

INFORMAȚII PERSONALE



POZIȚIA ACTUALĂ

Zăgorean Ana-Maria

Conferențiar universitar, Facultatea de Medicină, Universitatea de Medicină și Farmacie "Carol Davila", București

EXPERIENȚA PROFESIONALĂ

- 2013-prezent

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, Universitatea de Medicină și Farmacie "Carol Davila", București

- 2003, Doctor în Științe Medicale ("Precondiționarea ischemică cerebrală", 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

- oct. 2006-dec.2008

Honorary Research Fellow, Medical School, Birmingham University, UK

- 2001-prezent

Secretar general, Societatea Națională de Neuroștiințe (SNN)

- februarie 2013

Stagiu de cercetare, Ischemia Research Unit, Department of Cell Therapy, Fraunhofer

- oct. 2000– martie 2001 Institute for Cell Therapy and Immunology, Leipzig, Germany
Bursă doctorală de cercetare la Karolinska Institute, Dept. of Clinical Neuroscience, Occupational Therapy & Elderly Care Research, Div. of Geriatric Medicine, NEUROTEC, Novum, Sweden
- 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,
- 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. 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 (22 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), anual, 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 2017

- 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

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

Permis de conducere

B

INFORMATII SUPLIMENTARE

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

-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 în 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 în 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 și comportamentale implicate în tulburările de dispoziție. Acțiunea nonapeptidelor”. *Director proiect. (Braga, 2013)*

-Proiectul CEEEX nr. 31/2005, cu tema “Mecanismele moleculare, celulare și integrative ale durerii. Implicații 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 în 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:

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)

Participări la proiecte internaționale- Coordonator pentru România și membru în comitetul de management în 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 Științe Fiziologice (SRSF);

- 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 Zăgorean, 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., Zagrean, L., Zagrean, 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., Zagrean, L., Zagrean, 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 Zagrean. 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., Zagrean, L., Zagrean, 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 Zagrean. 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., Ianos, 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 Zăgorean, 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 Zăgorean, 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).

Premii internaționale

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, Zagrea L.)

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 = 8 (WoS Core Collection), 10 (Scopus) and 11 (Google Scholar)
Citations: 343 (WoS Core Collection), 677 (Google Scholar).

Scopus Author ID: 6506068971

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

<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 Zagrea**, Diana Maria Chitimus, Corin Badiu, Anca Maria Panaitescu, Gheorghe Peltecu, Leon Zagrea. 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 Ianos, 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:

1. Nervous System Physiology. A Practical Approach. **A-M. Zăgrea**, D.C.M. Zăhău, M. Ghiță, A. Vlad, S. Voiculescu, C. Goanță, B. Pavel, Editura Universitară "Carol Davila" București, 2020. ISBN: 978-606-011-129-0. Coordonator și prim autor.

2. Cardiovascular System Physiology. A Practical Approach. **A-M. Zăgrea**, Mihaela Popescu, Bogdan Pavel, Radu Braga, Editura Universitară "Carol Davila" București, 2020. ISBN: 978-606-011-122-1. Coordonator și prim autor.
3. Fiziologia micțiunii. **Ana-Maria Zăgrea**, Anca Maria Panaitescu, Denise Carmen Mihaela Zahiu, Leon Zăgrea, Capitolul 4 în "Incontinența urinară de efort", coordonată de Ghe. Peltecu, G. Iancu, AM Panaitescu, N. Gică, Editura Academiei Române, **2018**. ISBN – 978-973-27-2970-0
4. Fiziologie Lucrări Practice: Fiziologia sângelui. Fiziologia respirației. Fiziologia renală, Echilibrul acido-bazic. Editura Universitară "Carol Davila" București, **2012**. ISBN – 9789737086211, **Ana-Maria Zăgrea**, coautor: Capitol Fiziologia Respirației.
5. Fiziologia Respirației. Lucrări Practice. **Zăgrea A-M.**, Bubuianu A., Braga R. Editura Universitară "Carol Davila" București, **2007**. ISBN: 978-973-708-190-2. Prim autor.
6. Neuroștiințe. Principii Fundamentale, Leon Zăgrea et al., Editura Universitară "Carol Davila" București, **2002**, Cod ISBN 973-8047-67-6. **Ana-Maria Zăgrea**, autor unic al capitolului 7 – "Circulația Cerebrală" și al capitolului 8 – "Metabolismul Energetic Cerebral", pag. 209 – 284.
7. Elemente de Neurobiologie, Leon Zăgrea et al., **1996**, Editura Universitară "Carol Davila" București, ISBN 973-97350-3-7. Ana-Maria Zăgrea, co-autor al capitolului "Circulația cerebrală", pag. 233-283.

TEZĂ DE DOCTORAT:

Precondiționarea ischemică cerebrală. Universitatea de Medicină și Farmacie "Carol Davila", 2003.

ARTICOLE:

Articole publicate în reviste ISI cu factor de impact, ca autor principal (prim autor, ultimul autor/autor coordinator, autor corespondent):

1. **Ana-Maria Zăgrea**, Ioana Florentina Grigoras, Mara Ilesanu, Bristena-Rosana Ionescu, Diana Chitimus, Robert Haret, Bogdan Ianos, Mihai Ceanga, Leon Zăgrea. Neuronal Transmembrane Chloride Transport Has a Time-Dependent Influence on Survival of Hippocampal Cultures to Oxygen-Glucose Deprivation. *Brain Sciences*. **2019**, 9, 360 (IF=2.78)
2. Bogdan Pavel, Fabien Menardy, Diana Rotaru, Alexandru Catalin Paslaru, Camelia Acatrinei, Popa, Zăgrea, Leon Zăgrea, Daniela Popa, **Ana-Maria Zăgrea**. Electrical Stimulation in the Claustrum Area Induces a Deepening of Isoflurane Anesthesia in Rat. *Brain Sciences*. **2019**; 9 (11):304 (IF=2.78)
3. A.E. Rosca, Camelia Sorina Stancu, Corin Badiu, Bogdan Ovidiu Popescu, Radu Mirica, Constantin Căruntu, Serban Gologan, Suzana Elena Voiculescu, **Ana-Maria Zăgrea**. Lipid Profile Changes Induced by Chronic Administration of Anabolic Androgenic Steroids and Taurine in Rats. *Medicina*. **2019**; 55 (9):540 (IF=1.4)
4. A.M. Panaitescu, D. Rotaru, I. Ban, Ghe. Peltecu, **AM. Zăgrea**. The prevalence of underweight, overweight and obesity in a Romanian population in the first trimester of pregnancy – clinical implications. *Acta Endo (Buc)* **2019**, 15(3): 323-332. doi: 10.4183/aeb.2019.323 (IF=0.449)
5. Spataru A, Le Duc D, Zăgrea L, **Zăgrea AM**. Ethanol exposed maturing rat cerebellar granule cells show impaired energy metabolism and increased cell death after oxygen-glucose deprivation. *Neural Regen Res* **2019**, 14(3):485-490. IF=2.23
6. Kobylinska L, Panaitescu AM, Gabreanu GR, Mihailescu I, Anghel C, Rad F, Nedelcu CM, Mocanu I, Constantin C, Geicu I, Badescu S, Dobrescu I, Neagu M, Zăgrea L, **Zăgrea AM**. Plasmatic levels of neuropeptides, including oxytocin, in children with autism spectrum disorder and their correlation with the disorder severity. *Acta Endo (Buc)* **2019**, **16**, IF=0.449
7. **Ana-Maria Zăgrea**, Dirk M. Hermann, Ioan Opris, Leon Zăgrea and Aurel Popa-Wagner. Multicellular crosstalk between exosomes and the neurovascular unit after cerebral ischemia. Therapeutic implications. *Front. Neurosci.* **2018**, doi: 10.3389/fnins.2018.00811, IF = **3.87** (Premiere UEFISCDI - Q2)
8. Elena Laura Georgescu, Ioana Antoaneta Georgescu, Denise Zahiu, Alexandru Razvan Steopoaie, Vlad Petru Morozan, Adrian Stefan Pana, **Ana-Maria Zăgrea***, Daniela Popa*. Oscillatory cortical activity in an animal model of dystonia caused by cerebellar dysfunction. *Front. Cell. Neurosci.*, **2018**, DOI: 10.3389/fncel.2018.00390, IF = **4.3**. Articol premiat UEFISCDI pentru publicarea în reviste aflate în zona roșie (Q1).
9. S Isac, AM Panaitescu, M Ilesanu, IF Grigoras, A Totan, A Udriste, N Cucu, G Peltecu, L Zăgrea, **AM Zăgrea**. Maternal High-Fat Diet Modifies the Immature Hippocampus Vulnerability to Perinatal Asphyxia in Rats. *Neonatology*, August **2018**, 114 (4), 355-361. IF = **2.68**. Articol premiat UEFISCDI pentru publicarea în reviste aflate în zona roșie (Q1).
10. Panaitescu AM, Isac S, Pavel B, Ilie AS, Creanga M, Totan A, Zăgrea L, Peltecu G, **Zăgrea AM**, Oxytocin Reduces Seizure Burden and Hippocampal Injury in a Rat Model of Perinatal Asphyxia, *Acta Endo (Buc)* **2018** 14(3): 315-319 doi: 10.4183/aeb.2018.315. IF = **0.449**
11. Sebastian Isac, Anca Maria Panaitescu, Ana Spataru, Mara Ilesanu, Alexandra Totan, Amalia Udriste, Natalia Cucu, Gheorghe Peltecu, Leon Zăgrea, **Ana-Maria Zăgrea**. Trans-resveratrol enriched maternal diet protects the immature hippocampus from perinatal asphyxia in rats. *Neuroscience Letters*, June **2017**, 653, 308-313, doi: 10.1016/j.neulet.2017.06.003. IF=2.18
12. Voiculescu SE, Le Duc D, Roșca AE, Zeca V, Chițimbuș DM, Arsene AL, Drăgoi CM, Nicolae AC, Zăgrea L, Schöneberg T, **Zăgrea AM**. Behavioral and molecular effects of prenatal continuous light exposure in the adult rat. *Brain Res*. **2016** Nov 1; 1650:51-59. doi: 10.1016/j.brainres.2016.08.031, IF = **3.01**

13. Badescu SV, Tataru CP, Kobylinska L, Zahiu CD, Georgescu EL, Zagrea L, **Zagrea AM**. Chronic Caffeine's Effects on Behavioural Changes in Streptozotocin induced Diabetic Rats. *Acta Endo (Buc)* **2016**, 12 (3): 268-274 doi: 10.4183/aeb.2016.268, **IF = 0.25**
14. Le Duc D, Spataru A, Ceanga M, Zagrea L, Schöneberg T, Toescu EC, **Zagrea AM**. Developmental exposure to ethanol increases the neuronal vulnerability to oxygen-glucose deprivation in cerebellar granule cell cultures. *Brain Res.* **2015** Jul 21; 1614:1-13. doi: 10.1016/j.brainres.2015.04.009, **IF = 3.01**. Articol premiat UEFISCDI pentru publicarea în reviste aflate în zona galbenă (Q2).
15. **Zagrea Ana-Maria**, Spataru Ana, Ceanga Mihai, Zagrea Leon, The single vs. combinatorial effects of MK-801, CNQX, nifedipine and DL-AP-3 on primary cultures of cerebellar granule cells in an oxygen-glucose deprivation model, *Rom J Morphol Embriol*, **2014**, vol. 55, no. 1, **IF=0.659**
16. Radu I. Braga, Anca Panaitescu, Silvia Bădescu, Leon Zăgrea, **Ana-Maria Zagrea**. Intranasal administration of oxytocin alters sleep architecture, *Biological Rhythm Research*, **2013**; 45:1, 69-75, DOI: 10.1080/09291016.2013.797641. **IF=0.919**
17. Ceanga M, Spataru A, **Zagrea AM**. Oxytocin is neuroprotective against oxygen-glucose deprivation and reoxygenation in immature hippocampal cultures. *Neurosci Lett.* **2010** Jun 14;477(1):15-8. doi: 10.1016/j.neulet.2010.04.024, **IF = 2.055**.
18. Mihaela Roxana Popescu, Anca Maria Panaitescu, Bogdan Pavel, Leon Zagrea, Gheorghe Peltecu and **Ana-Maria Zagrea**. Getting an early start in understanding perinatal asphyxia impact on the cardiovascular system. *Front. Pediatr. – Neonatology* **2020** (**IF=2.349**) (revizie minora submisa si acceptata – neconsiderat la punctaj)

