Curriculum Vitae

Angela Terezinha de Souza Wyse

Known as **Angela Wyse**

Scientific Name (**Angela TS Wyse)**

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Abstract

National Council for Scientific and Tecnological Development (CNPq) - Research Productivity Scholarship – 1A, which is the highest level of excellence. Full Professor of Biochemistry, Institute of Health Science, Federal University of Rio Grande do Sul (UFRGS). She obtained her Master and PhD degrees in Biochemistry at UFRGS. She has supervised 17 post-doctoral fellows, 29 PhD and 45 MSc students, some of whom currently hold academic research positions at universities in Brazil and in the USA. Professor Wyse is a member of the Brazilian Academy of Sciences (ABC) in the area of Biological Sciences and in 2018 was elected Member of the World Academy of Sciences - TWAS, in the area of Medical and Health Science/Neuroscience. Her research work focuses on neuroprotection and hereditary neurometabolic diseases. She has published more than 390 scientific articles in leading international journals in her area. She was awarded the CAPES-ELSEVIER Award 2014 and recently she has been awarded the "Gaúcho Research Award 2018" – Rio Grande do Sul Research Foundation (FAPERGS). More recently, she has been awarded the Scientist Year 2020 Award by International Achievements research Center, Chicago, USA. Professor Wyse has been developing the spirit of science, focusing on neuroscience and interdisciplinarity, with children of public schools of Porto Alegre stimulating interest for science. She published a book of poetry "Neuropoesia" (Neuropoetry).

Professional Address

Laboratório de Neuroproteção e Doenças Neurometabólicas

Departamento de Bioquímica, Instituto de Ciências Básicas da Saúde

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Personal data

Angela Terezinha de Souza Wyse

Born in São José do Norte/RS, Brazil.

Formal Education/Degree

1. *Graduation*

a) PhD in Biological Sciences/Biochemistry- 1995

Federal University of Paraná/Federal University of Rio Grande do Sul (UFRGS)

Advisor: Moacir Wajner.

Major Area: Biological Sciences/Biochemistry.

b) Master in Biological Sciences/Biochemistry -1990

Federal University of Rio Grande do Sul

Advisor: Clovis Wannmacher.

Major Area: Biological Sciences/Biochemistry.

Professional Experience

1998 – current – Full Professor of Biochemistry, Institute of Basic Health Science,

Federal University of Rio Grande do Sul (UFRGS). Full Professsor since 2016.

1985 – 1998: Professor of Biochemistry, Institute of Biological Sciences, Federal University of Rio Grande (FURG).

Ongoing Projects

1. Therapeutic strategies in experimental models of aminoacidopathies and disorders with homocysteine accumulation: Biochemical, morphological and behavioral studies Key words: inborn errors of metabolism, neurometabolic disease and neuroprotection. Support financial: CNPq/Brazil

2. Evaluation of biochemistry, histological and behavioral in brain and heart of rats subjected to experimental model of classical homocystinuria. *Key words*: inborn error of metabolism, homocysteine, homocystinuria, methionine creatine, folic acid, physic exercise. Support financial: CNPq/Brazil

3. Studies in experimental model of menopause and possible cardio and neuroprotective role of vitamin D. *Key words*: menopause, vitamin D and protection. Support financial: CNpq/Brazil

4. Biochemical, morphological and behavioral evaluation in rats submitted to methylphenidate administration. *Key words*: methylphenidate, memory and signaling Support financial: CNPq/Brazil

5. Evaluation of the FNDC5 / Irisin pathway in the neuroprotection induced by gestational physical exercise on neonatal hypoxia-ischemia: Role of sexual dimorphism. *Key words* sexual dimorphism, physical exercise, neuroprotection, FNDC5 / Irisin, mitochondrial function, memory. Support financial: FAPERGS/Brazil6. Educational Strategy for Basic

6. Education: Dissemination of scientific knowledge from experimentation. Support financial: CNPq/Brazil

Areas of Expertise

1. Major Area: Biological Sciences / Area: Biochemistry.

2. Major Area: Life Sciences / Area: Neuroscience

Languages

English - Comprehends Well, Speaks Well, Reads Well, Writes Well.

Spanish - Comprehends Well, Speaks Reasonably, Reads Well.

French - Comprehends Well, Speaks Reasonably, Reads Well.

Awards more relevant and Titles

2020 Scientist Year 2020 Award by International Achievements Research Center, Chicago, USA

2020 – Woman Protagonist of Science in Brazil– Biological Science/ Open Box of Sciences

2019 – Illustrious Riograndina from the Chamber of Commerce of the city of Rio Grande, RS

2018 – Pesquisador Gaúcho Award - from State Research Foundation (FAPERGS)

2018 Member of TWAS, in the area of Medical and Life science – Neuroscience

2016 Member of Brazilian Academy of Science, in the area of Biological Science

2014 CAPES-ELSEVIER Award 2014

Bibliographical Production

Citations under the name: Wyse AT* and/or Wyse Angela

Web of Science: number of citations: 7035, H factor: 39

Scopus: number of citations: 7299, H factor: 40

Publisched articles in scientific journals

1. **Wyse ATS**, Sanches EF, Dos Santos TM, Siebert C, Kolling J, Netto CA Chronic mild hyperhomocysteinemia induces anxiety-like symptoms, aversive memory deficits and hippocampus atrophy in adult rats: New insights into physiopathological mechanisms. Brain Res. 2020 Feb 1;1728:146592. doi: 10.1016/j.brainres.2019.146592.

