

“This half minor is incredibly diverse; each week focuses on another theme.”

- Myasthenia
- Huntington's Disease

- Duchenne
- Muscular Dystrophy

- Visual and auditive diseases
- Neuro-endocrine diseases

- Migraine, cluster headache
- Mental States

- Depression and Stress
- Cicadian Rhythm Disturbances

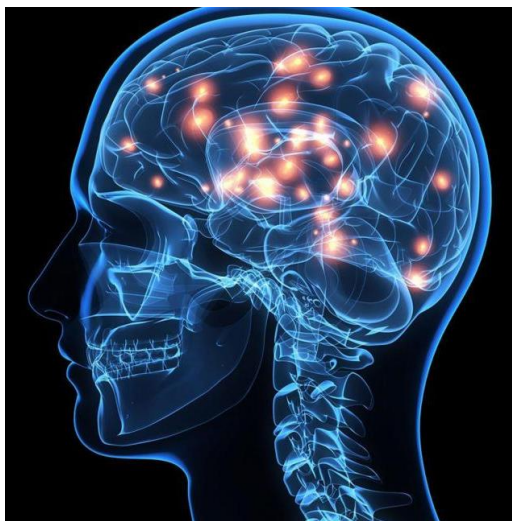
Overview

During this half minor, present knowledge of various diseases of the brain, mind and muscle is highlighted, as well as current clinical research on translational neuroscience. The first five weeks focus on diseases of muscle and peripheral nerve systems, such as myasthenia, Huntington disease and Duchenne. The second five weeks emphasize diseases of the central nervous system (migraine) and factors influencing the homeostasis of the brain, such as neuroendocrine status, stress, and circadian rhythms.

Learning goals

At the end of this half minor, students can recognise brain disorders and neurological movement disorders and evaluate new therapeutic possibilities. Furthermore, the students can critically appraise research, and formulate research proposals, tackling fundamental questions in translational neuroscience.

Acquire advanced knowledge of basic mechanisms and techniques in Translational Neuroscience!



Assessment

- Written exam: comprised of multiple short exams throughout the minor (70%)
- Research proposal (15%)
- Paper appraisal (15%)

Learn about translational approaches in nerve and muscle disorder, disorders of vision and hearing, circadian rhythms, migraine and depression!

Contact us



Prof Dr N.J.A. van der Wee
Psychiatry
N.j.a.van_der_wee@lumc.nl
071-5263785

Dr J.J. Plomp
Neurology
J.J.Plomp@lumc.nl
071-5269768