

PERSONAL INFORMATION



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 MRI
 Sex Male | Date of birth 29/03/1984 | Nationality Romanian



WORK EXPERIENCE

September 2018 – now

February 2017 – now

Research Affiliate

Research Department, LAIF Science, USA (www.laifscience.com)

Research Scientist

International Institute for the Advanced Studies of Psychotherapy and Applied Mental Health, Department of Clinical Psychology and Psychotherapy from Babes-Bolyai University (BBU), Cluj-Napoca, Romania (<http://psychotherapy.psiedu.ubbcluj.ro/>)

- Various fMRI and Clinical MRI studies for different psychopathologies and clinical pathologies.
- Develop and implement new pulse sequences and new protocols for improving the existing/standard techniques and protocols of fMRI and Clinical MRI in order to obtain a better and earlier image signature of tissue microstructure.
- Perfusion and Diffusion MRI studies on cancer tumours with specific mutation status and their correlation with tissue histopathology and with different associate psychological profiles.
- Assess the differences between relapses and pseudo-relapses tumours on the brain in correlation with the tissues histopathology and the associate psychological profile using various MRI techniques.
- Explore various prognostics related with progression-free survival and overall survival of various tumour types in comparison with their histopathology and the observed psychological profiles.
- Various fMRI and Clinical MRI studies for appraising the psychological and clinical features, their correlation with tissues histopathology and various psychological profiles and for assessing the outcome responses to various/new psychotherapies and clinical therapies.

Business or sector Research

March 2014 – March 2016

Postdoctoral Scholar

David Geffen School of Medicine, Radiological Sciences Department from University of California Los Angeles (UCLA), UCLA Brain Tumour Imaging Laboratory (BTIL) and Center for Computer Vision and Imaging Biomarkers (CVIB), Los Angeles, United States of America (<http://radiology.ucla.edu/>)

- Review the novel Magnetic Resonance Imaging techniques used for brain tumours studies in order to establish further key directions of research required to be elucidated for a more accurate image diagnostic and a better assessment of treatment response.
- Develop and implement novel NMR and MRI pulse sequences on various scanners and protocols in order to achieve an improved Micro-Structural analysis through new Magnetic Resonance Imaging and NMR techniques required for a better and earlier image signature detection of various human diseases.
- Diffusion and Perfusion MRI studies of brain tumours with specific mutation status.
- Assess the distinction between recurrence and pseudo-recurrence of brain tumours through various MRI techniques.
- Explore various prognostics related with progression-free survival and overall survival of various brain tumour types through different MRI techniques.
- Test and assess clinical characteristics and responses to various specific novel therapies through various MRI techniques.

Business or sector Research

March 2012 – February 2014

Postdoctoral Research Fellow

Magnetic Resonance Imaging Research Centre, Physics Department, University of New Brunswick (UNB), Fredericton, Canada (www2.unb.ca/mri/)

- The research project funded by Natural Sciences and Engineering Research Council (NSERC) of Canada, Idea to Innovation grand, PIN 108657: Spatially Resolved T₂ Mapping of Petroleum Reservoir Core Analysis.
 - Develop new MRI techniques for core analysis, for implementing T₂ mapping experiments and for MRI data processing.
 - Develop, assess and optimize various theories and experimental implication for NMR and MRI signal analysis.
 - Teach various NMR laboratories to several MS students and PhD students.
- Business or sector** Research and education.

October 2011 – February 2012

Research Assistant

NMR Diffusometry and Relaxometry Laboratory from Department of Physics and Chemistry, Technical University of Cluj-Napoca, Cluj – Napoca (Romania) (<http://nmr.utcluj.ro/>)

- Research project supported by UEFISCDI, PN2-IDEAD-305/2011 entitled: The Surface Effects on the Dynamics of Molecules Confined Inside Porous Media with Magnetic Impurities.
- NMR studies of porous media, and numerical simulation.
- Teach various NMR techniques to PhD students.

Business or sector Research and education.

October 2011 – February 2012

Physics Teacher

Pro Deo Theoretic High school, Cluj – Napoca, Romania

- Teach Physics classes according with the curriculum established by the Ministry of Education and Research for high school classes.

