

CURRICULUM VITAE

NAME Giselli Scaini, Ph.D.

PRESENT TITLE Instructor
Louis A. Faillace, MD, Department of Psychiatry and Behavioral Sciences
McGovern Medical School, The University of Texas Health Science Center at Houston

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1941 East Road – BBSB 5102A
Houston, Texas - 77054
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GRADUATE EDUCATION

2004 - 2008
Pharmacy Degree
University of Southern Santa Catarina (UNESC), Criciúma, SC, Brazil.

POSTGRADUATE

2009 - 2010
Master in Health Sciences - Graduate Program in Health Sciences
University of Southern Santa Catarina (UNESC), Criciúma, SC, Brazil
Thesis: *Evaluating the toxicity mechanisms caused by medium-chain fatty acids accumulating in MCAD deficiency in brain, liver, and muscle of rats during their development in the presence or absence of hyperammonemia.*

2011 - 2014
Doctorate in Health Sciences - Graduate Program in Health Sciences
University of Southern Santa Catarina (UNESC), Criciúma, SC, Brazil
Dissertation: *Evaluation of neurochemical and behavioral parameters in an animal model of Maple syrup urine disease*

POSTGRADUATE TRAINING

2015 - 2020
Postdoctoral Research Fellow
Louis A. Faillace, MD, Department of Psychiatry and Behavioral Sciences
McGovern Medical School, The University of Texas Health Science Center at Houston

ACADEMIC & ADMINISTRATIVE APPOINTMENTS

2020 - Present

Instructor

Louis A. Faillace, MD, Department of Psychiatry and Behavioral Sciences

McGovern Medical School, The University of Texas Health Science Center at Houston

HONORS AND AWARDS

- 2020 Chair's Choice Travel Award Recipient, 2020 Society of Biological Psychiatry (SOBP) 75th Annual Meeting.
- 2020 Rafaelsen Young Investigator Award, The International College of Neuropsychopharmacology (CINP).
- 2018 Honors Thesis Second Reader. Master of Science. Jennifer N. Oruebor. *"Thesis: Peripheral Blood Biomarkers in Youth With Bipolar Disorder: A Systematic Review"*. Boston University School Of Medicine, Division of Graduate Medical Sciences.
- 2015 Post doctorate scholarship
Science without Borders Program, CNPq/CAPES
- 2014 IBRO International Travel Grants 2014
International Brain Research Organization.
- 2014 SSIEM Travel Scholarship.
Society for the Study of Inborn Errors of Metabolism.
- 2014 Honorable Mention.
Postgraduate Program in Health Sciences-UNESC.
- 2010 Ranked 1st place at Ph.D. program admission selection at the Graduate Program in Health Sciences, University of Southern Santa Catarina, Brazil.
- 2010 Top Cited Article 2008.
Brain creatine kinase activity in an Animal model of mania. Life Sciences.
- 2009 Honorable Mention.
Postgraduate Program in Health Sciences – UNESC.
- 2008 Ranked 1st place at M.Sc. program admission selection at the Graduate Program in Health Sciences, University of Southern Santa Catarina, Brazil.

PROFESSIONAL MEMBERSHIP

2020 - Present

Member, International College of Neuropsychopharmacology

EDITORIAL POSITIONS

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| 2020 - Present | Associate Editor Journal: Brazilian Journal of Psychiatry |
| 2018 - 2020 | Junior Editor Journal: Brazilian Journal of Psychiatry |
| 2016 - Present | Editorial board member Journal: Journal of Psychiatry & Mental Disorders |
| 2016 - Present | Editorial board member Journal: Journal of Psychiatry and Psychiatric Disorders |