2. Silveira JS, Antunes GL, Kaiber DB, da Costa MS, Ferreira FS, Marques EP, Schmitz F, Gassen RB, Breda RV, **Wyse ATS**, Stein RT, Pitrez PM, da Cunha AA. Autophagy induces eosinophil extracellular traps formation and allergic airway inflammation in a murine asthma model. J Cell Physiol. 2020 Jan;235(1):267-280. doi: 10.1002/jcp.28966.

3. Antunes GL, Silveira JS, Kaiber DB, Luft C, da Costa MS, Marques EP, Ferreira FS, Breda RV, **Wyse ATS**, Stein RT, Pitrez PM, da Cunha AA. Cholinergic anti-inflammatory pathway confers airway protection against oxidative damage and attenuates inflammation in an allergic asthma model. J Cell Physiol. 2020 Feb;235(2):1838-1849. doi: 10.1002/jcp.29101.

4. Bobermin LD, Weber FB, Dos Santos TM, Belló-Klein A, **Wyse ATS**, Gonçalves CA, Quincozes-Santos A.Sulforaphane Induces Glioprotection After LPS Challenge. Cell Mol Neurobiol. 2020 Oct 20. doi: 10.1007/s10571-020-00981-5.

5. Soares MSP, Pedra NS, Bona NP, de Souza AÁ, Teixeira FC, Azambuja JH, **Wyse AT**, Braganhol E, Stefanello FM, Spanevello RM. Methionine and methionine sulfoxide induces neurochemical and morphological changes in cultured astrocytes: Involvement of Na^+, K^+-ATPase activity, oxidative status, and cholinergic and purinergic signaling. Neurotoxicology, 77:60-70, 2020, doi: 10.1016/j.neuro.2019.12.013.

6. **Wyse AT**, Siebert C, Bobermin LD, Dos Santos TM, Quincozes-Santos A. Neurotox Res. Changes in Inflammatory Response, Redox Status and Na^+, K^+-ATPase Activity in Primary Astrocyte Cultures from Female Wistar Rats Subject to Ovariectomy. 37(2):445-454, 2020. doi: 10.1007/s12640-019-00128-5.

7. Zanandrea R, Wiprich MT, Altenhofen S, Rubensam G, Dos Santos TM, **Wyse ATS**, Bonan CD. Withdrawal Effects Following Methionine Exposure in Adult Zebrafish. Mol Neurobiol. 2020 Aug;57(8):3485-3497. doi: 10.1007/s12035-020-01970-x.

8. Altermann Torre V, Machado AG, de Sá Couto-Pereira N, Mar Arcego D, Dos Santos Vieira A, Salerno PSV, Dos Santos Garcia E, Lazzaretti C, Toniazzo AP, Nedel F, Noschang C, Schmitz F, **Wyse ATS**, Dalmaz C, Krolow R. Consumption of a palatable diet rich in simple sugars during development impairs memory of different degrees of emotionality and changes hippocampal plasticity according to the age of the rats. Int J Dev Neurosci. 2020 10.1002/jdn.10032. Online ahead of print.

9. Larrouyet-Sarto ML, Tamura AS, Alves VS, Santana PT, Ciarlini-Magalhães R, Rangel TP, Siebert C, Hartwig JR, Dos Santos TM, **Wyse ATS**, Takiya CM, Coutinho-Silva R, Savio LEB. P2X7 receptor deletion attenuates oxidative stress and liver damage

in sepsis. Purinergic Signal. 2020 Oct 22. doi: 10.1007/s11302-020-09746-7. Online ahead of print.

10. Ferreira AGK, Biasibetti-Brendler H, Sidegum DSV, Loureiro SO, Figueiró F, **Wyse ATS.** Effect of Proline on Cell Death, Cell Cycle, and Oxidative Stress in C6 Glioma Cell Line. Neurotox Res. 2020 Nov 16. doi: 10.1007/s12640-020-00311-z. Online ahead of print.

11. Noschang C, Krolow R, Arcego DM, Marcolin M, Ferreira AG, da Cunha AA, **Wyse ATS**, Dalmaz C. Early-life stress affects behavioral and neurochemical parameters differently in male and female juvenile Wistar rats. Int J Dev Neurosci. 2020, 80(6):547-557. doi: 10.1002/jdn.10050.

12. Soares MSP, de Mattos BDS, de Souza AÁ, Spohr L, Tavares RG, Siebert C, Moreira DS, **Wyse ATS** et al. Hypermethioninemia induces memory deficits and morphological changes in hippocampus of young rats: implications on pathogenesis. Carvalho FB, Rahmeier F, Fernandes MDC, Stefanello FM, Spanevello RM. Amino Acids. 2020, 52(3):371-385. doi: 10.1007/s00726-019-02814-2.

13. Ferreira FS, Schmitz F, Marques EP, Siebert C, **Wyse ATS.** Intrastriatal Quinolinic Acid Administration Impairs Redox Homeostasis and Induces Inflammatory Changes: Prevention by Kynurenic Acid. Neurotox Res. 2020 Jun;38(1):50-58. doi: 10.1007/s12640-020-00192-2.

14. Figueiró PW, Moreira DS, Dos Santos TM, Prezzi CA, Rohden F, Faccioni-Heuser MC, Manfredini V, Netto CA, **Wyse ATS.**The neuroprotective role of melatonin in a gestational hypermethioninemia model. Int J Dev Neurosci. 2019 Nov;78:198-209. doi: 10.1016/j.ijdevneu.2019.08.004.

15. Marques EP, **Wyse ATS.** Creatine as a Neuroprotector: an Actor that Can Play Many Parts. Neurotox Res. 2019 Aug;36(2):411-423. doi: 10.1007/s12640-019-00053-7.

