

Curriculum Vitae

Natercia Teixeira

IDENTIFICATION

Name: **Natércia** Aurora Almeida **Teixeira**

Date of birth: 24 de Maio de 1955

Nationality: Vila Nova de Gaia, Portugal

Institutional Address: Lab Bioquímica, Faculdade Farmácia da Universidade do Porto
Rua Jorge Viterbo Ferreira
4050-313 Porto, Portugal.

Email: **natercia@ff.up.pt**

ACADEMIC QUALIFICATIONS

1978: First university degree in Pharmaceutical Sciences by *Faculdade de Farmácia, Universidade do Porto*, Portugal.

1986: Doctor Degree (Ph.D.) in Biochemistry by University of Strathclyde, Glasgow, UK.

1999: Agregation, in Chemical and Physico-Chemical Sciences by *Faculdade de Farmácia, Universidade do Porto*, Portugal.

ACADEMIC AND SCIENCE MANAGERMENTS ACTIVITIES

- ✓ 22/2/2015: Vice-Dean of Faculty of Pharmacy, University of Porto;
- ✓ 1/1/2015: Director of the Research Group Drugs Targets & Biomarkers, UCIBIO, REQUIMTE;
- ✓ 1/7/2012 - 2014 Vice-President of the Professional Association of Pharmacists, North Region;
- ✓ 01/11/2010 – 2-02-2015 Member of the Ethical Committee from Faculty of Pharmacy, University of Porto;
- ✓ 01/10/2008: Head of the Biochemistry Laboratory, Faculty of Pharmacy, University of Porto;
- ✓ 01/12/2009 - 01/12/2011: Secretary of the General Assembly, Portuguese Biochemical Society;
- ✓ 17/10/2010 - 01/5/2015: Head of Department of Biological Sciences, Faculty of Pharmacy, University of Porto;
- ✓ 01/11/2010 - 22/2/2016: Vice-president of the Scientific Council, Faculty of Pharmacy, University of Porto;
- ✓ 01/1/2007 - 01/1/2011: President of the Jurisdictional Board from the Professional Association of Pharmacists;
- ✓ 01/2/2006 - 15/9/2010: Vice-President of the Executive Council, Faculty of Pharmacy, University of Porto;
- ✓ 01/1/2002 – 01/1/2006: Vice-President of the Scientific Council, Faculty of Pharmacy, University of Porto;
- ✓ 01/11/2004 - Full Professor, Faculty of Pharmacy, University of Porto;
- ✓ 01/1/2002 - 01/1/2006: Member of the Editorial Board, Pharmaceutical Sciences Society;
- ✓ 01/12/2001 - 01/12/2009: Member of the Executive Board, Portuguese, Biochemical Society;
- ✓ 01/1/1993 - 31/12/2014: Director of the research Unit "Biology of Inflammation and Reproduction" from the Institute for Molecular and Cell Biology;

- ✓ 01/10/1994 - 01/10/1999: Coordinator of the pos-graduate course in Clinical Analysis, Faculty of Pharmacy, University of Porto;
- ✓ 01/9/1992 - 01/11/2004: Associate Professor, Faculty of Pharmacy, University of Porto;
- ✓ 01/12/1986 – 01/9/1992: Assistant Professor, Faculty of Pharmacy, University of Porto;
- ✓ 01/5/1986 - 01/11/1986: Assistant lecturer 100% in Faculty of Pharmacy, University of Porto;
- ✓ 01/10/1982 - 01/5/1986: Pos-graduated student in Bioscience and Biotechnology, Biochemistry Division from the University of Strathclyde, Glasgow , UK;

