

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **Carmen Panaitescu (Bunu)**
Address(es) Office: Splaiul Tudor Vladimirescu no. 14, 300173 Timisoara, Romania
Telephone(s) 0040-256-490 507; 0040-256-220479
Fax(es) 0040-256-490 507; 0040-256-220479
E-mail cbunu@umft.ro
Nationality Romanian
Date of birth 06.04.1961
Gender Female

Work experience

Dates 2000 - in present
Occupation or position held Specialist Physician in Clinical Immunology and Alergology (since 2000), Senior Physician in Functional Explorations (since 1994),
Main activities and responsibilities Health care
Name and address of employer Clinical Hospital no.4 Victor Babes, Timisoara, Romania
Type of business or sector Public health

Dates 1992 - in present
Occupation or position held Professor (2007); Assoc Professor (2004-2007); Lecturer (1998-2004); Assistant Professor (1992 - 1998); Director of the International Relation Department (since 2006)
Main activities and responsibilities Teaching in Physiology, research in Immunology and Allergology
Name and address of employer Victor Babes University of Medicine and Pharmacy Timisoara, Romania
 Department of Physiology and Immunology
Type of business or sector Higher education

Education and training

Dates 2001
Title of qualification awarded PhD in Medical Sciences
Principal subjects/occupational skills covered Physiology
Name and type of organisation providing education and training Victor Babes University of Medicine and Pharmacy Timisoara, Romania
Level in national or international classification ISCED 6
Dates 2000

Title of qualification awarded Specialist Physician in Clinical Immunology and Allergy
Principal subjects/occupational skills covered Clinical Immunology and Allergy
Name and type of organisation providing education and training Clinical Hospital no.4 Victor Babes, Timisoara, Romania
Level in national or international classification ISCED 5
Dates 1994

Title of qualification awarded Specialist Physician in Functional Explorations
Principal subjects/occupational skills covered Functional Explorations in Respiratory diseases
Name and type of organisation providing education and training Clinical Hospital no.4 Victor Babes, Timisoara, Romania
Level in national or international classification ISCED 5
Dates 1988-1992

Title of qualification awarded Debutant Physician in research
Principal subjects/occupational skills covered research
Name and type of organisation providing education and training Cantacuzino Institute, Timisoara Branch, Romania
Level in national or international classification ISCED 5
Dates 1985-1988

Title of qualification awarded Debutant Physician
Principal subjects/occupational skills covered General Medicine
Name and type of organisation providing education and training Timis County Clinical Hospital no.1, Timisoara, Romania
Level in national or international classification ISCED 5
Dates 1979-1985

Title of qualification awarded Physician
Principal subjects/occupational skills covered General Medicine
Name and type of organisation providing education and training Victor Babes University of Medicine and Pharmacy Timisoara, Romania
Level in national or international classification ISCED 5

