europass Curriculum vitae

PERSONAL INFORMATION

Cornelia Florentina Pluteanu



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Sex Female | Date of birth 22/08/1973 | Nationality Romanian

WORK EXPERIENCE

17/02/2020–Present

Associate Professor

Faculty of Biology, University of Bucharest, Bucharest (Romania)

Teaching: “Cellular and Molecular Pathology”, “Toxicology and Pathological Biomarkers” lectures and seminars for master students in Medical Biology, “Cell Biology” and “Cell communication” lectures for undergraduate students in Biology

Research: main focus on the role of neurohumoral mediators on the electrical activity of cardiac and vascular cells

Methods: electrophysiology, epifluorescence, primary cell cultures, biochemistry, molecular biology

09/2014–16/02/2020

Postdoctoral Research Associate

Universitätsklinkum Münster, Münster (Germany)

Teaching: Problem-oriented learning (POL) seminars in Pharmacology and Toxicology for medical students

Research: Pathophysiology and pharmacology of the cardiovascular system: cardiac electrical remodeling of genetically modified mice with altered cAMP signaling

Methods: electrophysiology, molecular biology on adult atrial and ventricular cardiomyocytes

DE certificate: authorization to handle and perform experiments on animals

08/2010–06/2014

Postdoctoral Research Associate

Faculty of Pharmacy, Philipps-Universität Marburg, Marburg (Germany)

Teaching: Practical courses in “Animal Physiology” - PC pools for Pharmacy students

Research: Pathophysiology and pharmacology of the cardiovascular system: hypertension and type 2 diabetes as substrates for atrial fibrillation onset

Methods: electrophysiology, confocal and epifluorescence imaging, molecular biology on adult atrial and ventricular cardiomyocytes

07/2005–02/2010

Postdoctoral Research Associate

Cardiovascular Institute, Department of Medicine, Loyola University Medical Center, Chicago, IL (United States)

Teaching: Small session group discussion for medical students: "Electrical properties of excitable tissues"

Research: on the role of voltage dependent T-type calcium channels in the development and pathology of cardiovascular tissues

Methods: electrophysiology, epifluorescence, primary cell cultures, cellular and biochemical techniques, stem cell differentiation to cardiomyocytes, animal models of hypertrophy and pulmonary hypertension, isolation of adult cardiomyocytes

10/2002–09/2009

Assistant/Associate Professor

Faculty of Biology, University of Bucharest, Bucharest (Romania)

Teaching: Lectures in “Neurobiology”, “Electrophysiological techniques” and “Molecular Biology of the

Neuron" for students in Biology and Master programs
Practical courses in "Animal Physiology" and "Neurobiology" for Biology and Biochemistry students

Research: on the role of temperature sensitive TRP channels in pain transduction: mechanisms of acute desensitization in primary cultures of dorsal root ganglia neurons

Methods: electrophysiology, epifluorescence microscopy, primary and secondary cell cultures, molecular biology

09/1996–07/1999 **Biochemist**

SC. Biotehnos SA, Bucharest (Romania)

Research: on the anti-inflammatory effect of natural extracts by hyaluronidase activity inhibition

Methods: spectrophotometric and spectrofluorimetric enzymatic assays

EDUCATION AND TRAINING

05/2005 **Humboldt Fellowship**

Inst. of Applied Physiology, Univ. Hospital Hamburg-Eppendorf, Univ. of Hamburg, Hamburg (Germany)

Training on patch-clamping olfactory bulb slices,

Acquired expertise: biophysical properties of human ether-a-go-go (HERG) inward rectifier potassium current

07/2003–09/2003 **Physiological Society Fellowship**

Department of Physiology, University of Bristol, Bristol (United Kingdom)

Training on surgical interventions to induce spinal nerve ligation (model of neuropathic pain), antibody production and purification,

UK certified for surgical interventions on small animals.

