

INFORMAȚII PERSONALE



Zăgrea Ana-Maria

📍 Facultatea de Medicină, UMF Carol Davila,
B-dul Eroii Sanitari nr. 8, 050474 București, România

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POZIȚIA ACTUALĂ

Profesor universitar, Facultatea de Medicină, Universitatea de Medicină și Farmacie “Carol Davila”, București

EXPERIENȚA PROFESIONALĂ

- din 2020

Profesor universitar
Disciplina Fiziologie II Neuroștiințe, Departamentul de Științe Funcționale, Facultatea de Medicină, Universitatea de Medicină și Farmacie “Carol Davila”, București
Activități de predare - Fiziologie și Neuroștiințe (cursuri și lucrări practice, predare în limba română și engleză), coordonare activitate didactică și de cercetare pentru studenții și doctoranzi
- 2013-2020

Conferențiar universitar
Disciplina Fiziologie II Neuroștiințe, Departamentul de Științe Funcționale, Facultatea de Medicină, Universitatea de Medicină și Farmacie “Carol Davila”, București
Activități de predare - Fiziologie și Neuroștiințe (cursuri și lucrări practice, predare în limba română și engleză), coordonare activitate didactică și tutore pentru studenții Modulului de Limba Engleză.
Coordonare activitate de cercetare pentru studenții Facultății de Medicină, anii I - VI, inclusiv pentru realizarea lucrărilor de licență
- 2003-2013

Șef de lucrări
Disciplina de Fiziologie II, Facultatea de Medicină, Universitatea de Medicină și Farmacie “Carol Davila”, București
Activități de predare - Fiziologie și Neuroștiințe (cursuri și lucrări practice, predare în limba română și engleză), coordonare activitate didactică Modul Limba Engleză.
Coordonare activitate de cercetare pentru studenții Facultății de Medicină, anii I - VI, inclusiv pentru realizarea lucrărilor de licență
- 2000-2003

Asistent universitar
Catedra de Fiziologie, Facultatea de Medicină, Universitatea de Medicină și Farmacie “Carol Davila”, București
Activitate de predare – Fiziologie (lucrări practice, cursuri)
- 1996-2000

Doctorand cu frecvență, preparator
Catedra de Fiziologie, Facultatea de Medicină, Universitatea de Medicină și Farmacie “Carol Davila”, București
Activități de cercetare și predare - Fiziologie

EDUCAȚIE ȘI FORMARE

Studii / diplome obținute

- 2019, Abilitare (Vulnerabilitatea metabolică a creierului – de la modelele experimentale la strategii de neuroprotecție), Univ. de Medicină și Farmacie “Carol Davila”, București

- 2003, Doctor în Științe Medicale ("Precondiționarea ischemică cerebrală", coordinator Prof. Dr. Alexandru Șerbănescu), Universitatea de Medicină și Farmacie "Carol Davila", București
- 1995, Doctor medic (MD), Facultatea de Medicină, Universitatea de Medicină și Farmacie "Carol Davila", București
- 1987, Diploma de bacalaureat, Liceul de Matematica-Fizică nr. 3 "Al. I. Cuza", București