Business or sector Education

October 2010 – February 2012

Counsellor - Volunteer

National Administration of Penitentiaries, Aiud Penitentiary, Alba, Romania

- Counsel detainees from the Maximum Safety Regime and from the Restraint and Semi-restraint Regime.

Business or sector European Union Program

January 2008 – September
2008

Cashier

Transylvania Bank, Cluj – Napoca, Romania

- Responsible for receipts and payments, foreign exchanges and also cash deposits and withdrawals.

Business or sector Banking.

July 2006 – August 2006

Volunteer

Speranta Studio, Cluj – Napoca, Romania

- Recording music on cassettes/tapes.

Business or sector Business.

July 2005 – August 2005

Seasonal Worker

Six Flags New England, Agawam, Massachusetts, United States of America

- Maintenance.

Business or sector Business.

July 2004 – August 2004

Seasonal Worker

Perfetty Van Melle, Cluj – Napoca, Romania

- Sugar confectioner.

Business or sector Business.

EDUCATION AND TRAINING

1 October 2022 –

Master Studies in Applied Pentecostal Theology

Pentecostal Theological Institute (<https://www.itpbucuresti.ro/>)

17 – 21 November 2017

FSL Course – Certification

Welcome Centre For Integrative Neuroimaging, University of Oxford, held at Adelaide Health & Medical Sciences Building, University of Adelaide, Australia

August 2017 – September 2017	<p>(https://fsl.fmrib.ox.ac.uk/fslcourse/australia2017.html)</p> <ul style="list-style-type: none"> ▪ Functional MRI: GLM analysis, including Bayesian multi-subject statistics (FEAT); ICA Model-free analysis, functional connectivity (MELODIC). ▪ Structural MRI: Image registration and unwarping (FLIRT/FNIRT/FUGUE & BBR); Brain extraction and tissue-type segmentation (BET/FAST); Structural spatial statistical analysis e.g. atrophy (SIENA/FSL-VBM); Automatic subcortical segmentation/alignment (FIRST) ▪ Diffusion MRI: Probabilistic diffusion modelling and tractography, including crossing-fibres (FDT); Diffusion tensor fitting and voxelwise multi-subject analysis (DTIFIT/TBSS); Correction for motion, distortions and eddy-current effects (TOPUP/EDDY). ▪ Resting-State Networks and Connectivity: Resting-State functional MRI analysis (dual regression); Functional and structural connectivity analysis. <p>Principles of fMRI 2 - Certification</p> <p>Johns Hopkins University and University of Colorado Boulder on Coursera (https://www.coursera.org/account/accomplishments/certificate/4QPE3A8Q92GJ)</p> <ul style="list-style-type: none"> ▪ Psychological and behavioural inference, as well as advanced experimental designs. ▪ Advanced GLM modelling. ▪ Brain connectivity. ▪ Multi-voxel pattern analysis.
June 2017 – July 2017	<p>Principles of fMRI 1 - Certification</p> <p>Johns Hopkins University and University of Colorado Boulder on Coursera (https://www.coursera.org/account/accomplishments/certificate/C5ZKGM4MPBBG)</p> <ul style="list-style-type: none"> ▪ Introduction to fMRI, data acquisition and reconstruction. ▪ fMRI signal, experimental design and pre-processing. ▪ General Linear Model and group-level analysis. ▪ Family-Wise Error Rate (FWER), False Discovery Rate (FDR) and multiple comparisons.
20 October 2014 – 24 October 2014	<p>Intensive training course: Integrated Development Environment for Applications (IDEA) Sequence Programming (MR&SDE)</p> <p>Siemens Training and Development Centre, North Carolina, United States of America</p> <ul style="list-style-type: none"> ▪ Intensive training for developing by programming in C++ novel pulse sequences used for imaging by MRI for Siemens scanners.
March 2014 – February 2016	<p>Various trainings within UCLA Health System</p> <p>UCLA, David Geffen School of Medicine, Radiological Sciences Department, Los Angeles, California, United States of America</p> <ul style="list-style-type: none"> ▪ HIPPA Privacy and Information Security training for New Workforce Members ▪ University of California Cultural Diversity Training ▪ University of California Annual Education Training ▪ University of California Annual Education Training for Clinical Employees ▪ University of California CICARE Annual On-line Training ▪ University of California Code of Conduct Training ▪ University of California Employee Emergency Action Plan Awareness Training ▪ Bruin Safety Program, Fire Diamond, Earthquake Safety, Fire Safety, Hazard Communication, Safe Lifting/Injury Prevention ▪ Lab Safety Fundamentals, Medical Waste Management, Bloodborne Pathogens ▪ CITI Certification (IRB) ▪ Research HIPPA ▪ MR Safety Course
October 2008 – September 2011	<p>PhD in Materials Engineering EQF level 8</p> <p>Technical University of Cluj – Napoca, Cluj – Napoca, Romania (https://www.utcluj.ro/en/)</p> <ul style="list-style-type: none"> ▪ Ph.D. Thesis: NMR Studies of Molecular Dynamics under Confinement Conditions in Polymeric Micro-capsules. ▪ Financial supported by European Social Fund (project POSDRU/6/1.5/S/5): Development Project of Human Resources through Doctoral Studies in Advanced Technologies. ▪ Synthetizing polymeric microcapsules. ▪ Loading polymeric microcapsules with various active substances.
January 2010 – April 2010	<p>Visiting Researcher</p> <p>NMR Research Centre, Institut für Physik, Fachgebiet Technische Physik II/Polymerphysik, Fakultät für Mathematik und Naturwissenschaften, Technical University from Ilmenau, Germany</p>

