



Europass Curriculum Vitae

Personal information	
First name(s) / Surname(s)	Teodora Monica/Neagu
Address(es)	5, Alecu Mateevici, 001122, Bucharest, Romania
Telephone(s)	40 21 319 45 28 Mobile:
Fax(es)	40 21 319 45 28
E-mail	neagu.monica@gmail.com
Nationality	Romanian
Date of birth	20.03.1962
Gender	F
Work experience	Work employments
Dates	2000 – in present
Occupation or position held	Head of Immunobiology Laboratory
Main activities and responsibilities	Project Coordinator in national and international research projects: bilateral cooperations, COST, NATO SfP. Participation in international Clinical Trials. Main research fields: immunology, immunotherapy, biomarkers, cellular immune parameters associated to various pathologies, photodynamic therapy
Name and address of employer	“Victor Babes” National Institute of Pathology, 99-101 Splaiul Independentei, Bucharest, Romania
Type of business or sector	Research, Laboratory Management
Dates	2012 – in present
Occupation or position held	Team Leader “Assay Development and Alternative testing”
Main activities and responsibilities	Coordinator in national and international projects for multi-disciplinary, multi-laboratory research team
Name and address of employer	“Victor Babes” National Institute of Pathology, 99-101 Splaiul Independentei, Bucharest, Romania
Type of business or sector	Research, Laboratory Management
Dates	2018 – in present
Occupation or position held	Head of Immunology Department
Name and address employer	“Victor Babes” National Institute of Pathology, 99-101 Splaiul Independentei, Bucharest, Romania
Dates	2017 – in present
Occupation or position held	Researcher grade I
Main activities and responsibilities	Coordinator in national and international projects Colentina Clinical Hospital
Name and address employer	Research in Pathology
Type of business or sector	
Dates	1993-2000
Occupation or position held	Researcher
Main activities and responsibilities	Project Coordinator in national research projects. Main research fields: immunology, immunotherapy, biomarkers, cellular immune parameters associated to various pathologies, photodynamic therapy
Name and address employer	“Victor Babes” National Institute of Pathology, 99-101 Splaiul Independentei, Bucharest, Romania

Type of business or sector	Research
Dates	1987-1993
Occupation or position held	Researcher, PhD student
Main activities and responsibilities	Participation in research projects. Main research fields: immunomodulation with various bacterial or plant origin agents applied in various human pathologies
Name and address employer	"Cantacuzino" National Institute of Microbiology and Immunology, 103 Splaiul Independentei, Bucharest, Romania
Type of business or sector	Research
Education and training	
Dates	2017
Title of qualification awarded	Research grade scientist I
Principal subjects/occupational skills covered	
Name and type of organisation providing education and training	Ministry of Education Order, number 216/20.04.2017
Dates	2014
Title of qualification awarded	<i>Habilitated Professor of Immunology</i>
Principal subjects/occupational skills covered	Habilitation thesis "Harnessing the immune system - new insights in diagnosis and therapeutical approaches of major diseases"
Name and type of organisation providing education and training	Ministry of Education Order, number 623/6.11.2014, annex 26
Dates	1990-1996
Title of qualification awarded	Ph.D.
Principal subjects/occupational skills covered	Immunological Parameters in chronic Staphylococcal infection
Name and type of organisation providing education and training	Romanian Academy of Science, Ministry of Education Order 5200/4.10.1996
Level in national or international classification	10 out of 10
Dates	1984-1985
Title of qualification awarded	Master
Principal subjects/occupational skills covered	Special Methods of Separation in Biochemistry
Name and type of organisation providing education and training	University of Bucharest, Faculty of Biochemistry
Level in national or international classification	10 out of 10
Dates	1980-1984
Title of qualification awarded	B. Sc.
Principal subjects/occupational skills covered	Biochemistry

<p>Name and type of organisation providing education and training</p> <p>Level in national or international classification</p>	<p>University of Bucharest, Faculty of Biochemistry, Ministry of Education and Teaching diploma Seria C, nr. 415/3.08.1984</p> <p>9.93 out of 10</p>																									
<p>Personal skills and competences</p>																										
<p>Mother tongue(s)</p> <p>Other language(s)</p> <p>Self-assessment</p> <p>European level (*)</p> <p>English</p> <p>German</p> <p>French</p>	<p>Romanian</p> <table border="1" data-bbox="507 495 1461 712"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th>Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> </tr> <tr> <td>B2</td> <td>B1</td> <td>B1</td> <td>B1</td> <td>A2</td> </tr> <tr> <td>C1</td> <td>B2</td> <td>B1</td> <td>B1</td> <td>A2</td> </tr> </tbody> </table> <p>(*) Common European Framework of Reference for Languages</p>	Understanding		Speaking		Writing	Listening	Reading	Spoken interaction	Spoken production		C2	C2	C2	C2	C2	B2	B1	B1	B1	A2	C1	B2	B1	B1	A2
Understanding		Speaking		Writing																						
Listening	Reading	Spoken interaction	Spoken production																							
C2	C2	C2	C2	C2																						
B2	B1	B1	B1	A2																						
C1	B2	B1	B1	A2																						
<p>Organisational skills and competences</p>	<p>I am currently managing the Immunology Dept. involved in several national and international research projects and international networks. I am managing the multi-disciplinary team of Assay Development and Alternative testing</p> <p>I am member of the management team for Romania for COST Actions D39, COST TD1002, COST 16120, COST 18125</p> <p>Since 2000 I am member of the Council of the Romanian Society of Immunology and since 2019 I am the President of the Romanian Society of Immunology</p> <p>Since 2003 I am member of the OBBCSSR – licence for clinical biochemistry laboratory. Since 1997 Biochemist specialist and since 2020 Biochemist principal.</p> <p>Since 2010 I am member of the management team for several EU structural projects involving teaching in the domain of High Technologies applicable in Health Care System.</p>																									
<p>Technical skills and competences</p>	<p>Courses and Training stages</p> <ul style="list-style-type: none"> ▪ 1988 – 1989 Fundamental Immunology, Bucharest, Romania ▪ 1992 – Autoimmunity specialization, Sandoz Pharma Ltd., Preclinical Research Laboratories, Basel, Switzerland ▪ 1996 - Advanced Course in Bioelectronics, Mamaia, Romania ▪ 1997 - Advanced Course Membrane Transport Processes and Signal Transduction, Bucharest, Romania ▪ 2001 - Cours de formation post-universtaire dans le domaine des sciences de la vie dans la discipline de Biochimie et Biologie Moleculaire, Bucharest, Romania ▪ 2005 - Modern Biophysical Techniques for Human Health – From Physics to Medicine, Poiana Brasov, Romania ▪ 2007 - Evaluator for International Project Management, Bucharest, Romania ▪ 2007 - Profiling Kinases and Phospho-Sites with Antibody-Based Methods for Disease Biomarker, Amsterdam, Holland ▪ 2007 - Drug Target Discovery and Protein Arrays for Biomarker Discovery and Protein Expression Profiling, Amsterdam, Holland 																									