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	C1	Proficient user

(*) *Common European Framework of Reference for Languages*

Training courses (selected)	<ul style="list-style-type: none"> - Clinical and Laboratory Allergology - Postgraduate training, Szeged University, Department of Dermatology, April, 2002, Szeged, Hungary. - Proposal and Aspects of Project Management - Training session, June, 2002, Viena, Austria - Asthma - from bench to bedside - Postgraduate Course, September, 2004, Glasgow, UK, - How to Write a Competitive Proposal for FP6 and How to Negotiate, Administer and Manage a FP6 Contract - EARMA training session, April, 2004, Brussels, Belgium. - Certified LSH-ACC-Mentor Multiplier - FP6 training session, May, 2005, Sofia, Bulgaria. - Therapeutic potential of stem cells - Postgraduate Course, July, 2005, Bristol University, UK - Postgraduate training in research project management - Postgraduate training, INSERM Transfert, May-June, 2006, Paris, France - Pulmonary Function Tests. Rhinomanometry. Challenge Tests for Physical Urticaria - Practical Courses, 7-11 June, 2008, XXVII EAACI Congress, Barcelona, Spain - GCP Course, 28-30 Sept. 2008, Szeged, Hungary - Treatment of allergic skin diseases – Postgraduate Course, 6 June, 2009, XXVIII EAACI Congress, Warsaw, Poland. - Allergy to antibiotics. Aspirin desensitization. Tests in the diagnosis of allergic diseases. Allergic emergencies: anaphylaxis management in the office - Practical Courses, 6-10 June, 2009, XXVIII EAACI Congress, Warsaw, Poland - GA²LEN Course on clinical trials - 6-8 July 2009, Italian National Drug Agency, Rome, Italy - State-of-the-art in drug hypersensitivity - EAACI/GA²LEN/ENDA/DGAKI Allergy School, 24-26 July, 2009, Munchen - Fischbachau, Deutschland - Asthma: monitoring airway disease – Postgraduate Course, 12-16 Sept, 2009, ERS Annual Congress, Vienna, Austria - Current and future trends in histamine-mediated disease management – Postgraduate Summit, 5-6 Fev, 2010, Viena, Austria - EAACI Pediatric Allergy and Asthma Meeting, 12-14 November, Venice, - Practical issues in drug hypersensitivity – Postgraduate Course, 6-9 June, 2010, XXVIII EAACI Congress, London, UK - Project management Course – Postgraduate Course for national accreditation, May- June, 2010, Timisoara
Social skills and competences	<ul style="list-style-type: none"> - Team spirit – I'm coordinating a team comprising approximately 10 people which are working in different projects. - Good communication skills gained through my experience as the Head of International Relations Department of the university (since 2006). - Good ability to adapt to multicultural environments, gained through the training stages and visits abroad.
Organisational skills and competences	<ul style="list-style-type: none"> - I'm coordinating a team of 10 people working in different research projects focussed on stem cell plasticity and basic and clinical studies in allergic diseases. - Organiser of 20 scientific events starting from 1998, the most important being: Regional Health Conference - Balkan Medicine Towards FP7, Bucuresti, 4-5 May, 2006, where for the workshop "Regenerative Medicine" I was EU rapporteur; Endothelial cell and tumor angiogenesis, 19-21 April 2007, with international participation (Germany, Italy, Austria, Greece and Finland); Regenerative medicine - a major challenge of the IIIrd millenium, 7-9 November 2007, with international participation (France, Germany and Italy) and 3 affiliated workshops on advanced technics of molecular biology; Angiogenesis: present and future, 26 – 28 March, 2009, with international participation (Germany, Italy, The Netherlands, Switzerland, Australia and Japan); - Coordinator for 10 scientific projects (3 international) and member in other 29 (see the Annex1) in the field of human stem cell use for regenerative medicine and in the field of therapy and prevention of respiratory allergic diseases, as well as institutional projects for human resource development (Leonardo, POSDRU).
International recognition of organisational skills and competences	<ul style="list-style-type: none"> - Independent expert for Ambient Assisted Living Joint Programme, being also rapporteur for a part of the proposals in the AAL-2008-1 call At EU level (since 2008); - Independent expert for programme Research potential 2010, FP7-REGPOT-2010-1. (since 2009) - COST expert (since 2010) - National Expert for Programme Committee Health - FP7 European Commission, Research Directorate-F1, Brussels (since 2006), and I'm actively involved in developing the Romanian position in European area of research, specifically addressing to the priority 1-Health.

National recognition of organisational skills and competences

- I'm member of the **Romanian National Council of Scientific Research in Higher Education - CNCSIS** (since 2006), for Health unit, and I'm actively involved in the evaluation of the national grants proposals as well as in their monitoring.
- I'm one of the **Romanian experts** for the national Programme Partnership, Direction 4 - Health, since 2007, and I'm actively involved in the evaluation of the national competitions proposals as well as in their monitoring.
- I'm a member of the **Research Council** of the University of Medicine Timisoara, involved in the evaluation of preclinical research projects of my University (since 2008), and the **Head of International Relations Department** of the university (since 2006), with the main responsibilities in the international research collaboration development.
- I'm responsible with residential programme for Allergy and Clinical Immunology in my university center

Research in allergy

I'm coordinating a national grant in partnership with other regional institutions: **Optimizing the prevention methods for the improvement of allergic patient management efficiency, PREVALERG** (41-011/2007-2010). The project sets as one of its tasks to develop an algorithm for monitoring allergic patients with respiratory disorders and to impose new prophylaxis and treatment guidelines, and is the first study on the efficiency of prevention to exposure to aeroallergens in Romania.

Objectives:

1. Respiratory allergic patients monitoring algorithm

Activities: (1) Allergic patient selection and monitoring protocols; (2) Work protocols for aeroallergens evaluation and monitoring; (3) ALERGO BD data base loaded with patients' initial and monitoring information; (4) Allergic patients guide; (5) Good practice guide for allergic diseases management

2. Human dendritic cells response to pulsing with aeroallergens and pro-inflammatory mediators

Activities: (1) Dendritic cells culture and differentiation protocols; (2) Assessment of the expression of the DCs maturation markers: CD80, CD83, CD86 and HLA-DR in allergy vs healthy state (3) Evaluation of the response to active allergen as compared with its inactive form and pro-inflammatory factors (4) Allogeneic naive T cell CD4+ response in co-culture with DCs - ELISA testing for IL10, IFN- γ (Th1 response) and IL-4 (Th2 response). (4) GATA3 expression in dendritic cells in allergic state.

