

**List of research themes proposed for the advanced research postdoctoral programs - admission competition September 2023**

<b>No.</b>	<b>Name and first name of the PhD supervisor</b>	<b>Field</b>	<b>Proposed research theme</b>
1	PhD Associate Professor CAPUSA CRISTINA STELA	MEDICINE	Complement activation in mesangioproliferative glomerulonephritis with immunoglobulin A depositions: A path towards the customization of the treatment
2	Professor PhD CRISTEA STEFAN	MEDICINE	1. Medicine customization in order to direct therapies towards the patient to increase efficiency and limit their toxicity based on the individual profile 2. Optimization of the surgical treatment in osteoarthritis
3	Professor PhD DAN GHEORGHE-ANDREI	MEDICINE	Reasoning, Logistics., Operation and feasibility criteria for a cardio-oncology centre
4.	Professor PhD FICA SIMONA-VASILICA	MEDICINE	Osteoimmunology - the connection between the immune and musculoskeletal system for patients with intestinal inflammatory disease
5	Professor PhD GORGAN RADU MIRCEA	MEDICINE	The applications of customized medicine in the multimodal diagnosis and treatment of malignant brain tumours
6.	Professor PhD GRIGOREAN VALENTIN TITUS	MEDICINE	1. Customized solutions for bone regeneration and complications associated to multiple myeloma 2. Kit for customized tissue regeneration: a strategy for the future
7	Professor PhD GRINTESCU IOANA MARINA	MEDICINE	Customization of the enteral and parenteral metabolic and nutritional support in the case of critical patients
8	Professor PhD HINESCU MIHAIL-EUGEN	MEDICINE	Multifunctional molecules involved in the transfer of fats (e.g. CD36), with potential of use as prediction and evolution factor in the oncological disease
9	Professor PhD ILIESCU ELENA LAURA	MEDICINE	1.Assessment algorithms for liver fibrosis in viral and non-viral liver diseases 2.Staging of hepatocellular carcinoma epigenetic risk in patients with viral and non-viral liver diseases
10	Professor PhD JURCUT RUXANDRA OANA	MEDICINE	Prediction of the cardiovascular effects of new haematology-oncology therapies - the role of advanced imaging and EKG techniques
11	PhD Associate Professor MANOLESCU LOREDANA SABINA CORNELIA	MEDICINE	Modern, non-invasive and safe state of the art techniques for the timely identification and characterization of isolated fungal strains in mycosis difficult to treat
12	Professor PhD MATEESCU RADU BOGDAN	MEDICINE	Tissue and serum biomarkers for the prediction of the answer to the systemic and local treatment for extrahepatic cholangiocarcinoma
13	Professor PhD NANEA IOAN TIBERIU	MEDICINE	Assessment of the myocardial mechanic dispersion using cardiac arrhythmias with variable ventricular filling through the speckle-tracking echocardiographic technique for the early identification of cardiac structural changes