Articole publicate in reviste ISI cu factor de impact, ca autor secundar:

1. Chemicogenetic recruitment of specific interneurons suppresses seizure activity. A Calin, M Stancu, **AM Zagrea**, J Jefferys, AS Ilie, C Akerman. *Front. Cell. Neurosci.*, September **2018**, <https://doi.org/10.3389/fncel.2018.00293>, **IF = 4.3**.
2. Balseanu AT, Buga AM, Catalin B, Wagner DC, Boltze J, **Zagrea AM**, Reymann K, Schaebitz W, Popa-Wagner A. Multimodal Approaches for Regenerative Stroke Therapies: Combination of Granulocyte Colony-Stimulating Factor with Bone Marrow Mesenchymal Stem Cells is Not Superior to G-CSF Alone. *Front Aging Neurosci.* **2014** Jun 23; 6:130. doi: 10.3389/fnagi.2014.00130, **IF = 4**.
3. Zamfir AD, Flangea C, Serb A, **Zagrea AM**, Rizzi AM, Sisu E. Separation and identification of glycoforms by capillary electrophoresis with electrospray ionization mass spectrometric detection. *Methods Mol Biol. (Methods and Protocols)*, **2013**; 951:145-69. doi: 10.1007/978-1-62703-146-2_11, **IF=1**
4. Constantinescu AO, Ilie A, Ciocan D, **Zagrea AM**, Zagrea L, Moldovan M. Endogenous adenosine A1 receptor activation underlies the transient post-ischemic rhythmic delta EEG activity. *Clin Neurophysiol.* **2011** Jun;122(6):1117-26. doi: 10.1016/j.clinph.2010.09.015. Epub 2010 Oct 13, **IF=3.4**
5. Ilie A, Ciocan D, Constantinescu A.O, **Zagrea AM**, Nita DA, Zagrea L, Moldovan M. Endogenous activation of adenosine A1 receptors promotes post-ischemic burst suppression electrocortical patterns. *Neuroscience*, Jan. **2009**;159(3):1070-1078, **IF = 3.29**.
6. Ilie A, Ciocan D, **Zagrea AM**, Nita DA, Zagrea L, Moldovan M. Endogenous activation of adenosine A(1) receptors accelerates ischemic suppression of spontaneous electrocortical activity. *J Neurophysiol.* **2006** Nov; 96(5):2809-14. Epub 2006 Aug 2, **IF=3.64**.
7. Ilie A, Spulber S, Avramescu S, Nita DA, **Zagrea AM**, Zagrea L, Moldovan M. Delayed ischemic electrocortical suppression during rapid repeated cerebral ischemia and kainate-induced seizures in rat. *Eur J Neurosci.* **2006** Apr; 3(8):2135-44, **IF = 4**
8. Moldovan M, **Zagrea AM**, Avramescu S, Savaran V, Zagrea L. Electro-cortical signs of early neuronal damage following transient global cerebral ischemia in rat. *J Cell Mol Med.* **2004** Jan-Mar;8(1):135-40, **IF=1,10**
9. Nita, DAI, Nita V, Spulber St, Moldovan M, Popa DP., **Zăgrea A-M**, Zăgrea L. Oxidative damage following cerebral ischemia depends on reperfusion – a biochemical study in rat. *J.Cell.Mol.Med.* **2001**; 5:163-170, **IF = 0.45**.

Articole publicate in reviste BDI:

1. B. Pavel, L. Vatasoiu, A. Stanculea, A. Milos, A. Pastrav, A.E. Rosca, **AM. Zagrea**, A. Otoi, M. Covrig, I. Boiangiu. High levels of procalcitonin in non-septic patients with thermal and airway burns. *Romanian Journal of Military Medicine*, **2019**, 122(3), 22-28.
2. Bogdan Pavel, Camelia Alexandra Acatrinei, Maria Corbu, Carmen Mihaela Denise Zahiu, Adrian Eugen Rosca, Leon Zagrea, **Ana-Maria Zagrea**. ECoG changes during xenon-isoflurane anaesthesia ECoG spectrum changes at different xenon-isoflurane anaesthesia depths. *Romanian Journal of Anaesthesia and Intensive Care.* **2017** Vol 24 No 1, 41-46. doi: 10.21454/rjaic.7518.241.pav
3. Voiculescu SE, Rosca A, Zahiu CMD, Badiu C, **Zagrea AM**. Melatonin and monoaminergic system – behavioural aspects. *Romanian Journal of Neurology – Vol XV, No. 1*, **2016**

4. Bădescu SV, Tătaru CP, Kobylinska L, Georgescu EL, Zahiu DM, **Zăgorean AM**, Zăgorean L. Effects of caffeine on locomotor activity in streptozotocin-induced diabetic rats. *J Med Life*. **2016** Jul-Sep;9(3):275-279.
5. Bădescu SV, Tătaru C, Kobylinska L, Georgescu EL, Zahiu DM, **Zăgorean AM**, Zăgorean L. The association between Diabetes mellitus and Depression. *J Med Life*. **2016** Apr-Jun;9(2):120-5. Review.
6. Kobylinska, Liana; Geagulea, Gabriel; **Zăgorean, Ana-Maria**; Zagrean, Leon. Behavioural effects of chronic inhalator oxytocin administration in mice. *Romanian Journal of Child & Adolescent Psychiatry*. Jan-Jul **2016**, Vol. 4 Issue 1/2, p41-55.
7. Kobylinska L, Geagulea G, Berbecar V, Stancu M, Stefan AM, **Zăgorean AM**, Zagrean L. Inhalation versus intraperitoneal oxytocin administration in Swiss-Albino Mice. *Discover. Rep*. **2016**; 2: e5. DOI: 10.15190/drep.2016.1
8. Voiculescu SE, Rosca AE, Zeca V, Zagrean L, **Zăgorean AM**. Impact of maternal melatonin suppression on forced swim and tail suspension behavioral despair tests in adult offspring. *J Med Life*. **2015** Apr-Jun;8(2):202-6.
9. Adrian Roșca, Suzana Elena Voiculescu, Bogdan Ovidiu Popescu, **Ana-Maria Zăgorean**. Taurine and vascular tone modulation. *J. Transl. Med. Res* **2015**; 20(4):201-205
10. Bogdan Pavel, Camelia Alexandra Acatrinei, Fabien Menardy, Carmen Mihaela Denise Zahiu, Daniela Popa, **Ana-Maria Zagrean**, Leon Zagrean. Changes of cortical connectivity during deep anaesthesia. *Romanian Journal of Anaesthesia and Intensive Care* **2015** Vol 22 No 2, 83-88
11. Anca Maria Panaitescu, Suzana Elena Voiculescu, Nikolaos Zygouropoulos, Gheorghe Peltecu, Leon Zagrean, **Ana-Maria Zagrean**. Short and long-term evaluation of biochemical and behavioral consequences in rat after exposure to an experimental model of perinatal asphyxia. *Obstetrica si Ginecologie* 2, **2015**.
12. Panitescu, A.-M, Pavel, B, Iancu, G, Peltecu G, Zăgorean L, **Zăgorean A-M**. Oxytocin, more than a uterotonic. *Obstetrica si Ginecologie* 62 (1), pp.1, **2014**
13. Panaitescu A, Zagrean L, **Zăgorean AM**, Demetrian M, Peltecu G. Neonatal encephalopathy: A new paradigm. *Obstetrica si Ginecologie* 62(2):77-82, June **2014**
14. Voiculescu SE, Zygouropoulos N, Zahiu CD, **Zăgorean AM**. Role of melatonin in embryo fetal development. *J Med Life*. **2014** Oct-Dec;7(4):488-92. Review.
15. Pavel B, Daneasa A, Rosca AE, Calin A, Zahiu D, Panaitescu A, **Zăgorean AM**, Zagrean L. Fronto-parietal connectivity changes following noxious stimulation during anesthesia. *J Med Life*. **2014** Sep 15;7(3):387-90.
16. Moldovan M, Spulber S, Saravan V, Iosifescu R, **Zăgorean A-M**, Zagrean L, Relationship between respiratory sinus arrhythmia and heart rate during anesthesia in rat, *Rom. J. Physiol.* **2004**, vol. 41: 21-30.
17. Nat R, Stanciu C, Vidulescu C, **Munteanu A-M**, Regalia T, Popescu LM, Still life: cerebellar neurons in early apoptosis. *J. Cell. Mol. Med.*, **2000** Jul-Sept, 4(3):228
18. Zagrean L, Moldovan M, **Munteanu A-M**, Spulber St, Voiculescu BA, and Popescu BO. Early electrocortical changes consistent with ischemic preconditioning in rat. *J. Med..Biochem.* **2000**; 4:103-111
19. Moldovan, M., **Munteanu, A-M**, Nita, DAI, Popa DP, Spulber St, Zagrean L. Ischemic electrocortical suppression - an active mechanism? *J. Med. Biochem.* 4(3):215-223, **2000**
20. Cristea A, Moldovan M, **Munteanu A-M**, Popa DP, Negres S, Zagrean L. EEG differences between the opioid and adrenergic psychoneuroendocrine rat types, *Rom. J. Physiol.* 35:153-159, **1998**
21. Moldovan, M., **Munteanu, A-M**., Nita, D.AI., Popa, D.P., and L. Zagrean. The quantification of intrahemispheric EEG asymmetry in rat. *Rom. J. Physiol.* 35:33-39, **1998**
22. Zagrean L, Vatasescu R, **Munteanu A-M**, Moldovan M, Nita DAI, Coculescu M. Preliminary EEG study of protective effects of Tebonin in transient global cerebral ischemia in rats, *Rom. J. Physiol.*, **1998**, 35, 1-2, p. 161-168.
23. Serbanescu AI., **Munteanu A-M**., Vatasescu R., and Zagrean L. A computerized EEG analysis of the effects of nimodipine in global cerebral ischemia and reperfusion. *Rom. J. Neurol.*, 36: 27-34, **1998**
24. Zagrean L, Varlas V, Oprica M, **Munteanu AM**, Oltenschi C, Voicu T. EEG study of kainite induced epilepsy in non-anaesthetized freely moving rats. *Rom. J. Physiol.*, 30, 1-2, 115 –18 **1993**.