3. Studies on mechanisms of in vivo and in vitro allergic reactions in respiratory diseases

Activities: (1) In vitro study of the allergic mechanism of AHR induction - using specific sensitised human bronchial strips and mouse bronchi in the isolated organ bath; (2) Immuno-histochemistry studies regarding the involvement of the mast cell in the induction of a AHR (3) Immunohistochemical studies on fragments of nasal mucosa and nasal polyps from patients with allergic rhinitis by marking with mAb anti-tryptase/anti-elastase and anti-ECP and the proliferation capacity (Ki67 and thymine dimmers) vs. apoptosis (apoFas.) (4) Western Romania annual pollen calendar.

4. Bronchial remodelling assessment process

Activities: (1) Fibroblasts isolation and culture protocols from bronchial explants by pro-inflammatory factors stimulation (myofibroblastic transforming inductor TGF- β_2 vs Th2 proinflammatory cytokines IL-4, IL-13); (2) Myofibroblasts immunohistochemical characterization; (3) Myofibroblasts response to allergic inflammation inductors stimulation as bronchial remodeling prediction factors

Research in stem cell

One focus in research is the development of **advanced therapies with adult human stem cells**. I'm working in a research team with experience in the field of in vitro and in vivo analysis of human stem cell potency, immunological cell function, and quality control, all these activities being financed by national grants. At EU level, we were involved in a FP6 integrated project **GENOSTEM** (LSHB 1.1./503161/2003-2007) focused on stem cell use for cell therapies in soft tissue defects. Within the project, we studied the basic research of human stem cell biology (isolation and purification from different human sources, properties and culturing, enrichment and differentiation). Another direction connected with stem cell research is the study of **ethical, regulatory, and legal issues** raised in the field of stem cell use for advanced therapies, based on the collaborative work within EU funded project **CASCADE** (FP7-223236/2009). In this project, having as partners research teams from France, Italy, UK, Germany and Romania, I'm the coordinator of the work package designed for ethics and regulations in stem cell research. At national level, I'm bringing my experience in ethical issues regarding cell and tissue transplantation in collaboration with the Romanian Transplant Agency. At European level, these efforts are sustained by the partners Cell Factory (Italy) and EFS (France) who are experienced in applying for national approval for cell therapy production. In addition, Oxford University (UK) provides expertise in regulatory issues relating to clinical trials and transplantation in line with EU Directives and licensing. German experience to apply for a license of the Paul-Ehrlich-Institute to offer cellular therapeutics for clinical use is supplemented from the team of the Saarland University. All of these CASCADE partners work in close relationship to the national regulatory bodies, and therefore a network starts to be created via CASCADE to cross-link different European agencies with the scientific results generated by the consortium. Based on our good collaboration, we started a bigger project (2009-2012) involving MSC use for advance therapies in bone defects – **REBORNE** (FP7-241879/2009, Large-scale integrating project - HEALTH-2009-1.4-2).

Personal focus. Technical skills and competences	Excellent skills in different laboratory techniques involving stem cell plasticity studies, dendritic cells differentiation and in vitro studies of their involvement in allergic diseases Cardio-Pulmonary function tests Evaluation and monitoring of airway diseases Evaluation and monitoring of allergic diseases Project management
Computer skills/competences	Good command of Microsoft Office™ tools
Additional information	<p>RESEARCH WORK:</p> <ul style="list-style-type: none"> - Books: 28 in the field of physiology, immunology and pathology, first author – 3 and joint author – 25 (24 in Romanian language and 3 in English language); - Papers published in Romania 53: 17 (first author) and 36 (joint author); - Papers published abroad: 1 (first author), 1 (joint author); - Abstracts: 105 published in Romania and 45 published at international meetings. <p>MEMBERSHIP OF PROFESSIONAL ORGANISATIONS:</p> <ul style="list-style-type: none"> - European Academy of Allergology and Clinical Immunology - European Society of Physiology; - European Respiratory Society; - Romanian National Society of Physiology; - Romanian National Society of Immunology; - Romanian National Society of Pneumology; - National expert for Programme Committee Health - FP7 European Commission, Research Directorate-F1, Bruxelles (from 2006) - Member of the Romanian National Council of Scientific Research in Higher Education (from 2006)
Annexes	<ul style="list-style-type: none"> - Annex 1, List of main papers published in the last ten years. - Annex 2, List of research projects;

Annex 1 - Main papers published / presented in the last 10 years
Prof. Carmen Panaitescu (Bunu), MD, PhD