16. **Wyse ATS**, Grings M, Wajner M, Leipnitz G. The Role of Oxidative Stress and Bioenergetic Dysfunction in Sulfite Oxidase Deficiency: Insights from Animal Models. Neurotox Res. 2019 Feb;35(2):484-494. doi: 10.1007/s12640-018-9986-z.

17. Marques EP, Ferreira FS, Santos TM, Prezzi CA, Martins LAM, Bobermin LD, Quincozes-Santos A, **Wyse ATS.** Cross-talk between guanidinoacetate neurotoxicity, memory and possible neuroprotective role of creatine. Biochim Biophys Acta Mol Basis Dis. 2019 1;1865(11):165529. doi: 10.1016/j.bbadis.2019.08.005.

18. Moreira-Souza ACA, Rangel TP, Silva SRBD, Figliuolo VR, Savio LEB, Schmitz F, Takiya CM, **Wyse ATS**, Vommaro RC, Coutinho-Silva R. Disruption of Purinergic Receptor P2X7 Signaling Increases Susceptibility to Cerebral Toxoplasmosis. Am J Pathol. 2019 Apr;189(4):730-738. doi: 10.1016/j.ajpath.2019.01.001.

19. Silveira JS, Antunes GL, Kaiber DB, da Costa MS, Marques EP, Ferreira FS, Gassen RB, Breda RV, **Wyse ATS**, Pitrez P, da Cunha AA. Reactive oxygen species are involved in eosinophil extracellular traps release and in airway inflammation in asthma. J Cell Physiol. 2019 Dec;234(12):23633-23646. doi: 10.1002/jcp.28931.

20. Seminotti B, Zanatta Â, Ribeiro RT, da Rosa MS, **Wyse ATS**, Leipnitz G, Wajner. Disruption of Brain Redox Homeostasis, Microglia Activation and Neuronal Damage Induced by Intracerebroventricular Administration of S-Adenosylmethionine to Developing Rats. M. Mol Neurobiol. 2019 Apr;56(4):2760-2773. doi: 10.1007/s12035-018-1275-6.

21. Kolling J, Kolling J, Franceschi ID, Nishihira VSK, Baldissera MD, Pinto CG, Mezzomo NJ, Carmo GMD, Feksa LR, Fernandes LS, Orengo G, Vaucher RA, Giongo JL, **Wyse ATS**, Wannmacher CMD, Rech VC.Resveratrol and resveratrol-hydroxypropyl-β-cyclodextrin complex recovered the changes of creatine kinase and Na+, K+-ATPase activities found in the spleen from streptozotocin-induced diabetic rats. An Acad Bras Cienc. 2019;91(3):e20181330. doi: 10.1590/0001-3765201920181330.

22. Mari C, Odorcyk FK, Sanches EF, Wartchow KM, Martini AP, Nicola F, Zanotto C, **Wyse AT**, Gonçalves CA, Netto CA. Arundic acid administration protects astrocytes, recovers histological damage and memory deficits induced by neonatal hypoxia ischemia in rats. Int J Dev Neurosci. 2019 Aug;76:41-51. doi: 10.1016/j.ijdevneu.2019.06.003. Epub 2019 Jun 13. PMID: 31202867

23. Dos Santos TM, Siebert C, de Oliveira MF, Manfredini V, **Wyse ATS.** Chronic mild Hyperhomocysteinemia impairs energy metabolism, promotes DNA damage and induces a Nrf2 response to oxidative stress in rats brain. Cell Mol Neurobiol. 2019 Jul;39(5):687-700. doi: 10.1007/s10571-019-00674-8.

24. Schmitz F, Chao MV, **Wyse ATS**. Methylphenidate alters akt-mtor signaling in rat pheochromocytoma cells. International Journal of Developmental Neuroscience, v. 73, p. 10-18, 2019.

25. Abreu AC Moreira-Souza, Prado T, Batista Da Silva, Sthefani Rodrigues, Figliuolo, Vanessa Ribeiro, Baggio Savio, Luiz Eduardo; Schmitz, Felipe; Takiya, Christina, **Wyse, Angela TS**., Vommaro, Rossiane Claudia; Coutinho-Silva, Robson . Disruption of P2X7 Signaling Increases Susceptibility to Cerebral Toxoplasmosis. American Journal of Pathology, v. 189, p. 730-738, 2019.

26. **Wyse, Angela TS**.; Grings, Mateus; Wajner, Moacir; Leipnitz, Guilhian. The Role of Oxidative Stress and Bioenergetic Dysfunction in Sulfite Oxidase Deficiency: Insights from Animal Models. Neurotoxicity Research, v. 35, p. 484-494, 2019.

27. Longoni, Aline; Bellaver, Bruna; Bobermin, Larissa Daniele; Santos, Camila Leite; Nonose, Yasmine; Kolling, Janaina; Dos Santos, Tiago M.; De Assis, Adriano M.; Quincozes-Santos, André; **Wyse, Angela T. S.** Homocysteine Induces Glial Reactivity in Adult Rat Astrocyte Cultures. Molecular Neurobiology, v. 55, p. 1966-1976, 2018.

28. Biasibetti-Brendler, Helena; Schmitz, Felipe; Pierozan, Paula; Zanotto, Bruna S.; Prezzi, Caroline A.; De Andrade, Rodrigo Binkowski; Wannmacher, Clovis M.D.; **Wyse, Angela T.S.** Hypoxanthine Induces Neuroenergetic Impairment and Cell Death in Striatum of Young Adult Wistar Rats. Molecular Neurobiology, v. 55, p. 4098-4106, 2018.