AD-HOC REVIEWER

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| 2020 - Present | Journal: BBA - Molecular Basis of Disease |
| 2019 - Present | Journal: Pharmacological Research |
| 2019 - Present | Journal: Chemico-Biological Interactions |
| 2018 - Present | Journal: Psychiatry and Clinical Neurosciences |
| 2017 - Present | Journal: Journal of Neuroimmunology |
| 2017 - Present | Journal: Clinica Chimica Acta |
| 2017 - Present | Journal: FACETS |
| 2016 - Present | Journal: Molecular Neurobiology |
| 2016 - Present | Journal: European Journal of Medical Genetics |
| 2016 - Present | Journal: Neuropharmacology |
| 2016 - Present | Journal: Metabolic Brain Disease |
| 2015 - Present | Journal: The World Journal of Biological Psychiatry |
| 2015 - Present | Journal: Psychiatry Research (Print) |
| 2015 - Present | Journal: Journal of Affective Disorders (Print) |
| 2015 - Present | Journal: BMC Neurology |
| 2015 - Present | Journal: Aging and Disease |
| 2015 - Present | Journal: International Journal of Developmental Neuroscience |
| 2015 - Present | Journal: Anais da Academia Brasileira de Ciências |
| 2014 - Present | Journal: Behavioural Neurology |
| 2014 - Present | Journal: Metabolism, Clinical and Experimental (Print) |
| 2013 - Present | Journal: Journal of Neurodegenerative Diseases |
| 2012 - Present | Journal: Oxidative Medicine and Cellular Longevity (Online) |
| 2011 - Present | Journal: Brain Research Bulletin |
| 2011 - Present | Journal: Acta Neuropsychiatrica |

MENTORSHIP AND SUPERVISION

- 05/2019 - 07/2019 **Taylor Andrews.** Summer student. I was her Co-Mentor during the Summer Undergraduate Research Program (GradSURP) at UTHealth. *Project: Targeting mitochondrial TSPO and VDAC to Regulate Mitochondrial Function in Bipolar Disorder: A Novel Approach to Drug Discovery.*
Institution: The University of Texas Health Science Center at Houston.
- 09/2018 - 02/2019 **Jennifer N Oruebor.** Professional trainee. I was her Co-Mentor during the period in which she was a professional trainee at our Department. *Project: New insights into the mitochondrial dysfunction in Bipolar Disorder: Clinical and translational implications in the pathophysiology of the disease.*
Institution: The University of Texas Health Science Center at Houston.
- 08/2018 - 11/2018 **Deborah B. Kennedy.** Visiting researcher. I was her Co-Mentor during the period in which she was a visiting researcher at our Department. *Project: New insights into the mitochondrial dysfunction in Bipolar Disorder: Clinical and translational implications in the pathophysiology of the disease.*
Institution: The University of Texas Health Science Center at Houston.
- 05/2018 - 07/2018 **Taylor Andrews.** Summer student. I was her Co-Mentor during the Summer Undergraduate Research Program (GradSURP) at UTHealth. *Project: The Translocator Protein 18kDa (TSPO) and its Role in Mitochondrial Biology in Bipolar Disorder.*
Institution: The University of Texas Health Science Center at Houston.
- 05/2018 - 07/2018 **Elizabeth A Kennon.** Summer student. I was her Co-Mentor during the Summer Undergraduate Research Program (GradSURP) at UTHealth. *Project: The Translocator Protein 18kDa (TSPO) and its Role in Mitochondrial Biology in Bipolar Disorder.*
Institution: The University of Texas Health Science Center at Houston.
- 12/2016 - 10/2017 **Yuzhi Zhou.** Visiting researcher. I was her Co-Mentor during his visiting period. She is a Professor in the Shanxi University, China, and came to our Department to get experience in Research. *Project: The role of mitochondrial dysfunction in Major Depression.*
Institution: The University of Texas Health Science Center at Houston.
- 02/2014 - 10/2017 **Luciane Taschetto. Ph.D.** Student. I was the Co-Mentor of her PhD thesis. *Title: Acute and long-term effects of intracerebroventricular administration of α -ketoisocaproic acid on oxidative stress parameters and cognitive and noncognitive behaviors.*
Institution: University of Southern Santa Catarina Medical School, Brazil.

- 02/2014 - 10/2017 **Fábio Almeida Morais**. Ph.D. Student. I was the Co-Mentor of his PhD thesis. *Title: Behavioral responses in an animal model of maple syrup urine disease treated with tianeptine.*
Institution: University of Southern Santa Catarina Medical School, Brazil.
- 12/2016 - 10/2017 **Massimo Tusconi**. Visiting researcher. I was his Co-Mentor during his visiting period. He was a Psychiatry resident in Italy and came to our Department to get experience in Research. *Project: Transcriptome and methylome analyses in offspring of bipolar parents.*
Institution: The University of Texas Health Science Center at Houston.