14	PhD Associate Professor NEGOI IONUT	MEDICINE	Initiation of an Analysis Hugh for the Surgical Disease Load based on Artificial Intelligence: Adaptation of Customized Clinical Routes for Patients, including in Disadvantaged Areas (Pillar 1: Quality of life in patients with abdominal cancers; Pillar 2: Surgical emergencies, including polytraumas and acute pancreatitis
15	Professor PhD NEGREANU LUCIAN	MEDICINE	Early onset colorectal cancer: establishing an algorithm for diagnosis and prevention and overcoming challenges related to its treatment
16	PhD Associate Professor PANTEA STOIAN ANCA MIHAELA	MEDICINE	„Cardiorenal biomarkers and novel sensors for their detection in patients with diabetes mellitus treated with SGLT2 inhibitors
17	Professor PhD POPESCU GABRIEL ADRIAN	MEDICINE	Detection of the levels and resistance mechanisms to carbapenems of Acinetobacter baumannii XDR in Romanian hospitals; in vitro assessment of the sulbactam efficiency as therapeutic alternative for the infections determined by these isolates
18	PhD Associate Professor STEFANESCU CRISTIAN DRAGOS	MEDICINE	Customized therapeutic management - interdisciplinary, multimodal, in dynamic, long-term - of patients with sleep apnoea
19	Professor PhD TANASE ALINA DANIELA	MEDICINE	The role of intestinal microbiota in the results of cellular therapies (hematopoietic stem cell transplantation, CAR-T therapies) in adult malignant hemopathies
20	Professor PhD TOMESCU DANA RODICA	MEDICINE	The customization of the regional analgesia techniques in pulmonary bypass heart surgery based on the individual nociceptive profile measured with the NOL index
21	PhD Associate Professor VERGA NICOLAE	MEDICINE	1. Chronic and subclinical multi organ insufficiency system in oncobiology (IMC-Ob) 2. Theragnostic and regenerative medicine; assessment of the targeted transport efficiency of current molecular vehicles, discovery and development of nano-vehicles for specific molecular, cellular and tissue targets; direct genomic stimulation for the activation of protein production with role in various protection and anti-toxic mechanisms.
22	Professor PhD VINEREANU DRAGOS	MEDICINE	Customization of the management of patients with acute coronary syndromes without ST segment elevation according to the individual risk profile
23	Professor PhD VLADAREANU ANA MARIA	MEDICINE	1. The impact of MYC and RAS oncogenes in the developmental pathogenesis of monoclonal gammopathy of unknown significance. 2. The impact of the mutation on the Luspatercept resistance in ARSI type of ARSI with thrombocytosis myelodysplastic syndromes 3. Identification of early morphological and cytogenetic anomalies in leukocyte populations in elder patients which could suggest clonal expansion/clonal haematopoiesis of unknown significance.
24	Professor PhD ZAGREAN ANA MARIA	MEDICINE	Use of Optical coherence tomography angiography (OCTA), a new non-invasive state of the art method for the early identification of the glaucomatous disease risk and the progression markers in patients with intraocular hypertension
25	Professor PhD NIMIGEAN VANDA ROXANA	DENTAL MEDICINE	The selection of all-ceramic systems according to the peculiarities of the clinical case, in order to optimize the results of aesthetic oral rehabilitation and maintain them in the long term

26	Professor PhD PITURU SILVIU	DENTAL MEDICINE	Optimization of the surface of materials used for the manufacture of dental implants in order to improve cellular behaviour and molecular processes involved in inflammatory reactions
27	Professor PhD PREOTEASA ELENA	DENTAL MEDICINE	1. Salivary biomarkers connected with the general and oral status, for elder patients with movable prosthetic and non-prosthetic patients 2. Assessment of the patients' quality of life in relation to the prosthetic status and masticatory efficiency
28	Professor PhD RIPSZKY-TOTAN ALEXANDRA	DENTAL MEDICINE	Assessment and characterization of cellular molecular processes involved in ensuring the biocompatibility of the various types of dental materials used for 3D printing
29	Professor PhD BOSCENCU RICA	PHARMACY	Computational and preclinical studies on the sensitizing potential of Nrf2 transcription factor modulation in photodynamic therapy of non-melanoma skin tumours
30	Professor PhD DINU PIRVU CRISTINA	PHARMACY	The pharmacogenomic landscape in cancers using organoids as therapeutic screening and customized medicine model
31	Professor PhD GRADINARU DANIELA	PHARMACY	Experimental, clinical and biochemical assessment of oxidative stress and inflammation biomarkers
32	Professor PhD MARGINA DENISA MARILENA	PHARMACY	Experimental, clinical and biochemical assessment of oxidative stress and inflammation biomarkers
33	PhD Associate Professor NEGREI CAROLINA	PHARMACY	1. Studies on microenvironment and feeding contaminations 2. Studies on expert systems related to substances with anti-doping potential
34	Professor PhD NITULESCU GEORGE MIHAI	PHARMACY	Identification strategy for compounds with therapeutic potential in cancerous pathologies
35	PhD Associate Professor OLARU OCTAVIAN TUDOREL	PHARMACY	Innovative therapeutic solutions for dermal conditions