Alte studii/calificări

- februarie 2013 Stagiu de cercetare, Ischemia Research Unit, Department of Cell Therapy, Fraunhofer Institute for Cell Therapy and Immunology, Leipzig, Germany
- 2001-prezent Secretar general, Societatea Națională de Neuroștiințe (SNN)
- oct. 2006-dec.2008 Honorary Research Fellow, Medical School, Birmingham University, UK
- 2004-2007 Junior Fellowship al Societății Britanice de Fiziologie
- mai 2005 Participarea la Workshopul LSH-ACC-Mentor, a 4-day mentoring workshop on issues relating to participation in FP6 EU-funded RTD projects, Sofia, Bulgaria.
- octombrie 2001 Advanced Workshop in Neuroscience for Young Physiologists, Praga, Cehia
- iulie 2001 Școala de vară IBRO/FENS "Receptor activation and beyond", Sulejów, Poland,
- februarie 2001 Cursul postuniversitar "Apoptosis: Theory and Methods", Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden
- oct. 2000– martie 2001 Bursă doctorală de cercetare la Karolinska Institute, Dept. of Clinical Neuroscience, Occupational Therapy & Elderly Care Research, Div. of Geriatric Medicine, NEUROTEC, Novum, Sweden
- 1998-2000 Cursuri de Neuroștiințe, Facultatea de Medicină, Universitatea de Medicină și Farmacie "Carol Davila"
- mai 2000 Cursul de pedagogie "Teaching the teacher", în cadrul proiectului TEMPUS Phare, Universitatea de Medicină și Farmacie "Carol Davila", București,
- august 1997 Școala de vară internațională: "Membrane Transport Processes and Signal Transduction", FEBS'97 Advanced Course, Bucharest, Romania

COMPETENTE PERSONALE
Domenii de cercetare și interes științific

Răspunsul creierului la hipoxie / ischemie și reperfuzie și la stări modificate ale excitabilității, în creierul imatur și matur, în modele experimentale *in vivo* (ischemie cerebrală globală, asfixie perinatală, epilepsie experimentală) și *in vitro* (deprivare de oxigen și glucoză). Studiul epigenetic, biochimic, electrofiziologic și comportamental al răspunsului creierului la diferiți factori de stres metabolic și de mediu, care vizează recuperarea creierului și strategiile de neuroprotecție (<https://umfcd.ro/cercetare-si-dezvoltare/proiecte/proiecte-nationale/pn-iii-p1-1-2-pd-2019-1219-impactul-anesteziei-generale-asupra-creierului-imatur-expus-anterior-asfixiei-perinatale/>). Efectele genetice, biochimice și comportamentale la făt, consecutiv modificărilor de ritm circadian matern. Studii de electrofiziologie în coma indusă anestezic, prin participarea la grupul multi-disciplinar COMAEEG (www.comaeeeg.ro). Rolul cerebelului în controlul activității corticale oscilatorii, în condiții normale și patologice (www.fiziologie.ro/cerosco/).

Competențe activitate de cercetare și aptitudini tehnice:

Inregistrarea parametrilor fiziologici în condiții clinice și experimentale
 Metode de obținere și investigare a culturilor celulare
 Metode de evaluare a metabolismului celular, a viabilității/mortii celulare
 Modele de ischemie/asfixie cerebrală experimentală *in vivo* și *in vitro*
 Metode de epilepsie experimentală
 Neurofiziologie
 Imunohistochimie
 Metode de evaluare a comportamentului la animale de laborator
 Metode de genetică și epigenetică

Limba(i) maternă(e)

Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	C2	C2	C2	C2	C2
Franceza	B2	B2	B2	B1	B1

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
 Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

▪ Competențe de comunicare foarte bune dobândite prin experiența didactică (24 de ani) și de participarea activă la manifestări științifice naționale și internaționale (din perioada studenției)

Competențe organizaționale/manageriale

Coordonare activitate didactică și de cercetare pentru studenți, coordonare lucrări de licență, participare la îndrumarea doctoranzilor.

Coordonator Modul limba engleză anul II, pentru Fiziologie și Neuroștiințe, Facultatea de Medicină

Înființarea și coordonarea Laboratorului de Culturi Celulare Neuronale din Disciplina de Fiziologie și Neuroștiințe (din 2003)

Organizator manifestări științifice naționale și internaționale, ca secretar al Societății Naționale de Neuroștiințe (SNN), din 2003

Activitate de evaluare, națională și internațională:

- Referent pentru jurnale ISI: PlosOne; Cellular and Molecular Neurobiology; Molecular Human Reproduction (Oxford Journals); Neonatology; Frontiers in Neurosciences; Neuroscience Letters, Oxidative Medicine and Cellular Longevity, Acta Endocrinologica (Buc.), Romanian Journal of Laboratory Medicine, etc.