TEACHING EXPERIENCE

- 06/2019 Course: “Translational Neuroscience”, class on “Biological Basis of Depression”. This course was taught to graduate students and postdoctoral fellows.
Institution: The University of Texas Health Science Center at Houston (UTHealth)
- 04/2014 Class on “High-resolution respirometry”, taught to undergraduate students.
Institution: University of Southern Santa Catarina Medical School, Brazil
- 04/2011 Class on “Carbohydrate metabolism: Metabolic pathways”, taught to undergraduate students.
Institution: University of Southern Santa Catarina Medical School, Brazil
- 09/2010 Class on “Lipid metabolism pathways”, taught to undergraduate students.
Institution: University of Southern Santa Catarina Medical School, Brazil
- 07/2010 Class on “Physiopathology”, taught to undergraduate students.
Institution: University of Southern Santa Catarina Medical School, Brazil
- 09/2009 Class on “Attention-deficit/hyperactivity disorder (ADHD)” taught to undergraduate students.
Institution: University of Southern Santa Catarina Medical School, Brazil

INVITED TALKS AND PRESENTATIONS

- 04/2019 IPSC Journal Club Meeting.
Talk: Mitochondrial dysfunction: Clinical and translational implications in the pathophysiology of Bipolar Disorder.
Department of Molecular and Human Genetics, Baylor College of Medicine Jan and Dan Duncan Neurological Research Institute.
- 02/2018 Translational Psychiatry Seminar.
Talk: New insights into the mitochondrial dysfunction in Bipolar Disorder.
Faillace Department of Psychiatry and Behavioral Sciences.

McGovern Medical School, UTHealth Science Center at Houston.

- 11/2016 Translational Psychiatry Seminar.
Talk: The involvement of mitochondrial dysfunction in schizophrenia.
Faillace Department of Psychiatry and Behavioral Sciences.
McGovern Medical School, UTHealth Science Center at Houston.
- 10/2015 106th International Workshop on O2k high-resolution respirometry and O2k-Fluorometry.
Talk: Omega-3 fatty acids and mood stabilizers alter behavioral and energy metabolism parameters in animals submitted to an animal model of mania induced by fenproporex.
Mitochondria and Cell Research - the Oroboros Ecosystem, Schroecken, Austria.
- 05/2014 Maple Syrup Urine Disease (MSUD) Network.
Talk: In search of new physiopathological mechanisms in the Maple Syrup Urine Disease.
XXVI Congresso Brasileiro de Genética Médica. Fortaleza, Brazil.

RESEARCH SUPPORT

Ongoing research grants:

New Investigator Seed Grant Program Scaini (PI) 10/08/2019 - 08/31/2021
“Elucidating the role of mitochondrial function at the cognitive impairment in Bipolar Disorder”
The goal of this pilot study is to test the hypothesis that alterations in the levels of mitochondrial autophagy proteins can accurately differentiate patients with BD from healthy controls (HCs), and BD patients exhibiting lower memory performance will be characterized by mitophagy impairment and apoptosis activation.
Role: Principal Investigator \$20,000

PUBLICATIONS

Refereed Original Articles in Journals

I have published a total of 129 peer-reviewed papers and have 1711 citations to date, with an h-index of 22 (Scaini G, Scopus, 04/08/2020). The articles are listed below in reverse chronological order.

1. Giridharan VV, **Scaini G**, Colpo GD, Doifode T, Pinjari OF, Teixeira AL, Petronilho F, Macêdo D, Quevedo J, Barichello T. Clozapine Prevents Poly (I:C) Induced Inflammation by Modulating NLRP3 Pathway in Microglial Cells. Cells. 9(3), 2020.
2. Fries GR, Zamzow MJ, Andrews T, Pink O, **Scaini G**, Quevedo J. Accelerated aging in bipolar disorder: A comprehensive review of molecular findings and their clinical implications. Neurosci Biobehav Rev. 112:107-116, 2020.