• **Papers published in ISI journals**

1. Bojin FM, Gavriiliuc OI, Cristea MI, Tanasie G, Tatu CS, **Panaitescu C**, Paunescu V., Telocytes within human skeletal muscle stem cell niche, *J Cell Mol Med.*, 2011, 15(10):2269-72. doi: 10.1111/j.1582-4934.2011.01386.x., (ISI, Medline, Index Medicus), impact factor: **2.27**, R.I.S. (Relative Influence Score): **2,27076**.
2. Gómez-Barrena, E., Rosset, P., Müller, I., Giordano, R., **Bunu C.**, Layrolle, P., Kontinen, YT., Luyten, FP., (2011), **Bone regeneration: stem cell therapies and clinical studies in orthopaedics and traumatology**, *J Cell Mol Med.* 2011 Jan 20. doi: 10.1111/j.1582-4934.2011.01265.x (ISI, Medline, Index Medicus), impact factor: **2.27**, IDS Number: **769ZX**, R.I.S. (Relative Influence Score): **2,27076**.
3. Păunescu V, Bojin FM, Tatu CA, Gavriiliuc OI, Rosca A, Gruia AT, Tanasie G, **Bunu C**, Crisnic D, Gherghiceanu M, Tatu FR, Tatu CS, Vermesan S. (2010), **Tumor-associated fibroblasts and mesenchymal stem cells: more similarities than differences**, *J Cell Mol Med.*, 20:1-12, (ISI, Medline, Index Medicus), ISI Journal Citation Reports © Ranking: 2009: 9/92 (Medicine Research & Experimental); 41/161 (Cell Biology), impact factor: **5.228**, IDS Number: **740ME**, R.I.S. (Relative Influence Score): **2,27076**.
4. Păunescu V, Deak E, Herman D, Siska IR, Tănasie G, **Bunu C**, Anghel S, Tatu CA, Oprea TI, Henschler R, Ruster B, Bistrrian R, Seifried E (2007) **In Vitro Differentiation of Human Mesenchymal Stem Cells to Epithelial Lineage**, *J Cell Mol Med*,11:502-308, (ISI, Medline, Index Medicus), citations 13, impact factor **6.807**, IDS Number: **204AE**, R.I.S. (Relative Influence Score): **2,27076**.
5. Păunescu, V., Suci, E., Tatu, C., Plesa, A., Herman, D, Siska, I. R., Suci, C., Crisnic, D., Nistor, D., Tănasie, G., **Bunu C.**, Raica, M, (2003) Endothelial cells obtained from hematopoietic stem cells are functionally different from those obtained from human umbilical vein, *Journal of Cellular and Molecular Medicine*, 7, 3, 455-460, (ISI, Medline, Index Medicus), citations 10, impact factor **2.153**, IDS Number: **863CO**, R.I.S. (Relative Influence Score): **2,27076**.

• **Papers published in international database journals**

1. Oancea, C., Jiga, J., Paunescu, V., Mihalas, G., **Bunu, C.**, Jiga, L., (2007) Experimental model of in vitro generation of human dendritic cells. *Pneumologia*, ISSN 1223-3056/ *Pneumoftiziologia*, SSN 0377-5011, 56, 4, 183-189 (Index Medicus, Medline)
2. **Bunu, C.**, Siska, I., Tanasie, G., Deak, E., Tatu, C., Ciocotisan, V., Paunescu, V, (2005) Expression of myogenin and myogenic 5 in human adult mesenchymal stem cells after 5-azacytidine stimulation, *Proceedings of the 6th International Congress on Coronary Artery Disease: From Prevention To Intervention*, *Editor(s):* Lewis B.S., Ongen Z., Flugelman M.Y., Halon D.A., ISBN: 978-88-7587-200-7, 41-45
3. **Bunu, C.**, Vancea, D., Paunescu, V, (2003) Characteristics of bronchial inflammation in children with chronic non-productive cough, *Pneumologia*, 53, 1, 15-20 (Medline)
4. Mihaicuta, S., Tudorache, V.M., Muntean, D., Melcescu, E., **Bunu, C.**, (2001) Test for determination of attention in patients with sleep apnea syndrome, *Pneumologia*, L, 2, 75-78 (Medline)
5. Siska, I.R., Avram, J, Tatu, C., **Bunu, C.**, Schneider, F., Maties, R, (1999) Some aspects concerning the antioxydant capacity of venous blood in lower limbs varicose veins, *Oxygen Transport to Tissue XXI*, eds. D. Delpy and A. Eke, Plenum Press NY, 445-452 (Medline)
6. Petroiu, A., Mihalas, G., Siska, I.R., Tanasie, G., Mederle, C., **Bunu, C.**, Schneider, F., (1993) Experimental studies on human bronchial smooth muscle in vitro, *Rev. Roum. Physiologie* ISSN 1223-2076, 3-4, 161-16 (Medline)
7. Stanciu, L., Branea, I., Radivo ievici, A., Avram, R., Berinde, L., Ardeleanu, E., **Bunu, C.**, (1988) Nitratii retard in tratamentul cardiopatiei ischemice dureroase - experimental clinic al produselor Nitro-Mack si Iso-Mack, *Timisoara Medicala*, 33, 1, 29-33 (Medline)

