



ADMITERE DOCTORAT

Sesiunea Septembrie 2022

Domeniul de doctorat: Medicina

Conducător de doctorat: Tudor C. Badea, MD, MA, PhD, CS II

TEME (TEMATICĂ) PENTRU CONCURS

TEMA 1: Anatomia, Fiziologia si Dezvoltarea Circuitelor Neuronale Vizuale

Conţinut / Principalele aspecte abordate:

- 1) Anatomie comparata la nivel morfologic si molecular intre om si modele genetice de laborator.
- 2) Etapele embrionare si postnatale ale dezvoltarii neuronilor retinei si sistemului vizual
- 3) Studiul mecanismelor moleculare de formare a circuitelor neuronale
- 4) Mecanisme patologice si oportunitati terapeutice in afectiunile retinei

Bibliografie recomandată:

- 1) Neuroscience 6th edition - Editors: Purves, Augustine, Fitzpatrick, Hall, LaMantia, Mooney, Platt, and White, 2017, Sinauer Associates/Oxford University Press, ISBN-13: 978-1605353807
- 2) Manipulating the Mouse Embryo: A Laboratory Manual, Fourth Edition - Edited by R. Behringer, M. Gertsenstein, KV Nagy, A Nagy - 2014 - CSHL Press - ISBN 978-1-936113-01-9
- 3) The Retina: An Approachable Part of the Brain, Revised 2nd Edition - John Dowling - 2012 - Belknap / Harvard University Press ISBN: 0674061543
- 4) The first steps in seeing - Robert W. Rodieck - 1998 - Sinauer Associates, Inc. ISBN: 0878937579
- 5) Webvision: The Organization of the Retina and Visual System
<https://webvision.med.utah.edu/>
- 6) Molecular Cloning A Laboratory Manual (MR. Green and Joseph Sambrook) : 2012 Cold Spring Harbor Laboratory Press ISBN: 978-1-936113-42-2
- 7) Ophthalmology 5th edition Myron Yanoff, Jay Duker 2018, Elsevier, ISBN: eBook 9780323528214; Hardcover: 9780323528191

Note /Precondiții / Obs.:

Diploma de licenta in medicina, biologie, fizica sau chimie.

TEMA 2: Clasificari, fiziologie si patologia tipurilor neuronale din retina

Conţinut / Principalele aspecte abordate

- 1) Markerii moleculari cu relevanta in biologia si fiziologia retinei
- 2) Modele experimentale pe animal in studiul fiziologiei si patologiei retinei
- 3) Implicarea metabolismului neuronal in functia vizuala

4) Mecanisme patologice si oportunitati terapeutice in afectiunile retinei

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1) Neuroscience 6th edition - Editors: Purves, Augustine, Fitzpatrick, Hall, LaMantia, Mooney, Platt, and White, 2017, Sinauer Associates/Oxford University Press, ISBN-13: 978-1605353807

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5) Webvision: The Organization of the Retina and Visual System
<https://webvision.med.utah.edu/>

6) Biochimie Clinica : Implicatii Practice Editia a - III-a; Minodora Dobreanu, - 2015 -Targu Mures University Press

7) Ophthalmology 5th edition Myron Yanoff, Jay Duker 2018, Elsevier, ISBN: eBook 9780323528214; Hardcover: 9780323528191

Note /Precondiții / Obs.: *se va adapta /completa/elimina, după caz*

Conducător de doctorat,

Prof. dr. Tudor C. Badea, MD, MA, PhD, CS II

Semnătură



Coordonatorul domeniului de doctorat,

Prof. dr. IFTENI Petru

Semnătură