3. Antonini R, **Scaini G**, Michels M, Matias MBD, Schuck PF, Ferreira GC, de Oliveira J, Dal-Pizzol F, Streck EL. Effects of omega-3 fatty acids supplementation on inflammatory parameters after chronic administration of L-tyrosine. *Metab Brain Dis.* 35(2):295-303, 2020.
4. Giridharan VV, Collodel A, Generoso JS, **Scaini G**, Wassather R, Selvaraj S, Hasbun R, Dal-Pizzol F, Petronilho F, Barichello T. Neuroinflammation trajectories precede cognitive impairment after experimental meningitis-evidence from an in vivo PET study. *J Neuroinflammation.* 17(1):5, 2020.
5. Carvalho-Silva M, Gomes LM, de Prá SD, Wessler LB, Schuck PF, **Scaini G**, de Bem AF, Blum-Silva CH, Reginatto FH, de Oliveira J, Streck EL. Evidence of hippocampal astrogliosis and antioxidant imbalance after L-tyrosine chronic administration in rats. *Metab Brain Dis.* 35(1):193-200, 2020.
6. Wessler LB, de Miranda Ramos V, Bittencourt Pasquali MA, Fonseca Moreira JC, de Oliveira J, **Scaini G**, Streck EL. Administration of branched-chain amino acids increases the susceptibility to lipopolysaccharide-induced inflammation in young Wistar rats. *Int J Dev Neurosci.* 78:210-214, 2019.
7. Carvalho-Silva M, Gomes LM, Gomes ML, Ferreira BK, Schuck PF, Ferreira GC, Dal-Pizzol F, de Oliveira J, **Scaini G**, Streck EL. Omega-3 fatty acid supplementation can prevent changes in mitochondrial energy metabolism and oxidative stress caused by chronic administration of L-tyrosine in the brain of rats. *Metab Brain Dis.* 34(4):1207-1219, 2019.
8. Giridharan VV, Réus GZ, Selvaraj S, **Scaini G**, Barichello T, Quevedo J. Maternal deprivation increases microglial activation and neuroinflammatory markers in the prefrontal cortex and hippocampus of infant rats. *J Psychiatr Res.* 115:13-20, 2019.
9. Dandekar MP, Saxena A, **Scaini G**, Shin JH, Migut A, Giridharan VV, Zhou Y, Barichello T, Soares JC, Quevedo J, Fenoy AJ. Medial Forebrain Bundle Deep Brain Stimulation Reverses Anhedonic-Like Behavior in a Chronic Model of Depression: Importance of BDNF and Inflammatory Cytokines. *Mol Neurobiol.* 56(6):4364-4380, 2019.
10. **Scaini G**, Barichello T, Fries GR, Kennon EA, Andrews T, Nix BR, Zunta-Soares G, Valvassori SS, Soares JC, Quevedo J. TSPO upregulation in bipolar disorder and concomitant downregulation of mitophagic proteins and NLRP3 inflammasome activation. *Neuropsychopharmacology.* 44(7):1291-1299, 2019.
11. Menegas S, Ferreira CL, Cararo JH, Gava FF, Dal-Pont GC, Gomes ML, Agostini JF, Schuck PF, **Scaini G**, Andersen ML, Quevedo J, Valvassori SS. Resveratrol protects the brain against oxidative damage in a dopaminergic animal model of mania. *Metab Brain Dis.* 34(3):941-950, 2019.
12. Gomes LM, **Scaini G**, Carvalho-Silva M, Gomes ML, Malgarin F, Kist LW, Bogo MR, Rico EP, Zugno AI, Deroza PF, Réus GZ, De Moura AB, Quevedo J, Ferreira GC, Schuck PF, Streck EL. Antioxidants Reverse the Changes in the Cholinergic System Caused by L-Tyrosine Administration in Rats. *Neurotoxicity Research,* 34(4):769-780, 2018.
13. Scaini G, Quevedo J. Suicide rates in the United States continue to rise. Are rates in Brazil underestimated? *Braz J Psychiatry.* 40(4):347-348, 2018.
14. **Scaini G**, Tonon T, Moura de Souza CF, Schuck PF, Ferreira GC, Quevedo J, Neto JS, Amorim T, Camelo JS Jr, Margutti AVB, Hencke Tresbach R, Sperb-Ludwig F, Boy R, de Medeiros PFV, Schwartz IVD, Streck EL. Evaluation of plasma biomarkers of inflammation in patients with maple syrup urine disease. *J Inherit Metab Dis.* 41:631–640, 2018.

