



Curriculum vitae

INFORMAȚII PERSONALE

Sebastian Isac, M.D., Ph.D., D.E.S.A.

Activitate clinică:

- 02/09/2022- Prezent- Medic Primar ATI, Institutul Clinic Fundeni (București- România)
- 01/05/2020- 02/09/2022- Medic Specialist ATI, Institutul Clinic Fundeni (București- România)
- 01/02/2019–01/05/2020- Medic Specialist ATI, Spitalul de Copii "Prof. Dr. V. Gomoiu (București-Romania)
- 26/07/2017–01/02/2019- Medic Specialist ATI, Spitalul Clinic Filantropia (București- România)
- 01/09/2014–01/01/2017- Medic Rezident ATI, Spitalul Clinic de Urgență (București- România)
- 01/12/2013–01/08/2014- Medic Rezident ATI, Alfried Krupp Krankenhaus (Essen-Germania)
- 01/01/2012–01/12/2013- Medic Rezident și Cercetător, Uniklinik Essen (Germania)

Activitate științifică și didactică:

- 01/03/2015- Prezent- Membru al Centrului de Cercetare Neuroștiințe, UMF Carol Davila, (București-România)
- 01/05/2023- Prezent- Coordonator cerc studențesc de cercetare ATI- Institutul Clinic Fundeni (București-România)
- 01/09/2020- 01/09/2022- Proiect postdoctoral- The impact of general anesthesia on the immature brain previously exposed to perinatal asphyxia- PN-III-P1-1.2-PD-2019-1219
- 01/02/2020- Doctor în Științe Medicale- Universitatea de Medicină și Farmacie Carol Davila București (România)- Magna cum Laude
- 01/10/2014–30/01/2019- Doctorand bursier- "Impactul dietei materne asupra encefalopatiei hypoxic-ischemice. Abordare clinică, biochimică și epigenetică- Universitatea de Medicină și Farmacie Carol Davila București (România)
- 01/10/2015–Prezent- Asistent Universitar- Disciplina Fiziologie, - Universitatea de Medicină și Farmacie Carol Davila București (România), Facultatea de Medicină
- 01/10/2006–30/09/2012- Student Facultatea de Medicină, Universitatea de Medicină și Farmacie Carol Davila București (România) (Media de absolvire: 9.98)
- 01/10/2010–01/04/2011- Bursă ERASMUS, Universitatea de Medicină și Farmacie din Viena (Austria)

Limbi străine:

-Germană (Goethe Zertifikat-2011, Österreichisches Sprachdiplom-2010)- nivel B2

-Engleză (IELTS 2008)- nivel B2

Capacități de comunicare:

- flexibilitate și comunicare eficiente, perfecționate pe parcursul pregătirii doctorale
- capacitate excelentă de comunicare cu pacienții, perfecționată pe parcursul pregătirii clinice

Informații adiționale:**Premii și distincții:**

- 26.01.2019- Susținere teză de doctorat (Domeniu: Fiziologie și Neuroștiințe)- *Magna cum Laude* (<https://umfcd.ro/sustinere-teza-drd-isac-i-sebastian/>)
- 01.04.2017- Diplomat al Societății Europene de Anestezie și Terapie Intensivă (D.E.S.A.)
- 01.09.2011 – Susținere teză de licență- Anestezia regională a membrului superior

Cursuri:

- 01.05.2016- 10.05.2016- Curs de Ultrasonografie in ATI- Hannover (Germania)
- 01.10.2014-30.06.2015- Curs de Pedagogie- București (România)
- 01.10.2014-30.06.2015- Curs de Bioetică în Cercetare Medicală-București (România)
- 01.03.2015-08.03.2015- Curs de Ecografie Transesofagiană- Duesseldorf (Germania)
- 06.2013-10.2013- Curs de Anestezie Regională- Neumarkt (Germania)
- 01.05.2012-20.05.2012- Curs de Medicină de Urgență- Essen (Germania)
- 01.12-30.12.2007- Curs de Biostatistică- București (România)