- [\(http://www.tu-ilmenau.de/techphys2/mitarbeiter/\)](http://www.tu-ilmenau.de/techphys2/mitarbeiter/)
- NMR studies on polymeric microcapsules used for controlled drug delivery.
 - Fast Field Cycling NMR.
- October 2006 – February 2008 **Master Studies in Complex Molecular Systems** EQF level 7
 Department of Biomedical Physics, Faculty of Physics, Babes – Bolyai University, Cluj – Napoca, Romania (http://phys.ubbcluj.ro/index_en.htm)
- March 2007 – July 2007 **Research Traineeship**
 French National Centre for Scientific Research – CREATIS-LRMN from Université Claude Bernard Lyon 1, Lyon, France (<https://www.univ-lyon1.fr/en/home-759942.kjsp>)
- Various Array Coil used for MR Imaging System: Implementation and Evaluation.
- October 2002 – September 2006 **Bachelor in Medical Physics** EQF level 6
 Long – Term Higher Education, Department of Medical Physics, Faculty of Physics, Babes-Bolyai University, Cluj – Napoca, Romania (http://phys.ubbcluj.ro/index_en.htm)
- Testing various RF array coils and analysing their image resolution on MRI scanners.
- October 2002 – February 2007 **Bachelor in Economics** EQF level 6
 Long – Term Higher Education, Department of Agricultural and Food Processing Economy, Faculty of Economics and Business Administration, Babes-Bolyai University, Cluj-Napoca, Romania (<https://econ.ubbcluj.ro/en/>)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Outstanding communication skills gained from my Postdoctoral Fellow and Postdoctoral Scholar experiences, being responsible for organizing different meetings in order to establish the research activities and directions.
- Excellent interaction skills acquired through interaction with students and different teachers both as a Physics teacher and as a Researcher.

Organisational / managerial skills

- Managerial skills obtained as a member in Management Committee of Glioma MR Imaging 2.0 CA 18206, COST Action.
- Superior organizational skills acquired as a result of organizing various meetings between different departments of the University of California Los Angeles (UCLA from USA) and other collaborating Institutions in order to assess, establish and implement various current of future research projects.
- Exceptional organizational and leadership skills acquired both as a teacher (responsible for organizing teaching activity) and as a Researcher (responsible for planning, development, implementation and supervision of various research projects).