	<ul style="list-style-type: none"> ▪ 2008 - Principles and applications of microfluidics in the life sciences, Barcelona, Spain ▪ 2008 - Microfabrication technologies, Barcelona, Spain ▪ 2008 - ProteinChip SELDI-ToF MS Training Course, Malvern, USA ▪ 2008 – In vivo confocal microscopy training, Mavig, Bucharest, Romania ▪ 2009 - Flow Cytometer FACS CANTO II Training Course, Heidelberg, Germany ▪ 2009 – Cell Culture Seminar – LGC Standards, Bucharest, Romania ▪ 2010- 1st Congress of XCELLIgence Users Meeting, 25-26 March, Munchen, Germany ▪ 2010 - 1st EFIS-EJI Intensive Educational Course in Clinical Immunology, Centre de Recherche des Cordeliers, Paris, December 1-4 ▪ 2011- 2st Congress of XCELLIgence Users Meeting, 3-4 May, Rome, Italy ▪ 2011 – Course “Characterizing and applying physiologically-based pharmacokinetic models in risk assessment” – WHO, Eurotox, 28 August Paris, France, 2011 ▪ 2013 - Proteomics Course, Summer School, 3-7 August, Brixen, Italy ▪ 2014 – Protein microarray hands-on training, University of Toulouse ▪ 2015 – Course for Adult Teaching – <i>Ministry of Labour, Family and Social Protection</i>, COR code 242401, Certificate J Nr. 00079315/28.07.2015 ▪ 2017 – <i>Technology Transfer</i> Course, CIT-IRECSON, Bucharest ▪ 2017 – <i>Intellectual Property</i> Course, CIT-IRECSON, Bucharest ▪ 2019 – <i>Leadership Workshop</i>, Brussels, Belgium ▪ 2020 – <i>Strategic Management and Investment management</i>, Sinaia, Romania <p>Membership:</p> <ul style="list-style-type: none"> ▪ Romanian Society of Immunology – 1988 ▪ Council of the Romanian Society of Immunology - 2000 ▪ Balkan Society of Immunology – 2001 ▪ European Federation of Immunological Societies – 2002 ▪ Federation of the European Biochemistry Society – 2006 ▪ International Society of Porphyrins and Phtalocyanins – 2007 ▪ International Society of Program Management – 2007 ▪ Romanian Division of International Academy of Pathology – 2009 ▪ Founding member of the Romanian Dermato-oncology Society – 2010 ▪ European Network of Nanomedicine - 2010 ▪ Cellular Advanced Therapy Commision – European Medicines Agency – 2010-2013 ▪ European Association of Dermato-oncology – 2016 (EAD000445) ▪ World Academy of Sciences – 2018 ▪ President of the Romanian Immunology Society - 2019
Computer skills and competences	MS Office; Adobe Photoshop Driver's licence

Additional information**Inventor for the following Patents**

Asymmetric substituted tetrapyrrole compound, process of preparation and biological evaluation thereof at cellular level; Co-inventors – **Romania** Boscencu Rica, Socoteanu Petre, Nacea Veronica, Carolina Constantin, Manda Gina, **Neagu Monica**, Ilie Mihaela, Baconi Daniela; **Portugal** Anabela Sousa Oliveira, Luis Felipe Vieira Ferreira; Patent OSIM Nr. 123419/30.03.2012

Tetra-sulphonated porphyrin application for producing a photosensitizer in photodynamic therapy; Co-inventors – Ion Rodica, **Neagu Monica**, Carolina Constantin, Boda Daniel; Patent OSIM Nr. 12582/30.12.2010

Porphyrinic compound asymmetric, non-substituted as photosensitizer for cancer diagnosis and obtaining procedure; Co-inventors – **Romania** Boscencu Rica, Socoteanu Petre, Carolina Constantin, **Neagu Monica**, Manda Gina, Ilie Mihaela, Nacea Veronica, Gird Elena; **Portugal** Anabela Sousa Oliveira, Luis Felipe Vieira Ferreira, Patent OSIM Nr. 126761/30.12.2014