Abstracte publicate in reviste ISI cu impact factor:

1. Ana-Maria Zagrean, Anca Maria Panaitescu, Sebastian Isac, Bogdan Pavel, Andrei Ilie, Mihai Ceanga, Alexandra Totan, Gheorghe Peltecu, Leon Zagrean. Oxytocin reduces seizure burden and hippocampal injury in a rat model of perinatal asphyxia. Proceedings of the 6th National Congress of Neuroendocrinology. Bucharest. *Acta Endocrinologica (Buc)*. Vol XIV Supplement 2, Octombrie 2018. *Acta Endocrinologica (Buc)*, **2018**, Supplement, **IF=0.41**
2. Cosmin Șerban, Andrei Barborică, Adina Roceanu, Ioana Mîndruță, Jean Ciurea, **Ana-Maria Zăgorean**, Leon Zăgorean, Mihai Moldovan. Novel measures for EEG monitoring in coma (S57). Proceedings of the 16th European Congress of Clinical Neurophysiology, Budapest, Hungary, 30 August–2 September 2017. *Clinical Neurophysiology*, **2017**. Volume 128, Issue 9, e197. <https://doi.org/10.1016/j.clinph.2017.07.068>, **IF=3.61**
3. Baca, G., Caruntu C., and **Zagrean AM**. Acute stress augments cutaneous neurogenic inflammatory response. *European Journal of Medical Research*. Vol. 14., p. 20-21, Biomed Central LTD, **2009**, **IF=1.74**.
4. M Ceanga, A Spataru, E Vasiliu, **AM Zagrean**. Oxytocin protects immature cultured hippocampal neurons against oxygen-glucose deprivation. *European Journal of Medical Research*, Vol. 14, p. 63, Supplement 2, Meeting abstract 1027, Biomed Central LTD, **2009**, **IF=1.74**
5. **Zagrean AM**, Ceanga M, Mihai G, Le Duc D, Spataru A, Toescu EC, Dynamics of cerebellar granule neurones' response to oxygen and/or glucose deprivation in primary cultures, Joint Meeting, Slovak Physiological Society, The Physiological Society (UK) and Federation of European Physiological Societies (FEPS), Bratislava, September 2007. *Acta Physiologica* **2007**; Volume 191, Supplement 658 :OW02-6 **IF=1.6**
6. Sandulache, M., S. Dinescu, S. Avramescu, S. Ioan, **A.M. Zagrean**, and M. Moldovan. "Priming and facilitation in a Stroop task." In *International Journal of Psychophysiology*, vol. 54, no. 1-2, pp. 158-158. Elsevier Science BV, **2004**, **IF=1.56**

Abstracte publicate în reviste B+ /BDI sau volume de rezumate cu ISSN/ ISBN ale unor conferințe internaționale sau naționale cu participare internațională,:

1. **Ana-Maria Zagrean**, Anca Maria Panaitescu, Sebastian Isac, Bogdan Pavel, Alexandru Catalin Paslaru, Mara Ioana Iesanu, Natalia Cucu, Mihai Moldovan, Leon Zagrean. Prenatal and perinatal modulation of brain vulnerability to hypoxia/asphyxia. A 31-a Conferință Națională a Societății Române de Fiziologie "Fiziologia azi: Inovare, Integrare, Traducere", Timișoara, 25–26 octombrie 2019, *Fiziologia-Physiology*. **2019**. Supplement 1. p. 21-22. ISSN 1223-2076.
2. Bogdan Pavel, Patricia Demetria Popovici, Diana Rotaru, Marina Cozma, Denise Zahiu, Daniela Popa, Leon Zagrean, **Ana-Maria Zagrean**. Claustrum – experimental challenges in exploring its function. A 31-a Conferință Națională a Societății Române de Fiziologie "Fiziologia azi: Inovare, Integrare, Traducere", Timișoara, 25–26 octombrie 2019, *Fiziologia-Physiology*. **2019**. Supplement 1. ISSN 1223-2076.
3. Miruna Rascu, Mihai Stancu, Colin Akerman, **Ana-Maria Zagrean**. Chemogenetic modulation of seizure activity in freely behaving mice. *Acta Medica Marisensis*. **2019** Supplement, Vol. 65, p7-7. 1/2p. ISSN: 2068 – 3324.
4. **Ana-Maria Zagrean**, Anca Maria Panaitescu, Sebastian Isac, Alexandru Catalin Paslaru, Mara Ioana Iesanu, Alexandra Totan, Natalia Cucu, Mihai Moldovan, Leon Zagrean. Prenatal modulation of brain vulnerability to asphyxia in rat. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
5. Alexandru Țîrlea, Elena Laura Georgescu, Ioana Antoaneta Georgescu, Denise C.M. Zahiu, Alexandru Ștepoaie, Adrian Pană, Adriana Monica Nichita, Sebastien Vanhaeren, Mădălina Popescu, **Ana-Maria Zăgorean**, Daniela Popa. Detection of reduced interhemispheric communication between primary motor cortices in cerebellar kainic acid induced dystonia. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
6. Carmen-Denise-Mihaela Zahiu, Elena-Laura Georgescu, Ioana Georgescu, Alexandru Ștepoaie, Adrian Pană, Alexandru Țîrlea, Daniela Popa and **Ana-Maria Zagrean**. ECOG and EMG connectivity during cerebellar kainic acid-induced dystonia in mice. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
7. Marina Cozma, Miruna Costreie, Miruna Rascu, Mihai Stancu, Alexandru Calin, Andrei Ilie, John Jefferys, **Ana-Maria Zagrean**, Colin Akerman. Electrocorticographical recordings in a robust *in vivo* model of epileptic seizures in mice. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
8. Raluca-Elena Mitran, Patricia-Demetria Popovici, Miruna Rascu, Maria-Miruna Costreie, Vlad-Petru Morozaan, Mihai Stancu, Alexandru Calin, Andrei Ilie, **Ana-Maria Zagrean**, John Jefferys, Colin Akerman *In vivo* chemogenetic modulation of seizure activity in mice. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.

9. Alexandru Paslaru, Dorottya Szocs, Stefan Teodorescu, Cosmin-Andrei Șerban, **Ana-Maria Zăgorean**, Leon Zăgorean, Mihai Moldovan. Task-related EEG reactivity following transcranial direct current stimulation of the dorsolateral prefrontal cortex. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
10. Artsiom Klimko, Sebastian Isac, Vlad Zeca, Anca Maria Panaitescu, Leon Zagrean, **Ana-Maria Zagrean**. Effects of trans-resveratrol and citicoline supplemented maternal diet on the behavior of offspring rats subjected to perinatal asphyxia. FENS Regional Meeting **2019** (FRM2019), Belgrade, Serbia, 10-13 July 2019, *Abstract Book*, ISBN 978-86-917255-3-2.
11. Cerebellar contribution to oscillatory cortical activity in dystonia. Steopoaie Alexandru¹, Georgescu Elena Laura, Georgescu Ioana Antoaneta, Zahiu Denise, Tîrlea Alexandru, Pana Adrian, Nichita Adriana Monica, **Zagrean Ana-Maria**, Popa Daniela. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
12. Dorottya Szocs, Paslaru Alexandru Catalin, Stancu Mihai, Pavel Bogdan, Zahiu Carmen Denise, **Zagrean Ana-Maria**, Zagrean Leon, Moldovan Mihai. Assessment of the rat epileptic brain by burst-suppression EEG reactivity. FENS Regional Meeting **2019** (FRM2019), Belgrade, Serbia, 10-13 July 2019, *Abstract Book*, ISBN 978-86-917255-3-2.
13. Laurentiu Tofan, Alexandru-Catalin Paslaru, Mihai Stancu, Bogdan Pavel, Denise Mihaela Zahiu, Alexandru Calin, **Ana-Maria Zagrean**, Leon Zagrean, Mihai Moldovan. Assessment of the rat post-ischemic brain by burst-suppression EEG reactivity. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
14. Chitimus Diana Maria, Le Duc Diana, Voiculescu Suzana Elena, Zagrean Leon, Torsten Schöneberg, **Zagrean Ana-Maria**. Prenatal continuous light exposure leads to changes in serotonin- and circadian system-related genes expression in the rat adult offspring FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
15. Maria-Miruna Costreie, Nikolaos Zygouropoulos, Mara Iesanu, Artsiom Klimko, Sebastian Isac, Leon Zagrean, **Ana-Maria Zagrean**. The beneficial effect of trans-resveratrol on early hippocampal neurodevelopment in a rat model of foetal alcohol syndrome and hypoxic-ischemic encephalopathy. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
16. Rosana-Bristena Ionescu, Ioana Florentina Grigoras, Mara Ioana Iesanu, Diana Maria Chitimus, Robert Mihai Haret, Tudor Mihai, Bogdan Ianosi, Mihai Ceanga, **Ana-Maria Zagrean**. Chloride transport modulation impacts the response of hippocampal neurons to oxygen-glucose deprivation and reoxygenation. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
17. Trans-resveratrol supplemented maternal diet improves the early neurologic outcome in rat offspring consecutive to perinatal asphyxia. Mara Iesanu, Sebastian Isac, Anca Maria Panaitescu, Ana Spataru, Alexandra Totan, Natalia Cucu, Leon Zagrean, **Ana-Maria Zagrean**. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
18. Robert Mihai Haret, Ioana Florentina Grigoras, Mara Ioana Iesanu, Diana Maria Chitimus, Rosana-Bristena Ionescu, Bogdan Ianosi, Mihai Ceanga, **Ana-Maria Zagrean**. The impact of oxytocin on mature hippocampal neurons' vulnerability to in vitro metabolic deprivation depends on the severity of lesion FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
19. Kainic acid application on the cerebellar hemisphere induces specific dystonic phenotypes in mice. Vanhaeren Sebastien Gérard, Elena Laura Georgescu, Ioana Antoaneta Georgescu, Denise CM Zahiu, Alexandru Șteopoaie, Tîrlea Ștefan Alexandru, Adrian Pana, **Ana-Maria Zagrean**, Mădălina Popescu, Daniela Popa. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
20. Pavel Bogdan 1, Panaitescu Anca Maria 1, 2, Isac Sebastian 1, Nikolaos Zygouropoulos 1, Ilie Andrei Sorin 3, Ceanga Mihai 4, Zagrean Leon 1, Peltecu Gheorghe 2, Zagrean Ana-Maria oxytocin reduces hippocampal injury and seizures induced by the perinatal asphyxia. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
21. Sebastian Isac, Anca Maria Panaitescu, Amalia Udriste, Natalia Cucu, Gheorghe Peltecu, Leon Zagrean, Ana-Maria Zagrean. Maternal diet alters the hippocampus epigenetic pattern in perinatal asphyxia. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
22. Robert Mihai Haret, Patricia Demetria Popovici, Miruna Rascu, Mihai Stancu, Raluca Mitran, Marina Cozma, Miruna Rascu, Catalina Sabina Cremeneanu, Miralena Tomescu, Alexandru Catalin Paslaru, **Ana-Maria Zagrean**, Mihai Moldovan. Brain Awareness Week 2019 – Science vs Art in the age of artificial intelligence. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.
23. Mihai Stancu, Patricia Demetria Popovici, Robert Mihai Haret, Raluca Mitran, Miruna Rascu, Vlad Petru Morozan, **Ana-Maria Zagrean**, Alexandru Catalin Paslaru, Mihai Moldovan. Brain Awareness Week 2018 – Brain technology: the quest for human enhancement. FENS Regional Meeting 2019 (FRM2019), Belgrade, Serbia, 10-13 July **2019**, *Abstract Book*, ISBN 978-86-917255-3-2.