Job-related skills

- Powerful Researcher and experimentalist in the field of MRI, fMRI and both diffusion and relaxation phenomena experienced by NMR.
- High quality mentor: (a) as a researcher I was responsible for mastering PhD and master students at various prestigious Universities, both in Romania and abroad; (b) as a Physics Teacher I was responsible for educating high school students; (c) as a Counsellor, I was responsible for counselling several detainees detained in the Maximum Security Regime, respectively in the Restraint and Semi-restraint Regime, in Aiud Penitentiary, within the National Penitentiary Administration, Romania.
- Very good experience on different NMR spectrometers and various MRI scanners (e.g. Siemens, General Electric and Bruker MRI scanners, MARAN Ultra NMR, Mini-spec and Bruker spectrometers).
- The scientific interest includes:
 - Developing new techniques and applications of Nuclear Magnetic Resonance.
 - Developing new techniques and applications of Magnetic Resonance Imaging (MRI).

- Developing new techniques and applications of Functional MRI.
- Clinical MRI studies on various cancerous brain tumours as well as clinical studies focused on brain functionality (through fMRI).
- Molecular dynamics studies on various molecules confined in different porous media (environments).
- Diffusion processes experimented in various environments, tested by different NMR and MRI techniques.
- MRI studies on different biological systems.
- Advanced MRI techniques applied on brain tumour cells, on brain structure and activity and other microstructures.
- Diffusion and perfusion MRI.

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

- High experience with Siemens, Bruker and General Electric (GE) MRI scanners, and also in various platforms used for developing novel RF pulse sequences used by those MRI scanners (e.g. IDEA platform for Siemens MRI scanners).
- Excellent knowledge for using various software used for analysing and processing various experimental data (Image J, Mathcad, Sigma Plot, Origin, Fox Pro, Osirix, Prism, etc.)
- Experience in programming in few programming languages (C++, Microsoft Visual Studio, Matlab, Python, IDL, Fortran, etc.)
- Very good command of office suite (word processor, spread sheet, presentation software).
- Very good command of photo editing software gained as an amateur photographer.

Other skills

- Passionate by science.
- Passionate reader.
- Amateur musician (I play clarinet, piano and accordion).

Driving licence

AM, B1, B, C1, C, BE, C1E, CE

ADDITIONAL INFORMATION

Publications

Presentations and conferences

- 16 scientific papers – 8 as the first author.
- 11 attendances (including oral presentations) – 9 as the first author.

Honours and awards

- STSM Coordinator (<https://glimr.eu/post/ruben-nechifor-is-our-new-stsm-coordinator/>) and Core Leadership member (<https://glimr.eu/about/core-leadership/>) within the Glioma MR Imaging 2.0, COST Action, CA 18206, 2021 – 2023
- Nominalized as Researcher of the Month by the Scientific Committee of the Glioma MR Imaging 2.0, COST Action, CA 18206, 2021 (<https://glimr.eu/post/researcher-of-the-month-6/>)
- Member of Management Committee and Romanian Representative for Glioma MR Imaging 2.0, COST Action, CA 18206, 2019 – 2023 (<https://glimr.eu/about/management-committee/>)
- Up to 130.000 EURO/year for 4 years, Glioma MR Imaging 2.0, COST Action, CA 18206, 2019-2023
- CAD 42,000/year for 2 years, Canada NSERC PIN 108657, Idea to Innovation, MRI Research Centre, University of New Brunswick, Canada, 2012-2014
- Summa Cum Laude distinction obtained at my Public Defence of my Ph.D. Thesis at Technical University of Cluj – Napoca from Cluj – Napoca, România, 2011
- EUR 10,000/year for 3 years, European Fund Scholarship, Project of Doctoral Studies Development in Advanced Technologies, POSDRU/6/1.5/S/5 ID 7676, 2008 – 2011
- Visiting Researcher Scholarship, Technical University from Ilmenau, Germany, 2010
- M.S. awarded with high honors, Babeş – Bolyai University, România, 2007 – 2008
- Socrates – Erasmus Scholarship for 5 months at Université Claude Bernard Lyon 1, France, 2007
- Student Scholarship at Babeş – Bolyai University, România, 2002-2006
- International Society of Magnetic Resonance in Medicine (ISMRM)