Acquired expertise: sharp electrode intracellular recordings, animal surgery, immunostaining,

08/1999–07/2002 **PhD in Biology** Magna cum laude

Faculty of Biology, University of Bucharest, Bucharest (Romania)

Thesis title: "Chemical Modulation of the Neuronal Permeability of the Membrane through Vanilloid, Adrenergic, Cholinergic and Glutamatergic Receptors "

Research: on the role of vanilloid receptor and adrenergic receptors in pain transduction; pharmacological characterization of new substances with potential inhibitory effect on the glutamatergic and cholinergic receptors.

Acquired expertise: patch-clamp, voltage-clamp, primary cell cultures, plasmid transfections, data analysis, pharmacology,

04/2001–09/2001 **Socrates Erasmus Fellow**

Dept. of Life Sciences, University Park of Nottingham, Nottingham (United Kingdom)

Research: pharmacological characterization of new structural derivates of polyamines with potential inhibitory effect on the glutamatergic and cholinergic receptors.

Acquired expertise: patch-clamp, voltage-clamp, primary cell cultures, data analysis, structure - activity pharmacological studies

08/2000–09/2000 **Predoctoral Research Associate**

Dept. of Life Sciences, University Park of Nottingham, Nottingham (United Kingdom)

Research: pharmacological characterization of new structural derivates of polyamines with potential

inhibitory effect on the glutamatergic and cholinergic receptors.

Acquired expertise: patch-clamp, voltage-clamp, primary cell cultures, data analysis, structure - activity pharmacological studies

05/2000–06/2000

Research Associate

Sobell Dept of Neurophysiology, University College of London, London (United Kingdom)

Research: on the time dependence of the vanilloid receptor expression in cultured dorsal root ganglia neurons following

Acquired expertise: patch-clamp, primary cell cultures, peripheral neurophysiology: measurements of nerve conduction velocity for assessing peripheral neuropathy in patients

07/1997–08/1997

Tempus Fellow

Dept. of Life Sciences, University Park of Nottingham, Nottingham (United Kingdom)

Research: pharmacological characterization of new structural derivates of polyamines with potential inhibitory effect on the cholinergic receptors.

Acquired expertise: patch-clamp, artificial membranes, cell cultures, data analysis, structure - activity pharmacological studies

10/1996–06/1997

Master in Neurobiology

Faculty of Biology, University of Bucharest, Bucharest (Romania)

Dissertation thesis title: "The Influence of Local Anesthetics on the Permeability of Artificial Membranes"

10/1991–06/1996

Diploma in Biochemistry/Biology

Faculty of Biology, University of Bucharest, Bucharest (Romania)

Diploma thesis title: "The Influence of Gramicidin and Procaine on the Permeability of Lipid Bilayer Artificial Membranes"

09/1987–06/1991

Baccalaureate

High School "Nicolae Balcescu", Craiova, Craiova, DJ (Romania)

General: Mathematics-Physics

PERSONAL SKILLS

Mother tongue(s): Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B2	B2	B1	B1	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills: Very good acquired through:

- teaching experience,
- working in national and international groups

- international collaborations,
- attending national and international meetings

Organisational / managerial skills

Very good acquired through:

- administration of the Research Base for Multiple Users of the Department of Animal Physiology and Biophysics, University of Bucharest (1999-2005)
- establishing and coordinating the research activity of the group of Prof. Dr. Kockskämper, Institute of Pharmacology and Clinical Pharmacy, Philipps-Universität Marburg, DE (2010-2014)

Job-related skills

Very good:

- teaching skills: advanced lectures to Master students
- training skills: training new employees, and short-term students for a proper use of the research equipment and the correct analysis and interpretation of the data
- mentoring skills: conducting diploma, dissertation thesis and training doctoral student

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Proficient user	Basic user	Independent user	Independent user

Digital skills - Self-assessment grid

Microsoft package: Word, Excel, Power Point,

Data acquisition: pClamp 10, HEKA 10

Data analysis: Origin 9.0, GraphPad 8.0, SigmaPlot, ImageJ, ImageLab, REST © 2.07