• **Papers published in national database journals (CNCSIS B+/B)**

1. Macesanu, S, **Bunu Panaitescu, C.**, (2010) Clinical comparision between the control levels of asthma in elderly and young adult asthmatics; is asthma less controlled in the elderly?, *Timisoara Medical Journal*. Vol. 60: No. 2: 19-23.
2. Matis, B, **Bunu, C**, Tanasie, G., Tatu, C, Bojin, F., Tatu, C., Gavriiliuc, O., Cernescu, L., Campean, A M., Raica, M., Paunescu, V., (2010) The effect of proinflammatory cytokines on pulmonary fibroblasts phenotype - a key role in airway remodeling in asthma, *Timisoara Medical Journal - in curs de publicare*
3. Toma, A. O., Fara, L., Poenaru, M., **Bunu, C**, Sarău, C., Horhat, D., Horhat R., Stanese A M, Mocanu, V., (2010) Evaluation of nasal obstruction with rhinomanometry after nasal provocation in allergic rhinitis., *Medicine in Evolution*, Volume XVI, No.3, 2010: 37-42

4. Fara, L., Toma, A. O., Poenaru, M., **Panaiteescu Bunu, C**, Sarău C., Horhat R, Horhat D., Stanese A M., Mocanu V., Horhat F., (2010) The management of the otitis media with effusion in the ENT Clinic Timisoara, *Medicine in Evolution*, Volume XVI, No.3: 95-99
5. Toma, A. O., Fara, L., Poenaru, M., **Bunu, C**, Sarău, C., Horhat, D., Horhat R., Stanese A M, Mocanu, V., (2010) Diagnosis of nasal eosinophilia and mast cells in allergic rhinitis, *Medicine in Evolution*, Volume XVI, No.4, 2010,
6. Fara, L., Toma, A. O., Poenaru, M., **Panaiteescu Bunu, C**, Sarău C., Horhat R, Horhat D., Stanese A M., Mocanu V., Horhat F., (2010) The association between otitis media with effusion and allergic rhinitis., *Medicine in Evolution*, Volume XVI, No.4
7. Cernescu L, Jiga J, Jiga L, **Bunu C**, Rosca A, Matis B, Cernescu C, Mirea F, Tatu C, Tanasie G, Paunescu V, (2009), Dendritic cells induced Th1/Th2 cytokine balance in response to allergen challenge, *Timisoara Medical Journal*, Vol. 59, No. 3 - 4:17-22 (Index Copernicus)
8. Tanasie, G., Bojin, F., Tatu, C., Gavriluc, O., Tatu, C., Nistor, D., Ionita, H., **Bunu, C.**, Paunescu, V., (2009) Mechanisms Involved in Mesenchymal Stem Cells Differentiation towards the Epithelial Lineage. Effects of Chemical Inductors, *Fiziologia –Physiology*; 19, 3(63), ISSN 1223-2076, 7-12 (Index Copernicus)
9. Matis, B., **Bunu, C.**, Tanasie, G., Tatu, C., Bojin, F., Cernescu, L., Tatu, C., Marusceac, L., Paunescu, V., (2009) Establishment, Propagation and maintenance of primary pulmonary fibroblasts, *Fiziologia –Physiology*; 19, 2(62), ISSN 1223-2076, 17-20
10. Cernescu, L., Jiga, J., Jiga, L., **Bunu, C.**, Cernescu, C., Matis, B., Bojin, F., Tatu, C., Tanasie, G., Paunescu, V., (2009) Dendritic cells and T cells activation; *Fiziologia –Physiology*; 19, 2(62), ISSN 1223-2076, 21-24
11. Tatu, C., Tanasie, G., Puscasiu, D., Tatu, R.F., Bojin, F., **Bunu, C.**, (2009), Molecular regulation of skeletal muscle atrophy; *Fiziologia –Physiology*; 19, 2(62), ISSN 1223-2076, 7-11
12. Tatu, C., Tănăsie, G., Puscașiu, D., Flangea, C., Tatu, R.F., **Bunu C.**, (2008) Stem cells in cutaneous epithelium, *Fiziologia – Physiology*; 18 (57), ISSN 1223-2076, 14-19