24. Arsene C, Cucu N, Isac S, Panaitescu AM, **Zăgrean AM**. The epigenetic transgenerational effect of maternal diet on offspring brain development in an animal model of perinatal asphyxia. *Journal of Genetic Disorders & Genetic Reports*. ISSN: 2327-5790. Epigenetics **2018**, Tokio. Volume: 7. DOI: 10.4172/2327-5790-C2-004
25. **Zăgrean, A.M.**, Ceanga, M., Grigoras, I.F., Ilesanu, M.I., Chitimus, D.M., Ianos, B., Ionescu, R.B., Haret, R.M., Panaitescu, A.M., Ilie, A., Zăgrean, L., Impact of intracellular chloride on neuronal viability in in-vitro and in-vivo ischemia/ asphyxia and reoxygenation models in rat, oral presentation, *Romanian Journal of Neurology*, p.25, Vol. XVII, Suppl.2, 1st International Conference on Neuroscience, Neuroinformatics, Neurotechnology and Neuro-Psycho-Pharmacology, 15-17 November **2018**, Bucharest, Romania, ISSN 1843-8148.
26. **Ana-Maria Zăgrean**, Anca Maria Panaitescu, Sebastian Isac, Bogdan Pavel, Alexandru Paslaru, Alexandra Totan, Natalia Cucu, Mihai Moldovan, Leon Zăgrean. Neuroprotective strategies in experimental perinatal asphyxia. The 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October 2018, *Fiziologia-Physiology*. **2018**. Supplement 1. ISSN 1223-2076.
27. Natalia Cucu, Sebastian Isac, Anca Panaitescu, **Ana-Maria Zăgrean**. Epigenetics in neuronal development. The 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October 2018, *Fiziologia-Physiology*. **2018**. Supplement 1. ISSN 1223-2076.
28. Bogdan Pavel, Diana Rotaru, Daniela Popa, **Zăgrean AM**, Zăgrean L. Reactivity of claustrum to repeated electrical stimulation. The 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October 2018, *Fiziologia-Physiology*. **2018**. Supplement 1. ISSN 1223-2076.
29. Chitimus, D.M., Ilesanu, M.I., Grigoras, I.F., Ianos, B., Ceanga, M., **Zăgrean, A.M.**, The effect of oxytocin treatment on the viability of mature hippocampal cell cultures subjected to oxygen and glucose deprivation is dependent on the injury severity, poster presentation, *Fiziologia-Physiology*. The 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, ISSN 1223-2076.
30. Ilesanu, M.I., Isac, S., Panaitescu, A.M., Klimko, A., Totan, A., Cucu, N., Zăgrean, L., **Zăgrean, A.M.**, Citicoline supplemented maternal diet protects the offspring hippocampus in perinatal asphyxia in rat, poster presentation, *Physiology*, the 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
31. Ionescu, R.B., Ilesanu, M.I., Chitimus, D.M., Haret, R.M., Mihai, T., Grigoras, I.F., Ianos, B., Ceanga, M., **Zăgrean, A.M.**, Chloride co-transporters modulate cellular viability in rat mature hippocampal cultures exposed to oxygen-glucose deprivation and reoxygenation, poster presentation, *Physiology*, the 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
32. Mihai, T., Haret, R.M., Grigoras, I.F., Ilesanu, M.I., Ionescu, R.B., Chitimus, D.M., Ianos, B., Ceanga, M., **Zăgrean, A.M.**, The effect of modulating GABAA channels on cellular viability in primary rat hippocampal cell cultures exposed to in vitro oxygen-glucose-deprivation, *Physiology*, 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
33. Ioana Antoaneta Georgescu, Elena Laura Georgescu, Alexandru Răzvan Șteopoaie, Alexandru Țirlea, Adrian Pana, Monica Nichita, Denise CM Zahiu, **Ana-Maria Zăgrean**, Daniela Popa. Motor-somatosensory and motor-parietal cortices coherence alterations in an animal model of dystonia caused by cerebellar dysfunction. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
34. Monica Adriana Nichita; Elena Laura Georgescu; Ioana Antoaneta Georgescu; Alexandru Razvan Steopoaie; Alexandru Tirlea; Adrian Pana; Denise CM Zahiu; Vlad Morozan; **Ana-Maria Zăgrean**; Daniela Popa. Motor, somatosensory and parietal cortices ecog power spectral density evolution during dystonia. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
35. Alexandru Tirlea; Elena Laura Georgescu; Ioana Antoaneta Georgescu; Denise C.M. Zahiu; Alexandru Steopoaie; Adrian Pana; Adriana Monica Nichita; **Ana-Maria Zăgrean**; Daniela Popa. Electromyography spectral power during cerebellar kainic acid-induced dystonia in mice. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
36. Mitran Raluca-Elena; Mihai Stancu; Alexandru Calin; Andrei Ilie; John Jefferys; **Ana-Maria Zăgrean**; Colin Akerman. Chemogenetic modulation of seizure activity in freely behaving mice. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
37. Patricia-Demetria Popovici; Vlad-Petru Morozan; Maria-Miruna Costreie; Miruna Rascu; Mihai Stancu; Alexandru Calin; Andrei Ilie; John Jefferys; **Ana-Maria Zăgrean**; Colin Akerman. Electroencephalographic recordings in an in vivo model of acute seizures in mice. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
38. Miruna Rascu; Maria-Miruna Costreie; Patricia-Demetria Popovici; Vlad-Petru Morozan; Mihai Stancu; Alexandru Calin; Andrei Ilie; John Jefferys; **Ana-Maria Zăgrean**; Colin Akerman. A controlled progression towards acutely-triggered generalised seizures in freely-behaving

- mice. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
39. Laurentiu Tofan; Alexandru-Catalin Paslaru; Mihai Stancu; Bogdan Pavel; Denise Mihaela Zahiu; Alexandru Calin; Ana-Maria Zagrean; Leon Zagrean; Mihai Moldovan. Assessing the post-ischemic rat brain by anesthetic burst-suppression EEG reactivity to photic stimulation. 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
 40. Paslaru Alexandru Catalin , Fazeli Negar, Stancu Mihai, Pavel Bogdan, Zahiu Carmen Denise, **Zagrean Ana Maria**, Zagrean Leon, Moldovan Mihai. Treatment assessment in a genetic absence epilepsy model by burst-suppression EEG Reactivity. *Fiziologia-Physiology*. the 9th Conference of the National Neuroscience Society of Romania (SNN), Bucharest, 18-20 October **2018**, *Fiziologia-Physiology*. ISSN 1223-2076.
 41. Chitimus, D.M., Grigoras, I.F., Ilesanu, M.I., Ionescu, R.B., Haret, R.M., Mihai, T., Ianos, B., Ceanga, M., Zagrean, L., **Zagrean, A.M.**, Chloride transportation modulation impacts on neuronal viability in mature hippocampal cultures exposed to oxygen-glucose deprivation and reoxygenation, oral presentation, *Clujul Medical*, p.47, Vol.91/**2018**, supplement 6, 30th National Conference of Physiology – Integrative Physiology, from Fundamental Mechanisms to Biomedical Applications, 27-29 September 2018, Cluj-Napoca, Romania, e-ISSN 2066-8872.
 42. Ilesanu, M.I., Isac, S., Panaitescu, A.M., Grigoras, I.F., Totan, A., Cucu, N., Zagrean, L., Peltecu, G., **Zagrean, A.M.**, Maternal high-fat diet influences the immature rat hippocampus exposed to perinatal asphyxia, oral presentation, *Clujul Medical*, p.46, Vol.91/**2018**, supplement 6, 30th National Conference of Physiology – Integrative Physiology, from Fundamental Mechanisms to Biomedical Applications, 27-29 September 2018, Cluj-Napoca, Romania, e-ISSN 2066-8872.
 43. Alexandru Razvan Șteopoaie, Ioana Antoaneta Georgescu, Elena Laura Georgescu, Denise CM Zahiu, Vlad Petru Morozan, Adrian Pana, Alexandru Tirlea, Adriana Monica Nichita, **Ana-Maria Zăgorean**, Daniela Popa. Motor behavior in mice during dystonia induced by cerebellar kainic acid application. The 30th National Physiology Conference: "Integrative physiology - from fundamental mechanisms to biomedical applications", Cluj-Napoca, Romania, 27-29 September **2018**, *Clujul Medical, Journal of Medicine and Pharmacy* 2018, Vol. 91 – Supplement No. 6, e-ISSN 2066-8872.
 44. Ioana Antoaneta Georgescu, Elena Laura Georgescu, Alexandru Razvan Șteopoaie, Alexandru Tirlea, Adrian Pana, Monica Nichita, Denise CM Zahiu, **Ana-Maria Zăgorean**, Daniela Popa. Cortical oscillations in an animal model of dystonia caused by cerebellar dysfunction. The 30th National Physiology Conference: "Integrative physiology - from fundamental mechanisms to biomedical applications", Cluj-Napoca, Romania, 27-29 September 2018, *Clujul Medical, Journal of Medicine and Pharmacy* **2018**, Vol. 91 – Supplement No. 6, pag 572-573, e-ISSN 2066-8872.
 45. Ioana Antoaneta Georgescu, Elena Laura Georgescu, Denise CM Zahiu, Alexandru Șteopoaie, Adrian Pana, Alexandru Țirlea, Adriana Monica Nichita, **Ana-Maria Zagrean**, Daniela Popa. Parietal cortex oscillations alteration after cerebellar kainic acid - induced dystonia. The 6th Carol Davila University of Medicine and Pharmacy Congress, Bucharest, Romania, 7-9 June **2018**. ISSN: 2501-6903.
 46. Alexandru Țirlea, Elena Laura Georgescu, Ioana Antoaneta Georgescu, Denise CM Zahiu, Alexandru Șteopoaie, Adrian Pană, Adriana Monica Nichita, **Ana-Maria Zagrean**, Daniela Popa. Electromyography Spectral Power during cerebellar kainic acid - induced dystonia in mice. The 6th Carol Davila University of Medicine and Pharmacy Congress, Bucharest, Romania, 7-9 June **2018**. ISSN: 2501-6903.
 47. Adrian Pană, Ioana Antoaneta Georgescu, Elena Laura Georgescu, Denise CM Zahiu, Alexandru Șteopoaie, Alexandru Țirlea, Adriana Monica Nichita, **Ana-Maria Zagrean**, Daniela Popa. Motor behavior during kainic acid induced dystonia. The 6th Carol Davila University of Medicine and Pharmacy Congress, Bucharest, Romania, 7-9 June **2018**. ISSN: 2501-6903.
 48. Ilesanu, I.M., Grigoras, I.F., Chitimus, D.M., Haret, R., Ionescu, B., Ianos, B., Ceanga, M., Zagrean, L., **Zagrean, A.M.**, Modulating intracellular chloride concentration impacts on the viability of rat primary hippocampal cell cultures exposed to oxygen-glucose deprivation, oral presentation, *Fiziologia - Physiology*, Supplement 1/**2017**. p.26, 29th National Conference of the Romanian Society of Physiological Sciences with international attendance, Timisoara, 25-27 May 2017, ISSN 1223-2076.
 49. Ilesanu, I.M., Isac, S., Panaitescu, A.M., Spataru, A., Totan, A., Peltecu, G., Zagrean, L., **Zagrean, A.M.**, Trans-resveratrol enriched maternal diet offers a neuroprotective effect in immature rat hippocampus after perinatal asphyxia exposure, poster presentation, *Fiziologia-Physiology*. Supplement 1/**2017**, p.48, 29th National Conference of the Romanian Society of Physiological Sciences with international attendance, 25-27 May 2017, ISSN 1223-2076.
 50. Ioana Georgescu, Laura Georgescu, Denise CM Zahiu, Vlad Morozan, Alexandru Șteopoaie, Adrian Pana, **Ana-Maria Zăgorean**, Daniela Popa. Alterations in the sensory-motor cortex connectivity during dystonic motor behavior induced by intracerebellar kainic acid administration. The 29th National Conference of the Romanian Society of Physiological Sciences, with International Participation, Personalized Physiology - from Concept to Precision Medicine", Timișoara, 25-27 May 2017, *Fiziologia-Physiology* **2017**. Supplement 1, ISSN 1223-2076 e-ISSN 2247-2061
 51. Alexandru Șteopoaie, Vlad Morozan, Adrian Pana, Laura Georgescu, Ioana Georgescu, Denise CM Zahiu, **Ana-Maria Zăgorean**, Daniela Popa. Sensory-motor cortex connectivity changes during exploratory behaviour, in mice The 29th National Conference of the Romanian