Graphic processing: Corel Draw

ADDITIONAL INFORMATION

Projects

Project PI

10.2023 - 09.2024: "*Functional phenotyping of the vascular and cardiac cells exposed to neurohumoral mediators of hypertension*" - Research Institute of the University of Bucharest, RO

10.2006 – 09.2009: „*Regulation of T-type Calcium Channels in Cardiomyocytes*"– Falk Cardiovascular Research Fellowship, funded by The Falk Foundation Loyola University Chicago, USA,

07.2003 – 07.2005: „Modulation of acute desensitization of vanilloid receptor natively expressed in rat primary sensitive neurons"- funded by CNCSIS **AT776,** Romania

10.2002 – 09.2004: „*Intracellular pathways involved in VR1 desensitization in normal rat DRG neurons*" - Physiological Society Junior Fellowship funded by The physiological Society (London, UK)

Team member

IZKF 2017 – 2019: *"Hemmung der Adenylylcyclase 5 durch Annexin A4 und deren Bedeutung für das kardiale Remodeling*", *PI:* Prof. Dr. Frank U. Müller, Münster, Germany
DFG 2016-2019: *"Bedeutung der Induktion von ICER und smICER im Herzen*", *PI:* Prof. Dr. Frank U. Müller, Münster, Germany
EUTRAF 2010-2015: *"European Translational research on Atrial Fibrillation"*, European Project, with, among other 18 partners, Prof. Dr. Jens Kockskämper, Marburg partner and Prof. Dr. Frank U. Müller, Münster partner, Germany
NIH R01 2005-2007: *" T-type Ca channels in development and cell proliferation" PI:* Assoc. Prof. Dr. Leanne L Cribbs, Loyola University of Chicago, USA

Humboldt Foundation 2003-2006: *" Transduction mechanism of thermal and other noxious stimuli. Modulation of VR-1 and CMR-1 ionic channels"*, *PI:* Prof. Dr. Maria Luisa Flonta, University of Bucharest
Viasan 199/2003-2005: *" Modulation mechanisms of ion channels activated by tissue acidosis in peripheral nerve fibers and blood vessel"*, *PI:* Prof. Dr. Maria Luisa Flonta, University of Bucharest
CNCSIS A251/ 2003-2005: *"Generation of spontaneous activity in lesioned sciatic nerve: new experimental approaches"*, *PI:* Prof. Dr. Maria Luisa Flonta, University of Bucharest
VIASAN 171/2002-2005: "*The pharmacological properties and the cellular mechanisms involved in the effect of nebivolol in the renal artery in diabetes*", *PI:* Dr. Adriana Georgescu, Institute for Cellular Biology and Pathology Nicolae Simionescu, Bucharest
CNCSIS AT 156/2002-2004: *"Role of the low temperatures on capsaicin and proton induced currents in cultures sensitive neurons"*; *PI:* Assoc. Prof. Alexandru Babeş, University of Bucharest
Volkswagen Foundation 2001-2004: *" Generation of spontaneous activity in damaged nerve: novel experimental approaches" PI:* Prof. Dr. Gordon Reid, University of Bucharest
NATO CLG976246 2000-2002: *"Mechanisms of diabetic neuropathic pain in the primary sensory neurons" PI:* Prof. Dr. Gordon Reid, University of Bucharest
World Bank D-22 1999-2002: *"Development of an advanced studies & PhD program in molecular physiology centered on neurobiology & membrane biophysics of excitable and nonexcitable cells" PI:* Prof. Dr. Maria Luisa Flonta, University of Bucharest
World Bank PU-19 1999-2002: *"Modernizing and optimizing physiology teaching via equilibrated use of interactive computer-assisted training and electrophysiology techniques" PI:* Prof. Dr. Maria Luisa Flonta, University of Bucharest
World Bank B-50 1999-2002: *"Molecular Physiology: Electrophysiology techniques and computer modeling of cellular/molecular interactions" PI:* Prof. Dr. Maria Luisa Flonta, University of Bucharest