29. Pierozan, Paula; Biasibetti-Brendler, Helena; Schmitz, Felipe; Ferreira, Fernanda; Pessoa-Pureur, Regina; **Wyse, Angela T S**. Kynurenic Acid Prevents Cytoskeletal Disorganization Induced by Quinolinic Acid in Mixed Cultures of Rat Striatum. Molecular Neurobiology, v. 55, p. 5111-5124, 2018.

30. Kroth, A.; Mackedanz, V.; Matté, C.; **Wyse, A. T. S.**; Ribeiro, M. F. M.; Partata, W. A. Effect of Sciatic Nerve Transection on acetylcholinesterase activity in spinal cord and skeletal muscles of the bullfrog Lithobates catesbeianus. Brazilian Journal Of Biology, v. 78, p. 217-223, 2018.

31. Schweinberger, Bruna Martins; Rodrigues, André Felipe; Dos Santos, Tiago Marcon; Rohden, Francieli; Barbosa, Silvia; Da Luz Soster, Paula Rigon; Partata, Wania Aparecida; Faccioni-Heuser, Maria Cristina; **Wyse, Angela T.S.** Methionine Administration in Pregnant Rats Causes Memory Deficit in the Offspring and Alters Ultrastructure in Brain Tissue. Neurotoxicity Research, v. 33, p. 239-246, 2018.

32. Pierozan, Paula; Biasibetti-Brendler, Helena; Schmitz, Felipe; Ferreira, Fernanda; Netto, Carlos Alexandre; **Wyse, Angela T. S.** Synergistic Toxicity of the Neurometabolites Quinolinic Acid and Homocysteine in Cortical Neurons and Astrocytes: Implications in Alzheimer´s Disease. Neurotoxicity Research, v. 34, p. 147-163, 2018.

33. Schmitz, Felipe; Pierozan, Paula; Biasibetti-Brendler, Helena; Ferreira, Fernanda Silva; Dos Santos Petry, Fernanda; Trindade, Vera Maria Treis; Pessoa-Pureur, Regina; **Wyse, Angela T.S.** Methylphenidate disrupts cytoskeletal homeostasis and reduces membrane-associated lipid content in juvenile rat hippocampus. Metabolic Brain Disease, v. 33, p. 693-704, 2018.

34. Schweinberger, Bruna M.; Rodrigues, André F.; Turcatel, Elias; Pierozan, Paula; Pettenuzzo, Leticia F.; Grings, Mateus; Scaini, Giselli; Parisi, Mariana M.; Leipnitz, Guilhian; Streck, Emilio L.; Barbé-Tuana, Florencia M.; **Wyse, Angela T. S.** Maternal Hypermethioninemia Affects Neurons Number, Neurotrophins Levels, Energy Metabolism, and Na+,K+-ATPase Expression/Content in Brain of Rat Offspring. Molecular Neurobiology, v. 55, p. 980-988, 2018.

35. Neves, J.D.; Vizuete, A.F.; Nicola, F.; Da Ré, C.; Rodrigues, A.F.; Schmitz, F.; Mestriner, R.G.; Aristimunha, D.; **Wyse ATS;** Netto, C. A. Glial glutamate transporters expression, glutamate uptake, and oxidative stress in an experimental rat model of intracerebral hemorrhage. Neurochemistry International, v. 116, p. 13-21, 2018.

36. Ferreira, Fernanda Silva; Biasibetti-Brendler, Helena; Pierozan, Paula; Schmitz, Felipe; Bertó, Carolina Gessinger; Prezzi, Caroline Acauan; Manfredini, Vanusa; **Wyse, Angela T. S.** Kynurenic Acid Restores Nrf2 Levels and Prevents Quinolinic Acid-Induced Toxicity in Rat Striatal Slices. Molecular Neurobiology, p. 8538-8539, 2018.

37. Hayne, L.A.; **Wyse, A.T.S**. Econometric Analysis of Brazilian Scientific Production and Comparison with BRICS. Science Technology and Society, v. 23, p. 25-46, 2018.

38. De S. Moreira, Daniella; Figueiró, Paula W.; Siebert, Cassiana; Prezzi, Caroline A.; Rohden, Francieli; Guma, Fatima C. R.; Manfredini, Vanusa; **Wyse, Angela T. S.** . Chronic Mild Hyperhomocysteinemia Alters Inflammatory and Oxidative/Nitrative

Status and Causes Protein/DNA Damage, as well as Ultrastructural Changes in Cerebral Cortex: Is Acetylsalicylic Acid Neuroprotective?. Neurotoxicity Research, v. 33, p. 580-592, 2018.

39. Siebert, Cassiana; Dos Santos, Tiago Marcon; Bertó, Carolina Gessinger; Parisi, Mariana Migliorini; Coelho, Ritiéle Pinto; Manfredini, Vanusa; Barbé-Tuana, Florencia M.; **Wyse, Angela T. S.** Vitamin D Supplementation Reverses DNA Damage and Telomeres Shortening Caused by Ovariectomy in Hippocampus of Wistar Rats. Neurotoxicity Research, v. 34, p. 538-546, 2018.

40. Vanzin, Camila Simioni; Mescka, Caroline Paula; Donida, Bruna; Marchetti, Desirèe Padilha; Jacques, Carlos Eduardo; Hauschild, Tatiane; Faverzani, Jéssica Lamberty; Deon, Marion; Moura, Dinara Jaqueline; Saffi, Jenifer; Coelho, Daniella De Moura; Wajner, Moacir; **Wyse, Angela T. S.**; Vargas, Carmen Regla . DNA damage in homocystinuria: 8-oxo-7,8-dihydro-2 -deoxyguanosine levels in cystathionine-²-synthase deficient patients and the in vitro protective effect of N-acetyl-L-cysteine. Clinical and Biomedical Research, v. 38, p. 50-57, 2018.