Equipment and procedure for microwave irradiation in in vitro models with concomitant registration of biological behaviour in a fluorescence microscope; Co-inventors – Martin Diana, **Neagu Monica**, Matei Constantin, Carolina Constantin, Iacob Nicusor, Ighigeanu Daniel, Manaila Elena, Craciun Gabriela; Patent OSIM 126764 /30.07.2015

Porphyrinic compound photodynamic therapy of cancer; Co-inventors – **Romania** Socoteanu Petre, Boscencu Rica, Nacea Veronica, Carolina Constantin, Manda Gina, **Neagu Monica**, Ilie Mihaela, **Portugal** Anabela Sousa Oliveira, Luis Felipe Vieira Ferreira; Brevet de inventie, Patent OSIM Nr. 125018/30.04.2015

Proteomic profiling by mass-spectrometry for brain tumors detection, Co-inventors - Popescu Ionela Daniela, Albuлесcu Radu, Tănase Cristiana, Codrici Elena, Albuлесcu Lucian, Mihai Simona, Enciu Ana-Maria, **Neagu Teodora Monica**, Constantinescu Stefan; Patent OSIM Nr. RO130589-A2 /13.03.2014

Tumour cell clone obtained from chemically induced murine carcinogenesis model, Co-inventors - Carolina Constantin, **Monica Neagu**, Bogdan Marinescu, Sabina Zurac. Patent OSIM, Nr. RO131985-A0 /21.09.2016.

Tumour cell clone isolated from a rare cutaneous tumor developed on a blue nevi, Sabina Zurac **Monica Neagu**, Carolina Constantin, Patent OSIM A100365/24.06.2021

Purification method of ROMVAC IgY using high performance liquid chromatography and testing methods of the obtained fractions upon standard cell line CAL-27, Viorica Chiurciu, Alef Ibram, **Monica Neagu**, Mihaela Surcel, Adriana Narcisa Munteanu, Carolina Constantin - Patent OSIM A000473/11.08.2021

Member of the Editorial Board for the journal *Recent Patents in Biomarkers*, Bentham Science Publishers, **Guest Editor for 2012 Special Issue *Transcriptomics biomarkers for diagnosis, prognosis and therapy monitoring in cancer*** **Recent Patents in Biomarkers**, Bentham Science Publishers. Member of the Editorial Board for the journal ***World Journal of Methodology*** Number ID:02445884. Member of the Editorial Board for ***South East European Journal of Immunology***, Member of the Editorial Board for ***Trends in Toxicology and Related Sciences***, Member of the Editorial Advisory Board for ***Current Biomarkers***, **Editor for reviews for the *Journal of Immunoassay and Immunochemistry***; **Member of the Editorial Board for the journal *Romanian Archives of Microbiology and Immunology***, **Member of the Editorial Board for the journal *World Academy of Sciences***, **Member of the Editorial Board for the journal *Journal of Gastrointestinal and Liver Diseases***, Review Editor for ***Bio-interactions and Bio-compatibility - Frontiers in Biomaterials Science***.

Co-Editor 2016 for book “Stem cells between regeneration and tumorigenesis” Bentham Science Publishers. Editor(s): **Monica Neagu** and Cristiana Tanase, DOI: 10.2174/97816810833151160101, eISBN: 978-1-68108-331-5, 2016, ISBN: 978-1-68108-332-2

Leading Guest Editor 2016 – special issue - *Omics landscape in disease biomarkers discovery* in *Disease Markers*, Hindawi Publishers; **Associate Editor for Reviews for *Journal of Immunoassay and Immunochemistry***, Taylor & Francis Ed. **Leading Guest Editor 2018 – special issue – *Inflammation: part of the problem or part of the solution?***, *Journal of Immunology Research*, Hindawi Publ. **Leading guest Editor 2020. *Capsicum: Traditional Uses, Bioactive Compounds and Biological Activities. Molecules***, **Leading Guest Editor 2020 – special issue – *Inflammation: part of the problem or part of the solution?***, part II, *Journal of Immunology Research*, Hindawi Publ, **Editor Special issue “Mechanistic Toxicology” in *Current Opinion in Toxicology 2021***, **Editor for Special issue “Personalized Medicine in the Field of Inflammatory Skin Disorders” in *Journal of Personalized Medicine 2021***

Invited speaker and Moderator for several Congresses. Recently at Tumoral Biomarkers Session at European Congress of Biomarkers, Lisbon, Portugal, 2008; Invited speaker at BIT Life Sciences' 2nd Annual Congress and Expo of Molecular Diagnostics - 2009, Beijing, China, 2009; Invited speaker at International Symposium Quantitative Biology&Cytokine Signaling, 2012. Invited Speaker European Association of Dermato-oncology, 2017; Invited Speaker International Symposium Quantitative Biology&Cytokine Signaling, 2017; Invited speaker EnviPharm, Chicago 2018; Invited speaker Society of Immune therapy Congress, Athens, 2019, EUROTOX, Helsinki 2019, Invited speaker 24th World Congress on Advances in Oncology' & '24th International Symposium on Molecular Medicine, Sparta 2019, International Conference on Aerogels for Biomedical and Environmental Applications si la Meeting Committee COST 18125 18-20 February 2020, Santiago de Compostela

In [Mendeley Data - Data for "Updated science-wide author databases of standardized citation indicators"](#) in **2019** and **2020** ranking 2% world scientists.

Lecturer in Immunology for Romanian Society of Immunology training course since 2002.

Lecturer in 6 EU structural funded projects for PhD, post-doc training in proteomics, immunology, immunotoxicology.