Honours and awards

2008: "New Investigator Travel Award" – poster prize AHA Basic Cardiovascular Science Conference 2008 – Heart Failure, Keystone, CO, USA

2007: "Falk Cardiovascular Research Fellowship", Falk Foundation Loyola University Chicago, USA

2005: Humboldt Foundation Scholarship, Universitätsklinikum Hamburg-Eppendorf, Germany, 1 mo

2004: Travel grant participation to the 4th Forum of European Neuroscience (FENS) Lisbon, Portugal

2002: "Physiological Society Junior Fellowship", Phys Soc Londra, Marea Britanie

2002: Best poster in "Somatosensory Physiology" J Physiol Meeting, UCL, Dec. 2002, UK

2002: Travel grant participation to the 3rd FENS Forum Paris, France

2001: Socrates Erasmus Scholarship, University of Nottingham, UK

1997: Tempus Scholarship, Department of Life Science, University of Nottingham, UK

Scientometric indicators

ORCID ID: 0000-0003-0743-0129

BrainMap: U-1900-063T-1752

h-index: 18 (Scopus)

Citations: 903 (Scopus)

Memberships

1997 Romanian Society for Biochemistry and Molecular Biology (SRBBM)

1998 Romanian Society for Biophysics

2003 National Neurosciences Society of Romania (NNSR)

2005 American Biophysical Society

2006 American Heart Association

2018 European Society for Cardiology Workgroup on Cardiac Cellular Electrophysiology,

2021 European Society for Cardiology HFA

Conferences

85. Jahrestagung der DGK (Deutsche Gesellschaft für Kardiologie), Mannheim, Germany, Apr. 2019

4th German Pharm-Tox Summit: DGPT2019 (Deutsche Gesellschaft für Pharmakologie und Toxikologie), Stuttgart, Germany, Feb. 2019

42nd ESC Working Group for Cardiac Cellular Electrophysiology meeting, Essen, Germany, June 2018

61st Annual Biophysical Meeting, New Orleans, USA, Feb. 2017

82. Jahrestagung der DGPT,Berlin Germany, Mar. 2016

81. Jahrestagung der DGK, Mannheim, Germany, Apr. 2015

80. Jahrestagung der DGK, Mannheim, Germany, Apr. 2014

58th Annual Biophysical Meeting, San Francisco, CA, USA, Feb. 2014

2013 Herbsttagung und Jahrestagung der Arbeitsgruppe Rhythmologie, Dresda, Germany, Oct. 2013

2013 ESC (European Society for Cardiology) Congress, Amsterdam, Netherlands, Sept. 2013

92. Jahrestagung der DGP (Deutschen Physiologischen Gesellschaft), Heidelberg, Germany, Mar. 2013

„Cardiac Physiology & Experimental Cardiology", Rauischholzhausen, Germany, Sept. 2012

91. Jahrestagung der DGP, Dresden, Germany, Mar. 2012

56th Annual Biophysical Meeting, San Diego, CA, USA, Feb. 2012

2011 Hebsttagung und Jahrestagung der Arbeitsgruppe Rhythmologie, Düsseldorf, Germany, Oct. 2011

Society for Neuroscience Annual Meeting 2009, Chicago, IL, USA, Nov. 2009

AHA Basic Cardiovascular Sciences Conference 2008 – Heart Failure, Keystone, CO, USA, Aug. 2008

52th Annual Biophysical Meeting, Long Beach, CA, USA, Feb. 2008

American Heart Association 2006, Chicago, IL, USA, Nov. 2006

50th Annual Biophysical Meeting, Salt Lake City, Utah, USA, Feb. 2006

International Workshop in Ion Channels From Physiology to Pathology, Seville, Spain, Feb. 2005