13. Tatu, C., Ciocotisan, V., Tănăsie, G., Bojin, F., Puscasiu, D., Tatu, R.F., **Bunu, C.**, (2008) Correlation between HSP and different diseases, *Fiziologia –Physiology 2008*; 18 (60), ISSN 1223-2076, 4-6
14. Tatu, C., Ciocotisan, V., Tanasie, G., Puscasiu, D., Tatu, R.F., **Bunu, C.**, (2008) HSP 72 and the immune response, *Fiziologia – Physiology 2008*; 18 (59), ISSN 1223-2076, 4-7
15. **Bunu, C.**, Tatu, C., Siska, I., Tanasie, G., Mirea, F., Nistor, D., Grindei, M., Paunescu, V, (2006) Method optimization for large scale production of anti-CD34 and anti-CD45 monoclonal antibodies in hybridoma cultures, *Fiziologia. Physiology*, ISSN 1223-2076, 16, 2 (50), 19-22
16. **Bunu, C.**, (2006) Regenerative medicine - a challenging domain of research in XXIth century, *Fiziologia. Physiology*, ISSN 1223-2076, 16, 1 (49), 4-8
17. Tanasie G, Tatu C, **Bunu C**, Tascau M, Igna C, Vasilco R, Cristea M, Paunescu V, Anghel S, Schuszler L, Mirea F, Voicu A, Dema A, Paunescu V (2007) Stem cells and osteoarticular regeneration, *Fiziologia. Physiology*, ISSN 1223-2076, 17, 3 (55), 8-11
18. Tanasie G, Anghel S., Mirea F., Siska IR, Ordodi V, Nistor D, Tatu C, **Bunu C**, Boss H, Poenaru D (2007) In Vitro Human Adult Mesenchymal Stem Cells Differentiation towards Chondrogenic Lineage, *Fiziologia. Physiology*, ISSN 1223-2076, 4 (56), 17
19. Nistor D., Siska I.R., Tănăsie G., Tatu C., **Bunu C.**, Mirea F., Cioacă R., Păunescu V., Mihalas G: (2006) Human hematopoietic stem cells – source of normal autologous endothelial cells; *Fiziologia – Physiology*; ISSN 1223-2076, 16, 3(51): 31- 25
20. Oancea, C., Jiga, L., Jiga, J., **Bunu, C.**, Mirea, F., Paunescu, V., (2005) Dendritic cells. Therapeutic implications, *Fiziologia-Physiology*, ISSN 1223-2076, 15, 12-15
21. Oancea, C., Jiga, J., Jiga, L., Ordodi, V., **Bunu, C.**, Marincu, I., Mihalas, G., Paunescu, V. (2005) New therapy. Dendritic cells, *Medicine in evolution*, ISSN 1454-8224, 3, 72-75
22. Mihalas, G., **Bunu, C.**, Tanasie, G., Siska, I.R., Noveanu, L., (2003) The effects of nitric oxide on airway responsivity in healthy and ovalbumin sensitised rats, *Fiziologia – Physiology*, ISSN 1223-2076, 13, 2 (38), 8-16.
23. Mihalas, G., **Bunu, C.**, Tanasie, G., Noveanu, L., Siska, I.R., (2003) The effects of leukotriene receptor antagonists versus corticotherapy on airway responsiveness in ovalbumin-sensitized rats, *Timisoara Medical Journal*, ISSN 1583-5251, 53, 2, 117-122.
24. Vancea, D., **Bunu, C.**, Paunescu, V, (2002) The effect of anti-leukotrienes therapy on the cell profile in broncho-alveolar lavage fluid in children with stable bronchial asthma, *Timisoara Medical Journal*, ISSN 0493-3079, 52,1, 49-53.
25. **Bunu, C.**, Mihalas, G., Vancea, D., Cinca Tudor, R, (1999) The impact of air pollutants on airway hyperresponsiveness, *Fiziologia. Physiology*, ISSN 1223-2076, 9, 4 (24), 28-30
26. Mihalas, G., **Bunu, C.**, Petroiu, A., Schneider, F, (1999) The impact of air pollutants on the function of the airways, *Fiziologia. Physiology*, ISSN 1223-2076, 4 (24), 9, 21-27