- Society of Physiological Sciences, with International Participation, Personalized Physiology - from Concept to Precision Medicine", Timișoara, 25-27 May 2017, *Fiziologia-Physiology* **2017**. Supplement 1, ISSN 1223-2076 e-ISSN 2247-2061
52. Vlad Morozan, Alexandru Steopoaie, Denise CM Zahiu, Laura Georgescu, Ioana Georgescu, Adrian Pana, **Ana-Maria Zăgrea**, Daniela Popa, Kainic acid intracerebellar repeated administration - a chronic mouse model of generalized dystonia. The 29th National Conference of the Romanian Society of Physiological Sciences, with International Participation, Personalized Physiology - from Concept to Precision Medicine, Timișoara, Romania, 25-27 May 2017, *Fiziologia-Physiology* **2017**. Supplement 1, ISSN 1223-2076 e-ISSN 2247-2061 ISSN-L 1223-2076
 53. **Zăgrea, A.M.**, Isac, S., Panaitescu, A.M., Ilesanu, I.M., Totan, A., Cucu, N., Udriste, A., Peltecu, G., Zăgrea, L., Hippocampal vulnerability to perinatal asphyxia in rat, p.20, 8th Conference of the National Neuroscience Society of Romania, Craiova, 19-21 October 2017, *Fiziologia-Physiology*. Supplement 2/**2017**. ISSN 1223-2076.
 54. Haret, R.M., Grigoras, I.F., Ilesanu, M.I., Ionescu, R.B., Chitimus, D.M., **Zăgrea, A.M.**, The effect of intracellular chloride on the viability of rat hippocampal neurons subjected to in vitro oxygen-glucose-deprivation, p.31, 8th Conference of the National Neuroscience Society of Romania, Craiova, 19-21 October 2017, *Fiziologia-Physiology*. Supplement 2/**2017**. ISSN 1223-2076.
 55. Ilesanu, M.I., Isac, S., Panaitescu, A.M., Spataru, A., Totan, A., Udriste, A., Cucu, N., Peltecu, G., Zăgrea, L., **Zăgrea, A.M.**, The neuroprotective effect of trans-resveratrol enriched maternal diet in immature hippocampus exposed to perinatal asphyxia, poster presentation, p.32, 8th Conference of the National Neuroscience Society of Romania, Craiova, 19-21 October, 2017, *Fiziologia-Physiology*. Supplement 2/**2017**. ISSN 1223-2076.
 56. Paslaru AC, Stancu M, Pavel B, Zahiu CDM, Fazeli N, **Zăgrea AM**, Zăgrea L, Moldovan M. Antiepileptic drugs treatment assessment by burst-suppression EEG reactivity in a genetic absence epilepsy model, oral presentation, 8th Conference of the National Neuroscience Society of Romania, Craiova, 19-21 October 2017, *Fiziologia-Physiology*. Supplement 2/**2017**. ISSN 1223-2076.
 57. Ioana Antoaneta Georgescu, Elena Laura Georgescu, Alexandru Șteopoaie, Vlad Morozan, Adrian Pana, Denise CM Zahiu, **Ana-Maria Zăgrea**, Daniela Popa. Alterations in the parietal-motor cortex connectivity during dystonic motor behavior induced by intracerebellar kainic acid administration. The 8th Conference of the National Neuroscience Society of Romania 2017, Neurodegeneration and Regeneration, from cells to mind, Craiova, 19-21 October 2017, *Fiziologia-Physiology*. **2017**. Supplement 2, ISSN 1223-2076 e-ISSN 2247-2061
 58. Răzvan Alexandru Șteopoaie, Laura Georgescu, Denise CM Zahiu, Ioana Georgescu, Vlad Morozan, Adrian Pana, **Ana-Maria Zăgrea**, Daniela Popa. Sensory-motor cortex connectivity changes during active and quiet wake behavior during dystonia attacks, in mice. The 8th Conference of the National Neuroscience Society of Romania 2017, Neurodegeneration and Regeneration, from cells to mind, Craiova, 19-21 October 2017, *Fiziologia-Physiology*. **2017**. Supplement 2, ISSN 1223-2076 e-ISSN 2247-2061 ISSN-L 1223-2076
 59. S. Isac, A.M. Panaitescu, A. Spataru, M. Ilesanu, A. Udriste, N. Cucu, G. Peltecu, L. Zăgrea, A.M. Zăgrea. Trans-resveratrol supplemented maternal diet has a neuroprotective effect in perinatal asphyxia in rat. Carol Davila University and Pharmacy National Congress, Bucharest, *Maedica – Journal of Clinical Medicine*, **2017**, Volume 12, Supplement, p. 28. ISSN: 2501-6903.
 60. Mara Ioana Ilesanu, Ioana-Florentina Grigoras, Robert Haret, Diana Maria Chitimus, Bristena Ionescu, Bogdan Ianosi, Mihai Ceanga, **Ana-Maria Zăgrea**. Intracellular chloride concentration affects the cellular viability of rat primary hippocampal cell culture exposed to oxygen-glucose deprivation. Carol Davila University and Pharmacy National Congress, Bucharest, *Maedica – Journal of Clinical Medicine*, **2017**, Volume 12, Supplement, p. 12. ISSN: 2501-6903.
 61. Denise CM Zahiu, Laura Georgescu, Vlad Morozan, Adrian Pana, **Ana-Maria Zăgrea**, Daniela Popa. A chronic mouse model of generalized dystonia after repeated intracerebellar administration of kainic acid. The 7-th Conference of the National Neuroscience Society of Romania, 24-26 November **2016**, *Fiziologia-Physiology*. Supplement 1, ISSN 1223-2076 e-ISSN 2247-2061
 62. Vlad Morozan, Adrian Pana, Laura Georgescu, Denise CM Zahiu, **Ana-Maria Zăgrea**, Daniela Popa. Sensory-motor cortex connectivity during exploratory activity, in mice. The 7-th Conference of the National Neuroscience Society of Romania, 24-26 November **2016**, *Fiziologia-Physiology*. Supplement 1, ISSN 1223-2076 e-ISSN 2247-2061.
 63. Laura Georgescu, Denise CM Zahiu, Vlad Morozan, Adrian Pana, **Ana-Maria Zăgrea**, Daniela Popa. Sensory-motor cortex connectivity during dystonic motor behavior induced by intracerebellar kainic acid administration. The 7-th Conference of the National Neuroscience Society of Romania, 24-26 November **2016**, *Fiziologia-Physiology*. Supplement 1, ISSN 1223-2076 e-ISSN 2247-2061.
 64. Zahiu CDM, Georgescu L, Morozan V, Pana A, **Zăgrea AM**, Popa D. Exploring the sensory and motor cortex activity during quiet and active wakefulness in mice – a preliminary study. The XIth National Congress of the Romanian Society of Physiology with international participation, 26-28 mai 2016, Craiova. *Fiziologia-Physiology*. **2016** Supplement 1. ISSN 1223-2076.
 65. **AM. Zăgrea**, A. Panaitescu, S. Isac, M. Ceanga, A. Paslaru, M. Stancu, B. Pavel, D. Zahiu, L. Zăgrea and M. Moldovan. Neuroprotective effect of oxytocin during in vivo neonatal hypoxia/hypercapnia in rats. The XIth National Congress of the Romanian Society of Physiology with international participation, 26-28 mai 2016, Craiova. *Fiziologia-Physiology*. **2016** Supplement 1. ISSN 1223-2076.

66. Ilesanu, M.I., Grigoras, I.F., Chitimus, D.M., Ionescu, B., Haret, R., Niculae, T., Ianosi, B., Ceanga, M., **Zăgrean, A.M.**, The impact of intracellular chloride modulation on cellular viability in rat primary hippocampal cell culture, 7th Conference of the National Neuroscience Society of Romania (SNN) „Neurons and mind in health and disease”, Bucharest, 24-26 November 2016, *Fiziologia-Physiology*. Supplement 1/2016. ISSN 1223-2076.
67. Chitimus, D.M., Grigoras, I.F., Ilesanu, M.I., Ianosi, B., Zăgrean, L., **Zăgrean, A.M.**, Oxytocin effects on mature hippocampal cultures during oxygen-glucose deprivation and reoxygenation, p.3, Carol Davila University and Pharmacy National Congress, Bucharest, *Maedica – Journal of Clinical Medicine*, **2016**, Volume 11, Supplement, ISSN: 2501-6903.
68. Ilesanu, M.I., Chitimus, D.M., Grigoras, I.F., **Zăgrean, A.M.**, Mature hippocampal cultures response to oxytocin treatment during oxygen-glucose deprivation and reoxygenation, p.39, Carol Davila University and Pharmacy National Congress, Bucharest, *Maedica – a Journal of Clinical Medicine*, **2016**, Volume 11, Supplement, ISSN: 2501-6903.
69. **AM. Zăgrean**, A. Panaitescu, S. Isac, M. Ceanga, A. Paslaru, M. Stancu, B. Pavel, D. Zahiu, L. Zăgrean, M. Moldovan, Neuroprotective effect of oxytocin during in vivo neonatal hypoxia/hypercapnia in rats. *Physiology* **2016** (Dublin, Ireland), *Proc. Physiol. Soc.* 37 (**2016**) PCA270. Online ISSN 1749-6187
70. Paslaru AC, Stancu M, Zahiu D, Stoian A, Pavel B, Calin A, **Zăgrean AM**, Zăgrean L and Moldovan M, Impairment of photic burst-suppression EEG reactivity after a transient global cerebral ischemia in rat, oral presentation, SNN 2016, Bucharest, Romania, 24-26 November 2016. *Fiziologia-Physiology*. Supplement 1/2016. ISSN 1223-2076.
71. **AM Zăgrean**, M Ceanga, A Panaitescu, B Ianosi, IF Grigoras, M Ilesanu, D Chitimus, N Zygouropoulos, D Zahiu, A Spataru, AC Paslaru, M Stancu, D Udreanu, G Peltecu, M Moldovan, L Zăgrean. Oxytocin and neuronal vulnerability to hypoxia-ischemia in immature and mature brain. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
72. AM Panaitescu, N Zygouropoulos, D Udreanu, C Dobre, D Zahiu, B Pavel, G Peltecu, L Zăgrean, **AM Zăgrean**. Effect of oxytocin in mild and severe perinatal asphyxia in rat. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
73. P Bogdan, D Popa, F Menardy, D Zahiu, AM Zăgrean, L Zăgrean. Claustrum electrical stimulation leads to a deepening anaesthesia- a preliminary study. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
74. CA Acatrinei, B Pavel, F Menardy, CDM Zahiu, D Popa, **AM Zăgrean**, L Zăgrean. Deepening of anesthesia leads to changes in cortical connectivity”. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
75. Paslaru A, Stancu M, Zahiu D, Stoian A, Pavel B, Catalin A, **Zăgrean AM**, Zăgrean L and Moldovan M. Prolonged attenuation of circadian sleep rhythms after a brief global cerebral ischemia in rat. 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076. 1st Prize.
76. Sebastian Isac, Anca Panaitescu, Nikos Zygouropoulos, Bogdan Pavel, Denise Carmen Zahiu, George Peltecu, Leon Zăgrean, **Ana-Maria Zăgrean**. Mild and severe perinatal asphyxia – an experimental model in rat. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
77. Serban CA, Paslaru A, Stancu M, Pavel B, Zahiu D, **Zăgrean AM**, Mindruta I, Roceanu A, Zăgrean L, Moldovan M. Reactivity of heart rate variability to photic stimulation in men and rats”. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
78. **Zăgrean AM**, Panaitescu A, Paslaru A, Stancu M, Pavel B, Zahiu CDM, Zăgrean L, Moldovan M. Oxytocin attenuates electrocortical reactivity impairment after transient neonatal hypoxia in rats. The 6th Conference of the National Neuroscience Society of Romania „Neuroplasticity in health and disease”, Bucharest, October 29-31, 2015. *Fiziologia-Physiology*. **2015** Supplement 1. ISSN 1223-2076.
79. Ilesanu, M.I., Grigoras, I.F., Chitimus, D.M., Ianosi, B., Ceanga, M., Zăgrean, L., **Zăgrean, A.M.**, Mature hippocampal cell cultures metabolic response to oxygen-glucose deprivation exposure, p.32, 6th Conference of the National Neuroscience Society of Romania (SNN) „Neuroplasticity in health and disease”, Bucharest, 29-31 October 2015, *Fiziologia-Physiology*. Supplement 1/2015. ISSN 1223-2076.
80. Ianosi, B., Ceanga, M., Ilesanu, M.I., Grigoras, I.F., Chitimus, D.M., Zăgrean, L., **Zăgrean, A.M.**, Mature hippocampal cultures response to oxytocin treatment during oxygen-glucose deprivation, p.41, 6th Conference of the National Neuroscience Society of Romania (SNN) „Neuroplasticity in health and disease”, Bucharest, 29-31 October 2015. *Fiziologia-Physiology*. Supplement 1/2015. ISSN 1223-2076.