4th FENS (Federation of the European Neuroscience Societies) Forum, Lisbon, Portugal, Jul. 2004

IBRO, Bucharest, Romania, May 2004

European Pain School, Siena, Italy, Oct. 2003

First International Conference of the National Neurosciences Society of Romania, Bucharest, Romania, Sept. 2003

Neurotox '03, Nottingham, UK, Sept. 2003

Physiological Society Meeting, London, UK, Dec. 2002

3rd FENS Forum, Paris, France, Jul. 2003

Joint Meeting of the British Pharmacological Society and the Physiological Society, Bristol, UK, Sept. 2001

The Open Meeting on "Ion channels from atomic Resolution Physiology to Functional Genomics", Novartis Foundation and Welcome Trust, London, UK, June 2001

2nd FENS Forum, Brighton, UK, June. 2000

List of publications

A. Articles

1. **Pluteanu** F, Heinick A, Domnik-Lehnert M, Müller FU, Hermes C – "Annexin A4 Deficient Ventricular Myocytes Display Advanced Hypertrophy and Electrical Remodeling With Chronic β-Adrenoceptor Stimulation" - FASEB J . 2026, 40(17):e72213.
2. **Pluteanu**, F.; Musset B.; Rinne, A. – "Ca2+ signaling in striated muscle cells during intracellular acidosis" - Biomolecules 2025, 15, 1244. IF: 4.80,
3. Rinne, A.; **Pluteanu**, F. – "Ca2+ Signaling in Cardiovascular Fibroblasts" - Biomolecules 2024, 14, 1365,
4. Rinne A, Kockskämper J, **Pluteanu** F. – "Editorial: New discoveries on calcium handling in cardiovascular pathology" - Front Cardiovasc Med. 2024 Jul 17;11:1461311.
5. **Pluteanu** F, Glaser D, Massing F, Schulte JS, Kirchhefer U. – „Loss of protein phosphatase 2A regulatory subunit PPP2R5A is associated with increased incidence of stress-induced proarrhythmia" - Front Cardiovasc Med. 2024 May 28:11:1419597.
6. Kockskamper J., **Pluteanu F**. – "Left Atrial Myocardium in Arterial Hypertension" – *Cells*, **2022**; 11(19), 3157
7. **Pluteanu F.**, Kirchhefer U. – „Reply to Cristobal", *American Journal of Physiology-Heart and Circulatory Physiology*, **2022**; 323 (1), H67-H68