15. de Oliveira MR, Chenet AL, Duarte AR, **Scaini G**, Quevedo J. Molecular Mechanisms Underlying the Anti-depressant Effects of Resveratrol: a Review. *Mol Neurobiol.* 55(6):4543-4559, 2018.
16. Amidfar M, Kim Y-K, **Scaini G**, Quevedo J. Evidence for additionally increased apoptosis in the peripheral blood mononuclear cells of major depressive patients with a high risk for suicide. *Am J Med Genet Part B.* 86: 140-149, 2018.
17. Simoes LR, Sangiogo G, Tashiro MH, Generoso JS, Faller CJ, Domingui D, Mastella GA, **Scaini G**, Giridharan VV, Michels M, Florentino D, Petronilho FC, Réus GZ, Dal-Pizzol F, Zugno AI, Barichello T. Maternal immune activation induced by lipopolysaccharide triggers immune response in pregnant mother and fetus, and induces behavioral impairment in adult rats. *J Psychiatr Res.* 100:71-83, 2018.
18. **Scaini G**, Quevedo J, Velligan D, Roberts DL, Raventos H, Walss-Bass C. Second generation antipsychotic-induced mitochondrial alterations: Implications for increased risk of metabolic syndrome in patients with schizophrenia. *Eur Neuropsychopharmacol.* 28(3):369-380, 2018.
19. Réus GZ, Becker IRT, **Scaini G**, Petronilho FC, Oses JP, Kaddurah-Daouk R, Ceretta LB, Zugno AI, Dal-Pizzol F, Quevedo J, Barichello T. The inhibition of the kynurenine pathway prevents behavioral disturbances and oxidative stress in the brain of adult rats subjected to an animal model of schizophrenia. *Progress In Neuro-Psychopharmacology & Biological Psychiatry.* 81:55-63, 2017.
20. Schweinberger BM, Rodrigues AF, Turcatel E, Pierozan P, Pettenuzzo LF, Grings M, **Scaini G**, Parisi MM, Leipnitz G, Streck EL, Barbé-Tuana FM, Wyse ATS. Maternal Hypermethioninemia Affects Neurons Number, Neurotrophins Levels, Energy Metabolism, and Na⁺,K⁺-ATPase Expression/Content in Brain of Rat Offspring. *Molecular Neurobiology.* 55:980-988, 2018.
21. De Medeiros WA, Da Silva LA, Dall'igna DM, Michels M, Manfredini A, Dos Santos JC, Constantino LS, **Scaini G**, Vuolo F, Streck EL, Ritter C, Dal-Pizzol F. N-acetylcysteine effects on a murine model of chronic critical limb ischemia. *Biochimica et Biophysica Acta-Molecular Basis of Disease.* 1864(2):454-463, 2017.
22. Saxena A, **Scaini G**, Bavaresco DV, Leite C, Valvassoria SS, Carvalho AF, Quevedo J. Role of Protein Kinase C in Bipolar Disorder: A Review of the Current Literature. *Mol Neuropsychiatry.* 3(2):108-124, 2017.
23. Fries GR, Bauer IE, **Scaini G**, Wu MJ, Kazimi IF, Valvassori SS, Zunta-Soares G, Walss-Bass C, Soares JC, Quevedo J. Accelerated epigenetic aging and mitochondrial DNA copy number in bipolar disorder. *Transl Psychiatry.* 7(12):1283, 2017.
24. Streck EL, Prá SD, Ferro PR, Carvalho-Silva M, Gomes LM, Agostini JF, Damiani AP, Andrade VM, Schuck PF, Ferreira GC, **Scaini G**. Role of antioxidant treatment on DNA and lipid damage in the brain of rats subjected to a chemically induced chronic model of tyrosinemia type II. *Molecular and Cellular Biochemistry.* 435:207-214, 2017.
25. Taschetto L*, **Scaini G***, Zapelini HG, Ramos AC, Strapazzon G, Andrade VM, Réus GZ, Michels M, Dal-Pizzol F, Quevedo J, Schuck PF, Ferreira GC, Streck EL. Acute and long-term effects of intracerebroventricular administration of alpha-ketoisocaproic acid on oxidative stress parameters and cognitive and noncognitive behaviors. *Metabolic Brain Disease.* 32:1507-1518, 2017. (***equally contributed**)