41. Zanatta, Ângela; Cecatto, Cristiane; Ribeiro, Rafael Teixeira; Amaral, Alexandre Umpierrez; **Wyse, Angela TS**; Leipnitz, Guilhian; Wajner, Moacir . S-Adenosylmethionine Promotes Oxidative Stress and Decreases Na+, K+-ATPase Activity in Cerebral Cortex Supernatants of Adolescent Rats: Implications for the Pathogenesis of S-Adenosylhomocysteine Hydrolase Deficiency. Molecular Neurobiology, v. 55, p. 5868-5878, 2018.

42. Pierozan, Paula; Colín-González, Ana Laura; Biasibetti, Helena; Da Silva, Janaina Camacho; Wyse, Angela; Wajner, Moacir; Santamaria, Abel . Toxic Synergism Between Quinolinic Acid and Glutaric Acid in Neuronal Cells Is Mediated by Oxidative Stress: Insights to a New Toxic Model. Molecular Neurobiology, v. 55, p. 5362-5376, 2018.

43. Siebert, Cassiana; Bertó, Carolina Gessinger; Ferreira, Fernanda Silva; Moreira, Daniella De S.; Dos Santos, Tiago Marcon; **Wyse, Angela T.S.** . Vitamin D partially reverses the increase in p-NF-κB/p65 immunocontent and interleukin-6 levels, but not in acetylcholinesterase activity in hippocampus of adult female ovariectomized rats. International Journal of Developmental Neuroscience, v. 71, p. 122-129, 2018.

44. Catarina, Anderson V.; Luft, Carolina; Greggio, Samuel; Venturin, Gianina T.; Ferreira, Fernanda; Marques, Eduardo P.; Rodrigues, Letícia; Wartchow, K. M.; Leite, Marina C.; Gonçalves, Carlos A.; **Wyse ATS**; Da Costa, Jaderson C.; De Oliveira, Jarbas R.; Branchini, Gisele; Nunes, Fernanda B. . Fructose-1,6-bisphosphate preserves glucose metabolism integrity and reduces reactive oxygen species in the brain during experimental sepsis. BRAIN RESEARCH, v. 1698, p. 54-61, 2018.

45. Deniz, Bruna Ferrary; Confortim, Heloísa Deola; Deckmann, Iohanna; Miguel, Patrícia Maidana; Bronauth, Loise; De Oliveira, Bruna Chaves; Vieira, Milene Cardoso; Dos Santos, Tiago Marcon; Bertó, Carolina Gessinger; Hartwig, Josiane; De Souza Wyse, **Ângela Terezinha**; Pereira, Lenir Orlandi . Gestational Folic Acid Supplementation Does Not Affects The Maternal Behavior And The Early Development Of Rats Submitted To Neonatal Hypoxia-Ischemia But The High Supplementation Impairs The Dam?s Memory And The Na+, K+ - Atpase Activity In The Pup?s

Hippocampus. International Journal of Developmental Neuroscience, v. 71, p. 181-192, 2018.

46. Lazzaretti, Camilla; Kincheski, Grasielle Clotildes; Pandolfo, Pablo; Krolow, Rachel; Toniazzo, Ana Paula; Arcego, Danusa Mar; De Sá Couto-Pereira, Natividade; Zeidán-Chuliá, Fares; De Oliveira, Ben-Hur Neves; Bertolini, Diego; Breunig, Raquel Luísa; Ferreira, Andréa Kurek; Kolling, Janaína; Siebert, Cassiana; Wyse, **Angela Teresinha; Souza,** Tadeu Mello E; Dalmaz, Carla . Neonatal handling impairs intradimensional shift and alters plasticity markers in the medial prefrontal cortex of adult rats. Physiology & Behavior, v. 197, p. 29-36, 2018.

47. Rodrigues, André Felipe; Biasibetti, Helena; Zanotto, Bruna Stela; Sanches, Eduardo Farias; Schmitz, Felipe; Nunes, Vinícius Tejada; Pierozan, Paula; Manfredini, Vanusa; Magro, Débora Delwing Dal; Netto, Carlos Alexandre; **Wyse, Angela T.S.** . D-Galactose Causes Motor Coordination Impairment, and Histological and Biochemical Changes in the Cerebellum of Rats. Molecular Neurobiology, v. 54, p. 4127-4137, 2017.

48. Delwing-De Lima, Daniela; Fröhlich, Monique; Dalmedico, Leticia; Aurélio, Juliana Gruenwaldt Maia; Delwing-Dal Magro, Débora; Pereira, Eduardo Manoel; **Wyse, Angela T.S.** Galactose alters markers of oxidative stress and acetylcholinesterase activity in the cerebrum of rats: protective role of antioxidants. Metabolic Brain Disease, v. 32, p. 359-368, 2017.

49. Longoni, Aline; Kolling, Janaina; Siebert, Cassiana; Dos Santos, João Paulo; Da Silva, Jussemara Souza; Pettenuzzo, Letícia F.; Meira-Martins, Leo Anderson; Gonçalves, Carlos-Alberto; De Assis, Adriano M; **Wyse, Angela TS** . 1,25-dihydroxyvitamin D3 prevents deleterious effects of homocysteine on mitochondrial function and redox status in heart slices. Nutrition Research (New York, N.Y.), v. 38, p. 52-63, 2017.