- Membru al comitetului *International Brain Research Organization Pan-Europe Regional Committee* (IBRO-PERC), din 2018

- Membru al *Committee for Higher Education and Training* (CHET-FENS), din 2020

- Membru în comisii de concurs de promovare și de doctorat - UMF Carol Davila București, UMF Craiova, Universitatea București, din 2016 până în prezent

- Membru al comisiei etice pentru cercetare științifică, Sp. Filantropia, București, 2014-2017

- Membru în comitetul de consilieri pentru activitatea de doctorat (thesis advisory committee – TAC), Institutul de Neuroștiințe, München, Germania (2012)

- Evaluator în cadrul Registrului Național al Expertilor în Învățământul Superior și Cercetare, din 2005.

- Expert evaluator în domeniul Neuroștiințelor pentru European Science Foundation, 2003-2004

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator independent

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat

Permis de conducere

 Utilizare PC, microsoft office, prelucrare date excel, GraphPad Prism, tehnoredactare, Photoshop – analiza de imagini
 B

INFORMATII SUPLIMENTARE

Proiecte de cercetare cu finanțare națională, ca director / responsabil de proiect sau membru in echipa de cercetare:

- Proiect UEFISCDI PN-III-P2-2.1-PED-2019-3775, contract nr. 335PED/2020, cu tema „Sistem cu sondă inovativ utilizat pentru ghidarea electrofiziologică în neurochirurgia funcțională (BRAIN-GUIDE)”, 2020-2022, Responsabil proiect
- Proiect UEFISCDI PN-III-P1-1.2-PD-2019-1219 - Impactul anesteziei generale asupra creierului imatur expus anterior asfexiei perinatale, 2020-2022, Mentor.
- Proiect UEFISCDI PN-III-P2-2.1-PTE-2016-0114 , contract nr. 42PTE/2016 cu tema „Monitor pentru reactivitatea neurofiziologica (NERMO)”, 2016-2018, *Responsabil proiect (242770 lei; patent pending)*
- Proiect UEFISCDI de tip TE PN-II-RU-TE-2014-4-1354, contract nr. 326/2015 cu tema „Controlul cerebelului asupra sincroniei activității cortexului cerebral în condiții normale și patologice”, *membru in echipa de cercetare (549.718 lei/24 luni; Georgescu et al, 2018)*
- Proiect UEFISCDI Parteneriate PN-II-PT-PCCA-2011-3.1-0222, contract nr. 80/2012 cu tema „Terapie celulara regenerativa pentru stroke”, *Responsabil de proiect; (400.000 lei; Balseanu, 2014; Zagrea, 2014)*
- Proiect UEFISCDI Parteneriate PN-II-PT-PCCA-2011-3.2-1290, contract nr. 129/2012 cu tema „Aparat pentru monitorizarea reactivității EEG la stimuli externi in timpul comei”, *Membru (286782 lei; Patent)*
- Proiect UEFISCDI IDEI PN-II-ID-PCE-2011-3-0847, contract nr. 110/2011, cu tema "Cuantificarea reactivității EEG de tip "burst-suppression" la stimuli externi: un nou instrument pentru monitorizarea creierului comatos", *Membru. (793403 lei/36 luni; Pavel, 2014; Patent)*
- Grant CNCSIS A1200/2006 cu tema "Studiul mecanismelor fiziologice si comportamentale implicate in tulburarile de dispozitie. Actiunea nonapeptidelor". *Director proiect. (Braga, 2013)*
- Proiectul CEEX nr. 31/2005, cu tema "Mecanismele moleculare, celulare si integrative ale durerii. Implicatii clinice", 2005- 2008, *Membru.*
- Contract Viasan nr. 453/2004 cu tema „Hiperexcitabilitatea corticală post-ischemică: studiu in vivo, pe șobolan”. *Director proiect.*
- Contract Viasan 454/2004, cu tema „Studiul circuitelor serotoninergice cu origine in nucleul rafeului asupra comportamentului și somnului. Interacțiuni neurofarmacologice cu nicotina”. *Director proiect.*
- Proiect Viasan nr. 158/2001, cu tema „Mecanisme moleculare și celulare ale condiționării ischemice cerebrale”, 2001-2003, *Director proiect.*
- Proiect CNCSIS nr. 256, Apoptosis in Geriatric Disorders (Romanian Government and the World Bank), 2001-2002, membru
- Project nr. 1285/1996, Act adițional nr. 450/2000, HORIZON 2000 Program, 1999-2000, membru pentru proiectele:
 A10/1999, B10/2000, Computerized EEG analysis in kainic acid-induced experimental epilepsy
 A11/1999, B11/2000, Preconditioning mechanisms in global cerebral ischemia and reperfusion
 A8/1999, B8/2000, Cellular mechanisms induced by cerebral ischemia and reperfusion. Apoptosis, necrosis and neuronal survival.
- Proiect nr. 85/1994, Neuroprotective effect of calcium blockers in cerebral ischemia, 1994-1996, membru.