Proiecte:

-01.12.2014- 01.12.2015- Program Operațional Sectorial de Dezvoltare a Resurselor Umane (POSDRU), proiect 187/1.5/S/156069- Research 62- PhD studies in European context

-01.09.2020-31.08.2022- Proiect postdoctoral- PN-III-P1-1.2-PD-2019-1219: IMPACTUL ANESTEZIEI GENERALE ASUPRA CREIERULUI IMATUR EXPUS ANTERIOR ASFIXIEI PERINATALE. <https://umfcd.ro/cercetare-si-dezvoltare/proiecte/proiecte-nationale/pn-iii-p1-1-2-pd-2019-1219-impactul-anesteziei-generale-asupra-creierului-imatur-expus-anterior-asfixiei-perinatale/>

Conferințe (enumerare selectivă)

-Oxidative Stress Induced By Organic Mercury Exposure. Cobilinschi, C., A-M. Cotaș, I. Florea, S. Isac, R. Ungureanu, L. Mirea, R. C. Țincu, and I. M. Grințescu. Clinical Nutrition ESPEN, 2023.

-Maternal diet alters the hippocampus epigenetic pattern in perinatal asphyxia. FENS Regional Meeting, Belgrade, 2019

-The epigenetic transgenerational effect of maternal diet on offspring brain development in an animal model of perinatal asphyxia. Joint Event on annual epigenetics conference & International Conference on mechatronics, automation and systems engineering. Tokio 2018

-Citicoline supplemented maternal diet protects the offspring hippocampus in perinatal asphyxia in rat. The 9th Conference of the National Neuroscience Society of Romania, Bucharest, 2018

-The preventive effect of trans-resveratrol supplemented maternal diet on the hippocampal damage after perinatal asphyxia in rats. Medical International Conference for Students and Young Doctors, Bucharest, Romania, 2017

-The neuroprotective effect of trans-resveratrol enriched maternal diet in immature hippocampus exposed to perinatal asphyxia. The 8th Conference of the National Neuroscience Society of Romania, Bucharest, 2017

-Neuroprotective effect of oxytocin during in vivo neonatal hypoxia/hypercapnia in rats. Physiology 2016- Joint Meeting of the American Physiological Society and the Physiological Society. Dublin, 2016

-A novel biochemical and epigenetic approach quantifying the hippocampus injury after perinatal asphyxia in rats. The 7th Conference of the National Neuroscience Society of Romania, Bucharest, 2016

-Mild and severe perinatal asphyxia- an experimental model in rat. The 6th Conference of the National Neuroscience Society of Romania, Bucharest, 2015

Publicații științifice

1. Articole WOS cu IF (autor principal)

-**Sebastian Isac**, Anca Maria Panaitescu, Ana Spataru, Mara Iesanu, Alexandra Totan, Amalia Udriste, Natalia Cucu, Gheorghe Peltecu, Leon Zagrean, Ana-Maria Zagrean. Trans-resveratrol enriched maternal diet protects the immature hippocampus from perinatal asphyxia in rats, Neuroscience Letters, 2017, 653: 308-313, <https://doi.org/10.1016/j.neulet.2017.06.003>.

-Panaitescu AM, **Isac S**, Pavel B, Ilie AS, Ceanga M, Totan A, Zagrean L, Peltecu G, Zagrean AM. OXYTOCIN REDUCES SEIZURE BURDEN AND HIPPOCAMPAL INJURY IN A RAT MODEL OF PERINATAL ASPHYXIA, *Acta Endocrinol (Buchar)*, 2018, Volume 14(3): 315-319, <https://doi.org/10.4183/aeb.2018.315>.