PARTICIPATION IN FINANCED RESEARCH PROJECTS

- 1987 - 1991: Principal investigator of the research Project nº 820 86 22, financed by JNICT, entitled “Study of the function of Decidualization-associated protein (DAP). Synthesis of high molecular weight proteins by human deciduas;
- 1988 - 1989: Principal investigator of the research Project financed by the University of Porto, entitled “Deficiency in erythrocyte Glucose-6-phosphate desidrogenase (G6PD). Screening and evaluation of reference values. Characterization of the new variants”;
- 1992 - 1993: Principal investigator of the research Project financed by “Acções Integradas Luso Britânicas” (Acção nº B -24 - Proc. AI-B /92), entitled “Function of decidualization associated-protein”, between Faculty of Pharmacy, University of Porto and Department of Obstetrics and Gynecology, University of Leicester, Leicester, United Kingdom, being the responsible by the English team Prof Stephen Bell;
- 1996 - 2000: Collaboration in the research Project 2/2.1/SAU/1240/95, financed by Praxis XXI, entitled “Reliable molecular markers for increased physiological risk”, being the principal investigator Prof. Doutor Alexandre Quintanilha;
- 1999 - 2002: Member of the research team of the Project nº 23399, financed by the “Comissão de Fomento de Investigação em Cuidados de Saúde (CFICS)”, entitled “Evaluation, as a diagnostic and activity marker of disease, of the reactivity of auto-antibodies of patients with Systemic lupus erithomatosus with the human nuclear auto-antigen MCP1”, being the principal investigator Dr. Manuel Fernando Cyrne Machado Carvalho;
- 2003 - 2004: Principal investigator of the research Project financed by “Acções Integradas Luso Britânicas” (Acção nº B-4/03), entitled “Uterine apoptosis: its role in the development of the fetoplacental unit”, between Faculty of Pharmacy, University of Porto and Department of Obstetrics and Gynecology, University of Leicester, Leicester, United Kingdom, being the responsible by the English team Prof Stephen Bell;
- 2003 - 2006: Member of the research team of the Project Pocti/CBO/46776/2002, financed by FCT, entitled “Biomolecular and ultrasonografic characteristics of the endometrium of patients with endometriosis”, being the principal investigator Prof. Doutor José António Martinez Souto de Oliveira;
- 2004 - 2005: Member of the research team of the Project, financed by the University of Porto, under the programme “Investigação científica na pré-graduação”, entitled “Influence of proteins, sugars and organic acids in the stability of foam beer”, being the principal investigator Prof. Doutora Isabel Maria Oliveira Ferreira;
- 2010 - 2014: Member of the research team of the FCT financed project PTDC/SAU-TOX/114253/2009 "Cross talk between chronic renal failure, inflammation and erythropoiesis in resistance to recombinant human erythropoietin therapy" with Flávio Nelson Fernandes Reis (FMUC) as PI;
- 2011 - 2012: Principal Investigator of the project financed by the University of Porto, under the programme “Investigação científica na pré-graduação”, entitled “Endocannabinoids and cell death in pregnancy”;

2012 - 2015 Principal Investigator of the FCT financed project PTDC/QUI-BIQ/120319/2010 "New enzyme inhibitors for breast and prostate cancers: insights to overcome bone loss and endocrine resistance".

2015 - 2017: Investigator in the FCT financed project UID/Multi/04378/2013 in the Applied Molecular Biosciences Unit (UCIBIO);

2016 - 2019: Member of the research team of the Project the project "*DESIGNBIOTecHealth - New technologies for three health challenges of modern societies: diabetes, drugs abuse and kidney diseases*" (NORTE-01-145-FEDER-000024, funded by "Sistema de Apoio à Investigação Científica e Tecnológica – Projectos estruturados de I&I, Portugal 2020", being Prof. Maria João Ramos the Coordinator;

2016 - 2019: Member of the research team of the FCT financed project PTDC/DTP-FTO/5651/2014-POCI-01-0145-FEDER-016562, "*The endocannabinoids as modulators of cell death and differentiation: A unified hypothesis of how cannabinoids affect placental development*";

SUPERVISION EXPERIENCE

10 PhD students supervised:

1 PhD students on-going

18 MSc students

13 BSc students

4 Post-Doctoral fellows

SCIENTIFIC PRODUCTIVITY

Number of Publications: 137

Total number of citations : 1056

Average citations per item: 8,25

H-index: 20

SCIENTIFIC PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

✓ **Teixeira, N.A.** and O'Grady, J.E. (1985) "Occurrence of alphamacrofetoprotein and decidualization-associated protein in rat tissues during inflammation and pregnancy" *Biochem. Soc. Trans.*, 13, 373.

✓ **Teixeira, N.A.** and O'Grady, J.E. (1991) "A comparison of the rat antiproteases Alphamacrofetoprotein and Decidualization Associated Protein" *Biochem. Soc. Trans.*, 19, 299S.

✓ **Teixeira, N.A.**, Silva, G., Bronze, E.R., O'Grady, J.E. and Correia, A. (1991) "Decidualization Associated Protein is an antiprotease and inhibits lymphocyte proliferation" *Biochem. Soc. Trans.*, 19, 300S.

✓ **Teixeira, N.A.** and O'Grady, J.E. (1992) "Two forms of Decidualization Associated Protein and their physicochemical relationship to Alphamacrofetoprotein" *J. Reprod. Fert.*, 94, 1-10.

✓ Santos-Silva, A., Castro, E.M.B., **Teixeira, N.A.**, Guerra, F. and Quintanilha, A. (1995) "Altered erythrocyte membrane band 3 profile provides a useful marker in patients known to be at risk of cardiovascular diseases" *Atherosclerosis* 116, 199-209.

✓ Correia da Silva, G., **Teixeira, N.A.** and Bell, S.C. (1996) "Major secretory product of the mesometrial decidua in the rat, a variant of alpha-2-macroglobulin, binds IGF-I via a protease-dependent mechanism" *Mol. Reprod. Develop.* 44, 103-110.

✓ Correia da Silva G., **Teixeira N.A.**, Pringle H. and Bell S.C. (1996) "Expression of mRNA encoding Decidualization-associated protein (DAP), a variant of acute phase a2-

macroglobulin by rat uterine tissues during pregnancy and pseudopregnancy" J. Reprod Fert., 108, 289-298.