Reviewer for *Dyes and Pigments, Photochemical and Photobiological Sciences, Patents in Biomarkers, Archives of Gerontology and Geriatrics, International Journal of Photoenergy, Romanian Biotechnological Letters, Romanian Archives of Microbiology and Immunology, Current Biomarker Findings, Drug Design, Development and Therapy, Journal of Inflammation Research, Current Tissue Engineering, Biomedical and Environmental Sciences, The International Journal of Biochemistry & Cell Biology, Mediators of Inflammation, Journal of Translational Medicine, Scientific Reports (Nature Publishing Group), Journal of Immunoassay and Immunochemistry, South East European Journal of Immunology, Food and Chemical Toxicology, Oncology Letters, Oncology Reports, International Journal of Oncology, Molecular and Clinical Oncology, Experimental and Therapeutic Medicine, International Journal of Molecular Medicine, Molecular Medicine Reports, Current Organic Chemistry, Melanoma Management, Medicinal Chemistry, Journal of Cellular and Molecular Medicine, Human and Experimental Toxicology, Environmental Toxicology and Pharmacology, Biomedical and Environmental Sciences, Toxicology Reports, Nanoimpact, Frontiers in Pharmacology, Scientific Reports, Journal of Molecular Neuroscience, Frontiers in Immunology, Frontiers in Oncology, Proteomics - Clinical Applications, Immuno-oncology, Frontiers in Bioengineering and Biotechnology, Journal of Basic and Clinical Physiology and Pharmacology, Journal of Cancer, J Gastrointes Liver Dis, European Journal of Gynaecological Oncology, ACS Omega, Environmental Toxicology and Pharmacology, Expert Review of Molecular Diagnostics, Patty's Toxicology (Fifth Edition), Cancers, Romanian Journal of Internal Medicine, Environmental Research, Human Immunology, Journal of Medicine and Life, Infection and Drug resistance, Academic Letters*

Evaluator for international projects – FP7, Horizon 2020, EuroNanoMed, FWO, ERA-NET, ERA-NET Lac, HRB, National Science Center, Poland. Round Dutch Research Agenda – Research along Routes by Consortia, Holland

Evaluator for EU structural funds projects, Fulbright grants

Evaluator for PhD thesis and member of the guiding committee – University of Natural Resources and Life Sciences, Wien, University of Crete, Greece

Main research fields: immunology, immunotherapy, biomarkers, cellular immune parameters associated to various pathologies, photodynamic therapy, nanomedicine

In the last 20 years participating and conducting over 35 national research projects.

Prizes

Scientific Responsible for the Project entitled "Photochemotherapy innovative methods with nanostructured photosensitizers – from synthesis to clinical trial". The project received the **First Prize** of the Romanian National Authority for Research on Health Domain in 2008.

International prizes: patents received **Gold medal** at Brussels Innova 2008, **Special Prize** of Rudy Demotte, Minister President of the Walloon Government Brussels Innova 2008, **Gold medal** at The 37th International Exhibition of Inventions of Geneva 2009 and **Special Prize** of the Ministry of Education of Russia, The 37th International Exhibition of Inventions of Geneva 2009; **Gold medal** at The International Fair for Innovation, Moscow, 2009, EYReC **Gold Medal** at EUROINVENT, 2013; Diploma of **Haller Pro Inventio Foundation** at EUROINVENT, 2013.

Paper prizes: CNCISIS 1084/2010, CNCISIS1154/2010, PN-II-RUPRECISI-2012-6- 1365, PN-II-RU-PRECISI-2013-7 2013-4045, PN-II-RU-PRECISI-2013-7 2013-3803, PN-II-RUPRECISI- 2013-7- 2754, PN-II-RU-PRECISI- 2014-8-5956, PN-II-RU- PRECISI- 2015-9-8100, PN-III-P1-1.1-PRECISI-2017-15893, PN-III-P1-1.1-PRECISI-2017-15953, PN-III-P1-1.1-PRECISI-2018-28171, PN-III-P1-1.1-PRECISI-2018-22473 –PN-III-P1-1.1-PRECISI-2018-22518, PN-III-P1-1.1-PRECISI-2018-22862, PN-III-P1-1.1-PRECISI-2018-21195, PN-III-P1-1.1-PRECISI-2018-21233, PN-III-P1-1.1- PRECISI-2019- 31557, PN-III-P1-1.1- PRECISI-2019- 31575, PN-III-P1-1.1- PRECISI-2019- 31728, PN-III-P1-1.1- PRECISI-2019- 32238, PN-III-P1-1.1- PRECISI-2019- 32463, PN-III-P1-1.1- PRECISI-2019- 32883, PN-III-P1-1.1- PRECISI-2019- 32916, PN-III-P1-1.1- PRECISI-2019- 34275, PN-III-P1-1.1-PRECISI-2019-39561, PN-III-P1-1.1-PRECISI-2019-39540, PN-III-P1-1.1-PRECISI-2020-41195, PN-III-P1-1.1-PRECISI-2020-41618, PN-III-P1-1.1-PRECISI-2020-42167, PN-III-P1-1.1-PRECISI-2020-42620, PN-III-P1-1.1-PRECISI-2020-45488, PN-III-P1-1.1-PRECISI-2020-45810, PN-III-P1-1.1-PRECISI-2020-49966, PN-III-P1-1.1-PRECISI-2020-45028, PN-III-P1-1.1-PRECISI-2021-54177, PN-III-P1-1.1-PRECISI-2021-54795, PN-III-P1-1.1-PRECISI-2021-55687, PN-III-P1-1.1-PRECISI-2021-55735, PN-III-P1-1.1-PRECISI-2021-65937