26. **Scaini G**, Tonon T, Souza CFM, Schuck PF, Ferreira GC, Seda Neto J, Amarin T, Schwartz IVD, Streck EL. Serum markers of neurodegeneration in Maple Syrup Urine Disease. *Molecular Neurobiology*. 54:5709-5719, 2017.
27. Cancellier K, Gomes LM, Carvalho-Silva M, Teixeira LJ, Rebelo J, Mota IT, Arent CO, Mariot E, Kist LW, Bogo MR, Quevedo J, **Scaini G**, Streck EL. Omega-3 Fatty Acids and Mood Stabilizers Alter Behavioural and Energy Metabolism Parameters in Animals Subjected to an Animal Model of Mania Induced by Fenproporex. *Molecular Neurobiology*. 54:3935-3947, 2017.
28. Carvalho-Silva M, Gomes LM, **Scaini G**, Rebelo J, Damiani AP, Pereira, M, Andrade VM, Gava FF, Valvassori SS, Schuck PF, Ferreira GC, Streck EL. Omega-3 fatty acid supplementation decreases DNA damage in brain of rats subjected to a chemically induced chronic model of Tyrosinemia type II. *Metabolic Brain Disease*. 32:1043-1050, 2017.
29. Schmitz F, Pierozan P, Rodrigues AF, Biasibetti H, Grunevald M, Pettenuzzo LF, **Scaini G**, Streck EL, Netto CA, Wyse ATS. Methylphenidate causes behavioral impairments and neuron and astrocyte loss in the hippocampus of juvenile rats. *Molecular Neurobiology*. 54:4201-4216, 2017.
30. Réus GZ, Simoes LR, Colpo GD, **Scaini G**, Oses JP, Generoso JS, Prossin AR, Kaddurah-Daouk R, Quevedo J, Barichello T. Ketamine potentiates oxidative stress and influences behavior and inflammation in response to lipopolysaccharide (LPS) exposure in early life. *Neuroscience*. 353:17-25, 2017.
31. Budni J, Garcez ML, Mina F, Bellettini-Santos T, Da Silva S, Luz AP, Schiavo GL, Batista-Silva H, **Scaini G**, Streck EL, Quevedo J. The oral administration of D-galactose induces abnormalities within the mitochondrial respiratory chain in the brain of rats. *Metabolic Brain Disease*. 32:811-817, 2017.
32. **Scaini G**, Fries GR, Valvassori SS, Zeni CP, Zunta-Soares G, Berk M, Soares JC, Quevedo J. Perturbations in the apoptotic pathway and mitochondrial network dynamics in peripheral blood mononuclear cells from bipolar disorder patients. *Transl Psychiatry*. 2;7(5):e11111, 2017.
33. Gomes LM, Carvalho-Silva M, Teixeira LJ, Rebelo J, Mota IT, Bilesimo R, Michels M, Arent CO, Mariot E, Dal-Pizzol F, **Scaini G**, Quevedo J, Streck EL. Omega-3 fatty acids and mood stabilizers alter behavioral and oxidative stress parameters in animals subjected to fenproporex administration. *Metabolic Brain Disease*. 2:557-564, 2017.
34. Teodorak BP*; **Scaini G***; Carvalho-Silva M, Gomes LM, Teixeira LJ, Rebelo J, Pra SD, Zeni N, Schuck PF, Ferreira GC, Streck EL. Antioxidants reverse the changes in energy metabolism of rat brain after chronic administration of L-tyrosine. *Metabolic Brain Disease*, 2016. 32:519-528, 2017. **(*equally contributed)**
35. Vilela TC*, **Scaini G***, Furlanetto CB, Pasquali MAB, Santos, JPA, Gelain DP, Moreira JCF, Schuck PF, Ferreira GC, Streck EL. Apoptotic Signaling Pathways Induced by Acute Administration of Branched-Chain Amino Acids in an Animal Model of Maple Syrup Urine Disease. *Metabolic Brain Disease*, v. 32, p. 115-122, 2017. **(*equally contributed)**
36. **Scaini G**, Rezin GT, Carvalho AF, Streck EL, Berk M, Quevedo J. Mitochondrial Dysfunction in Bipolar Disorder: Evidence, Pathophysiology and Translational implications. *Neuroscience & Biobehavioral Reviews*. 68:694-713, 2016.
37. Rosa L, Galant LS, Dall'igna DM, Kolling J, Siebert C, Schuck PF, Ferreira GC, Wyse ATS, Dal-Pizzol F, **Scaini G**, Streck EL. Cerebral oedema, blood brain barrier breakdown and the decrease in

