



SUMMARY CV:

PRESENT POSITION: Lecturer of Biotechnology/Researcher. Coordinator of the Innovation Technological Group at Universidade Federal de São João Del-Rei, *campus* Divinópolis, MG, Brazil. Research fellow in technological development and Innovative extension – DT2 - CNPq, Brazil.

Microbial Biotechnology Laboratory
www.ufsj.edu.br/labiom

INSTUTIONAL ADDRESS: Universidade Federal de São João Del-Rei, Av. Sebastião Gonçalves Coelho, 400, Chanadour, CEP: 35501-296, Divinópolis, MG, Brazil.

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NATIONALITY: Brazilian

OVERVIEW: During their studies, Dr. Galdino dedicate efforts in the field of cloning and expression of heterologous gene in microorganisms (bacteria and yeasts) in order to obtain innovative products and process for biotechnological purposes. Actually Dr. Galdino has international collaboration with the Limerick Institute and Technology (LIT) and enterprises biotechnology-based for develop innovative products with biotechnological applications.

QUALIFICATION

2000- Graduate in Biological Sciences – University Federal of Ceara.
2002- Master degree in Biochemistry – University Federal of Ceara
2003- Assistant professor – Biology - University Federal of Ceara
2008: PhD in Molecular Biology – University of Brasilia
2010: Postdoctoral in Biotechnology- University of Brasilia
2016: Specialization in Biotechnology – University of State of Maringa
2017: Specialization in Bioprocess – *in progress*
2017: Specialization in Technological Innovation: *in progress*

AWARDS

2017 –Merit Award - Innovation in diagnosis kits.

2009 – Boticario Ferreira Medal- Development of *S. cerevisiae* strain able to convert cassava to ethanol .

2008 – Young Inventor Awards – Research Foundation of Federal District, Brasilia, DF, Brazil.

INTELLECTUAL PROPERTY

1. PATENT BR 1020120024691
- *Recombinant protein for diagnosis of rubella*
2. PATENT BR 1020120024705
- *Recombinant protein for diagnosis of hepatites C*
3. PATENT BR 1020120024683
- *Recombinant protein for diagnosis of hepatites B*
4. PATENT BR 1020140313311
- *Recombinant protein for diagnosis of Canine Visceral Leishmaniasis*
5. PATENT BR 1020140168796
- *Recombinant protein for animal feed*
6. PATENT BR 10201302849
- *Pendular agitator for Biotechnological applications*
7. PATENT BR 10201500754
- *Recombinant protein for diagnosis of Human Citomegalovirus*
8. PATENT BR 1020150161620
- *Recombinant protein for diagnosis of Canine Visceral Leishmaniasis*

9. PATENT BR BR1020160052025

- *Recombinant protein for diagnosis of Schistosoma mansoni*

10. PATENT BR 1020160211638

- *Automatic Equipment for Dialysis of protein and macromolecules for Biotechnological applications*

11. PATENT BR 2020160206774

- *Isolates of Bacillus subtilis to prevent bacterial adherence on titanium biomaterials*

12. PATENT BR 1020170148912

- *Aeration systems for microbial growth based on modified cuvettes.*

13. PATENT BR 1020170194400

- *Immunogenic recombinant chimera for Schistosoma mansoni diagnosis*

14. PATENT BR 1020170240304

- *Recombinant protein used for vaccine against Zika virus*

15. PATENT BR 1020120024705

- *Recombinant protein for Zika virus diagnosis.*

TRANSFERENCE OF TECHNOLOGY

- 02 transference of technology *in progress*

ARTICLES

1.

Billa, WC ; Mariano, R.M.S ; Silva, W.R ; Santos, M.E.S.M ; Lamounier, J.A ; Ferrioli, E ; **GALDINO, A S, Galdino, Alexandro Sobreira.** . Application of the deuterium oxide in human health. Isotopes in Environmental and Health Studies, v. 1, p. 1-16, 2017.