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Scopus Author ID: 7006911336

ResearcherID: C-3240-2011

https://www.researchgate.net/profile/Monica_Neagu

<https://unibuc.academia.edu/MonicaNeagu>

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

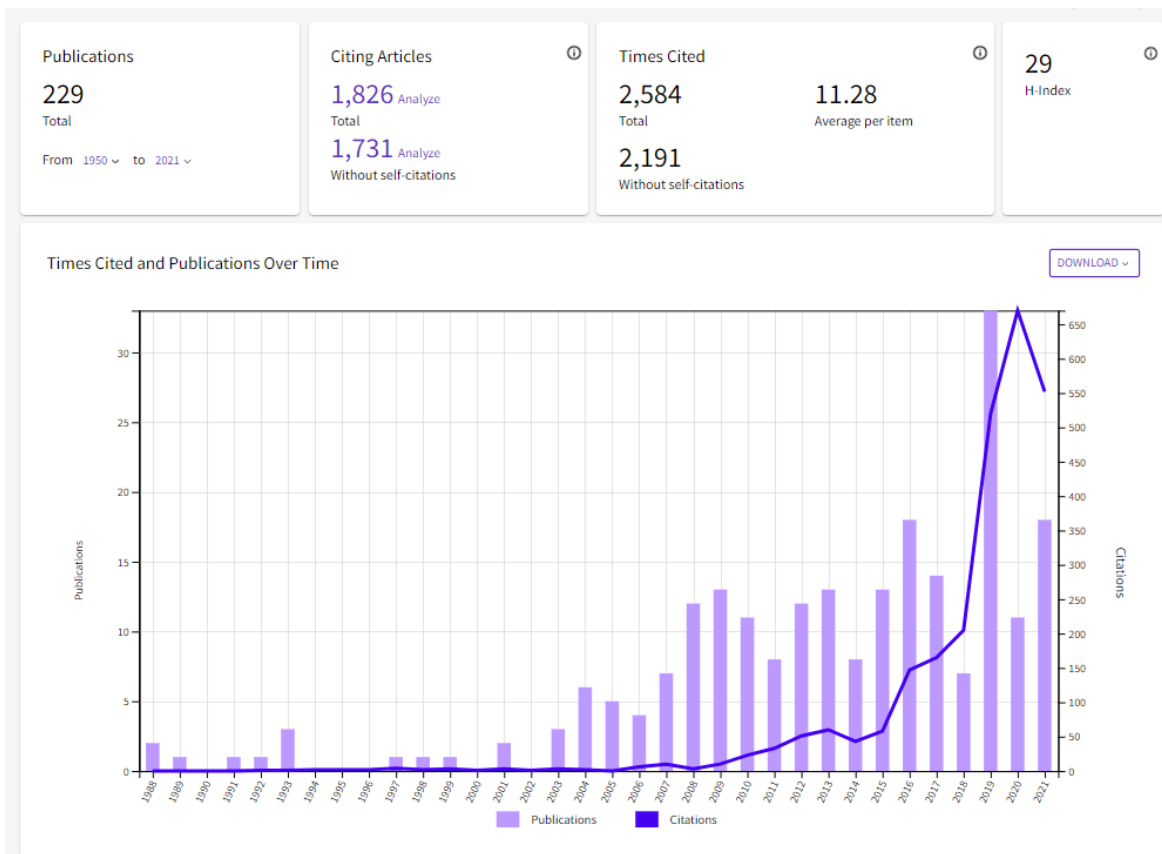
Annexes

List of international projects (continued)

List of EU structural funds projects (continued)

List of national projects (continued)

List of publications (continued) – **Hirsch Index – 35 (Google Scholar), 29 (Scopus), 29 (Clarivate)**



List of International Projects

Project	Role	Date	Stage
Bilateral Cooperation Romania-Greece 7285/02 "Victor Babes" National Institute – University of Athens Immunomodulating potential of prothymosin alpha and its fragments on lymphocyte functions in vitro. Analysis of the mechanisms of action of the polypeptide and specific peptides spanning its primary structure.	Project Director for the Romanian partner	2003-2004	Ended
LOR/VIR/PO3/002 –Lorus Company, Canada Clinical Trial phase III, double blind, multicenter, randomized study in chemo-naive patients with locally advanced or metastatic pancreatic cancer to compare a combination therapy of Virulizin® plus Gemcitabine versus placebo plus Gemcitabine; optional second-line therapy may include continuation of Virulizin® or placebo, alone or in combination with 5-Fluorouracil	Participant	2003-2005	Ended
COST D39 Chemistry and Molecular Sciences and Technologies Metallo-Drug Design & Action	Member of the Management team for Romania	2006-2008	Ended
NATO SfP 982838/2007 Development of a novel immunoassay for the very early detection of Biothreatening Bacterial Infections	Project Director	2007-2015	Ended
Bilateral Cooperation Romania-China 511/2011 Biomarker discovery in digestive tract cancer and skin melanoma using proteomic approaches <i>China partner</i> Beijing Institute of Genomics, Chinese Academy of Science	Project Director for the Romanian partner	2011-2012	Ended
FP7-PEOPLE-IRSES-2008 Natural antidiabetic & antihypertensive drugs	Team Member	2008-2013	Ended
MNT-ERA NET 7030-5/2010 Tetrapyrrole nanostructures towards fluorescent molecular markers for biomedicine	Team Member	2010-2013	Ended
COST CA16120 - European Epitranscriptomics Network EPITRAN	Member of the Management team for Romania	2017-2021	On-going
COST CA16113 - 'good biomarker practice' to increase the number of clinically validated biomarkers CLINIMARK	Team Member	2017-2020	Ended
COST CA18125 - Advanced Engineering and Research of aeroGels for Environment and Life Sciences AEROGELS	Member of the Management team for Romania	2019-2023	On-going
COST CA18127 - International Nucleome Consortium INC	Substitute Member of the Management team for Romania	2019-2023	On-going
COST Action: CA17118 - Identifying Biomarkers Through Translational Research for Prevention and Stratification of Colorectal Cancer	Team Member	2018-2022	On-going