8. **Pluteanu F**., Boknik P., Heinick A., König C., Müller F. U., Weidlich A., Kirchhefer U. - Activation of PKC results in improved contractile effects and Ca2+ cycling by inhibition of PP2A-B56α- *American Journal of Physiology-Heart and Circulatory Physiology*, **2022**; 322 H427-H441
9. **F. Pluteanu***, Matthias D. Seidl*, Sabine Hamer, Beatrix Scholz, Frank U. Müller – "Inward Rectifier K + Currents Contribute to the Proarrhythmic Electrical Phenotype of Atria Overexpressing Cyclic Adenosine Monophosphate Response Element Modulator Isoform CREM-IbΔC-X" *Journal of the American Heart Association*, **2020**, 9(23): e016144
10. Seidl MD, Fels B, Kranick D, Sternberg A, Grimm K, Stümpel F, **Pluteanu** F, Schulte JS, Heinick A, Kojima N, Endo S, Huge A, Stoll M, Müller FU. –"Induction of ICER is superseded by smICER, challenging the impact of ICER under chronic beta-adrenergic stimulation."–*FASEB* **2020**;34(8):11272-11291
11. Heinick A*, **Pluteanu** F*, Hermes C*, Klemme A, Domnik M, Husser X, Gerke V, Schmitz W, Müller FU – "Annexin A4 N-terminal peptide inhibits adenylyl cyclase 5 and limits β-adrenoceptor mediated prolongation of cardiac action potential" *FASEB* **2020**; 34(8):10489-10504, doi: 10.1096/fj.201902094RR
12. Scholz B, Schulte JS, Hamer S, Himmler K, **Pluteanu F**, Seidl MD, Stein J, Wardelmann E, Hammer E, Völker U, Müller FU.- "HDAC (Histone Deacetylase) Inhibitor Valproic Acid Attenuates Atrial Remodeling and Delays the Onset of Atrial Fibrillation in Mice." – *Circ Arrhythm Electrophysiol* ***2019***;12(3): e007071.
13. **Pluteanu F.**, Nikonova Y., Holzapfel A., Herzog B, Scherer A., Preisenberger J., Plackic J., Scheer K., Ivanova T, Bukowska A., Goette A., Kockskämper J. – "Progressive impairment of atrial myocyte function during left ventricular hypertrophy and heart failure." – *J Mol Cell Cardiol* ***2017***; 114: 253-263
14. Seidl MD, Stein J, Hamer S, **Pluteanu F**, Scholz B, Wardelmann E, Huge A, Witten A, Stoll M, Hammer E, Völker U, Müller FU. – "Characterization of the Genetic Program Linked to the Development of Atrial Fibrillation in CREM-IbΔC-X Mice." – *Circ Arrhythm Electrophysiol* ***2017***; 10(8): e005075
15. Plačkić J, Preissl S, Nikonova Y, **Pluteanu F**, Hein L, Kockskämper J. – "Enhanced nucleoplasmic Ca^{2+} signaling in ventricular myocytes from young hypertensive rats." – *J Mol Cell Cardiol* ***2016***; 101: 58-68
16. Mederle K., Gess B., **Pluteanu F.**, Plackic J., Tiefenbach KJ, Sterner R., Deutzmann R., Kockskämper J., Castrop H. – "Angiotensin Receptor-associated Protein Atrap is a Stimulator of the Cardiac Ca^{2+}-ATPase SERCA2a" – *Cardiovasc Res* ***2016***; 110(3): 359-370
17. **Pluteanu F.**, Heß J., Plackic J., Nikonova Y., Preisenberger J., Bukowska A., Schotten U., Goette A., Kockskämper J. – "Early subcellular Ca^{2+} remodeling and incr eased propensity for Ca^{2+} alternans in left atrial myocytes from hypertensive rats" – *Cardiovasc Res* ***2015***; 106(1): 87-97
18. Walther S., **Pluteanu F.**, Renz S., Nikonova Y., Maxwell J.T., Yang L.Z., Schmidt K., Edwards J.N. Wakula P., Groschner K., Maier L.S., Spiess J., Blatter L.A., Pieske B., Kockskämper J. – "Urocortin 2 stimulates nitric oxide production in ventricular myocytes via Akt- and PKA-mediated phosphorylation of eNOS at serine 1177"–*Am J Physiol Heart Circ Physiol* ***2014***; 307(5): H689-70
19. **Pluteanu F**, Cribbs L.L. - "Regulation and Function of Cav3.1 T-type Calcium Channels in IGF-1 Stimulated Pulmonary Artery Smooth Muscle Cells" – *Am J Physiol Cell Physiol* ***2011***; 300(3): C517-25
20. Markandeya Y.S., Fahey J.M., **Pluteanu F.,** Cribbs L.L., Balijepalli R.C. - "Caveolin-3 regulates protein kinase A modulation of the Ca(V)3.2 (alpha1H) T-type Ca^{2+} channels" – *J Biol Chem* ***2011***; 286(4): 2433-44
21. **Pluteanu F.**, Cribbs L.L. - "T-type calcium channels are regulated by hypoxia/reoxygenation in ventricular myocytes" – *Am J Physiol Heart Circ Physiol* ***2009***; 297(4): H1304-13
22. Georgescu A., **Pluteanu F.**, Flonta M.L., Badila E., Dorobantu M., Popov D. - "Nebivolol induces a hyperpolarizing effect on smooth muscle cells in the mouse renal artery by activation of beta-2-adrenoceptors" – *Pharmacology* ***2008***; 81(2): 110-7
23. Andersen T.F., Tikhonov D.B., Bølcho U., Bolshakov K., Nelson J.K., **Pluteanu F.**, Mellor I.R., Egebjerg J., Strømgaard K. - "Uncompetitive antagonism of AMPA receptors: Mechanistic insights from studies of polyamine toxin derivatives" – *J Med Chem* ***2006***; 49(18): 5414-23
24. Georgescu A., **Pluteanu F.**, Flonta M.L., Badila E., Dorobantu M., Popov D. - "The cellular mechanisms involved in the vasodilator effect of nebivolol on the renal artery" – *Eur J Pharmacol* ***2005***; 508(1-3): 159-66
25. Mellor I.R., Ogilvie J., **Pluteanu F.**, Clothier R.H., Parker T.L., Rosini M., Minarini A., Tumiatti V., Melchiorre C. - "Methoctramine analogues inhibit responses to capsaicin and protons in rat dorsal root ganglion neurons" – *Eur J Pharmacol* ***2004***; 505(1-3): 37-50
26. Vais H., Atkinson S., **Pluteanu F.**, Goodson S.J., Devonshire A.L., Williamson M.S., Usherwood P.N. - "Mutations of the para sodium channel of Drosophila melanogaster identify putative binding sites for pyrethroids" – *Mol Pharmacol* ***2003***; 64(4): 914-22
27. Mellor I.R., Brier T.J., **Pluteanu F.**, Strømgaard K., Saghyan A., Eldursi N., Brierley M.J.,