✓ Marques, A.F.P., **Teixeira, N.A.**, Gambaretto, C., Sillero, A. and Sillero, M.A.G. (1998) "IMP-GMP 5'-nucleotidase from rat brain: activation by polyphosphates" J. Neurochem., 71, 1241-1250.

✓ Santos Silva, A., Castro, E.M.B., **Teixeira, N.A.**, Guerra, F.C. and Quintanilha, A. (1998) "Erythrocyte membrane band 3 profile imposed by cellular aging, by activated neutrophils and by neutrophilic elastase" Clin. Chim. Acta, 275, 185-196.

✓ Correia da Silva G., Pringle H., Bell S.C. and **Teixeira N.A.** (1999) "Expression of mRNA encoding insulin-like growth factors I and II by uterine tissues and the placenta during pregnancy in the rat" Mol. Reprod. Develop., 53,294-305.

✓ Torrecila, A, Marques, A.F.P., Buscalioni, R.D., Oliveira, J.M.A., **Teixeira, N.A.**, Atencia, E.A., Sillero, M.A.G., Sillero, A. (2001) "Metabolic fate of AMP, IMP, GMP, and XMP in the cytosol of rat brain. An experimental and theoretical analysis" J. Neurochem., 76, 1291-1307.

✓ Veloso, A.C.A., **Teixeira, N.**, Ferreira, I. M.P.L.V.O., Ferreira, M.A., (2002) "Detecção de Adultrações em Produtos Alimentares Contendo Leite e/ou Proteínas Lácteas", Quím. Nova, 25 , nº4, 609-615.

✓ Veloso, A.C.A., **Teixeira, N.**, Ferreira, I. M.P.L.V.O. (2002) "Separation and quantification of the major casein fractions by reversed-phase high performance liquid chromatography and urea-polyacrylamide gel electrophoresis. Detection of milk adulterations" J. Chromat., 967, 209-218.

✓ Correia-da-Silva, G., Bell S.C., Howard, J.H. and **Teixeira N.A.** (2004) "Proliferative and apoptotic activities in rat uterus during pregnancy" Placenta 25, 538-547.

✓ Veloso, A.C.A., **Teixeira, N.A.**, Peres, A.M., Mendonça, A. and Ferreira, I.M.P.L.V.O. (2004) "Evaluation of cheese authenticity and proteolysis by HPLC and urea-polyacrylamide gel electrophoresis" Food Chem. 87,289-295.

✓ Santos-Silva A, Rebelo I, Belo, L, Monteiro I, **Teixeira NA**, Castro E, Quintanilha (2004) "Erythrocyte damage and leukocyte activation as potential risk markers for cardiovascular events" Salud Ciencia in press

✓ Correia-da-Silva, G., Bell S.C. and **Teixeira N.A.** (2005) "Patterns of expression of Bax, Bcl2 and Bcl-xL in the implantation site in rat during pregnancy" Placenta, 26,796-806.

✓ Cepa MMDS, Tavares da Silva E, Correia da Silva G, Roleira FMF, **Teixeira NA** (2005) "Structure-activity relationships of new A,D-ring modified steroids as aromatase inhibitors:design, synthesis, and biological activity evaluation" J. Med Chem. 48, 6379-6385.

✓ Silva F, Ferreira IMPLVO, **Teixeira N** (2006) "Polipetídeos e proteínas com influência na qualidade da espuma da cerveja e métodos analíticos utilizados no seu estudo" Química Nova, 29 (6), 1326-1331.

✓ Almeida A, Correia-da-Silva G, Cepa M, Bell SC, **Teixeira NA** (2007) "Synergistic induction of apoptosis in primary rat decidual cells by INF and TNF" Mol Reprod. Devel., 74, 371-377.

✓ Silva F, Nogueira LC, Gonçalves C, Ferreira AA,Ferreira IMPLVO,**Teixeira N** (2008)"Electrophoretic and HPLC Methods for Comparative Study of the Protein Fractions of Malts, Worts and Beers Produced From Scarlett and Prestige Barley (Hordeum vulgare L.) Varieties" Food Chemistry, 106, 820-829.

✓ Cepa M, Correia-da-Silva G, Tavares da Silva EJ, Roleira FMF, Hong Y, Chen S, **Teixeira NA** (2008) Molecular Mechanisms Of Aromatase Inhibition By New A, D-Ring Modified Steroids Biol Chem, 389: 1183-1191.

✓ Cepa M, Correia-da-Silva G, Tavares da Silva EJ, Roleira FMF, Borges M, **Teixeira NA** (2008) New steroidal aromatase inhibitors: suppression of estrogen-dependent breast cancer cell proliferation and induction of cell death BMC Cell Biology 9:41, 1-14.