Patent:

1. Patent Number(s): RO132025-A0; Derwent Primary Accession Number: 2017-53027H
 Technology for neurophysiological diagnostic of coma severity by quantizing default electroencephalographic (EEG) reactivity.
 Inventor(s): Barborica A, Ciurea J, Mindruta I, Moldovan M, Roceanu A M, Serban C, Zagrea A, Zagrea L. Assignee: TERMOBIT PROD SRL (prin proiectele PN-II-ID-PCE-2011-3-0847, PN-II-PT-PCCA-2011-3.2-1290, PN-III-P2-2.1-PTE-2016-0114)
2. Electroencephalographic method and apparatus for measuring sensory stimulation salience
 European Patent Office, Patent no. 1115/3646784, 2020, Inventor(s): Moldovan M, Serban C, Barborica A, Roceanu AM, Mindruta I, Zagrea A, Zagrea L, Ciurea J
 Applicant: Termobit Prod SRL.

Participări la proiecte internaționale

- Coordonator pentru Romania si membru in comitetul de management in proiectul COST Action: CA18240 - ADHesion GPCR Network: Research and Implementation Set the path for future

Exploration, 2019-2023

- Membru în Comitetul de avizare științifică, pentru proiectele: 1) Neuron Cofound, Contract no. 680966/2015 (2016-2020), 2) ERA-Net NEURON II, Contract no. 291840/2012 (2012-2015), 3) ERA-Net NEURON FP6 Project, Contract no. 036213/2007 (2007-2011).
- FENS grant pentru FENS History Project "Historiography of Neurosciences in Eastern Europe, Romania, 1870-1970" (2012-2013)

Afilieri

- 2006, membru al European Dana Alliance for the Brain (EDAB)
- 2005, membru al Centrului de Excelență în Neuroștiințe, Universitatea de Medicină și Farmacie „Carol Davila”, București
- 2003-2004, membru cu drept de vot în Consiliul Director al Organizației Internaționale de Cercetare a Creierului (IBRO Government Council);
- 2003, membru afiliat al Physiological Society (UK).
- 2001, membru fondator și secretar general al Societății Naționale de Neuroștiințe (SNN);
- 2001, membru al Organizației Internaționale de Cercetare a Creierului (IBRO);
- 2001, membru al Federației Europene a Societăților de Neuroștiințe (FENS);
- 2001-2007, membru al Federației Americane a Societăților de Biologie Experimentală
- 2001-2007, membru al Societății Americane de Fiziologie (APS);
- 1996, membru al Societății Române de Fiziologie (SRF); secretar științific (din Oct. 2020)
- 1996, membru al Federației Europene a Societăților de Fiziologie (FEPS);
- 1996, membru al Uniunii Internaționale a Științelor Fiziologice (IUPS);

Premii Premii naționale:

1. PN-III-P1-1.1-PRECISI-2019-31170 – award for publishing in Frontiers in Neuroscience in 2018 (yellow area/Q2 – between 25-50% in Neuroscience)
2. PN-III-P1-1.1-PRECISI-2018-28708 - award for publishing in Neonatology in 2018 (red area/Q1 - first 25% in Pediatrics)
3. PN-III-P1-1.1-PRECISI-2018-28744 award for publishing in Frontiers in Cellular Neuroscience in 2018 (red area/Q1 - first 25% in Neuroscience)
4. PN-III-P1-1.1-PRECISI-2018-28779 award for publishing in Frontiers in Cellular Neuroscience in 2018 (red area/Q1 - first 25% in Neuroscience)
5. PN-II-RU-PRECISI-2015-9-10337 award for publishing in Frontiers in Aging Neuroscience in 2015 (red area/Q1 - first 25% in Neuroscience)
6. PN-II-RU-PRECISI-2015-9-10334 - award for publishing in Brain Research in 2015 (yellow area, Q2 - between 25-50% in Neuroscience)
7. Premiul II pentru prezentarea orală "Motor-somatosensory and motor-parietal cortices coherence alterations in an animal model of dystonia", oral blitz presentation, Ioana Antoaneta Georgescu, Elena Laura Georgescu, Alexandru Răzvan Șteopoaie, Alexandru Țirlea, Adrian Pana, Monica Nichita, Denise CM Zahiu, Ana-Maria Zăgrea, Daniela Popa. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October 2018.
8. Premiul pentru prezentarea orală: Chloride transportation modulation impacts on neuronal viability in mature hippocampal cultures exposed to oxygen-glucose deprivation and reoxygenation, Chitimus, D.M., Grigoras, I.F., Ilesanu, M.I., Ionescu, R.B., Haret, R.M., Mihai, T., Ianos, B., Ceanga, M., Zagrea, L., Zagrea, A.M., 30th National Conference of Physiology – Integrative Physiology, from Fundamental Mechanisms to Biomedical Applications, 27-29 September 2018, Cluj-Napoca, Romania
9. Premiul I pentru prezentarea orală: "Modulating intracellular chloride concentration impacts on the viability of rat primary hippocampal cell cultures exposed to oxygen-glucose deprivation, oral presentation", Ilesanu, I.M., Grigoras, I.F., Chitimus, D.M., Haret, R., Ionescu, B., Ianos, B., Ceanga, M., Zagrea, L., Zagrea, A.M., The 29th National Conference of the Romanian Society of Physiological Sciences with international attendance, May 25-27, 2017, Timisoara, Romania
10. Diploma de Excelență pentru prezentarea orală "Intracellular chloride concentration affects the cellular viability of rat primary hippocampal cell culture exposed to oxygen-glucose deprivation". Mara Ioana Ilesanu, Ioana-Florentina Grigoras, Robert Haret, Diana Maria Chitimus, Bristena Ionescu, Bogdan Ianos, Mihai Ceanga, Ana-Maria Zagrea. Carol Davila University and Pharmacy National Congress, May 29-31, 2017, Bucharest, Romania,
11. Premiul I pentru prezentarea orală "The neuroprotective effect of trans-resveratrol enriched maternal diet in immature hippocampus exposed to perinatal asphyxia", Ilesanu, M.I., Isac, S., Panaitescu, A.M., Spataru, A., Totan, A., Udriste, A., Cucu, N., Peltecu, G., Zagrea, L., Zagrea, A.M. at the 8th Conference of the National Neuroscience Society of Romania, 19-21 October, 2017, Craiova, Romania.
12. Premiu pentru prezentarea orală "Circadian rhythm and melatonin involvement in fetal development", Diana Chitimus, Suzana Voiculescu, Ana-Maria Zagrea. Conference of the National Neuroscience Society of Romania SNN2017, 19-21 October 2017, Craiova, Romania,
13. Premiul II pentru prezentarea orală "Burst-suppression EEG reactivity as a tool for assessment of antiepileptic drugs treatment in a rat model of epilepsy", Paslaru AC, Stancu M, Pavel B, Zahiu

