

THE DISCIPLINE FILE

DISCIPLINE TITLE	MEDICAL NEUROBIOLOGY
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CYCLE	YEAR OF STUDY	SEMESTER	TYPE OF DISCIPLINE
MASTER	1 ST YEAR	2ND SEMESTER	OBLIGATORY

NUMBER OF HOURS PER WEEK		TOTAL HOURS PER SEMESTER	TOTAL HOURS OF INDIVIDUAL ACTIVITY	NUMBER OF CREDITS	TYPE OF EVALUATION	LANGUAGE OF TEACHING
Course	Laboratory					
2	0	56	68	6 ECTS	Final Exam	Romanian English (on request)

PROFESSOR	DEPARTMENT
ASSOC PROF. BEATRICE MIHAELA RADU	DEPARTMENT OF ANATOMY, ANIMAL PHYSIOLOGY AND BIOPHYSICS

NECESSARY DISCIPLINES PREVIOUSLY STUDIED	Animal Physiology, Biochemistry, Molecular Biology, Histology
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THEMATICS	<ol style="list-style-type: none"> 1. Multiple sclerosis. Sierologic and cerebrospinal fluid exam 4 hours 2. Epilepsy. Blood levels of intracellular antibodies and anti-nuclear antibodies associated with human epilepsy 4 hours 3. Autoimmune encephalitis. 4 hours 4. Alzheimers' disease. Parkinson's disease 2 hours 5. Miastenia gravis 2 hours 6. Differential diagnosis în neuropathology. Systemic lupus erythematosus. Herpes simplex virus. 2 hours 7. Sierologic exam in clinical laboratory 2 hours 8. Imunohistology, Immunohistochemistry and Immunofluorescence in clinical laboratory 4 hours 9. Cerebrospinal fluid exam in clinical laboratory 2 hours 10. Western-blot and electrophoresis in clinical laboratory 2 hours
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REFERENCES	<ol style="list-style-type: none"> 1. Iffland PH 2nd, Carvalho-Tavares J, Trigunaite A, Man S, Rasmussen P, Alexopoulos A, Ghosh C, Jørgensen TN, Janigro D. Intracellular and circulating neuronal antinuclear antibodies in human epilepsy. Neurobiol Dis. 2013; 59:206-19. 2. Zuliani L, Graus F, Giometto B, Bien C, Vincent A. Central nervous system neuronal surface antibody associated syndromes: review and guidelines for recognition. J Neurol Neurosurg Psychiatry. 2012; 83(6):638-45. 3. Lancaster E, Dalmau J. Neuronal autoantigens--pathogenesis, associated disorders and antibody testing. Nat Rev Neurol. 2012; 8(7):380-90. 4. Ramanathan S, Mohammad SS, Brilot F, Dale RC. Autoimmune encephalitis:
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	<p>recent updates and emerging challenges. J Clin Neurosci. 2014; 21(5):722-30.</p> <p>5. http://www.euroimmun.com/, Laboratory Applications, Techniques, Products</p> <p>6. Alzheimer's Disease. Advances in Genetics, Molecular and Cellular Biology. Sangram S. Sisodia Rudolph E. Tanzi Springer Science+Business Media, LLC 2007</p> <p>7. Parkinson's Disease and Related Disorders. P. Riederer H. Reichmann M. B. H. Youdim M. Gerlach. Springer-Verlag/Wien 2006</p> <p>8. Cerebrospinal Fluid in Clinical Neurology. Florian Deisenhammer, Finn Sellebjerg, Charlotte E Teunissen, Hayrettin Tumani. Springer International Publishing Switzerland 2015</p>
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EVALUATION	Final exam, Quiz and Oral examination
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Specific competences *	
1. Competences about learning and understanding	<ul style="list-style-type: none"> - knowing and correctly using specific terms for this subject - understanding fundamental processes in ethology - identification of terms, relationships, processes based on the knowledge acquired - acquire basic and specific knowledge
2. Competences about explanation and interpretation	<ul style="list-style-type: none"> - explaining and interpreting processes and theoretical ideas specific to the subject - generalizing, particularization, integration of the information - making connections between results - ability to analyze and synthesize information
3. Instrumental competences	<ul style="list-style-type: none"> - connections between different types of representations, between representations and object - describing states, systems, processes, phenomena - ability to put into practice the theoretical knowledge - research abilities
4. Competences about attitude	<ul style="list-style-type: none"> - developing positive attitudes and responsibility towards science - getting involved in its own personal development - implication in scientific activities related to the subject - ability to collaborate