- ✓ Cepa M, Tavares da Silva EJ, Correia-da-Silva G, Roleira FMF, **Teixeira NA** (2008) Synthesis and biochemical studies of 17-substituted androst-3-enes 3,4-epoxyandrostanes as aromatase inhibitors, *Steroids* 73, 1409–1415.
- ✓ E Teixeira de Lemos, F Reis, S Baptista, R Pinto, B Sepodes, H Vala, P Rocha-Pereira, G. Correia da Silva, **N. Teixeira**, A Santos Silva, L. Carvalho, F Teixeira, Das Un, (2009) Exercise training decreases proinflammatory profile in Zucker Diabetic (Type 2) Fatty rats *Nutrition* 25, 330-339.
- ✓ Fonseca BM, Correia-da-Silva G, **Teixeira NA**. (2009) Anandamide-induced cell death: dual effects in primary rat decidual cell cultures *Placenta*, 30(8):686-92.
- ✓ Fonseca BM, Correia-da-Silva G, Taylor AH, Konje JC, Bell SC, **Teixeira NA** (2009) Spatio-temporal expression patterns of anandamide-binding receptors in rat implantation sites: evidence for a role of the endocannabinoid system during the period of placental development. *Reprod Biol Endocrinol.*, 7 :121-134.
- ✓ Fonseca B.M., Correia-da-Silva G., Taylor A.H., Lam P.M.W., Marczylo T.H., Konje J.C., Bell S.C., **Teixeira N.A.** (2010) N-acyl ethanolamine levels and expression of their metabolizing enzymes during pregnancy“ *Endocrinology*, 151(8), 3965-3974.
- ✓ B.M. Fonseca, G. Correia-da-Silva, A.H. Taylor, P.M.W. Lam, T.H. Marczylo, S.C. Bell, J.C. Konje and **N.A. Teixeira** (2010) The endocannabinoid 2-arachidonoylglycerol (2-AG) and metabolizing enzymes during rat fetoplacental development: A role in uterine remodelling. *Int J Biochem Cell Biol*, 42(11):1884-92.
- ✓ Fonseca, B. M., **N. A. Teixeira**, M. Almada, A. H. Taylor, J. C. Konje and G. Correia-da-Silva (2011). "Modulation of the novel cannabinoid receptor - GPR55 - during rat fetoplacental development." *Placenta* 32(6): 462-469.
- ✓ Pereira D.M., Vinholes J., Correia-da-Silva G., Valentão P., **Teixeira N.**, Andrade P.B. (2011). Fatty acids in marine organisms: in the pursuit of bioactive agents. *Current Pharmaceutical Analysis*, 7, 108-119.
- ✓ Pereira DM, Valentão P, Correia-da-Silva G, **Teixeira N**, Andrade PB. (2012) Plant secondary metabolites in cancer chemotherapy: where are we? *Current Pharmaceutical Biotechnology*, 13, 632-650.
- ✓ Bronze-da-Rocha E, Nóvoa A, **Teixeira N**, Vasconcelos CS, Cerveira C, Castro E Melo J, Carvalho MC.(2012) Evaluation of the Reactivity of Sera from Patients with Systemic Lupus Erythematosus Against the Human MCP1. *J Clin Immunol.* in press
- ✓ David M. Pereira, Georgina Correia da Silva, Patrícia Valentão, **Natércia Teixeira**, Paula B. Andrade. Marine Metabolomics in Cancer Chemotherapy. In *OMICS: Biomedical Prospective and applications*", CRC Press. Edited by Debmalya Barh.
- ✓ Pereira DM, Valentão P, Correia-da-Silva G, **Teixeira N**, Andrade PB. Plant secondary metabolites in cancer chemotherapy: where are we? *Current Pharmaceutical Biotechnology*, 2012, 13, 632-650.
- ✓ David M. Pereira, Juliana Vinholes, Paula Guedes de Pinho, Patrícia Valentão, Teresa Mouga, **Natércia Teixeira**, Paula B. Andrade. A gas chromatography-mass spectrometry multi-target method for the analysis of three classes of metabolites in marine organisms. *Talanta*, 100, 391-400.
- ✓ Lilian R. B. Mariutti, David M. Pereira, Adriana Zerlotti Mercadante, Patrícia Valentão, **Natércia Teixeira**, Paula B. Andrade. Further insights on the carotenoid profile of the echinoderm *Marthasterias glacialis*. *Marine Drugs*, 2012, 10, 1498-1510.
- ✓ Cristina Amaral, Margarida Borges, Soraia Melo, Elisiário Tavares da Silva, Georgina Correia-da-Silva, **Natércia Teixeira**. "Apoptosis and autophagy in breast cancer cells following exemestane treatment", *PLoS One*, 2012; 7 (8): e42398.
- ✓ Carla Varela, Elisiário J. Tavares da Silva, Cristina Amaral, Georgina Correia da Silva, Teresa Baptista, Stefano Alcaro, Giosue` Costa, Rui A. Carvalho, **Natercia A. A. Teixeira**, Fernanda M. F. Roleira. "New structure-activity relationships of A- and D-ring modified

steroidal aromatase inhibitors: design, synthesis, and biochemical evaluation”, *Journal of Medicinal Chemistry*, 2012; 55 (8): 3992-4002.