81. **AM Zagrean**, C Acatrinei, A Calin, D Zahiu, A Paslaru, A Stoian, M Stancu, L Zagrean, M Moldovan. Delayed neurovascular coupling after transient global cerebral ischemia in rat. *Proceedings of The Physiological Society*. **2014**. Publisher: The Physiological Society (UK). Online ISSN 1749-6187.
82. S Mirica, AC Paslaru, D Zahiu, B Pavel, AO Constantinescu, A Ilie, A Calin, **AM Zagrean**, L Zagrean, M Moldovan. Probing the reactivity of anesthetic burst-suppression EEG by transcranial direct current stimulation. The conference of the National Neuroscience Society of Romania, 23-25 October 2014. *Fiziologia-Physiology*. **2014** Supplement 2. ISSN 1223-2076.
83. AC Paslaru, A Calin, D Zahiu, S Mirica, C Acatrinei, A Stoian, **AM Zagrean**, L Zagrean, M Moldovan. Sleep alteration following a brief transient global cerebral ischemia in rats. The conference of the National Neuroscience Society of Romania, 23-25 October 2014. *Fiziologia-Physiology*. **2014** Supplement 2. ISSN 1223-2076.
84. Voiculescu SE, Zygiouropoulos N, Zahiu CD, Rosca AE, Zagrean L, **Zagrean AM**. Melatonin suppression in late pregnancy leads to anxiety-like behavior in offspring. The conference of the National Neuroscience Society of Romania, 23-25 October 2014. *Fiziologia-Physiology*. **2014** Supplement 2. ISSN 1223-2076.
85. Zahiu D, Acatrinei C, Paslaru AC, Mirica S, Pavel B, **Zagrean AM**, Zagrean L. Similar behavioral effects of human and rat interferon-alfa. The conference of the National Neuroscience Society of Romania, 23-25 octombrie 2014. *Fiziologia-Physiology*. **2014** Supplement 2. ISSN 1223-2076.
86. D Zahiu, A Paslaru, A Calin, A Stoian, C Acatrinei, **AM Zagrean**, M Moldovan si L Zagrean. Human and rat interferon alpha have different effects on rat sleep, The XXVII-th National Conference of Physiology of the Romanian Physiological Society, 5-7 June **2014**, Bucharest. *Fiziologia – Physiology*. 2014 Supplement ISSN 1223-2076.
87. **AM Zagrean**, A Calin, S Mirica, A Gonzales, L Zagrean, M Moldovan. An experimental model to evaluate the whole-brain neurovascular coupling during spontaneous cerebral activity. *Proceedings of The Physiological Society*, 37th IUPS (**2013**), Publisher: The Physiological Society (UK), Online ISSN 1749-6187.
88. C Acatrinei, A Calin, D Zahiu, AC Paslaru, A Stoian, M Stancu, S Mirica, M Voinescu, A Gonzales, **AM Zagrean**, L Zagrean, M Moldovan. Delayed hemodynamic response during early reperfusion following global cerebral ischemia in rat. 4th Conference of the National Neuroscience Society of Romania. 17-19 October **2013**, Bucuresti. Abstract book ISSN 2344-3952.
89. A Stoian, B David, A Gonzales, A Calin, D Zahiu, A Paslaru, MR Ionescu, M Stancu, C Acatrinei, M Voinescu, S Mirica, O Bajenaru, A Ilie, **AM Zagrean**, L Zagrean, M Moldovan. Reactivity of burst-suppression EEG patterns following global cerebral ischemia in rat and a new insight of visual evoked potential amplitude. 4th Conference of the National Neuroscience Society of Romania. 17-19 October **2013**, Bucharest. Abstract book ISSN 2344-3952.
90. Zahiu D, Calin A, Acatrinei C, Paslaru AC, Voinescu M, Stancu M, Stoian A, Mirica S, Gonzales A, **Zagrean AM**, Zagrean L, Moldovan M. „An experimetal model to evaluate the whole-brain neurovascular coupling during spontaneous cerebral activity”. 4th Conference of the National Neuroscience Society of Romania. 17-19 October **2013**, Bucharest. Abstract book ISSN 2344-3952 – 2nd Prize
91. Paslaru A, Calin A, Zahiu D, Mirica S, Ionescu M, Acatrinei C, **Zagrean AM**, Zagrean L, Moldovan M. Early alteration in sleep cycles following a brief transient global cerebral ischemia in rats. 4th Conference of the National Neuroscience Society of Romania. 17-19 October **2013**, Bucharest. Abstract book ISSN 2344-3952.
92. Stancu M, Calin A, Paslaru A, Zahiu D, Stoian A, Ionescu MR, Acatrinei C, **Zagrean AM**, Zagrean L, Moldovan M. „Video motion-tracking versus implantable neurophysiological telemetry as outcome measures in rodents”. 4th Conference of the National Neuroscience Society of Romania. 17-19 October **2013**, Bucharest. Abstract book ISSN 2344-3952.
93. I Goganau, D Zahiu, S Ioan, **AM Zagrean**, R Braga. Efectele oxitocinei asupra activarii sistemului nervos autonom indusa de testul presor la rece. Al IV-lea Simpozion al Societatii Nationale de Neurostiinte „Transdisciplinaritate in Neurostiinte”, 30-31 mai **2008**, Bucuresti. ISBN 978-973-708-323-4.
94. RI Braga, Silvia Ioan, Anca Nastase, **Ana-Maria Zagrean**, L Zagrean, Efectele comportamentale ale nonapeptidelor asupra unui model animal de depresie. Simpozion Național de Cercetare Științifică Medicală de Excelență, 25 – 26 octombrie **2007**, Sibiu, Romania. ISBN 978-973-708-272-5.
95. A Ilie, D Ciocan, **AM Zagrean**, L Zagrean, M Moldovan. Photosensitive seizures after global cerebral ischemia in rat. FENS Abstr., vol.3, A024.17, ISBN 92-990014-2-1, **2006**
96. R Braga, S Ioan, S Dinescu, A Nastase, **AM Zagrean**. The effect of oxytocin and arginin-vasotocin on rat models of depression. FENS Abstr., vol.3, A164.2, ISBN 92-990014-2-1, **2006**
97. Andrei Ilie, Dragos Ciocan, Tudor Vladioiu, Flavia Haradja, **Ana-Maria Zagrean**, Dragos AI. Nita, Leon Zagrean, Mihai Moldovan, Endogenous activation of adenosine A1 receptors delays the post-ischemic electrocortical recovery in vivo - Second International. Conference of the National Neuroscience Society of Romania, 1-3 Sept. **2006**, Bucharest, ISBN[10]: 973-708-153-6

98. Andrei Ilie, Stefan Spulber, Sinziana Avramescu, Dragos Alexandru Nita, **Ana-Maria Zagrean**, Leon Zagrean, Mihai Moldovan, Depletion of cerebral adenosine pool during high metabolic stress - Second International Conference of the National Neuroscience Society of Romania, 1-3 Sept. **2006**, Bucharest, ISBN[10]: 973-708-153-6
99. Dragos Ciocan, Andrei Ilie, **Ana-Maria Zagrean**, Dragos Alexandru Nita, Leon Zagrean, Mihai Moldovan, Role of adenosine A1 receptor in ischemic electrocortical suppression, Second International Conference of the National Neuroscience Society of Romania, 1-3 Sept. **2006**, Bucharest, ISBN [10]: 973-708-153-6

Abstracte publicate în volumele de rezumate ale unor conferințe, fără ISSN/ ISBN:

1. **Ana-Maria Zagrean**, Alexandru Catalin Paslaru, Sebastian Isac, Artsiom Klimko, Vlad Cosoreanu, Alexandra Ciurescu, Leon Zagrean, Mihai Moldovan. Trans-resveratrol enriched maternal diet protects from perinatal asphyxia in rats - a long-term EEG study. 11th FENS Forum of Neuroscience, 7-11 July **2018**, Berlin, Germany
2. Șerban C-A, Barborică A, Constantin-Augustin P, Roceanu A-M, Mîndruță I-R, Ciurea J, **Ana-Maria Zagrean**, Leon Zagrean, Mihai Moldovan. Towards a neurophysiological reactivity monitor (NERMO) to assess coma severity in stroke patients. 2018 Neuroscience Meeting Planner San Diego, CA. 2018b; Program No. 520.15. **2018**, Society for Neuroscience. Online (<https://abstractsonline.com/pp8/#!/4649/presentation/28985>).
3. Klimko, A., Isac, A.S., Ilesanu, M.I., Panaitescu, A.M., Cosoreanu, V., Ciurescu, A., Totan, A., Zagrean, L., **Zagrean, A.M.**, Maternal high-fat diet modifies the immature hippocampus vulnerability to perinatal asphyxia in rats, poster presentation, F18-3248. 11th FENS Forum of Neuroscience, 7-11 July **2018**, Berlin, Germany.
4. Mara Ilesanu, Sebastian Isac, Anca Maria Panaitescu, Ioana Florentina Grigoras, Alexandra Totan, Amalia Udriste, Natalia Cucu, Gheorghe Peltecu, Leon Zagrean, **Ana-Maria Zagrean**. Trans-resveratrol enriched maternal diet protects the immature hippocampus exposed to perinatal asphyxia. Abstract number: F18-1836, 11th FENS Forum of Neuroscience (FENS2018), Berlin, Germany, 7-11 July 2018.
5. Ionescu, R.B., Ilesanu, M.I., Chitimus, D.M., Haret, R.M., Mihai, T., Grigoras, I.F., Ianos, B., Ceanga, M., **Zagrean, A.M.**, Impact of chloride co-transporters modulation on neuronal viability in mature hippocampal cultures exposed to oxygen-glucose deprivation and reoxygenation, poster presentation, 11th FENS Forum of Neuroscience, 7-11 July **2018**, Berlin, Germany.
6. Haret, R., Grigoras, I.F., Ilesanu, M.I., Chitimus, D.M., Ionescu, R.B., Mihai, T., **Zagrean, A.M.**, Ianos, B., Ceanga, M., The effect of modulating GABAA receptors on cellular viability in primary rat hippocampal cell cultures exposed to *in vitro* oxygen-glucose deprivation followed by reoxygenation, poster presentation, 11th FENS Forum of Neuroscience, 7-11 July **2018**, Berlin, Germany.
7. Ioana Antoaneta Georgescu, Elena Laura Georgescu, Denise CM Zahiu, Alexandru Șteopoaie, Vlad Morozan, Adrian Pana, **Ana-Maria Zagrean**, Daniela Popa. Oscillatory cortical activity in an animal model of dystonia caused by cerebellar dysfunction. The 11th FENS Forum of Neuroscience, Berlin, Germany, 7-11 July **2018**
8. **Zagrean AM**. Hippocampal vulnerability to neonatal hypoxia/ischemia in rat. *FENS Featured Regional Meeting (FRM2017)*, 20-23 September **2017**, Pecs, Hungary.
9. **Ana-Maria Zăgorean**, Sebastian Isac, Anca Panaitescu, Natalia Cucu, Gheorghe Peltecu, Leon Zagrean. Modelarea epigenetică a vulnerabilității hipocampice în hipoxia-ischemia neonatală. *Conferința Națională de Neuroștiințe, Neuroinformatică, Neurotehnologie și Neuro-Psiho-Farmacologie*, Ediția a II a, Academia Română, București, 17-18 noiembrie **2017**
10. Ilesanu, M.I., Grigoras, I.F., Chitimus, D.M., Haret, R., Ionescu, R.B., Ianos, B., Ceanga, M., Zagrean, L., **Zagrean, A.M.**, The impact of intracellular chloride modulation on the cellular viability in rat primary hippocampal neuronal culture subjected to oxygen-glucose deprivation, poster presentation, P97, *FENS Featured Regional Meeting*, 20-23 September **2017**, Pecs, Hungary.
11. Paslaru AC, Stancu M, Pavel B, Zahiu CDM, Fazeli N, **Zagrean AM**, Zagrean L, Moldovan M. Rapid screening of antiepileptic drugs in a genetic absence epilepsy model by burst-suppression EEG reactivity. *FENS Featured Regional Meeting*, 20-23 September **2017**, Pecs, Hungary.
12. Ioana Georgescu, Laura Georgescu, Alexandru Șteopoaie, Denise CM Zahiu, Vlad Morozan, Adrian Pana, **Ana-Maria Zagrean**, Daniela Popa. Sensory-motor cortex connectivity alterations during dystonic motor behavior induced by intracerebellar kainic acid administration. *FENS Regional Meeting*, Pécs, Hungary, 20 – 23 September **2017**
13. Paslaru AC, Stancu M, Pavel B, Zahiu CDM, Fazeli N, **Zagrean AM**, Zagrean L and Moldovan M, Burst-suppression EEG reactivity as a tool for assessment of antiepileptic drugs treatment in a rat model of epilepsy, oral presentation, Seminar of the European College of Neuropsychopharmacology (ECNP) 2017, Tâncăbești, România, 3-5 November **2017** – 2nd Prize
14. **A.M. Zagrean**, A.M. Panaitescu, A.C. Paslaru, M. Stancu, B. Pavel, DCM. Zahiu, L. Zagrean, M. Moldovan. Electrocortical reactivity impairment after transient neonatal hypoxia is attenuated by oxytocin in rats. 10th FENS FORUM, Copenhagen, Denmark, 2-6 July **2016**

15. Paslaru A, Stancu M, Denise Z, Stoian A, Pavel B, Calin A, **Zăgrea AM**, Zăgrea L and Moldovan M, Anesthetic burst-suppression EEG reveals the electrocortical reactivity impairment following a brief global cerebral ischemia in rat, 10th FENS FORUM, Copenhagen, Denmark, 2-6 July **2016**
16. **Zăgrea AM**, Panaitescu AM, Paslaru AC, Stancu M, Pavel B, Zahiu DCM, Zăgrea L, Moldovan M. Oxytocin attenuates electrocortical reactivity impairment after transient neonatal hypoxia in rats. Poster AA219. FENS Featured Regional Meeting, Thessaloniki, Greece, 7-10 October, **2015**
17. Ilesanu, I.M., Grigoras, I.M., Chitimus, D.M., Ianosi, B., Ceanga, M., Zăgrea, L., **Zăgrea, A.M.**, Oxytocin effects on mature hippocampal cultures during oxygen-glucose deprivation and reoxygenation, FENS featured Regional Meeting, Thessaloniki, Greece, 7-10 October **2015**
18. Paslaru A, Stancu M, Denise Z, Stoian A, Pavel B, Calin A, **Zăgrea AM**, Zăgrea L, Moldovan M. Prolonged attenuation of circadian sleep rhythms after a brief global cerebral ischemia in rat, 16th Congress of the Italian Society of Neuroscience (SINS), Cagliari, Italy, 8-11 October **2015**
19. **AM. Zăgrea**, D. Zahiu, C. Acatrinei, A.C. Paslaru, A. Calin, M. Stancu, A. Stoian, S. Mirica, L. Zăgrea, M. Moldovan. Hemodynamic responses during anesthetic burst suppression patterns. FENS-3066, 6th FENS FORUM of Neuroscience, 5-9 July 2014, Milan, Italy
20. L. Zăgrea, A.C. Paslaru, D. Zahiu, B. Pavel, A.O. Constantinescu, A. Ilie, A. Calin, **A.M. Zăgrea**. Reactivity of Anesthetic Burst-Suppression EEG to Transcranial Direct Current Stimulation. FENS-2467. 6th FENS FORUM of Neuroscience, 5-9 July 2014, Milan, Italy
21. A. Paslaru, Mihai Moldovan, Alexandru Calin, D.Z. Denise Zahiu, Stefan Mirica, Mihai Ionescu, Camelia Acatrinei, Alexandru Stoian, **Ana-Maria Zăgrea**, Leon Zăgrea. Early sleep patterns alterations following a brief transient global cerebral ischemia in rats. FENS-2144. 6th FENS FORUM of Neuroscience, 5-9 July 2014, Milan, Italy
22. A. Stoian, A. Calin, D. Zahiu, A. Paslaru, M. Stancu, C. Acatrinei, A. Ilie, **A.M. Zăgrea**, L. Zăgrea, M. Moldovan. Impaired reactivity of burst-suppression EEG patterns following transient global cerebral ischemia in rat. FENS-2267. 6th FENS FORUM of Neuroscience, 5-9 July 2014, Milan, Italy
23. Leon Zăgrea, Alexandru Stoian, Bogdan David, Aldebarani Gonzalez, Alexandru Calin, Ovidiu Lucian Bajenaru, Mihaela Loghin, Andrei Ilie, **Ana-Maria Zăgrea** and Mihai Moldovan, Reactivity of burst-suppression EEG patterns following transient global cerebral ischemia in rat (abstract A-471-0031-03302), 8th FENS Forum of Neuroscience, Barcelona, July **2012**
24. Alexandru Calin, Bogdan David, Alexandra Constantinescu, Andrei Ilie, Dragos Nita, **Ana-Maria Zăgrea**, Leon Zăgrea, Mihai Moldovan, Reactivity refractoriness of anesthetic burst-suppression EEG patterns is cumulative (abstract A-471-0031-03664), 8th FENS Forum of Neuroscience, Barcelona, July **2012**
25. Alexandra O. Constantinescu, Andrei Ilie, Dragos Ciocan, Bogdan Ionut David, **Ana-Maria Zăgrea**, Leon Zăgrea, Mihai Moldovan, To burst or not to burst during electro-cortical suppression: a question of stimulus strength, anesthetic depth and bursting history, 8th World Congress of IBRO, Florence, Italy, 14-19 July **2011**
26. **Zăgrea A. M.**, Ceanga M., Spataru A., Le Duc D. & Toescu E.C. A comparative study of cellular viability assessment methods in cerebellar granule neurons cultures exposed to oxygen and/or glucose deprivation, P10627, 7th Forum of European Neuroscience, Amsterdam, July **2010**. FENS Abstr., vol.5, 016.32, 2010
27. Ceanga M., Spataru A., **Zăgrea A. M.** Oxytocin is neuroprotective against oxygen-glucose deprivation in immature hippocampal cultures, 7th Forum of European Neuroscience, Amsterdam, July **2010**. FENS Abstr., vol.5, 016.32, 2010
28. David B.I., Ciocan D., Constantinescu A.O., Ilie A., Zăgrea A.M., Zăgrea L., Moldovan M. Ischemic electrocortical suppression is delayed during deep cerebral hypothermia in rat, 7th Forum of European Neuroscience, Amsterdam, July **2010**. FENS Abstr., vol.5, 016.32, 2010
29. Serb A. F., Schiopu C., Sisu E., **Zăgrea A. M.**, Vukelic Z., Zamfir A. D., Zăgrea L. Advanced chip-based mass spectrometry reveals a specific ganglioside expression in human brain hemangioma vs. normal human brain tissue, 7th Forum of European Neuroscience, Amsterdam, July **2010**. FENS Abstr., vol.5, 016.32, 2010
30. Zăgrea L., Serb A. F., Udrescu V., Sisu E., **Zăgrea A. M.**, Belengeanu V., Vukelic Z., Zamfir A. D. Chip-based nanoelectrospray multistage mass spectrometry in neuroglycolipidomics: characterization of ganglioside composition specificity in defined regions of fetal human brain, 7th Forum of European Neuroscience, Amsterdam, July **2010**. FENS Abstr., vol.5, 016.32, 2010
31. Constantinescu A. O., Chirvasuta R., Ilie A., Barborica A., **Zăgrea A.M.**, Zăgrea L., Moldovan M. Cortical excitability changes during deep anesthesia monitored by transcranial direct current stimulation, 7th Forum of European Neuroscience, Amsterdam, July **2010**. FENS Abstr., vol.5, 016.32, 2010