-**Sebastian Isac**, Anca Maria Panaitescu, Mara Iesanu, Ioana Florentina Grigoras, Alexandra Totan, Amalia Udrist, Natalia Cucu, Gheorghe Peltecu, Leon Zagrean, Ana-Maria Zagrean. Maternal High-Fat Diet Modifies the Immature Hippocampus Vulnerability to Perinatal Asphyxia in Rats, *Neonatology*, 2018, 114 (4): 355-361, <https://doi.org/10.1159/000491383>

-Andrei, S., **Isac, S.**, Carstea, M., Martac, C., Mihalcea, L., Buzatu, C., Ionescu, D., Georgescu, D. E., Droc, G. Isolated liver trauma: A clinical perspective in a non-emergency center for liver surgery, *Experimental and Therapeutic Medicine*, 2022, 23:39, <https://doi.org/10.3892/etm.2021.10961>

-Jipa, Miruna, **Sebastian Isac**, Artsiom Klimko, Mihail Simion-Cotorogea, Cristina Martac, Cristian Cobilinschi, and Gabriela Droc. Opioid-Sparing Analgesia Impacts the Perioperative Anesthetic Management in Major Abdominal Surgery, *Medicina*, 2022, 58(4): 487. <https://doi.org/10.3390/medicina58040487>

-**Sebastian Isac**, Anca Maria Panaitescu, Mara Ioana Iesanu, Vlad Zeca, Natalia Cucu, Leon Zagrean, Gheorghe Peltecu, Ana-Maria Zagrean. Maternal Citicoline-Supplemented Diet Improves the Response of the Immature Hippocampus to Perinatal Asphyxia in Rats, *Neonatology*, 2021, 117(6): 729-735, <https://doi.org/10.1159/000512145>

-Isac, T., **Isac, S.**, Rababoc, R., Cotorogea, M., Iliescu, L. Epigenetics in inflammatory liver diseases: A clinical perspective (Review), *Experimental and Therapeutic Medicine*, 2022, 23(5): 366, <https://doi.org/10.3892/etm.2022.11293>

-**Sebastian Isac**, Bogdan Pavel, Maria Dobre, Elena Milanese, Irina-Mihaela Matache, Raul-Mihai Paun, Artsiom Klimko, Mara Ioana Iesanu, Gabriela Droc, and Ana-Maria Zagrean. Does a Single Exposure to General Anesthesia Have a Cumulative Effect on the Developing Brain after Mild Perinatal Asphyxia?, *Life*, 2022, 10: 1568, <https://doi.org/10.3390/life12101568>

-Buzatu, Georgiana-Cristina, Florin-Teodor Bobirca, **Sebastian Isac**, Oana Antonia Mihalache, Mihail Cotorogea-Simion, Alina Tita, Cristian Cobilinschi, Maria Daniela Tanasescu, Anca Bobirca, and Gabriela Droc. The Cumulative Detrimental Effect of COVID-19 Pneumonia in a Patient with Myasthenic Crisis: A Case Report and Overview of the Literature, *Life*, 2022, 12(10): 1482, <https://doi.org/10.3390/life12101482>

-Cotorogea-Simion, Mihail, **Sebastian Isac**, Alina Tita, Letitia Toma, Laura Elena Iliescu, Adriana Mercan-Stanciu, Teodora Isac, Anca Bobirca, Florin Bobirca, Cristian Cobilinschi, and et al. Mesenteric Ischemia in a Patient with Essential Thrombocythemia: Does COVID-19 Play Any Role? A Case Report and Overview of the Literature, *Medicina*, 2022, 58(9): 1147 <https://doi.org/10.3390/medicina58091147>

-Cotorogea-Simion, Mihail, Bogdan Pavel, **Sebastian Isac**, Teodora Telecan, Irina-Mihaela Matache, Anca Bobirca, Florin-Teodor Bobirca, Razvan Rababoc, and Gabriela Droc. What

Is Different in Acute Hematologic Malignancy-Associated ARDS? An Overview of the Literature, *Medicina*, 2022, 58(9): 1215, <https://doi.org/10.3390/medicina58091215>