Andersen K., Jaroszewski J.W., Krogsgaard-Larsen P., Usherwood P.N. - "Modification of the philanthotoxin-343 polyamine moiety results in different structure-activity profiles at muscle nicotinic ACh, NMDA and AMPA receptors" – *Neuropharmacology **2003***; 404(1): 70-80

28. Reid G., Babes A., **Pluteanu F**. - "A cold- and menthol-activated current in rat dorsal root ganglion neurones: properties and role in cold transduction" – *J Physiol **2002***; 545(Pt 2): 595-614
29. Strømgaard K., Mellor I.R., Andersen K., Neagoe I., **Pluteanu F.**, Usherwood P.N., Krogsgaard-Larsen P., Jaroszewski J.W. - "Solid-phase synthesis and pharmacological evaluation of analogues of PhTX-12-A potent and selective nicotinic acetylcholine receptor antagonist" – *Bioorg Med Chem Lett **2002***; 12(8): 1159-62
30. **Pluteanu F.**, Ristoiu V., Flonta M.L., Reid G. - "Alpha (1)-adrenoceptor-mediated depolarization and beta-mediated hyperpolarization in cultured rat dorsal root ganglion neurons" – *Neurosci Lett **2002***; 329(3): 277-80
31. Ristoiu V., **Pluteanu F.**, Flonta M.L., Reid G. - "Few cultured rat primary sensory neurons express a tolbutamide-sensitive K^+ current" – *J Cell Mol Med **2002***; 6(2): 271-4