List of EU structural projects

Project	Position/Role	Date	Stage
POSDRU nr. 31081, 1.2 University for future "Dermato-oncology development as multidisciplinary domain for medical training and international cooperation"	Member of the management team Teaching experience for over 300 students	2010-2013	Ended
POSDRU nr. 58819. „Training platform for implementing high technology in the health care system"	Member of the management team Teaching experience for over 150 PhD and post-docs in proteomics	2010-2013	Ended
POS CCE 2.1.2 152 Proteomics Technologies For Cancer Biomarkers Discovery	Member of the management team Quality assurance manager	2010-2013	Ended
POSDRU nr. 59497 "Training for implementing in the Immunology Laboratory of high technology"	Expert Teaching experience for over 300 PhD and post-docs in immunology and immuno-proteomics	2010-2013	Ended
POSDRU 141531/2014 "Developing human resources – PhD and post-doctoral studies – for excellence in health and biotechnological research"	Mentor Teaching experience for 150 PhD and post-docs in immunology and immuno-proteomics	2014-2015	Ended
POSDRU 135760/2014 „CERO – Carrier in Research"	Mentor Teaching experience for 150 PhD and post-docs in immunology and immuno-proteomics	2014-2015	Ended
POC - 52/2016 "Expertise implementation in biomedical research by knowledge transfer to private companies in order to validate products and services in medical biotechnologies and health"	Expert in immunology, immunotoxicology	2016-2021	On-going

List of National Projects

Project	Role	Date
<i>Research Contract Academy of Medical Science</i> Diagnostic and prognostic value of cellular immunity tests. Cantacuzino Institute	Team Leader	1987-1991
<i>Research Contract Academy of Medical Science</i> Immune parameters in chronic staphylococcal infections. Cantacuzino Institute	Project Director	1991-1993
<i>Research Contract Academy of Medical Science</i> Effect of Symphytum officinale extracts and isolated fractions upon cell-mediated immunity in normal subjects and patients with various immunosuppression. Cantacuzino Institute	Team Member	1992-1993
<i>Research Contract Ministry of Research and Technology</i> Correlation between intracellular signaling mechanisms in human polymorphonuclear granulocytes through stimulation of FcR, CR and chemotactic factors.	Team Member	1994 – 1996
<i>Research Contract Ministry of Research and Technology, Programm Orizont 2000</i> Effect of changes in intra- and extracellular ion concentrations upon normal human polymorphonuclear functions	Team Member	1997 – 1999
<i>Grant Ministry of Research and Technology</i> Synovial fluid isolated from patients with rheumatoid arthritis exert various effects on peripheral leukocyte populations normal - potential involvement in the pathogenesis of rheumatoid arthritis	Team Member	1997 – 1998
<i>Contract CNCSU</i> The in vitro effect exerted by antioxidant agents on the functionality of human immune cells, Biology Faculty, Bucharest University	Team Member	1999
<i>Research Contract Ministry of Research and Technology Orizont 2000</i> Peripheral polymorphonuclear cell functional isolated from patients diagnosed with rheumatoid arthritis	Team Member	1999-2001
<i>Grant Romanian Academy</i> Modulation through chemotactic factors oxygen-dependent cytotoxic functions developed by human	Team Member	2001