-Droc, Gabriela, Maria Camelia Stancioaica, Corina Gabriela Soare, Mihai-Gabriel Stefan, Daiana Ingustu, Cristina Martac, Daniel Coriu, **Sebastian Isac**, Nicolae Suci, and Stefan Andrei. Acute Promyelocytic Leukemia and Severe Differentiation Syndrome in Pregnancy—A Management Challenge, *Life*, 2023, 13(5): 1141, <https://doi.org/10.3390/life13051141>

-Droc, Gabriela, Cristina Martac, Cristina Georgiana Buzatu, Miruna Jipa, Maria Daniela Punga, and Sebastian Isac. Orthotopic Liver Transplantation of a SARS-CoV-2 Negative Recipient from a Positive Donor: The Border between Uncertainty and Necessity in a Pandemic Era- Case Report and Overview of the Literature, *Medicina*, 2023, 59(5): 836, <https://doi.org/10.3390/medicina59050836>

-Ingustu, Daiana-Georgiana, Bogdan Pavel, Silvia-Ioana Paltineanu, Diana-Irene Mihai, Mihail Cotorogea-Simion, Cristina Martac, Madalina-Marieta Florescu, Cristian Cobilinschi, **Sebastian Isac**, and Gabriela Droc. The Management of Postoperative Cognitive Dysfunction in Cirrhotic Patients: An Overview of the Literature, *Medicina*, 2023, 59(3): 465, <https://doi.org/10.3390/medicina59030465>

-Droc, Gabriela, and **Sebastian Isac**. Perioperative Care in Patients with Chronic Liver Disease: What Can We Do More?, *Medicina*, 2023, 59(2): 384, <https://doi.org/10.3390/medicina59020384>

2. *Articole WOS cu IF (co-autor)*

-Ana-Maria Zagrean, **Sebastian Isac**, Anca Maria Panaitescu, Mara Iesanu, Amalia Udriste, Natalia Cucu, Alexandra Totan, Gheorghe Peltecu, Leon Zagrean. EPIGENETIC SHAPING OF HIPPOCAMPAL VULNERABILITY IN PERINATAL ASPHYXIA IN RAT, *Ro. J. Neurol*, 2017, 16(2): 9-14, <https://doi.org/10.37897/RJN.2017.S2.1>

-Iesanu, Mara Ioana, Carmen Denise Mihaela Zahiu, Ioana-Alexandra Dogaru, Diana Maria Chitimus, Gratiela Gradisteanu Pircalabioru, Suzana Elena Voiculescu, Sebastian Isac, Felicia Galos, Bogdan Pavel, Siobhain M. O'Mahony. Melatonin–Microbiome Two-Sided Interaction in Dysbiosis-Associated Conditions, *Antioxidants*, 2022, 11: 2244, <https://doi.org/10.3390/antiox11112244>

-Andrei S, **Isac S**, Jelea D, Martac C, Stefan MG, Cotorogea-Simion M, Buzatu CGS, Ingustu D, Abdulkareem I, Vasilescu C, Filipescu D, Droc G. COVID-19 Pandemic Was Associated with Lower Activity but Not Higher Perioperative Mortality in a Large Eastern European Center, *Med Sci Monit*, 2022, 28:e935809, <https://doi.org/10.12659/MSM.935809>

-Isac, T., **Isac, S.**, Ioanitescu, S., Mihaly, E., Tanasescu, M., Balan, D. G., Tulin, A., Ilescu, L. Dynamics of serum α -fetoprotein in viral hepatitis C without hepatocellular carcinoma, *Experimental and Therapeutic Medicine*, 2021, 22(1): 749, <https://doi.org/10.3892/etm.2021.10181>

-Bobirca, Florin, Catalin Gabriel Smarandache, Anca Bobirca, Cristina Alexandru, Dan Dumitrescu, Anca Pantea Stoian, Cristina Bica, Lacramioara Aurelia Brinduse, Anca Musetescu, Daniela-Elena Gheoca-Mutu, Sebastian Isac, Ioan Ancuta. The Outcome of