50. Biasibetti, Helena; Pierozan, Paula; Rodrigues, André Felipe; Manfredini, Vanusa; **Wyse, Angela T. S.** Hypoxanthine Intrastriatal Administration Alters Neuroinflammatory Profile and Redox Status in Striatum of Infant and Young Adult Rats. Molecular Neurobiology, v. 54, p. 2790-2800, 2017.

51. Pedrazza, Leonardo; Cunha, Aline Andrea; Luft, Carolina; Nunes, Nailê Karine; Schimitz, Felipe; Gassen, Rodrigo Benedetti; Breda, Ricardo Vaz; Donadio, Marcio Vinícius Fagundes; **De Souza Wyse, Angela Terezinha**; Pitrez, Paulo Marcio Condessa; Rosa, Jose Luis; De Oliveira, Jarbas Rodrigues . Mesenchymal Stem Cells Improves Survival in LPS-induced Acute Lung Injury Acting through Inhibition of NETs Formation. Journal of Cellular Physiology, v. 232, p. 3552-3564, 2017.

52. Odorcyk, F. K.; Sanches, E. F.; Nicola, F. C.; Moraes, J.; Pettenuzzo, L. F.; Kolling, J.; Siebert, C.; Longoni, A.; Konrath, E. L.; **Wyse, A**.; Netto, C. A. . Administration of Huperzia quadrifariata Extract, a Cholinesterase Inhibitory Alkaloid Mixture, has Neuroprotective Effects in a Rat Model of Cerebral Hypoxia-Ischemia. Neurochemical Research, v. 42, p. 552-562, 2017.

53. Dos Santos, Tiago Marcon; Kolling, Janaína; Siebert, Cassiana; Biasibetti, Helena; Bertó, Carolina Gessinger; Grun, Lucas Kich; Dalmaz, Carla; Barbé-Tuana, Florencia María; **Wyse, Angela T.S.** . Effects of previous physical exercise to chronic stress on

long-term aversive memory and oxidative stress in amygdala and hippocampus of rats. International Journal of Developmental Neuroscience, v. 56, p. 58-67, 2017.

54. Delwing-De Lima, Daniela; Delwing-Dal Magro, Débora; Vieira, Cindy Laís Pett; Grola, Gislaine Maria Marestoni; Fischer, Débora Adriana; **de Souza Wyse, Angela Terezinha**. Hyperargininemia and renal oxidative stress: Prevention by antioxidants and N G -nitro- l -arginine methyl ester. Journal of Biochemical and Molecular Toxicology, v. 31, p. 1-7, 2017.

55. De Moura Alvorcem, Leonardo; Da Rosa, Mateus Struecker; Glänzel, Nícolas Manzke; Parmeggiani, Belisa; Grings, Mateus; Schmitz, Felipe; **Wyse, Angela T.S.**; WAJNER, Moacir; Leipnitz, Guilhian . Disruption of Energy Transfer and Redox Status by Sulfite in Hippocampus, Striatum, and Cerebellum of Developing Rats. Neurotoxicity Research, v. 32, p. 264-275, 2017.

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Patents

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1.Menopause and Coenzyme Q In: Iain Hargreaves. (Org.). 328 ed.: NOVA BIOMEDICAL, 2015, v. 9, p. 171-183.

Academic Advisory - current

1. ***Master's Thesis***

1. Marcus Barbosa do Carmo. Dissertation (Master's in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul

2. ***PhD Thesis***

1. Osmar Júnior. Begin: 2019. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul.

2. Fernanda Ferreira. Begin: 2018. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul.

3. Tatiana Dutra. Begin: 2019. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul.

4. Tiago Marcon dos Santos. Begin: 2017. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul (Advisor).

5. Joseane Silveira. Begin: 2017. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul.

3. Post-doctorate supervision

1. Cassiana Siebert. Begin: 2019. Federal University of Rio Grande do Sul

2. Felipe Schmitz. Begin: 2019. Federal University of Rio Grande do Sul

3. Eduardo Faria Sanches. Begin: 2018. Federal University of Rio Grande do Sul

4. Scientific Initiation

1.Maria Luiza Bonacina Beust. Begin: 2019. Scientific Initiation (Undergraduate Student in Pharmacy) – Federal University of Rio Grande do Sul

2. Eduarda Hoeper. Begin: 2019. Scientific Initiation (Undergraduate Student in Biological Sciences) - Federal University of Rio Grande do Sul

3. Henrique Hiki. Begin: 2019. Scientific Initiation (Undergraduate Student in Biomedicina) - Federal University of Rio Grande do Sul

4. Thales Avila Pedroso. Begin: 2019. Scientific Initiation (Undergraduate Student in Physiotherapy) – Federal University of Rio Grande do Sul.

5. Carolina Acuan Prezzi. Begin: 2018. Scientific Initiation (Undergraduate Student in Pharmacy) - Federal University of Rio Grande do Sul.

Academic Advisory - concluded

1. **Master's Thesis**

1. Maria Vivian Costa Silva. Begin: 2018. Dissertation (Master's in Post-graduate Education and Life Chemistry and Health (Ufsm - Furg)) - Federal University of Rio Grande do Sul.

2. Eduardo Peil Marques. 2019. Dissertation (Master's in Biochemistry), Federal University of Rio Grande do Sul.

3. Rebeca de Paula Peres Schirmer de Bem. 2019. Dissertation (Master's in Education and Chemistry and Life Science), Federal University of Rio Grande do Sul.

4. Paula Woltmann Figueiró. 2018. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

5. Fernanda Ferreira. 2018. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

6. Helena Biasibetti Brendler. 2017. Dissertation (Master's in Biochemistry) - Universidade Federal do Rio Grande do Sul, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior.