✓ Fonseca BM, Correia-da-Silva G, **Teixeira NA**. “The rat as an animal model for fetoplacental development: a reappraisal of the post-implantation period.” *Reproductive Biology* 2012 12 2: 97–118.

✓ Fonseca BM, Correia-da-Silva G, Taylor AH, Lam PM, Marczyklo TH, Konje JC, **Teixeira NA**. “Characterisation of the endocannabinoid system in rat haemochorial placenta.” *Reproductive Toxicology* 2012 Nov;34(3):347-56.

✓ David M. Pereira, Patrícia Valentão, **Natércia Teixeira**, Paula B. Andrade. Amino acids, fatty acids and sterols profile of some marine organisms from Portuguese waters. *Food Chemistry*, 2013, 141, 2412-2417.

✓ Fonseca B, Correia-da-Silva G, **Teixeira N** (2013) "The endocannabinoid anandamide induces apoptosis of rat decidual cells through a mechanism involving ceramide synthesis and p38 MAPK activation" *Apoptosis* 18, 1526-1535.

✓ Cristina Amaral, Carla Varela, Georgina Correia-da-Silva, Elisiário Tavares da Silva, Rui A. Carvalho, Saul C. P. Costa, Sara C. Cunha, José O. Fernandes, **Natércia Teixeira**, Fernanda M. F. Roleira (2013). “New Steroidal 17 β -Carboxy Derivatives Present Anti-5 α -Reductase Activity and Anti-proliferative Effects in a Human Androgen-Responsive Prostate Cancer Cell Line.” *Biochimie* 95, 2097-2106.

✓ Amaral C, Varela C, Borges M, Tavares da Silva E, Roleira FM, Correia-da-Silva G, **Teixeira N**. (2013) Steroidal aromatase inhibitors inhibit growth of hormone-dependent breast cancer cells by inducing cell cycle arrest and apoptosis. *Apoptosis*, 18, 1426-1436.

✓ Cristina Amaral, Sara C Cunha, José O Fernandes, Elisiário T Silva, Fernanda Roleira, **Natércia Teixeira** and Georgina Correia-da-Silva (2013) Development of a new Gas Chromatography - Mass Spectrometry (GC-MS) methodology for the evaluation of 5 α -reductase activity" *Talanta*, Mar 30;107:154-61.

✓ Cristina Amaral, Carla Varela, Margarida Azevedo, Elisiário Tavares da Silva, Fernanda Roleira, Shiuian Chen, Georgina Correia-da-Silva, **Natércia Teixeira**. (2013). Effects of steroidal aromatase inhibitors on sensitive and resistant breast cancer cells: aromatase inhibition and autophagy”, *J Steroid Biochem Mol Biol*. May, 135: 51.

✓ Fonseca BM, Costa MA, Almada M, Correia-da-Silva G, **Teixeira NA**. (2013) Endogenous cannabinoids revisited: a biochemistry perspective. *Prostaglandins Other Lipid Mediat*. Apr-May;102-103:13-30.

✓ Varela CL, Amaral C, Correia-da-Silva G, Carvalho RA, **Teixeira NA**, Costa SC, Roleira FM, Tavares-da-Silva EJ. Design, synthesis and biochemical studies of new 7 α -allylandrostanes as aromatase inhibitors. *Steroids*. 2013 Jul;78(7):662-9.

✓ BM Fonseca, G Correia-da-Silva, M Almada, M Costa, **N. A. Teixeira**. “The Endocannabinoid System in the Postimplantation Period: A Role during Decidualization and Placentation.” *Int J Endocrinol*. 2013; 510-540. doi: 10.1155/2013/510540.

✓ Fonseca BM, Costa MA, Almada M, Correia-da-Silva G, **Teixeira NA**. (2013) The endocannabinoid system revisited: a biochemistry perspective. *Prostaglandins Other Lipid Mediat* 2013 102-103: 13.30.

✓ Carla L. Varela, Fernanda M. F. Roleira¹, Saul C. P. Costa, Alexandra S. C. T. Pinto, Ana I. O. S. Martins, Rui A. Carvalho, **Natércia A. Teixeira**, Georgina Correia-da-Silva and Elisiário Tavares-da-Silva. (2014) Insights into the Synthesis of Steroidal A-Ring Olefins. *Helvetica Chimica Acta*. 1;97: 39 -46.

✓ Pereira DM, Correia-da-Silva G, Valentão P, **Teixeira N**, Andrade PB. (2014) The anti-inflammatory effect of unsaturated fatty acids and ergosta-7,22-dien-3-ol from the echinoderm *Marthasterias glacialis* involves prevention of CHOP pathway-mediated ER-stress and NF- κ B activation. *Plos One*. 9(2):e88341.