- Memberships of scientific societies**
- Romanian College of Medical Physicists – Colegiul Fizicienilor Medicali din România.
 - International Organization of Medical Physics (IOMP)
 - European Federation of Medical Physics Organizations (EFOMP)
 - European Society of Radiotherapy and Oncology (ESTRO)
- Reviewing activities**
- Reviewer within the Israel Science Foundation, Israel (2023)
 - Review panel member, UEFISCDI, Minister of National Education, Romania (2019)
 - Scientific Evaluation, Glioma MR Imaging 2.0, COST Action, CA 18206, EU (2019)
 - Reviewer, University of Padova, Italy (2017)
- Current grants**
- TECHNICAL EXPERT CLINICAL MRI EQUIPMENT within the project POC/448/1/1/127725 - High Field Magnetic Resonance Spectroscopy and Imaging Infrastructure – INSPIRE, 20.000.000 EUR, 2022 – 2023
 - Assessing the neural correlates of highly religious Christian, moderate religious Christian and nonreligious belief through fMRI and structural MRI analysis and their correlation with various aspects of psychological functioning, University of Oxford, John Templeton Foundation, \$ 30.000, 2021 – 2022.
 - The importance of imaging analysis in tumour pathology in the Oro – Maxillo – Facial territory, Babeş – Bolyai University in partnership with Iuliu Hațieganu University of Medicine and Pharmacy, Cluj – Napoca, România, 25000 EUR, 2021 – 2022
 - Developing novel biomarkers starting from default diffusion MRI data, 10000 EUR, Babeş – Bolyai University Grant, 2020 – 2021
 - Advanced MRI and fMRI at STAR – UBB, 1500 EURO, Advanced Fellowship Inter UBB, Oct – Nov. 2020.
 - COST Action CA18206, Glioma MR Imaging 2.0, up to 130.000 EURO/year, 2019 – 2023.
 - The neurobiological effects in terms of brain activity and network connectivity of rational versus irrational belief explored through fMRI, 20000 EUR, Babeş – Bolyai University Grant, 2019 – 2021
 - Social jetlag, sleep deprivation and their correlates in relation with brain structure and brain activity assessed through resting – state fMRI, Babeş – Bolyai University in partnership with Iuliu Hațieganu University of Medicine and Pharmacy, Cluj – Napoca, România, 20000 EUR, 2019 – 2021
- On-going and submitted grant applications**
- Functional White Matter in Schizophrenia from a Network Perspective, Funding source Brain & Behaviour Research Foundation, 30000 EUR, 2021 – 2023
 - Assessing and applying advanced diffusion MRI techniques by developing novel Radio Frequency pulse sequences, Executive Unit for Financing Higher Education, Research, Development and Innovation, 130.000 EUR, 2022 – 2024
 - Exploring and extending MRI scanner performance by developing novel Radio Frequency pulse sequences, Executive Unit for Financing Higher Education, Research, Development and Innovation – UEFISCDI, 100.000 EUR, 2022 – 2024

ANNEXES

Publications

- Hirschler L., Sollmann N., Schmitz-Abecassis B., Pinto J., Arzanforoosh F., Barkhof F., **Nechifor R.E.**, et al., “Advanced MR Techniques for Preoperative Glioma Characterization: Part 1”, Journal of Magnetic Resonance Imaging, 2023, <https://doi.org/10.1002/jmri.28662>
- Hangel G., Schmitz-Abecassis B., Sollmann N., Pinto J., Arzanforoosh F., Barkhof F., **Nechifor R.E.** et al., “Advanced MR Techniques for Preoperative Glioma Characterization: Part 2”, Journal of Magnetic Resonance Imaging, 2023, <https://doi.org/10.1002/jmri.28663>
- Predatu R., Voinescu I. B., David O.D., Maffei A., **Nechifor R. E.**, Gentilli C., “Emotion regulation difficulties in the relation between stress-related insomnia symptoms and brain response to emotional faces: An fMRI study”, Sleep Medicine, 101: 561-569, 2023, <https://doi.org/10.1016/j.sleep.2022.11.033>
- Henriksen O. M., Alvarez-Torres, M. del M., Figueiredo P., Hangel G., Keil V. C., **Nechifor R. E.**, et al., High-Grade Glioma Treatment Response Monitoring Biomarkers: A Position Statement on the Evidence Supporting the Use of Advanced MRI Techniques in the Clinic, and the Latest Bench-to-Bedside Developments. Part 1: Perfusion and Diffusion Techniques, *Front. Oncol.*, 12, 810263, 2022, <https://doi.org/10.3389/fonc.2022.810263>
- Booth T. C., Wieggers E. C., Wamert E. A. H., Schmainda K. M., Riemer F., **Nechifor R. E.** et al., High-Grade Glioma Treatment Response Monitoring Biomarkers: A Position Statement on the Evidence Supporting the Use of Advanced MRI Techniques in the Clinic, and the Latest Bench-to-Bedside Developments. Part 2: Spectroscopy, Chemical Exchange Saturation, Multiparametric Imaging, and Radiomics, *Front. Oncol.*, 11, 811425, 2022, <https://doi.org/10.3389/fonc.2021.811425>
- Petr, J., Hogeboom, L., Nikulin, P., Wieggers, E., Schroyen, G., Kallehauge, J., Chmelík, M.,

