

Psychologie und Sportwissenschaft

Module description

Module title	PSYCH-MA-PFM-16: Functional Magnetic Resonance Tomography
Subject	BION
Associated degree	Master of Science (M.Sc.)
Module coordinator	Prof. Dr. Rudolf Stark Rudolf.Stark@psychol.uni-giessen.de
Frequency and duration	Winter and summer (2 semester course, 1.5h per week)
Language of instruction	German
Examination	presentations, essay, report or test
ECTS	10 (for full 2 semester module; partial module = 5)
Prerequisites	none
Learning outcomes	 Students will gain knowledge of the fundamentals of functional magnetic resonance imaging (fMRI) learn methods of evaluating fMRI data receive an introduction to the practical execution of fMRI experiments gain knowledge in the interpretation and evaluation of fMRI results
Module content	 basic physical principles of magnetic resonance imaging safety and important terms in magnetic resonance imaging servicing scanner software designing fMRI experiments and the fundamentals of evaluating fMRI data Practice practical execution of an fMRI experiment introduction to evaluating fMRI data using SPM (statistical parametric mapping)