- ✓ Pereira DM, Correia-da-Silva G, Valentão P, **Teixeira N**, Andrade PB. (2014) GC-MS Lipidomic Profiling of the Echinoderm *Marthasterias glacialis* and Screening for Activity against Human Cancer and Non-cancer Cell Lines. *Comb. Chem. High Throughput Screen.* 17(5):450-7.
- ✓ Pereira DM, Correia-da-Silva G, Valentão P, **Teixeira N**, Andrade PB. (2014) Palmitic Acid and Ergosta-7,22-dien-3-ol Contribute to the Apoptotic Effect and Cell Cycle Arrest of an Extract from *Marthasterias glacialis* L. in Neuroblastoma Cells. *Mar Drugs.* 24;12(1): 54-68.
- ✓ Costa MA, Fonseca BM, Keating E, **Teixeira NA**, Correia-da-Silva G. (2014) 2-arachidonoylglycerol effects in cytotrophoblasts: metabolic enzymes expression and apoptosis in BeWo cells. *Reproduction.* 3;147(3):301-11.
- ✓ Fonseca BM, Battista N, Correia-da-Silva G, Rapino C, Maccarrone M, **Teixeira NA**. (2014) Activity of anandamide (AEA) metabolic enzymes in rat placental bed. *Reprod Toxicol.* 1;49C:74-77.
- ✓ Costa MA, Keating E, Fonseca BM, **Teixeira NA**, Correia-da-Silva G. (2014) 2-Arachidonoylglycerol impairs human cytotrophoblast cells syncytialization: influence of endocannabinoid signalling in placental development. *Mol Cell Endocrinol.* 399:386-94.
- ✓ Fonseca BM, Almada M, Costa MA, **Teixeira NA**, Correia-da-Silva G. (2014) Rat spontaneous foetal resorption: altered α 2-macroglobulin levels and uNK cell number. *Histochem Cell Biol.*; Dec,142(6):693-701.
- ✓ Varela C., Amaral C., Tavares da Silva E., Lopes A., Correia-da-Silva G., Carvalho R.A., Costa S.C., Roleira F.M.F., **Teixeira N**. (2014) Exemestane metabolites: Synthesis, stereochemical elucidation, biochemical activity and anti-proliferative effects in a hormone-dependent breast cancer cell line. *European Journal of Medicinal Chemistry*; 87C: 336-345.
- ✓ Costa MA, Fonseca BM, Keating E, **Teixeira NA**, Correia-da-Silva G. (2014) Transient receptor potential vanilloid 1 is expressed in human cytotrophoblasts: Induction of cell apoptosis and impairment of syncytialization. *Int J Biochem Cell Biol.*; 57:177-85.
- ✓ Almada M, Domingues MR, Dória ML, Fonseca BM, **Teixeira NA**, Correia-da-Silva G. (2015) Lipidomic approach towards deciphering anandamide effects in rat decidual cell. *J Cell Physiol.*; 230(7):1549-57.
- ✓ Costa MA, Fonseca BM, **Teixeira NA**, Correia-da-Silva G. (2015) The endocannabinoid anandamide induces apoptosis in cytotrophoblast cells: involvement of both mitochondrial and death receptor pathways. *Placenta.*; 36(1):69-76.
- ✓ Costa MA, Keating E, Fonseca BM, **Teixeira NA**, Correia-da-Silva G. (2015) 2-Arachidonoylglycerol impairs human cytotrophoblast cell syncytialization: influence of endocannabinoid signalling in placental development. *Mol Cell Endocrinol.*; 399:386-94.
- ✓ Pereira DM, Valentão P, Correia-da-Silva G, **Teixeira N**, Andrade PB. (2015) Translating endoplasmic reticulum biology into the clinic: a role for ER-targeted natural products? *Nat Prod Rep.*;32(5):705-22.
- ✓ Fonseca BM, Correia-da-Silva G, **Teixeira NA**. (2015) Anandamide restricts uterine stromal differentiation and is critical for complete decidualization. *Mol Cell Endocrinol.*;411:167-76.
- ✓ Sá SI, Fonseca BM, **Teixeira N**, Madeira MD. (2015) Estrogen receptors α and β have different roles in the induction and trafficking of progesterone receptors in hypothalamic ventromedial neurons. *FEBS Journal*; 282(6):1126-36.
- ✓ Costa MA, Fonseca BM, Marques F, **Teixeira NA**, Correia-da-Silva G. (2015) The psychoactive compound of *Cannabis sativa*, Delta(9)-tetrahydrocannabinol (THC) inhibits the human trophoblast cell turnover. *Toxicology.*;334:94-103.
- ✓ Costa MA, Fonseca BM, Mendes A, Braga J, **Teixeira NA**, Correia da Silva G. (2015) The endocannabinoid anandamide affects the synthesis of human syncytiotrophoblast-related proteins. *Cell Tissue Res.*; 362(2):441-6.