- Na⁺, K⁺-ATPase activity in the cerebral cortex and hippocampus is prevented by dexamethasone in an animal model of Maple Syrup Urine Disease. *Molecular Neurobiology*. 53:3714-3723, 2016.
38. Wisniewski MSW, Carvalho-Silva M, Gomes LM, Zapellini HG, Schuck PF, Ferreira GC, **Scaini G**, Streck EL. Intracerebroventricular administration of α -ketoisocaproic acid decreases brain-derived neurotrophic factor and nerve growth factor levels in brain of young rats. *Metabolic Brain Disease*. 31:377-383, 2016.
39. Rosa L, **Scaini G**, Furlanetto CB, Galant LS, Vuolo F, Dall'igna DM, Schuck PF, Ferreira GC, Dal-Pizzol F, Streck EL. Administration of branched-chain amino acids alters the balance between pro-inflammatory and anti-inflammatory cytokines. *International Journal of Developmental Neuroscience*. 48:24-30, 2016.
40. Comim CM, Hoepers A, Ventura L, Domingui D, Mina F, Mendonça BP, **Scaini G**, Vainzof M, Streck EL, Quevedo J. Activity of Krebs cycle enzymes in mdx mice. *Muscle & Nerve (Print)*. 53:91-95, 2016.
41. Réus GZ, **Scaini G**, Titus SE, Furlanetto CB, Wessler LB, Ferreira GK, Gonçalves CL, Jeremias GC, Quevedo J, Streck EL. Methylphenidate increases glucose uptake in the brain of young and adult rats. *Pharmacological Reports*. 67:1033-1040, 2015.
42. Rosa MS, **Scaini G**, Damiani AP, Longaretti LM, Pereira M, Seminotti B, Zapellini HG, Schuck PF, Streck EL, Andrade VM, Wajner M, Leipnitz G. Evidence that 3-hydroxy-3-methylglutaric and 3-methylglutaric acids induce DNA damage in rat striatum. *Metabolic Brain Disease*. 30:1055-1062, 2015.
43. Streck EL, **Scaini G**, Jeremias GC, Rezin GT, Gonçalves CL, Ferreira GK, Réus GZ, Resende WR, Valvassori SS, Kapczinski F, Andersen ML, Quevedo J. Effects of mood stabilizers on brain energy metabolism in mice submitted to an animal model of mania induced by paradoxical sleep deprivation. *Neurochemical Research*. 40:1144-1152, 2015.
44. **Scaini G**, Morais MOS, Furlanetto CB, Kist LW, Pereira TCB, Schuck PF, Ferreira GC, Pasquali MAB, Gelain DP, Moreira JCF, Bogo MR, Streck EL. Acute administration of branched-chain amino acids increases the pro-BDNF/total-BDNF ratio in the rat brain. *Neurochemical Research*. 40:885-893, 2015.
45. Giovanella F, Ferreira GK, de Prá SD, Carvalho-Silva M, Gomes LM, **Scaini G**, Gonçalves RC, Michels M, Galant LS, Longaretti LM, Dajori AL, Andrade VM, Dal-Pizzol F, Streck EL, de Souza RP. Effects of primaquine and chloroquine on oxidative stress parameters in rats. *An Acad Bras Cienc*. 87(2 Suppl):1487-96, 2015.
46. Réus GZ, Nacif MP, Abelaira HM, Tomaz DB, Dos Santos MAB, Carlessi AS, Matias BI, Luz JR, Steckert AV, Jeremias IC, **Scaini G**, Morais MOS, Streck EL, Quevedo J. Ketamine treatment partly reverses alterations in brain derived-neurotrophic factor, oxidative stress and energy metabolism parameters induced by an animal model of depression. *Current Neurovascular Research*. 12:73-84, 2015.
47. Macongonde EA, Vilela TC, **Scaini G**, Gonçalves CL, Ferreira, B, Costa, N.L.F, Oliveira MR, Avila Jr, S, Streck EL, Ferreira GC, Schuck PF. Evaluation of the In Vivo and In Vitro Effects of Fructose on Respiratory Chain Complexes in Tissues of Young Rats. *Disease Markers (Print)*. 2015:1-6, 2015.