B. Poster presentations with published abstracts

a. Principal author

1. **Pluteanu F.,** Domnik M., Rolfes C., Klemme A., Heinick A., Müller F.U. – "Annexin A4 deficient myocytes exhibit an augmented electrophysiological response to acute and chronic isoproterenol stimulation" - *Clin Res Cardiol **2019***; 108 (Suppl 1): P1247
2. **Pluteanu F**., Domnik M., Rolfes C., Klemme A., Heinick A., Müller F.U. – "Chronically isoproterenol-stimulated annexin A4 deficient mice developed earlier electrical remodeling and hypertrophy at cellular level" - *Naunyn-Schmiedeberg's Arch Pharmacol*, ***2019***; 392 (Suppl 1): S1–S88, P79
3. **Pluteanu F**., Seidl M.D., Scholz B., Hamer S., Müller F.U. – "Ionic currents altered by atrial fibrillation onset in atrial myocytes of CREM-IbΔC-X transgenic mice "– *Naunyn-Schmiedeberg's Arch Pharmacol **2017***; 390 (Suppl 1): P83
4. **Pluteanu F.,** Scholz B., Schulte J.S., Müller F.U. – "Sodium Valproate Reverses Electrical Remodeling of Atrial Myocytes Isolated from CREM-IbΔC-X Transgenic Mice "– *Biophys J **2017***;112(3): 545a,
5. **Pluteanu F.,** Scholz B., Schulte J.S., Müller F.U. – "The effect of sodium valproate effect on the action potential of atrial myocytes of CREM IbΔC-X transgenic mice "– *Naunyn-Schmiedeberg's Arch Pharmacol **2016***; 389 (Suppl 1): P159
6. **Pluteanu F.**, Nikonova Y., Plackic J., Preisenberger J., RinneA., Kienitz M.-C., Kockskämper J. – "Impaired sarcolemmal and sarcoplasmic reticulum calcium handling in atrial myocytes during early hypertension and left ventricular hypertrophy in rats" - *Clin Res Cardiol **2015***; 104 (Suppl 1): P747
7. **Pluteanu F.**, Holzapfel A., Nikonova Y., Ivanova T., Preisenberger J., Herzog B., Plackic J., Kockskämper J. – "Alterations in calcium handling in atrial myocytes from old hypertensive rats during transition from compensated left ventricular hypertrophy to heart failure" - *Clin Res Cardiol **2015***; 104 (Suppl 1): P750
8. **Pluteanu F.**, Plackic J., Nikonova Y., Preisenberger J., Kockskämper J. – "Altered regulation of nuclear Ca transients in atrial myocytes from spontaneously hypertensive rats" - *Clin Res Cardiol **2014***; 103 (Suppl 1): P1100
9. **Pluteanu F.**, Preisenberger J., Heß J., Nikonova Y., Plackic J., Kockskämper J. – "Altered Ca Homeostasis and Ca Alternans in Left Atrial Myocytes of Spontaneously Hypertensive Rats" – *Biophys J **2014***; 106 (2): p729a
10. **Pluteanu F.**, Heß J., Holzapfel A., Plackic J., Nikonova Y., Preisenberger J., Kockskämper J. – "Expression and phosphorylation of calcium handling proteins in left atria of hypertensive rats during the development and progression of left ventricular hypertrophy" - *Clin Res Cardiol*, ***2013***; 102 (Suppl2): BS31
11. **Pluteanu F.**, Wolke C., Bukowska A., Kiess T., Sack C., Chilukoti R.K., Preisenberger J., Goette A., Lendeckel U., Kockskämper J. – "Atrial endothelin-1 signalling in hypertensive rats"- *European Heart Journal **2013***; 34 (Suppl): 930
12. **Pluteanu F.**, Wolke C., Bukowska A., Kieß T., Galla D., Chilukoti R. K., Sack C., Ivanova T., Goette A., Lendeckel U., Kockskämper J. – "Augmented endothelin-1 signaling in atrial myocardium from spontaneously hypertensive rats" - *Acta Physiologica **2013***; 207 (Suppl 694): O71
13. **Pluteanu F.**, Kieß T., Preisenberger J., Kockskämper J. – "Characterization of calcium transients in the atrial myocytes of type 2 diabetic rats" - *Acta Physiologica **2013***, 207 (Suppl 694):P230
14. **Pluteanu F.**, Heß J., Kiess T., Sack C., Nikonova Y., Plackic J., Roderick H.L., Kockskämper J. – "Calcium Handling Mechanisms in Atrial Myocytes from Spontaneously Hypertensive Rats during Compensatory Left Ventricular Hypertrophy" - „Cardiac Physiology & Experimental Cardiology", Rauischholzhausen 27 - 28 September ***2012***

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