- ✓ Almada M, Piscitelli F, Fonseca BM, Di Marzo V, Correia-da-Silva G, **Teixeira N.** (2015) Anandamide and decidual remodelling: COX-2 oxidative metabolism as a key regulator. *Biochim Biophys Acta.*;1851(11):1473-81.
- ✓ Amaral C., Lopes A., Varela C.L., Tavares da Silva E., Roleira F.M.F., Correia-da-Silva G., **Teixeira N.** (2015) Exemestane metabolites suppress growth of estrogen-receptor positive breast cancer cells by inducing apoptosis and autophagy: A comparative study with exemestane. *The International Journal of Biochemistry & Cell Biology*; 69: 183–195.
- ✓ Varela CL, Amaral C, Correia-da-Silva G, Costa SC, Carvalho RA, Costa G, Alcaro S, **Teixeira NA**, Tavares-da-Silva EJ, Roleira FM. (2016) Exploring new chemical functionalities to improve aromatase inhibition of steroids. *Bioorg Med Chem.* 24(12):2823-31.
- ✓ Sobral AF, Amaral C, Correia-da-Silva G, **Teixeira N.** (2016) Unravelling exemestane: From biology to clinical prospects. *J Steroid Biochem Mol Biol.*; 163: 1-11.
- ✓ Almada M, Cunha S, Fonseca BM, Amaral C, Piscitelli F, Di Marzo V, Correia-da-Silva G, **Teixeira N.** (2016) Anandamide interferes with human endometrial stromal-derived cell differentiation: An effect dependent on inhibition of cyclooxygenase-2 expression and prostaglandin E2 release. *Biofactors*; 42(3):277-86.
- ✓ Costa L, Amaral C, **Teixeira N**, Correia-da-Silva G, Fonseca BM. (2016) Cannabinoid-induced autophagy: Protective or death role? *Prostaglandins Other Lipid Mediat.*;122:54-63.
- ✓ Costa MA, Fonseca BM, Mendes A, Braga J, **Teixeira NA**, Correia-da-Silva G. (2016) The endocannabinoid 2-arachidonoylglycerol dysregulates the synthesis of proteins by the human syncytiotrophoblast. *Biochim Biophys Acta. Mar*;1861(3):205-12.
- ✓ Sá SI, Fonseca BM, **Teixeira N**, Madeira MD. (2016) Induction and subcellular redistribution of progesterone receptor A and B by tamoxifen in the hypothalamic ventromedial neurons of young adult female Wistar rats. *Mol Cell Endocrinol.* 420:1-10.
- ✓ Almada M, Amaral C, Diniz-da-Costa M, Correia-da-Silva G, **Teixeira NA**, Fonseca BM. (2016) The endocannabinoid anandamide impairs in vitro decidualization of human cells. *Reproduction*; 152(4):351-61.
- ✓ Almada M, Fonseca BM, Amaral C, Diniz-da-Costa M, Correia-da-Silva G, **Teixeira N.** (2017) Anandamide oxidative metabolism-induced endoplasmic reticulum stress and apoptosis. *Apoptosis.* 22(6):816-826.
- ✓ Fonseca BM, **Teixeira N.**, Correia-da-Silva G (2017) Cannabinoids as Modulators of Cell Death: Clinical Applications and Future Directions. *Rev Physiol Biochem Pharmacol.*; 173:63-88.
- ✓ Almada M, Costa L., Fonseca BM, Amaral C, **Teixeira N.**, Correia-da-Silva G. (2017) The synthetic cannabinoid WIN-55,212-55,212 induced-apoptosis in cytotrophoblasts cells by a mechanism dependent on CB1 receptor. *Toxicology*, 385, 67–73. doi: 10.1016/j.tox.2017.04.013.
- ✓ Maia J, Almada M, Silva A, Correia-da-Silva G, **Teixeira N**, Sá SI, Fonseca BM. “The endocannabinoid system expression in the female reproductive tract is modulated by estrogen.” *J. Steroid Biochem. Mol. Biol.* 2017. 2017 Nov; 174:40-47. doi: 10.1016/j.jsbmb.2017.07.023.
- ✓ Amaral C., Toloi M. R. T., Vasconcelos L.D., Fonseca M. J. V., Correia-da-Silva G., **Teixeira N.** (2017) The role of Soybean extracts and isoflavones in hormone-dependent breast cancer: aromatase activity and biological effects. *Food & Function*; 8(9): 3064-3074.
- ✓ Amaral C., Varela C. L., Maurício J., Sobral F., Costa S.C., Roleira F.M.F. , Tavares-da-Silva E., Correia-da-Silva G., **Teixeira N.** (2017) Anti-tumor efficacy of new 7a-substituted androstanes as aromatase inhibitors in hormone-sensitive and resistant breast cancer cells. *Journal of Steroid Biochemistry and Molecular Biology*; 171: 218-228.