- CDM, Fazeli N, Zagrean AM, Zagrean L and Moldovan M, Seminar of the European College of Neuropsychopharmacology (ECNP) 2017, Tâncăbești, România, 3-5 November 2017
14. Premiul I, "Young Investigator" Competition, "Carol Davila" University of Medicine and Pharmacy Congress, 2016, Bucharest, Romania for the oral presentation: Oxytocin effects on mature hippocampal cultures during oxygen-glucose deprivation and reoxygenation, Chitimus, D.M., Grigoras, I.F., Ilesanu, M.I., Ianosi, B., Zagrean, L., Zagrean, A.M.
 15. Premiul I pentru prezentarea "Prolonged attenuation of circadian sleep rhythms after a brief global cerebral ischemia in rat", Paslaru A, Stancu M, Zahiu D, Stoian A, Pavel B, Catalin A, Zagrean AM, Zagrean L and Moldovan M., 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015.
 16. Premiul al 2-lea pentru prezentarea "An experimental model to evaluate the whole-brain neurovascular coupling during spontaneous cerebral activity". Zahiu D, Calin A, Acatrinei C, Paslaru AC, Voinescu M, Stancu M, Stoian A, Mirica S, Gonzales A, Zagrean AM, Zagrean L and Moldovan M. 4th Conference of the National Neuroscience Society of Romania, 17-19 October 2013, Bucharest, Romania.
 17. Premiul *Gheorghe Marinescu* al Societatii Nationale de Neurostiinte pentru contributiile deosebite la dezvoltarea Neurostiintelor in Romania, Octombrie 2012.
 18. Premiul al 3-lea pentru prezentarea "Electrophysiologic recordings in dorsal raphe nuclei – pilot study. Perspectives in stress assessment". Denise Andrei Zahiu, Radu Braga, Ana-Maria Zagrean, Leon Zagrean. Al 2-lea Simpozion SNN, Iasi, 13-14 May 2005
 19. Premiul Editurii Universitare "Carol Davila" București, 2003, in Domeniul Științe Biomedicale, pentru cartea "Neuroștiințe. Principii Fundamentale", Leon Zăgrea, Mihai Moldovan, Ana-Maria Zagrean, Dragos A. Nita, Daniela Popa, Radu Braga. Editura Universitară "Carol Davila" București, Cod ISBN 973-8047-67-6.
 20. Premiul Colegiului Medicilor din România pentru cea mai bună carte publicată în domeniul specialităților preclinice în anul 2002 pentru "Neuroștiințe. Principii Fundamentale", Leon Zăgrea, Mihai Moldovan, Ana-Maria Zagrean, Dragos A. Nita, Daniela Popa, Radu Braga. Editura Universitară "Carol Davila" București, Cod ISBN 973-8047-67-6 (AM Zagrean, autor unic pentru capitolele 7 și 8).
 21. Premiul al 2-lea "2000 Grand Prix Beaufour Ipsen Romania" pentru cel mai original studiu de neurologie (Ischemic electrocortical suppression - an active mechanism? Moldovan M, Munteanu AM, Nita DA, Popa DP, Spulber S, Zagrean L.)

Premii internaționale

1. Physiological Society Travel grant to attend Physiology2016, July 2016, Dublin, Ireland
2. Junior Fellowship Award DDDR/RCRQ11189, The Physiological Society (UK), 2005
3. Young Investigators Award, 34th International Congress of Physiological Sciences, Christchurch, New Zealand, Aug. 26-31, 2001

Servicii aduse comunității pentru promovarea educației:

Organizator a numeroase activități educaționale și sociale pentru promovarea Neuroștiințelor: Săptămâna Creierului / Brain Awareness Week (BAW), Ziua Porților Deschise – Laborator Neuroștiințe, Noaptea Cercetătorului, cursuri și conferințe de Neuroștiințe, activitate de predare pro bono și colaborări cu școli gimnaziale din București

Criterii de recunoaștere a activității științifice și de cercetare

h-index = 10 (WoS Core Collection), 12 (Scopus) and 14 (Google Scholar)
Citations: 489 (WoS Core Collection), 1014 (Google Scholar).