- Clement, P., **Nechifor R. E.** *et al.* A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. *Magn Reson Mater Phy*, 35:163–186, 2021, <https://doi.org/10.1007/s10334-021-00985-2>
- **Nechifor R. E.**, Popita C., Bala C., Vonica C., Ciobanu D., Roman G., Mocan A., Sima D., Inceu G., Craciun A., Pop R.M., Craciun C., Rusu A., Regional homogeneity and degree of centrality in social jetlag and sleep deprivation and their correlations with appetite: a resting-state fMRI study, *Biological Rhythm Research*, 53 (6), 966-986, 2020, <https://doi.org/10.1080/09291016.2020.1854991>.
 - **Nechifor R. E.**, Ciobanu D., Vonica C.L., Popita C., Roman G., Bala C., Mocan A., Inceu G., Craciun A., Rusu A., "Social jetlag and sleep deprivation are associated with altered activity in the reward-related brain areas: an exploratory resting-state fMRI study", *Sleep Medicine*, 72: 12-19, 2020, <https://doi.org/10.1016/j.sleep.2020.03.018>
 - Ellingson B., Nguyen H., Lai A., **Nechifor R. E.**, Zaw O., Pope W., Yong W., Nghiemphu P., Liao L., Cloughesy T., "Contrast Enhancing Tumor Growth Dynamics of Pre-Operative, Treatment Naïve Human Glioblastoma", *Cancer* 122(11): 1718-1727, 2016, <https://doi.org/10.1002/cncr.29957>
 - **Nechifor R. E.**, Harris R., Ellingson B. M., "Novel magnetic resonance imaging techniques in brain tumors", *Topics in Magnetic Resonance Imaging*, 24(3): 137-146, 2015, <https://doi.org/10.1097/RMR.000000000000053>
 - **Nechifor R. E.**, Romanenko K., Marica F., Balcom B. J., "Spatially Resolved Measurements of Mean Spin-Spin Relaxation Time Constants", *Journal of Magnetic Resonance*, 239: 16-22, 2014, <https://doi.org/10.1016/j.jmr.2013.11.012>
 - **Nechifor R.**, Bogdan M., Ardelean I., "The Size Distribution of Core Shell Polymeric Capsules as Revealed by Low-Field NMR Diffusometry", *Appl. Magn. Reson.* 40(2): 205-211, 2012, <https://doi.org/10.1007/s00723-011-0197-5>
 - Simina M., **Nechifor R.**, Ardelean I., "Saturation-dependent nuclear magnetic resonance relaxation of fluids confined inside porous media with micrometer-sized pores", *Magnetic Resonance in Chemistry*, 49(6):314-9, 2011, <https://doi.org/10.1002/mrc.2749>
 - **Nechifor R.**, Ardelean I., Mattea C., Stapf S., Bogdan M., "NMR relaxation dispersion of Myglol molecules confined inside polymeric micro-capsules", *Magnetic Resonance in Chemistry*, 49(11):703-3, 2011, <https://doi.org/10.1002/mrc.2821>
 - **Nechifor R. E.**, Ardelean I., "Low-Field Nuclear Magnetic Resonance Relaxometry – A tool in Monitoring the Melting Transition of Polymeric Capsules with Applications in Drug Delivery", *IFMBE Proceedings Volume 36*, 344-347, 2011, https://doi.org/10.1007/978-3-642-22586-4_72
 - **Nechifor R.**, Badea C., Ardelean I., "Nuclear magnetic resonance studies of liquids morphology inside partially saturated porous media", *Journal of Physics: Conf. Ser.* 182, 012012, 2009, <https://doi.org/10.1088/1742-6596/182/1/012012>