32. Ceanga M., Spataru A., Vasilciu E., **Zăgrea A.-M.** The neuroprotective effect of oxytocin in immature hippocampal cultures. The 5th 'Gheorghe Marinescu' Symposium of the National Neuroscience Society of Romania, Bucharest, October 1-3, **2009**
33. Le Duc D, Spataru A, Zagren AM, Neuronal vulnerability to oxygen and glucose deprivation in a model of fetal alcohol syndrome, The 5th 'Gheorghe Marinescu' Symposium of the National Neuroscience Society of Romania, Bucharest, October 1-3, **2009**
34. **Ana-Maria Zăgrea**, Mihai Ceanga, Ana Spataru, Diana Le Duc, Emil C. Toescu. Neurone functional impairment in response to oxygen and/or glucose deprivation in primary cultures, 5th International Symposium on Neuroprotection and Neurorepair. Cerebral Ischemia and Stroke, May 17-20, **2008**, Magdeburg, Germany
35. Zăgrea L., Ciocan D., Constantinescu A.O., **Zăgrea A.M.**, Nita D.A., Moldovan M. Imaging the effect of postischemic adenosine using EEG recordings in vivo. FENS Forum. Geneva. 12-17 July, **2008**
36. Ciocan D., Ilie A., Constantinescu A. O., Mandras L., **Zăgrea A.M.**, Zăgrea L., Moldovan M. Ischemic electrocortical suppression is delayed during deep anesthesia and brain cooling. FENS Forum. Geneva. 12-17 July, **2008**
37. Constantinescu A. O., Ilie A., Ciocan D., **Zăgrea A.M.**, Zăgrea L., Moldovan M. Increased EEG delta activity during cerebral ischemia reflects adenosine A1 receptor activation. FENS Forum. Geneva. 12-17 July, **2008**
38. Ilie A., Ciocan D., Constantinescu A. O., **Zăgrea A.M.**, Nita D. A., Zăgrea L., Moldovan M. Adenosine can "shut-down" spontaneous EEG activity via A1 receptors activation. FENS Forum. Geneva. 12-17 July, **2008**
39. Ioan S., Zahiu D., Goganau I., **Zăgrea A.M.** & Braga R.I. Oxytocin reverses maternal depression after pup separation in rat", FENS Forum. Geneva. 12-17 July, 2008; FENS Abstr., vol.4, 026.11, **2008**
40. Goganau I., Zahiu D., Ioan S., Nastase A., Braga R. I. & **Zăgrea A.M.** Oxytocin induces variable changes in pain perception in human males, FENS Forum. Geneva. 12-17 July, 2008; FENS Abstr., vol.4, 189.13, **2008**
41. **Ana-Maria Zăgrea**, Ana Spataru, Radu Braga, Leon Zăgrea, Neuroprotection by ebselen and MK-801 in cerebellar granule cell cultures subjected to oxygen-glucose deprivation and reoxygenation, 10th Congress of the Romanian Society for Physiological Sciences, June 5-7, **2008**, Cluj-Napoca.
42. A. Ilie, D. Ciocan, A. M. Constantinescu, **A.M. Zăgrea**, L. Zăgrea, M. Moldovan. O modalitate de a opri activitatea electrică a creierului: activarea receptorilor A1 de adenozină. Al IV-lea Simpozion al Societatii Nationale de Neurostiinte, Bucuresti, 30-31 mai **2008**.
43. Ana Spataru, Leon Zăgrea, **Ana-Maria Zăgrea**. Studiul efectului neuroprotector al CNQX, MK-801 și nifedipinei într-un model de deprivare de oxigen și glucoza în culturile primare de neuroni cerebelari granulari. Al IV-lea Simpozion al Societății Nationale de Neurostiinte, Bucuresti, 30-31 mai **2008**.
44. A.O. Constantinescu, A. Ilie, D. Ciocan, **A.M. Zăgrea**, L. Zăgrea, M. Moldovan. Creșterea activității delta EEG din reperfuzia cerebrală ilustrează activarea receptorilor A1 de adenozină. Al IV-lea Simpozion al Societății Naționale de Neuroștiințe. București, 30-31 mai, **2008**.
45. Anca Nastase, I. Braga, Silvia Ioan, **Ana-Maria Zăgrea**, L. Zăgrea. Long-term administration of oxytocin alters sleep architecture- 6th INMED/TINS CONFERENCE, La Ciotat, 5-8 September, **2007**.
46. Andrei Ilie, Dragos Ciocan, Tudor Vladoiu, Flavia Haradja, **Ana-Maria Zăgrea**, Dragos Alexandru Nita, Leon Zăgrea, Mihai Moldovan. Endogenous adenosine A1 receptor activation delays electrocortical recovery following cerebral ischemia in vivo. The 19th National Meeting of the British Neuroscience Association, April 1-4, **2007**, Harrogate, UK
47. A. Ilie, D. Ciocan, T. Vladoiu., F. Haradja., **A.-M. Zăgrea**, D. Nita, L. Zăgrea, M. Moldovan, Adenoziina endogena întârzie revenirea activității electrocorticale după ischemia cerebrală. Simpozionul "Gheorghe Marinescu" al Societatii Nationale de Neurostiinte, 2-3 iunie, **2007**, București.
48. Radu Braga, Denise Zahiu, **Ana-Maria Zăgrea**, Leon Zăgrea. Functia integrativa a circuitelor serotonergice. Simpozionul „Gheorghe Marinescu” al Societatii Nationale de Neurostiinte - 2–3 iunie **2007**, Bucuresti.
49. A. Ilie, D. Ciocan, A.O. Constantinescu, **A.-M. Zăgrea**, D.A. Nita, L. Zăgrea, M. Moldovan. Activation of adenosine A1 receptors can disrupt electrocortical activity in vivo – SiNAPSA Neuroscience Conference 2007, Ljubljana, 5-7 October **2007**.
50. Dragos Ciocan, Andrei Ilie, **Ana-Maria Zăgrea**, Dragos Alexandru Nita, Leon Zăgrea, Mihai Moldovan. Rolul adenozei endogene in in supresia activitatii electrocorticale din timpul ischemiei cerebrale. A XXI-a Conferinta a Societatii Romane de Stiinte Fiziologice, mai **2006**, Oradea -Baile Felix
51. A. Ilie, Ciocan D., **Zăgrea A.-M.**, Nita DA., Zăgrea L., Moldovan M. Evidențierea in vivo a unui rezervor epuizabil de adenozină cerebrală. A XXI-a Conferinta a Societății Romane de Științe Fiziologice, mai **2006**, Oradea -Baile Felix

52. Leon Zăgorean, Andrei Ilie, Sînziana Avramescu, **Ana-Maria Zăgorean**, Mihai Moldovan. Ischemia cerebrală – de la experiment la tratament. A XX-a Conferință Națională a Societății Române de Științe Fiziologice, Sibiu, 26-28 mai **2005**.
53. Sînziana Avramescu, Maria Țuineag, **Ana-Maria Zăgorean**, Mihai Moldovan, Leon Zăgorean. Expresia electrocorticală a hipoperfuziei cerebrale. Al III-lea Congres al Societății de Neurologie din România, București, 18-21 mai **2005**
54. Leon Zăgorean, Andrei Ilie, Dragoș Ciocan, Dumitru Ferechide, **Ana-Maria Zăgorean**. Efectul presor al stresului termic, Al 2-lea Simpozion al Societății Naționale de Neuroștiințe, Iași, 13-14 mai **2005**.
55. **Ana-Maria Zăgorean**, Leon Zăgorean. Stresul hipoxic – inductor al toleranței sau al morții în culturi de celule. Al 2-lea Simpozion al Societății Naționale de Neuroștiințe, Iași, 13-14 mai **2005**.
56. Denise Andrei Zahiu, Radu Braga, **Ana-Maria Zagorean**, Leon Zagorean. “Inregistrari electrofiziologice in nucleul dorsal al rafeului – studiu pilot, perspective in investigarea stresului”. Second Symposia of the National Neurosciences Society of Romania, Iasi, 13-14 May **2005**. 3rd Prize
57. Maria Țuineag, Sînziana Avramescu, **Ana-Maria Zăgorean**, Dragoș Niță, Leon Zăgorean, Mihai Moldovan. Potențiale evocate vizuale în reperfuzia post ischemie cerebrală globală la șobolan. Al 2-lea Simpozion al Societății Naționale de Neuroștiințe, Iași, 13-14 mai **2005**.
58. Andrei Ilie, Dragoș Ciocan, **Ana-Maria Zăgorean**, Dragoș Niță, Leon Zăgorean, Mihai Moldovan. Cum influențează frecvența și durata stimulilor PEV la șobolan? Al 2-lea Simpozion al Societății Naționale de Neuroștiințe, Iași, 13-14 mai **2005**.
59. **Zagorean A. M.**, Moldovan M., Avramescu S., Saravan V., Zagorean L., Electro-cortical signs of early neuronal damage following transient global cerebral ischemia in rat, FENS Abstr., vol.2, A228.20, 4th FENS Forum, Lisbon, July 10-14, **2004**.
60. **Zagorean A.M.**, Iosifescu R., Zagorean L., Tolerance to hypoxia and oxygen-glucose deprivation of nervous cells in primary cerebellar granule cell cultures, The 9-th National Congress of Romanian Society of Physiological Sciences, Timisoara, June, 3-5, **2004**.
61. Zagorean L., **Zagorean A.M.**, Moldovan M., In vivo electrophysiological quantification of cerebral activity during transient cerebral ischemia, The 9-th National Congress of Romanian Society of Physiological Sciences, Timisoara, June, 3-5, **2004**.
62. Avramescu S., Moldovan M., **Zagorean A.M**, Zagorean L., “Electrocortical evaluation of neuronal damage following transient global cerebral ischemia”, International Workshop in Cell Physiology, “Transport Mechanisms Across Cell Membranes: Channels and Pumps, St.Petersburg, October, **2004**.
63. **Zăgorean A-M.**, Giurgiu M., Zăgorean L., Studiul viabilității celulare în culturi primare de neuroni expuse la hipoxie și deprivare de oxigen și glucoză, Primul Simpozion al Societății Naționale de Neuroștiințe „Investigarea electrofiziologică a sistemului nervos”, București, 8-10 octombrie **2004**.
64. Moldovan M., Spulber Ș., Saravan V., Iosifescu R., **Zăgorean A-M.**, Zăgorean L., Relația dintre aritmia respiratorie și frecvența cardiacă la șobolanul anesteziat, Primul Simpozion al Societății Naționale de Neuroștiințe „Investigarea electrofiziologică a sistemului nervos”, București, 8-10 octombrie **2004**.
65. Avramescu S., Moldovan M., **Zăgorean A-M.**, Saravan V., Zăgorean L., Detecția EEG a leziunilor ischemice cerebrale precoce, Primul Simpozion al Societății Naționale de Neuroștiințe „Investigarea electrofiziologică a sistemului nervos”, București, 8-10 octombrie **2004**.
66. Ilie, A., Baciulescu A., Nistor B., Dinescu S., **Zagorean AM.**, Zagorean L., Global cerebral ischemia – the four vessel (4VO) occlusion model, The International Workshop in Neuroscience ‘Ischemia/Hypoxia in the Brain: Experimental Methods and Basic Mechanisms’, Bucharest, September 23-25, **2003**.
67. Dinescu S., Spulber S., Saravan V., Iosifescu R., Moldovan M., **Zagorean A-M.**, Zagorean L., A brief transient ischemia reduces the electrocortical slowing following a subsequent global cerebral ischemia. The First International Conference of the National Neuroscience Society of Romania, Bucharest, September 26-27, **2003**.
68. Avramescu S., Spulber S., Saravan V., Iosifescu R., Moldovan M., Zagorean L., **Zagorean AM**. Electrocortical signs of early neuronal damage following transient global cerebral ischemia in rat. The International Workshop in Neuroscience “Ischemia/hypoxia in the brain: experimental methods and basic mechanisms” Bucharest, September 23-25, **2003**.
69. **Zagorean A-M.**, Spulber S, Moldovan M, Zagorean L., Study of ischemic tolerance in global cerebral ischemia in rat, Sixth IBRO World Congress of Neuroscience, July **2003**, Prague.
70. **Zagorean A-M.**, Braga R., Marinescu O., Moldovan M., Spulber St., and Zagorean L., EEG study of cerebral ischemic preconditioning, 34th International Congress of Physiological Sciences, Christchurch, New Zealand, **2001**.
71. **Zagorean A-M.**, Zagorean L, Popescu L. M., Winblad B., Sundstrom E., Schultzberg M., Hypoxic preconditioning exposure of primary cultures of rat cortical neurons, 34th International Congress of Physiological Sciences, Christchurch, New Zealand, aug. **2001**

72. **Zăgrea A.-M.**, Solomon A., Regalia T., and Zăgrea L. Hypoxic Treatment of Primary Cultures of Rat Cortical Neurons. 4th Conference of the Czech Neuroscience Society. Prague, **2001**.
73. Paun O., **Munteanu A.-M.**, Vatasescu R, Moldovan M., Zăgrea L., Non-linear EEG analysis in a global ischemia-reperfusion experiment, VI International Conference on Medical Physics Patras Medical Physics '99, Patras, Hellas, 1-4 September **1999**.
74. Zăgrea L., Ferechide D., Ben-Ari Y., Gaiarsa J. L., Oprică M., **Munteanu A.-M.**, Epileptogenic activity of kainic acid in both, in vitro studies and electroencephalographic recordings. The XXXII Congress of International Union of Physiological Sciences. Glasgow **1993**.

21. 01. 2020

Conf. univ. Ana-Maria Zăgrea