• **Abstracts published in abstract books at international conferences/congresses**

1. **Panaiteescu, C.**, Matis, B., Gavriluc, O., Cernescu, L., Tanasie, G., Tatu, C., (2011) *Fluticasone propionate and Budesonide do not stop the in vitro effect of pro-inflammatory cytokines on pulmonary fibroblasts phenotype*, 30th EAACI Congress, 11-15 June, Allergy and Immunology, Suppl., P 1551
2. **Panaiteescu, C**, Cernescu, L., Jiga, J., Jiga, L., Lungeanu, D., Rosca, A., Matis, B., Bojin, F., (2011) *Serum IgE levels are influenced by both IL-4 and IL-13 in house dust mites allergic patients*, 30th EAACI Congress, 11-15 June, Allergy and Immunology, Suppl., P1204

3. Matis, B., **Bunu, C.**, Tanasie, G., Tatu, C., Cernescu, L., Bălăceanu, A., Igreț, L., Căpraru, A., (2010) *The in vitro effect of corticosteroids on components of airway remodeling*, ERS Barcelona Congress, 18-22 Sept., European Respiratory Journal Supplement; P2413, pg. 425s
4. **Bunu, C.**, Marusceac, L., Tatu, C., (2010) *Cutaneous manifestations associated with toxocariasis in children*, EEAACI-FAAM Meeting, Venetia, 11-13 Nov., Final EEAACI-FAAM programme and Abstracts, LBN13, pg. 17
5. **Bunu, C.**, Cernescu, L., Jiga, J., Jiga, L., Rosca, A., Tatu, C., Tanasie, G., Matis, B., Bojin, F., Marusciac, L., (2009) *Th1/Th2 Cytokine response to in vitro allergen challenge of dendritic cells derived from monocytes*, EAACI Pediatric Allergy and Asthma Meeting, 12-14 November, Venice, Italy, Pediatric Allergy and Immunology, Vol. 20, Suppl. 20, pg. 60-61
6. **Bunu, C.**, Cernescu, L., Jiga, L., Jiga, J., Matis, B., Tatu, C., Tanasie, G., (2009) *The physiology of dendritic cells/CD4+ T cells response to allergen challenge*, XXXVIth International Union of Physiological Sciences (IUPS), 27 -31 July, Kyoto, Japan, The Journal of Physiological Sciences, Vol 59, Suppl 1; P2PM-2-33; pg 270
7. Tanasie G, Siska, IR, Tatu, C, Bojin, F., **Bunu, C.**, (2009) *The comparison of the in vitro histamine induced airways smooth muscle response in human bronchi and rat trachea*, XXXVIth International Union of Physiological Sciences (IUPS), 27 -31 July, Kyoto, Japan, The Journal of Physiological Sciences, Vol 59, Suppl 1; pg 538
8. Nistor, D., Siska, I., Tanasie, G., **Bunu, C.**, Tatu, C., Bojin, F., Plesca, D., Paunescu, V., (2009), *In vitro differentiation of human mesenchymal stem cells toward endothelial cells*, XXXVIth International Union of Physiological Sciences (IUPS), 27 -31 July, Kyoto, Japan, The Journal of Physiological Sciences, Vol 59, Suppl 1; pg 323
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Annex 2 - LIST OF RESEARCH PROJECTS
Prof. Carmen Panaitescu (Bunu), MD, PhD

Project / Programme	Position held	Period
INTERNATIONAL		
Regenerating Bone defects using New biomedical Engineering approaches (REBORNE) , proposal reference number: 241879, Large-scale integrating project - HEALTH-2009-1.4-2: Regeneration of tissue using biocompatible materials and cells, ranked up to 13 from 15 and financed in FP7, 3 rd call-	Coordinator WP 7	2010-2012
Cultivated Adult Stem Cells as Alternative for Damaged tissue - CASCADE , proposal reference number: FP7-223236, ranked up to 13.5 from 15 and financed in FP7, 2 nd call	Coordinator WP 3	2009-2011
Development of a pan-European standards and criteria for the inspection of blood establishments. (EU-Blood-Inspection – EUBIS) , Co funded by the European Commission Health and Consumer Protection Directorate General, Public Health and Risk Assessment Directorate, Grant Agreement No.2006202	Team member	2007-2009
European Optimal Blood Use Project. (EUOBUP) , Co funded by the European Commission Health and Consumer Protection Directorate General, Public Health and Risk Assessment Directorate, Grant Agreement No.2006209	Team member	2007-2009
Development of a pan-European standard operating procedure (SOP) methodology reflecting European best practice (EU-Q-Blood-SOP) , Co funded by the European Commission Health and Consumer Protection Directorate General, Public Health and Risk Assessment Directorate, Grant Agreement No.2004217	Team member	2005-2007
Adult mesenchymal stem cells engineering for connective tissue disorders. From the bench to the bed side , GENOSTEM No. 503161, Integrated Project FP6	Team member	2003-2006
Development of paneuropean standards and criteria for the European Quality Management System Network for Blood Safety (EU-QMS-BLOODNET) , EU Public Health Programme, Louxemburg	Team member	2003-2006
Postgraduate training in research project management , LEONARDO mobility project RO/2005/95158/EX	Project director	2005-2006
Postgraduate Training in Cellular therapies Grant LEONARDO, 2003/C 62/04	Team member	2004-2005
SUBMITTED PROJECT PROPOSALS within FP7-HEALTH-2007-B call for proposals 2007		
Networking GMP Facilities in Advanced Therapies - ADVANTHER , proposal reference number: FP7-223278	Team member	
Cord Blood Stem Cells for Renal Regeneration - COBRA , proposal reference number: FP7-223538	Team member	
CLINICAL STUDY		
Efficacy and safety of AVT-015 mg once daily over 7 days in patients with moderate persistent atopic asthma – A double-blind, randomized , placebo-controlled clinical study , Protocol No AVT-01/2/AST/02, EUDRACT No 2006-004187-32	Allergy and Immunology specialist	2006
NATIONAL		
Optimising the prevention methods for allergic patient management efficiency, (PREVALERG) , II National Research and Development Plan (PN II) / Partnerships Module No. 41-011/2007	Project director	2007-2009
Tumor neural stem cells: a new therapeutic target in the multimodal treatment of malignant cerebral gliomas (TUMORSTEM) , PN II / Partnerships Module	Project director (Partner 1)	2007-2009
Genetic engineering of tumour stem cells for immunomodulation in cancers of non-viral origin, (ONCOSTEM) , PN II / Partnerships Module No. 41-019/2007	Team member	2007-2009
Autologous transplantation of stem cells in cardiovascular diseases, (TRANSTEM) , PN II / Partnerships Module No. 41-075/2007	Team member	2007-2009
Reconstruction of bone segmentary defects through biomimetic matrices colonised with osteogenic cells (RECON-OS) , PN II / Partnerships Module No. 41-091/2007	Team member	2007-2009
Promotion of stem cell therapy research (PRO CEL-TERA) Romanian “Research of Excellence Programme” (CEEX) / Module III No. 206	Project director	2006-2008