48. Teodorak BP, Ferreira GK, **Scaini G**, Wessler LB, Heylmann AS, Deroza P, Valvassori SS, Zugno AI, Quevedo J, Streck EL. Acute administration of fenproporex increased acetylcholinesterase activity in brain of young rats. *An Acad Bras Cienc.* 87(2 Suppl):1389-95, 2015.
49. **Scaini G**, Morais MOS, Galant LS, Vuolo F, Dall'igna DM, Pasquali MAB, Ramos VM, Gelain DP, Moreira JCF, Schuck PF, Ferreira GC, Soriano FG, Dal-Pizzol F, Streck EL. Co-administration of branched-chain amino acids and lipopolysaccharide causes matrix metalloproteinase activation and blood-brain barrier breakdown. *Molecular Neurobiology.* 50:358-367, 2014.
50. Pra SD, Ferreira GK, Carvalho-Silva M, Vieira JS, **Scaini G**, Leffa D, Fagundes GE, Bristot BN, Borges GD, Ferreira GC, Schuck PF, Andrade VM, Streck EL. L-tyrosine induces DNA damage in brain and blood of rats. *Neurochemical Research.* 39:202-207, 2014.
51. Ferreira GK, **Scaini G**, Jeremias IC, Carvalho-Silva M, Gonçalves CL, Pereira TCB, Oliveira GMT, Kist LW, Bogo MR, Schuck PF, Ferreira GC, Streck EL. An evaluation of the effects of acute and chronic L-tyrosine administration on BDNF levels and BDNF mRNA expression in the rat brain. *Molecular Neurobiology.* 49:734-740, 2014.
52. Rezin GT, Furlanetto CB, **Scaini G**, Valvassori SS, Gonçalves CL, Ferreira GK, Jeremias IC, Resende WR, Cardoso MR, Varela RB, Quevedo J, Streck EL. Fenproporex increases locomotor activity, alters energy metabolism and mood stabilizers reverse these changes: a proposal for a new animal model of mania. *Molecular Neurobiology.* 49:877-892, 2014.
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ARTICLES ACCEPTED FOR PUBLICATION

1. Fries GR, Bauer IE, **Scaini G**, Valvassori SS, Walss-Bass C, Soares JC, Quevedo J. Accelerated Hippocampal Biological Aging in Bipolar Disorder. *Bipolar Disorder*, 2019.

BOOK CHAPTERS

1. **Scaini G**, Benevenuto D, Quevedo J. Disfunção mitocondrial e transtornos psiquiátricos. In: Quevedo J, Izquierdo I. *Neurobiologia dos transtornos psiquiátricos*. Porto Alegre: Artmed. 2020.

PUBLISHED ABSTRACTS

1. **Scaini G**, Fries GR, Zeni C, Kazimi I, Zunta-Soares G, Soares JC, Quevedo J. Blood Metabolomics

- Analysis Identifies Abnormalities in the Glycolytic System and Tricarboxylic Acid in Pediatric Bipolar Disorder. In: American College of Neuropsychopharmacology (ACNP) 58th Annual Meeting, 2019, Orlando. *Neuropsychopharmacology*, 2019 v. 44, T143.
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