7. Francisco Milanez. 2017. Dissertation Dissertation (Master's in Education and Chemistry and Life Science), Federal University of Rio Grande do Sul.

8. Fabiane Andrade Ramos. 2017. Dissertation Dissertation (Master's in Education and Chemistry and Life Science), Federal University of Rio Grande do Sul (Advisor).

9.Daniella de Souza Moreira. 2017. Dissertation (Master's in Biochemistry), Federal University of Rio Grande do Sul.

10.Tiago Marcon dos Santos. 2017. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

11. André Felipe Rodrigues. 2016. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

12.Charles Henrique de Araujo. 2016. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

13.Andréa Pereira Silvério. 2016. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

14. Bruno Pires de Fraga. 2016. Dissertation (Master's in Education and Life Chemistry and Health Sciences) - Federal University of Rio Grande do Sul.

15.Marcos Cesar Chaves da Fonseca. 2016. Dissertation (Master's in Education and Life Chemistry and Health Sciences) - Federal University of Rio Grande do Sul.

16. Filipe Panta Flores. 2016. Dissertation (Master's in Education and Life Chemistry and Health Sciences) - Federal University of Rio Grande do Sul.

17.Bruna Bertoglio Lorenzoni. 2015. Dissertation (Master's in Education and Life Chemistry and Health Sciences) - Federal University of Rio Grande do Sul.

18. Vanise Baptista. 2015. Dissertation (Master's in Education and Life Chemistry and Health Sciences) - Federal University of Rio Grande do Sul

19. Elias Tucatel. 2015. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

20. Felipe Schimtz. 2015. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

21. Cassiana Siebert. 2014. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

22.Maira Jaqueline da cunha. 2013. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

23. Bruna Martins Schweinberger. 2013. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

24.Fernanda Machado. 2012. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

25. Eduardo Baggio Sávio. 2012. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

26.Vanize Mackedanz. 2011. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

27. Janaína Kolling. 2011. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

28.Juliana Ben. 2010. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

29.Emilene Scherer. 2010. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

30.Fábria Chiarani. 2008. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

31.Luciene Pinheiro Vianna. 2007. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

32.Cristiane Matté. 2006. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

33. Barbara Tagliari. 2006. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

34.Alexandra Ioppi Zugno. 2004. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

35. Francieli Moro Stefanello. 2004. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

36.Alexandra Ioppi Zugno. 2004. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

37. Caren Serra Bavaresco. 2004. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

38. Cristina Carvalho Prestes. 2004. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

39.Daniela Delwing. 2003. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

40.Debora Delwing. 2003. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

41. Zilda Lopes Pontes. 2002. Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

42.Eleonora Araújo dos Reis. 2002. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

43. Lino Marcos Zanatta. 2002. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

44. Cleide Gonçalves da Silva. 1999. Dissertation Dissertation (Master's in Biochemistry) - Federal University of Rio Grande do Sul.

45. Rodrigo Zanandrea. 2020. Dissertation Dissertation (Master's in Biochemistry). Co-adviser – Pontificie Universidade Católica do Rio Grande do Sul-PUC-RS

2. PhD thesis

1. Tiago Marcos dos Santos, 2021. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul

2. Marcos Fonseca. Begin: 2017. Thesis (Ph.D. in Post-graduate Program in Biological Sciences – Biochemistry, UFRGS – Federal University of Rio Grande do Sul.

3. Marlon Mendes Minussi. 2019. Thesis (PhD in Education and Health Sciences- Federal University of Rio Grande do Sul.

4. Cassiana Siebert. 2018. Thesis (Ph.D. in Biochemistry) – Federal University of Rio Grande do Sul.

5. Luiz Augusto Hayne Francisco. 2018. Thesis (PhD in Education and Health Sciences- Federal University of Rio Grande do Sul.

6. Felipe Schmitz. 2018. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

7. Bruna Martins Schweinberger. 2017. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

8. Cláudia Vanzellla. 2017. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul. Advisor: Angela Terezinha de Souza Wyse.