- ✓ Sá S, **Teixeira NA**, Fonseca BM. (2018) “Effects of tamoxifen on neuronal morphology, connectivity and biochemistry of hypothalamic ventromedial neurons: impact on the modulators of sexual behavior” *Neurobiology of Disease* 109PA pp. 33-43.
- ✓ Augusto TV, Correia-da-Silva G, Rodrigues CMP, **Teixeira N**, Amaral C. Acquired resistance to aromatase inhibitors: where we stand! *Endocr Relat Cancer*. 2018 May;25(5):R283-R301.
- ✓ Fonseca BM, Correia-da-Silva G, Teixeira NA. Cannabinoid-induced cell death in endometrial cancer cells: involvement of TRPV1 receptors in apoptosis. *J Physiol Biochem*. 2018 Feb 13.

BOOK CHAPTERS

- ✓ David M. Pereira, Georgina Correia da Silva, Patrícia Valentão, Natércia Teixeira, Paula B. Andrade. Marine Metabolomics in Cancer Chemotherapy. Em “OMICS: Biomedical Perspectives and applications”, CRC Press. Edited by Debmalya Barh. pp. 379-400, 2012.
- ✓ Fonseca BM., Teixeira NA, Correia-da-Silva G. Cannabinoids as modulators of cell death: clinical applications and future directions. *Reviews in Physiology, Biochemistry and Pharmacology* 2017; 173: 63–88.

SCIENTIFIC PUBLICATIONS IN NATIONAL PEER-REVIEWED JOURNALS

- ✓ Santos Silva, A.S., Guerra, F.C., Ribeiro, M.M. e Teixeira, N.A. (1989) “Deficiência em glucose-6-fosfato-desidrogenase (G6PD). Estabelecimento de valores de referência da sua actividade no eritrócito. Estudo de dois hemizigotos” *Rev. Port. Farmácia*, 39, 80-84.
- ✓ Mendes, E., Teixeira, N.A. e Ferreira, M. (1993) “Aplicação das técnicas de electroforese PAGE e de ELISA à detecção do glúten em alimentos destinados a doentes celíacos”, *Rev. Port. Farm.*, vol. XLIII, nº1, 31-35.
- ✓ Teixeira, N.A. (1997) “The localization and synthesis of decidualisation-associated protein in rat decidual cells” *Rev. Port. Farm.*, vol. XLVII, nº3, 121-127.
- ✓ Marques, A.F.P., Teixeira, N.A., Gambaretto, C., Sillero, A. e Sillero, M.A.G. (1998) “5'-nucleotidase – IMP/GMP específica (EC 3.1 3.5): características e funções fisiológicas” *Rev. Port. Farm.*, vol. XLVIII, 53-60.
- ✓ Marques, A.F.P., Teixeira, N.A., Gambaretto, C., Sillero, A. e Sillero, M.A.G. (1999) “Ap4A e outros compostos do tipo NpnN’: síntese , degradação e funções biológicas” *Rev. Port. Farm.*, vol. XLIX, nº 2, 71-80.
- ✓ Veloso, A.C.A, Teixeira, N.A, Ferreira, I.M.P.L.V.O., Ferreira M.A (2000) "Proteínas lácteas: efeitos dos tratamentos tecnológicos" *Rev. Aliment. Hum.*, 6 (3), 177-192.
- ✓ Veloso, A.C.A, Teixeira, N.A, Ferreira, I.M.P.L.V.O., Ferreira M.A (2001) ”Metodologias de doseamento das proteínas do leite”, *Boletim de Biotecnologia* , 69, 17-31.
- ✓ Santos-Silva A, Rebelo I, Belo L, Monteiro I, Teixeira NA, Castro E, Quintanilha A. (2004) “Lesão Eritrocitária e Activação Leucocitária como Potenciais Marcadores de Risco de Eventos Cardiovasculares” [Em linha]. [Consult. 14 Fev. 2005].
- ✓ Silva F, Ferreira IMPLVO, Teixeira N (2005) “Constituintes da Cerveja que influenciam a qualidade da espuma” *Boletim Biotecnologia*, 80, 8-16.
- ✓ Bruno M. Fonseca, Georgina Correia-da-Silva, Natércia A. Teixeira. (2012) Endocannabinóides e gravidez. *Bioanálise*, Ano IX n.º1, Pages 13-16.
- ✓ Fonseca, Bruno M., Costa, Mariana A., Almada, Marta, Soares, Ana, Correia-da-Silva, Georgina, Teixeira, Natércia A. “O sistema Endocannabinóide – uma perspetiva terapêutica.” *Acta Farmacêutica Portuguesa* 2013 Volume 2, n.º2; 37-44

✓ D.M. Pereira, F. Ferrves, P. Valentão, N. Teixeira, P.B. Andrade. (2014) Chemical investigations on the spiny sca-star *Marthasterias glacialis* collected in Portugal as a source of bioactive molecules. *Acta Farmaceutica Portuguesa*, 3: 1, 23 -28.