Surgical Treatment for the Neuropathic Diabetic Foot Lesions—A Single-Center Study, *Life*, 2022, 12(8): 1156, <https://doi.org/10.3390/life12081156>

-Bobircă, Anca, Anca Emanuela Musetescu, Anca Bordianu, Anca Pantea Stoian, Teodor Salmen, Dan-Cristian Marinescu, Cristina Alexandru, Alesandra Florescu, Raluca Radu, **Sebastian Isac**, and et al. Novel Biomarkers Predictive of Diabetic Charcot Foot—An Overview of the Literature, *Life*, 2022, 12(11): 1944. <https://doi.org/10.3390/life12111944>

-Bobirca, Anca, Cristina Alexandru, Anca Emanuela Musetescu, Florin Bobirca, Anca Teodora Florescu, Magdalena Constantin, Tiberiu Tebeica, Alesandra Florescu, **Sebastian Isac**, Mihai Bojinca, and et all. Anti-MDA5 Amyopathic Dermatomyositis—A Diagnostic and Therapeutic Challenge, *Life*, 2022, 8: 1108, <https://doi.org/10.3390/life12081108>

-Tincu, Radu Ciprian, Cristian Cobilinschi, Iulia Alexandra Florea, Ana-Maria Cotae, Alexandru Emil Băetu, **Sebastian Isac**, Raluca Ungureanu, Gabriela Droc, Ioana Marina Grintescu, and Liliana Mirea. Effects of Low-Level Organic Mercury Exposure on Oxidative Stress Profile, *Processes*, 2022, 10(11): 2388. <https://doi.org/10.3390/pr10112388>

-Sandru, Stefan, Dan Buzescu, Carmen Denise Mihaela Zahiu, Ana Spataru, Anca Maria Panaitescu, **Sebastian Isac**, Cosmin Ion Balan, Ana-Maria Zagrean, and Bogdan Pavel. Near-Infrared Spectroscopy Usefulness in Validation of Hyperventilation Test, *Medicina*, 2022, 58(10): 1396, <https://doi.org/10.3390/medicina58101396>

-Cobilinschi, Cristian, Radu Țincu, Raluca Ungureanu, Ioana Dumitru, Alexandru Băetu, **Sebastian Isac**, Claudia Oana Cobilinschi, Ioana Marina Grințescu, and Liliana Mirea. Toxic-Induced Nonthyroidal Illness Syndrome Induced by Acute Low-Dose Pesticides Exposure—Preliminary In Vivo Study, *Toxics*, 2022, 10(9): 511, <https://doi.org/10.3390/toxics10090511>

- Bogdan Nitescu, Bogdan Pavel, Irina Andra Tache, Ioana Anastasia Pop, Cosmin Ion Balan, Stefan Sorin Arama, Sebastian Isac, Adrian Streinu-Cercel, Talapan Daniela, Pitigoi Daniela, Victoria Arama. PREDICTIVE VALUES OF PRESEPSIN AND C-REACTIVE PROTEIN ON PROGNOSIS IN SEVERE BURNS, *Farmacia*, 2023, 71(3): 511-517, <https://doi.org/10.31925/farmacia.2023.3.8>

3. *Articole WOS fara IF*

-Teodora Isac, Gabriela Droc, Artsiom Klimko, Mihail Cotorogea-Simion, Maria Dobre, Elena Milanese, Natalia Cucu, Andra-Elena Balcangiu-Stroescu, Laura Iliescu, **Sebastian Isac**. Epigenetic Modulation in Viral Hepatitis C Infected Patients after Successful Therapy, *Biointerface Research in Applied Chemistry*, 2023, 13(3):213

-Mihalcea Lucian, **Sebastian Isac**, Simion-Cotorogea Mihail, Klimko Artsiom and Droc Gabriela. Reverse Takotsubo cardiomyopathy after orthotopic liver transplantation. A case report, *The Journal of Critical Care Medicine*, 2022, 8(2): 117-122, <https://doi.org/10.2478/jccm-2022-0002>