Conferences

- Crasnean E*, **Nechifor R. E.***, Cosnarovici R., Ban A., Roman R., Bran S., Dinu C., Baciut M, Hedesiu M, "Pediatric vs. Adult Nasopharyngeal Cancer in Diffusion-weighted MR-Imaging", Maxillofacial Tumor Imaging Round Table, 5 – 8 December 2022, Iuliu Hațieganu University of Medicine and Pharmacy from Cluj-Napoca, Romania (Oral presentation; * = first authors).
- Cristea I, David D., Gentili C., **Nechifor R. E.**, Pietrini P., "Genetics/Neurobiological Underpinnings of Rational/Irrational Beliefs: Emerging Findings", Symposium 5, The 4th International Congress of Rational Emotive Behavior Therapy, 13 – 15 September 2019, Cluj-Napoca, Transylvania, Romania (Oral presentation).
- **Nechifor R. E.**, Rusu A., "Ritmul Circadian, Foamea și Apetitul – efectul tulburărilor de ritm circadian la nivel cerebral", Conferința Națională de Obezitate, 13 – 15 Decembrie 2018, Asociația Română pentru Studiul Obezității, UMF Cluj (Oral presentation).
- **Nechifor R. E.**, Marica F., Romanenko K., Balcom B. J., "Direct Measurements of Average T₂ Relaxation Time Spatially Resolved", EUROMAR 2013, 30th June – 5th July Hersonissos, Crete, Greece (Poster)
- Simina M., **Nechifor R.**, Muncaci S., Ardelean I., "Relaxation of Polar and Non-Polar Molecules Confined Inside Partially Saturated Porous Media With Ferromagnetic Impurities", 10th Bologna Conference on Magnetic Resonance in Porous Media (MRPM 10) and 10th Colloquium on Mobile Magnetic Resonance (CMMR 10), 2010 September 12 – 16, Leipzig, Germany (Poster)
- **Nechifor R.**, Mattea C., Bogdan M., Stapf S., Ardelean I., "Frequency Dependent NMR Relaxation of Polymeric Nanocapsules", 10th Bologna Conference on Magnetic Resonance in Porous Media (MRPM 10) and 10th Colloquium on Mobile Magnetic Resonance (CMMR 10), 2010 September 12 – 16, Leipzig, Germany (Poster)
- **Nechifor R.**, Bogdan M., Ardelean I., "Low Field NMR Relaxation of Miglyol Molecules Confined Inside Polymeric Nanocapsules" 11th International Balkan Workshop on Applied Physics, 2010 July 7 – 9, Constanta, Romania (Poster)
- **Nechifor R.**, Bogdan M., Badea C., Ardelean I., "Nuclear Magnetic Resonance Investigations

on Polymeric Nanocapsules” 11th Central and Eastern European NMR Symposium and 11th Central and Eastern European Bruker Users Meeting, 2009 October 4 – 6 Cluj-Napoca, Romania (Poster)

- **Nechifor R.**, Bogdan M., Badea C., Ardelean I., “Nuclear Magnetic Resonance Studies of Liquids Morphology Inside Partially Saturated Porous Media” Processes in Isotopes and Molecules, 2009 September 24 – 26, Cluj-Napoca, Romania (Poster)
- **Nechifor R.**, “Polymeric Nanocapsules: Preparation and NMR Characterization” 2nd Transylvanian NMR Workshop: “Frontiers of Magnetic Resonance Applications to Nano – and Microscopically Structured Systems”, 2009 September 18 – 21, Cluj-Napoca, Romania (Oral presentation)
- **Nechifor R.**, Badea C., Ardelean I., “Low Field Relaxation Studies of Polar and Nonpolar Molecules in Partially Filled Micrometric Pores” The 6th Conference on Field Cycling NMR Relaxometry , 2009 June 4 – 6, Turin, Italy (Poster)

21.03.2023