9. Camila Simioni Vanzin. 2016. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

10. Aline Longoni dos Santos. 2016. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

11. Janaína Kolling. 2015. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

12. Emilene Barros da Silva Scherer. 2014. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

13. Bárbara Tagliari. 2012. Thesis (Ph.D. in Biochemistry) – Federal University of Rio Grande do Sul.

14. Aline Andrea da Cunha. 2012. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

15. Ana Stein. 2012. Thesis (Ph.D. in Pharmacy) - Federal University of Rio Grande do Sul.

16. Fabria Chiarani. 2012. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul. Co-adviser

17. Simone Nardin Weis. 2012. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul. Co-adviser

18. Andrea Gisiane Kurek Ferreira. 2011. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

19. Rafael Fernandes Zanin. 2010. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul. Co-adviser

20. Cristiane Matté. 2009. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

21. Samanta Oliveira Loureiro. 2009. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

22. Caren Serra Bavaresco. 2008. 0 f. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

23. Francieli Moro Stefanello. 2008. 0 f. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

24. Siomara da Cruz Monteiro. 2007. 0 f. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

25. Alexandra Ioppi Zugno. 2007. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

26. Daniela Delwing de Lima. 2007. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

27. Débora Delwing. 2007. Thesis (Ph.D. in Biochemistry) - Universidade Federal do Rio Grande do Sul.

28. Dênis Reis de Assis. 2006. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul. Co-Adviser

29. Cleide Gonçalves da Silva. 2003. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul. Co-Advisor

30. Emilio Luiz Streck. 2003. Thesis (Ph.D. in Biochemistry) - Federal University of Rio Grande do Sul.

3. Postdoctorate supervision

1. Bruna Ferrary Diniz, 2020 Federal University of Rio Grande do Sul (UFRGS).

2. Felipe Schmitz 2019. Federal University of Rio Grande do Sul (UFRGS).

3. Felipe Schmitz 2020. Federal University of Rio Grande do Sul (UFRGS).

4. Eduardo Sanches. 2018 Federal University of Rio Grande do Sul (UFRGS).

5. Cassiana Siebert. 2018. Federal University of Rio Grande do Sul (UFRGS).

6. Eduardo Sanches. 2018. Federal University of Rio Grande do Sul (UFRGS).

7. Cibele Castro. 2017. Federal University of Rio Grande do Sul (UFRGS).

8. Janaína Kolling. 2015. Federal University of Rio Grande do Sul (UFRGS).

9. Paula Pierozan. 2015. Federal University of Rio Grande do Sul (UFRGS).

10. Eduardo Sanches. 2014. Federal University of Rio Grande do Sul (UFRGS).

11. Paula Pierozan. 2014. Federal University of Rio Grande do Sul (UFRGS).

12. Samanta Oliveira. 2011. Federal University of Rio Grande do Sul (UFRGS).

13. Andréa G. K. Ferreira. 2011. Federal University of Rio Grande do Sul (UFRGS).

14. Fernanda Vuaden. 2010. Federal University of Rio Grande do Sul (UFRGS).

15. Lenir Orlandi Pereira Silva. 2008. Federal University of Rio Grande do Sul (UFRGS).

16. Caren Serra Bavaresco. 2008. Federal University of Rio Grande do Sul (UFRGS).

17. Franciele Moro Stefanello. 2008. Federal University of Rio Grande do Sul (UFRGS).

4. Monograph of completion for Improvement/Specialization

1. Jeferson Graeff. 2011. Monography - Federal University of Rio Grande do Sul (UFRGS).

2. Juliana Ben. 2006. Monography - Federal University of Rio Grande do Sul (UFRGS).

3. Fernanda Rossatto Machado. 2010. Federal University of Rio Grande do Sul (UFRGS).

4. Vanize Mackedanz. 2008. Federal University of Rio Grande do Sul (UFRGS).

5. Cristiane Bastos Mattos. 2007. Federal University of Rio Grande do Sul (UFRGS).

6. Emilene Barros da Silva Scherer. 2007. Federal University of Rio Grande do Sul (UFRGS).

7. Carolina Heloisa dos Santos. 2004. Federal University of Rio Grande do Sul (UFRGS).

8. Cristiane Matté. 2004. Federal University of Rio Grande do Sul (UFRGS).

5. Scientific Initiation

1. Josiane Hartwig. 2018. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

2. Fernanda Pinto Oliveira. 2018. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

3. Sergio Espinoza. 2018. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

4. Aurora Melo. 2018. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

5. Henrique Hiki. 2018. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

6. Carolina Gessinger. 2017. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

7. Carolina Acuan Prezzi. 2017. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

8. Mariana Layser. 2017. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

9. Carolina Gasporin. 2017. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

10. Matheus Sebotoio. 2016. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

11. Eduardo P Marques. 2016. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

12. Helena Ávila da Silva. 2016. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

13. Bruna Zanotto. 2015. Scientific Initiation - Federal University of Rio Grande do Sul (UFRGS).

And more 58 students (1996 – 2015).

Member of Editorial Board

2013 - Present Scientific Journal: Cell Biochemistry and Function

2014 - Present Scientific Journal: Metabolic Brain Disease

2018 - Present Scientific Journal: Neurotoxicity Research

Other Relevant Information

Member of science societies, such as Brazilian Society of Biochemistry – SBBq, Society of Neurosciences – SBNEc, Brazilian Society for the Progress of Science – SBPC and SSIEM. Financial Adviser of National Council for Scientific and Tecnological Development (CNPq), São Paulo Research Foundation (FAPESP), Rio Grande do Sul Research Foundation (FAPERGS), Rio de Janeiro Research Foundation (FAPERJ). Portuguese Science and Technology, University of Edinburgh and others. Reviewer of more than 40 journals, including Free Radical Biology & Medicine, Journal of Neurochemistry, Neuroscience, Brain Research, Clinical Biochemistry, Biochemical Pharmacology, Learning and Memory Neurobiology and others. Editorial Board of Cell Biochemistry & Function and Metabolic Brain Disease. Member of the Board of the Latin American Institute for Advanced Studies (ILEA)/UFRGS - management 2014-2016 and of the Affirmative Action Program/UFRGS- management 2014-2016. Member of the Commission of the Graduate Program in Biological Sciences/Biochemistry - UFRGS - 2013-2015 management and Member of the Scientific Council of the Latin American Institute of Advanced Studies (ILEA) / UFRGS - management 2016-2020. Member of the Editorial Board of the Journal of UFRGS - management 2016 - 2018 and of the Commission of the Postgraduate Program in Biological Sciences Biochemistry - UFRGS - 2013-2015 management. Substitute Coordinator of the Graduate Program in Biochemistry - UFRGS - Management 2015-2019. National Council for Scientific and Tecnological Development (CNPq) - Productivity Scholarship since 2002, and from 2012 to present day under the 1A level, which is the highest level of excellence. Internalization: Collaboration with Dr. Laura Vilarinho (The National Institute of Health Doctor Ricardo Jorge, INSA, IP, Porto, Portugal) and Dr. Iain Hargreaves (Metabolic Unit, National Hospital, London, England) and others. She has ministered lectures in Brazil, the USA and Europe.