-Daniela G. Bălan, Filip Calangiu, Georgiana Tănase, Raluca Tulin, **Sebastian Isac**, Dragoș E. Georgescu, Dorin Dragoș, Claudia Cobilinschi, Liviu V. Chiperi, Dorin Ionescu, Andra E. Balcangiu-Stroescu, Amalia L. Călinoiu, Adina Rusu, Ileana A. Văcăroiu. Etiology of Chronic Kidney Disease and Comorbidities in Chronic Hemodialysis Patients, *Romanian*

Journal of Military Medicine, 2023, 126(2): 153-159,
<https://doi.org/10.55453/rjmm.2023.126.2.5>

-Daniela Rădulescu, Filip Perde, Cristiana David, Gabriela E. Lupușoru, Mircea O.D. Lupușoru, Florentina R. Tulin, Dorin Ionescu, Amalia L. Călinoiu, **Sebastian Isac**, Ileana A. Văcăroiu. Diagnosis of Chronic Kidney Disease in the Elderly – A Challenge for the Practitioner, Romanian Journal of Military Medicine, 2023, 126(2): 227-233

-Punga D, Isac S, Paraipan C, et al. Impact of COVID-19 Infection on Liver Transplant Recipients: Does It Make Any Difference?, Cureus, 2022, 14(2): e22687,
<https://doi.org/10.7759/cureus.22687>

4. Articole BDI

-Bălan, Daniela-Gabriela; Avino, Adelaida; Mutu, Daniela-Elena Gheoca; Gaube, Alexandra; Neagu, Alexandra; Tulin, Raluca; **Isac, Sebastian**; Georgescu, Dragoș Eugen; Dragoș, Dorin; Cobilinschi, Claudia; Chiperi, Liviu Vasile; Ionescu, Dorin; Balcangiu-Stroescu, Andra-Elena; Călinoiu, Amalia Loredana; Văcăroiu, Ileana Adela. CORRELATION DEPENDING ON AGE BETWEEN SALIVA AND PLASMA PARAMETERS, Internal Medicine / Medicina Interna . 2022, 19(4): 27-35, <https://doi.org/10.2478/inmed-2022-0226>

-Văcăroiu, Ileana Adela; Calangiu, Filip; Tănase, Georgiana; **Isac, Sebastian**; Georgescu, Dragoș Eugen; Dragoș, Dorin; Cobilinschi, Claudia; Chiperi, Liviu Vasile; Ionescu, Dorin; Balcangiu-Stroescu, Andra-Elena; Călinoiu, Amalia Loredana; Tulin, Raluca; Bălan, Daniela -Gabriela. BIOMARKERS INVOLVED IN THE MINERAL-BONE DISORDERS SECONDARY TO CHRONIC HEMODIALYSIS, Internal Medicine / Medicina Interna, 2022, 19(4):17-25, <https://doi.org/10.2478-inmed-2022-0225>

-Georgescu, Dragoș-Eugen, Vacaroiu, Ileana Adela, Mincă, Alexandru, Maria-Daniela, Tanasescu, Droc, Gabriela, **Isac, Sebastian**, Tulin, Florentina-Raluca, Michire, Alexandru, Georgescu, Mihai-Teodor, Ionescu, Dorin, Bogdan, Caraban and Georgescu, Teodor-Florin. How COVID-19 Pandemics Changed the Treatment Protocols for Patients with Gynecological Tumors, ARS Medica Tomitana, 2021, 27(1): 50-57,
<https://doi.org/10.2478/arism-2021-0010>

Apartenențe la societăți de profil

2015- prezent- Membru al Societății Europene de Anestezie și Terapie Intensivă (E.S.A)

2014- prezent- Membru al Societății Române de Neuroștiințe

2021- prezent- Cenzor al Societății Române de Neuroștiințe

2016-prezent- Membru al Societății Române de Anestezie și Terapie Intensivă (S.R.A.T.I.)

01.07.2023