Scopus Author ID: 6506068971

<https://scholar.google.com/citations?hl=en&user=WtNZInMAAAAJ>

<http://www.researcherid.com/rid/M-5628-2015>

<http://orcid.org/0000-0002-4302-629X>

<https://www.brainmap.ro/public-profile-82827984>

Lista de lucrări

CĂRȚI ȘI CAPITOLE DE CĂRȚI:

Internaționale:

1. **Ana-Maria Zagrean**, Diana Maria Chitimus, Corin Badiu, Anca Maria Panaitescu, Gheorghe Peltecu, Leon Zagrean. Chapter 2 - The Pineal Gland and its Function in Pregnancy and Lactation. Editor(s): Christopher S. Kovacs, Cheri L. Deal. *Maternal-Fetal and Neonatal Endocrinology. Physiology, Pathophysiology, and Clinical Management. Academic Press, Elsevier Science. 2020*, Pages 15-37, ISBN 9780128148235, <https://doi.org/10.1016/B978-0-12-814823-5.00002-7>.

2. **Ana-Maria Zagrea**, Diana Maria Chitimus, Francesca Gabriela Paslaru, Suzana Voiculescu, Corin Badiu, Gheorghe Peltecu, Anca Maria Panaitescu. Chapter 17 - Pineal gland disorders and circadian rhythm alterations in pregnancy and lactation. *Maternal-Fetal and Neonatal Endocrinology. Physiology, Pathophysiology, and Clinical Management*. Editor(s): Christopher Kovacs, Cheri Deal, *Academic Press, Elsevier Science*. **2020**. ISBN 9780128148235, <https://doi.org/10.1016/B978-0-12-814823-5.00002-7>.
3. Suzana Voiculescu, Diana Le Duc, Adrian Rosca, **Ana-Maria Zagrea**. Chapter 31 - The pineal gland development and its physiology in fetus and neonate. *Maternal-Fetal and Neonatal Endocrinology. Physiology, Pathophysiology, and Clinical Management*. Editor(s): Christopher Kovacs, Cheri Deal, *Academic Press, Elsevier Science*, 2020, ISBN 9780128148235, <https://doi.org/10.1016/B978-0-12-814823-5.00002-7>.
4. Blood-Brain Barrier and Cognitive Function. **Ana-Maria Zagrea**, Bogdan Ianosi, Cosmin Sonea, Ioan Opris, and Leon Zagrea. Book chapter in "The Physics of the Mind and Brain Disorders. Integrated Neural Circuits Supporting the Emergence of Mind". Eds I. Opris, M.F. Casanova. Part of the *Springer Series in Cognitive and Neural Systems book series* (SSCNS, volume 11). *Springer International Publishing Switzerland*. **2017**. p 713-740. ISBN. 2363-9105
5. EEG Assessment of Consciousness Rebooting from Coma. Cosmin-Andrei Serban, Andrei Barborica, Adina-Maria Roceanu, Ioana-Raluca Mîndruta, Jean Ciurea, **Ana-Maria Zagrea**, Leon Zagrea, and Mihai Moldovan. Book chapter in "The Physics of the Mind and Brain Disorders. Integrated Neural Circuits Supporting the Emergence of Mind". Eds. I. Opris, M.F. Casanova. Part of the *Springer Series in Cognitive and Neural Systems book series* (SSCNS, volume 11). *Springer International Publishing Switzerland*. **2017**. p 361-381. ISBN. 2363-9105
6. Pathophysiology of the middle cerebral artery. A. Popa-Wagner, D. Pirici, **A.M. Zagrea**, E. Petcu, L. Mogoanta, L. Zagrea, C.L. Rosen, R. Leon, J. Huber. pp. 1-45. Book chapter in "Cerebral circulation: anatomy, distribution and physiopathology", "Advances in medicine and biology". Vol 8. Eds: Leon V. Berhardt. *NOVA Publishers*, **2011**. ISBN 978-1-61728-454-0. ISBN. 2363-9105

Naționale:

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