Experimental studies on human mesenchymal stem cells transfected for developing an innovative therapeutic strategy of glioblastoma (GLIOSTEMCEL), CEEX/, Module I, VIASAN no.176/2006	Project director (Partner 1)	2006-2008
Development of tissue bioengineering techniques for myocardial reconstruction VIASAN no. 311/2004 (CARDIOSTEM)	Project director	2004 - 2006
Development of biotechnologies for dendritic cell vaccines in solid tumours immunotherapy, 2004-2006, BIOTECH No. 4610	Project director	2004 - 2006
Impact of multicomponent functional food in fighting against obesity and atherosclerosis (ANTIATERO-ALIM), CEEX/2006, Module I	Team member	2006-2008
Innovative methods for inducing the immune tolerance to non-self phenotypes to avoid post-transplant rejects (GREFACCEPT), CEEX/2006, Module I	Team member	2006-2008
Innovative bio-ortopedic methods for articular reconstruction, CEEX/2006, Module I , VIASAN no. 70	Team member	2006-2008
Ro-nanomed, nanomedicine national integrated network (MATNANTECH-42), CEEX/2006, Module I	Team member	2006-2008
Development of innovative therapies in osteoarticular reconstruction, CEEX VIASAN 45/2005	Team member	2005-2008
Stem cell therapy for vascular regeneration and reconstruction, CEEX VIASAN 44/2005	Team member	2005-2008
Assessment of the efficiency of new classes of antileukotriene therapy. In vivo and in vitro experimental studies, Grant A – CNCSIS	Team member	2004-2005
Development of cell therapies in diabetes mellitus, VIASAN No. 314/2004	Team member	2004 - 2006
Development of a regional bank of stem cells from umbilical cord blood and placenta for autologous and autogenous transplantation, VIASAN No. 308/2004	Team member	2004 - 2006
Microsensors and actuators for micro-opto-electromechanical systems obtained by alloys nano-engineering, MATNANTECH	Team member	2004-2006
Development of a tissue bioengineering technique for osteoarticular and myocardial reconstruction, MATNANTECH, No. 162 (303)	Team member	2003 - 2005
Monitoring of bronchial responsivity in asthma - clinical and experimental study, Grant A - CNCSIS, No. 1331/33454/.2002 and 620/33542/2003	Team member	2002-2003
Molecular targets in modern antitumour therapy (immunotherapy, genetic therapy) VIASAN No. 481/2004, priority project	Team member	2003-2005
Physiology of tracheo-bronchial smooth musculature. Experimental and clinical studies, Research contract with the Ministry of Education, Research and Technology	Team member	1992-1995
Bronchomotricity. Immuno-allergic implications, Research contract with Medical Sciences Academy	Team member	1992-1995
Preclinical and clinical research of Romanian product Antagonic-stress, research contract with POLGEC Ltd., Bucharest	Team member	1990-1992
NATIONAL PROJECTS FOR HUMAN RESOURCES DEVELOPMENT		
European Quality and Professional Competence in Medical University Education and Management (E-mediqua) No 56976 POS DRU No 86, Major intervention domain 1.2., <i>Universities for future</i>	Team member UMFVBT (CO)	2010-2013
Project for the Development of Doctoral Programmes with European Extent in Medicine and Life Sciences, No 40712, POS DRU	Team member UMFVBT (P4)	2009-2011
Molecular and cellular biotechnologies with medical applications, No 60746, POS DRU-Programme PostDoc-89	Coordinator UMFVBT (P4)	2009-2012
Specialization for performance, efficacy and response in organ transplant domain (SPER) No. 59616, POSDRU-Competences-81	Team member UMFVBT	2009-2012