neutrophils		
<i>Research Contract Ministry of Research and Technology, Programm Orizont 2000</i> Neutrophils and lymphocytes functionalities in myocardial infarction, unstable angina and atheromatous disease	Project Director	2000-2002
<i>Grant Romanian Academy</i> Interrelation tumorigenesis - inflammatory process in experimental murine model	Project Director	2000
<i>Research Contract Viasan 090/2001</i> Immunomodulatory effect of low molecular weight heparins used in the prevention and therapy of cardiovascular diseases	Project Director	2001-2004
<i>Research Contract Viasan 228/2003</i> Experimental model for testing anti-tumor action of porphyrins used in the photodynamic therapy of cancer	Project Director	2003-2005
<i>Research Contract Viasan 341/2004</i> Cellular immune response in aging - evaluation of biochemical and immunological methods by age group	Project Director	2004-2006
<i>Research Contract Viasan 091/2001</i> Dynamics of functional and molecular cellular immune parameters of patients with rheumatoid arthritis treated with inhibitors of purine ribonucleotides (methotrexate) or pyrimidine (leflunomide)	Team Member	2001-2004
<i>Research Contract 229/2003</i> Immunomodulatory signals transmitted by opioid receptors - study performed on peripheral immune cells isolated from patients with rheumatoid arthritis.	Team Member	2003-2005
<i>Research Contract BIOTECH 052/2001</i> Immunomodulatory action of plant extracts from Cucumis melo (Cucurbitaceae)	Team Member	2001-2004
<i>Research Contract Viasan 7/2002</i> Development, validation and application of alternative procedures pharmacological and toxicological testing of products and active substances to use as pharmaceutical, cosmetic and biomedical application	Team Member	2002-2005
<i>Research Contract Viasan 236/2004</i> Creating a system with multiple users for applied research in experimental and clinical immunology	Team Member	2004-2005
<i>Grant CNCSIS</i> Monitoring changes in transmembrane calcium flux under the action of toxic doses of opioids in cellular experimental models	Team Member	2003-2004
<i>Research National Plan Contract PN Viasan 36N / 2003</i> Extraction and characterization of RNA and DNA isolated from liver and digestive tract tumors	Team Member	2004-2005
<i>Contract CALIST 1087/ 2004</i> System for cellular immunology methods and applications in toxicology and pharmacology	Team Member	2004-2006
<i>Research Contract Viasan 401/2004</i> The neuroprotective effect of flavonoids against oxidative stress involved in neurodegenerative diseases	Team Member	2004-2006
<i>Research Contract Viasan 3/2004</i> Studies and experimental research to obtain stem cells for specific immunomodulation	Team Member	2004-2006
<i>Research Contract CEEX 18</i> Innovative methods for photochemotherapy using new nanostructured photosensitizers - from synthesis to clinical trial	Team Leader	2005-2008
<i>Research Contract CEEX 107/2005</i> Anti-aging effects induced by photodynamic therapy with 5-aminolevulinic acid - molecular mechanisms studies	Team Leader	2006-2008
<i>Research Contract CEEX 108/2005</i> Molecular markers involved in the etiopathogenesis, diagnosis and prognosis of chronic venous insufficiency and chronic leg ulcers	Team Leader	2006-2008
<i>Research National Plan Contract PNII 41-083</i> Experimental model of photodynamic therapy with tetrakis-4-sulfonato-phenyl-porphyrin (TSPP) in spinocellular carcinoma	Team Leader	2007-2010
<i>Research National Plan Contract PNII 61-009</i> Staging and immunological monitoring in cutaneous malignant melanoma - innovative methods of diagnosis	Project Director	2007-2010
<i>Research National Plan Contract PNII 11-035</i> Cavitand and coronand type structures - new approach in the nanotechnology for antitumor compounds	Team Member	2007-2010
<i>Research National Plan Contract PNII 41-047</i> In vitro evaluation of heterocyclic drug systems with	Team Member	2007-2010

potential biomedical applications		
<i>Research National Plan Contract PNII 61-018</i> New nucleoside analogue active potential for cancer therapy - from synthesis at the cellular and molecular targets	Team Member	2007-2010
<i>Research National Plan Contract PNII 61-37</i> Development of a bioinformatics system QSAR modeling for evaluating anti-rheumatic activity and antitumor therapeutic agents in individualized therapies	Team Member	2007-2010
<i>Research National Plan Contract PNII 62-074</i> Development of irradiation schemes using optical coherence multiple fractionated radiation (SIFROC) with methyl aminolevulinic photodynamic therapy (MAL-PDT) – study on premalignant and malignant skin diseases non-melanocytic	Team Leader	2008-2011
<i>Research National Plan PCE- ID-PCE-2011-3-0918</i> New photosensitizers compounds in dermato-oncology	Team Member	2011-2016
<i>Research National Plan Contract PN-II-PT-PCCA-2013-4-1386</i> Innovative architectures of controlled drug released systems based on Hesperidin and Related Flavonoids for chronic leg ulcers wounds treatment	Team Member	2014-2017
<i>Research National Plan Contract Proiect Nucleu 09.33 - 01.01</i> Serum Biomarkers for cutaneous melanoma monitorization in Romanian population	Project Director	2009-2016
<i>PN-II-RU-TE-2011-3-0249 - Image-Based Assisted Diagnosis and Prognosis of Cutaneous Melanocytic Tumors</i>	Team member	2011-2014
<i>Research National Plan Contract PN-II-PT-PCCA-2013-4-1407</i> Regression-based theranostic polyfactorial classifier for melanoma patients stratification	Team Leader	2014-2017
<i>PN-III-P1-1.2-PCCDI-2017-0341 – Multi-diciplinary platform for increasing institutional capacity in dermato-oncology and dermato-pathology</i>	Team Leader	2018-2021
<i>PN-III-P1-1.2-PCCDI-2017-0782 – Innovative approaches in predictive regenerative medicine</i>	Team Leader	2018-2021
<i>PN-III-P1-1.2-PCCDI-2017-0062 - New methods of diagnosis and treatment: current challenges and technologic solutions based on nanomaterials and biomaterials</i>	Team member	2018-2021
<i>Research National Plan Contract Proiect Nucleu 18.21.01.01</i> <i>Normal values for melanoma biomarkers for improving immuno-score in cutaneous melanoma</i>	Project Director	2018
<i>Research contract UNATC “Oxytocin evaluation in sputum and urine samples”</i>	Coordinator	2018-2019
<i>PN 19.29.01.01/2019</i> Correlative circuits between epigenomic and epitranscriptomic alteration in skin tumorigenesis– identification and filtration for events in m6A/m5C-dependent editing as future molecular therapy targets	Team Member	2019-2021
<i>7PFE/16.10.2018 - Institutional development of Victor Babes National Institute from performance to excellence in health domain</i>	Team Member	2018-2020

List of Publications

Books and book's chapters:

- Interferences at the respiratory burst level between the signals delivered *in vitro* to human peripheral neutrophils *via* fMLP, complement and Fc receptors, Marinela Bostan, Alexandra Livescu, **Monica Neagu**, Gina Manda, Maria Chirila, Elena Mazalu, A. C. Bancu , L.M. Popescu, Immunoregulation in Health and Disease, Experimental and Clinical Aspects, edited by M.L.Lukic, M. Colic, Marija Mostarica-Stojkovic and K. Cuperlovic, Academic Press, Section 4: Host reactivity to graft, tumor and infection, Chapter 41, p. 431-438, 1997.
- Dictionary of Biochemistry and Molecular Biology, Elena Moldovan, **Monica Neagu**, Laurentiu M. Popescu, Medical Publishing House, 2001
- Methods in humoral and cellular immunology, Dorel L. Radu, Crina Stavaru, Iuliana Caras, Gina Manda, **Monica Neagu**, Eugen Radu, Cornel Ursaciuc, Laurentiu Mircea Popescu, Ed. University “Carol Davila”, Bucharest, 2006, ISBN: 973-708-084-X
- Chapter *Advances in Pancreatic Cancer Detection*, Cristiana Pistol Tanase, **Monica Neagu**, Radu Albuлесcu, Mihail Eugen Hinescu in *Advances in Clinical Chemistry*, 51, Pages 145-180, 2010 ISBN 13: 978-0-12-380981-0
- Chapter 9 Application of electron accelerators in conjunction with microwave sources for medical studies, Diana Martin, Gabriela Craciun, Irina Margaritescu, **Monica Neagu**, Elena Manaila, Daniel Ighigeanu, Laurentiu Tudor and Nicusor Iacob, in „Ultrasound and Microwave: Recent Advances in Organic Chemistry”, 2011: ISBN: 978-81-7895-532-2, Editors: Jean Pierre Bazureau and Micheline Draye
- Dermato-oncology*, Set of 2 Volumes, Vol. 1, Vol. 2, Authors (in alphabetical order): Robert Ancuceanu, Corina Baican, Daniel Boda, Daciana Brănișteanu, Daniel Brănișteanu, Constantin Căruntu, Constantin Ciuce, Carolina Constantin, Rodica Cosgarea, Adriana Diaconeasa, Laszo Fekete, Julia Edit Fekete, Ana-Maria Forsea, Dan Forsea, Nicolae Fotin, Victor Georgescu, Daniela

- Guțu, Mihai Ioana, Gabriel Ianoși, Simona Ianoși, Rodica Ion, Mihaela Leventer, Francisc Mixich, Roxana Mustăță, **Monica Neagu**, Dragoș Pieptu, Florian Popa, Cătălin Popescu, Raluca Popescu, Sanda Popescu, Caius Solovan, Simona Șeniță, Florica Stăniceanu, Laurențiu Vlădău, Cristiana Tănase, Dragoș Teodorescu-Brânzeu, Sabina Zurac, Editura Universitară „Carol Davila” București 2011-2013, ISBN: 978-973-708-542-9
7. Chapter 5 *Immune-therapy in cutaneous melanoma – efficacy immune markers*, **Monica Neagu**, Carolina Constantin in "Advancements in Tumor Immunotherapy and Cancer Vaccines ", pages 83-106, InTech, February 2012, ISBN 978-953-307-998-1
 8. Chapter 5 *The immune system - a hidden treasure for biomarker discovery in cutaneous melanoma*, **Monica Neagu**, In Gregory S. Makowski, editor: *Advances in Clinical Chemistry*, Burlington: Academic Press vol 58, 2012 pp. 89-140 ISBN: 978-0-12-394383-5
 9. *Fundamental Immunology Compendium*, Ursaciuc C, **Neagu M**, Manda G, Romanian Medical Life Ed, 2012, ISBN 978-973-160-057-4
 10. *Immunogenomics, Immunotranscriptomics compendium*, Ursaciuc C, **Neagu M**, Constantin C, Dobre M, Huica R, Romanian Medical Life Ed, 2013, ISBN 978-973-160-080-2
 11. *Proteomics from research to clinic*, Tanase C, **Neagu M**, Albuiescu R, Constantinescu S.N, Constantin C, Manole E, Popescu ID, Codrici E, Mihai S, Albuiescu L, Romanian Medical Life Ed, 2013, ISBN 978-973-160-075-8
 12. GHID DE ORGANIZARE A LABORATORULUI DE IMUNOLOGIE. Ioana Berindan-Neagoe, Cornelia Braicu, Roxana Cojocneanu-Petric, Carolina Constantin, Maria Dobre, Radu-Ionuț Huiică, Laura Ispravă, Gina Manda, Előd Nagy, Ionela Neagoe, **Monica Neagu**, Aurora Sălăgeanu, Mihaela Surcel, Cătălin Țucureanu, Cornel Ursaciuc, Mihaela Zlei. 2014, ISBN 978-973-693-550-3.
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7. The role of IGF/IGF-IR-signaling and extracellular matrix effectors in sarcoma pathogenesis, George N. Tzanakakis, Eirini-Maria Giatagana, Aikaterini Berdiaki, Ioanna Spyridaki, Kyoko Hida, **Monica Neagu**, Aristidis M. Tsatsakis, and Dragana Nikitovic, *Cancers* 2021, 13(10), 2478; <https://doi.org/10.3390/cancers13102478>.
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14. The Effects of Capsaicin on Gastrointestinal Cancers, George Denis Alexandru Popescu, Cristian Scheau, Ioana Anca Badarau, Mihai-Daniel Dumitrache, Ana Caruntu, Andreea-Elena Scheau, Daniel Octavian Costache, Raluca Simona Costache, Carolina Constantin, **Monica Neagu**, Constantin Caruntu, *Molecules* 2021, 26, 94. <https://doi.org/10.3390/molecules26010094>
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