Mariano, R.M.S ; Billa, WC ; Trindade, MJF ; Lamounier, J.A ; **GALDINO, A S, Galdino, Alexandro Sobreira.** . Biotechnological Patents Applications of the Deuterium Oxide in Human Health. Recents Patents on Biotechnology, v. 11, p. 1-9, 2017.

Godoi, RR ; Andrade, SFV ; Machado, JM ; Gonçalves, AFA ; Parachin, N.S ; Campos da Paz, M ; Naves, LP ; Lima, W.J.N ; GONCALVES, D. B. ; **GALDINO, A S, Galdino, Alexandro Sobreira.** . Fungal phytase production in different hosts: A brief review. Open Access Journal of Microbiology & Biotechnology, v. 2, p. 120, 2017.

GALDINO, A S, Galdino, Alexandro Sobreira.; Santos, J.C.S ; Souza, M.Q ; NOBREGA, Y. C. ; Xavier, M.E ; Freitas, S.M ; Felipe, M.S.S ; Torres, F.A.G . A Novel Structurally Stable Multi-epitope Protein for Detection of HCV. Hepatitis Research and Treatment, v. 2016, p. 1-9, 2016.

Billa, WC ; Freitas, A ; **GALDINO, A S, Galdino, Alexandro Sobreira.** ; Santos, M.E.S.M ; Ferrioli, E ; Lamounier, J.A . Deuterium oxide dilution and body composition in overweight and obese schoolchildren aged 6-9 years. *Jornal de Pediatria (Impresso)* **JCR**, v. 289, p. 1, 2015.

Pompeu, D.G ; Carvalho, A.S ; Costa, O.F ; **GALDINO, A S, Galdino, Alexandro Sobreira.** ; GONCALVES, D. B. ; Silva, J.A ; Granjeiro, P.A . Anti-Nutritional factors and 'in vitro' digestibility of leaves of *Pereskia aculeate*. *BBR - Biochemistry and Biotechnology Reports*, v. 3, p. 16-16, 2014.

GALDINO, A S, Galdino, Alexandro Sobreira.; Lemuchi, M.O ; Vieira, M.S ; Granjeiro, P.A ; Silva, J.A ; Lima, W.J.N ; GONCALVES, D. B. ; Comar Jr ; Taranto, A.G . Uso de modelagem comparativa na determinação estrutural de fitase de *Yersinia*. *BBR - Biochemistry and Biotechnology Reports*, v. 2, p. 1-1, 2013.

GALDINO, A S, Galdino, Alexandro Sobreira.; Souza, M.Q ; Santos, J.C.S ; Soares, M.V.R.S ; NOBREGA, Y. C. ; Álvares, Alice Cunha Morales ; Freitas, S.M ; Torres, F.A.G ;Felipe, MS . A Recombinant Multiepitope Protein for Hepatitis B Diagnosis. *BIOMED RES INT* **JCR**, v. 2013, p. 1-7, 2013.

GALDINO, A S, Galdino, Alexandro Sobreira.; Coutinho, F.S ; Marques, D.R ; Dias, D.S ; Silva, A.J ; Granjeiro, P.A . Perfil de degradação de amido de mandioca por *Saccharomyces cerevisiae* expressando uma amilase de *Cryptococcus flavus*. *BBR - Biochemistry and Biotechnology Reports*, v. 2, p. 15, 2013.

MARQUES, DEISIELLY RIBEIRO ; COUTINHO, FLAVIANE SILVA ; FERNANDES RIBEIRO, PATRÍCIA APARECIDA ; SILVA, JOSÉ ANTONIO DA ; GRANJEIRO, PAULO AFONSO ; GONÇALVES, DANIEL BONOTO ; **GALDINO, ALEXSANDRO SOBREIRA .** Hidrólise enzimática do amido de mandioca e produção de bioetanol por *Saccharomyces cerevisiae* CENPK2 expressando uma glicoamilase de *Aspergillus awamori*. *BBR - Biochemistry and Biotechnology Reports*, v. 2, p. 22, 2013.

Panarari-Antunes, Renata de Souza ; Prioli, Alberto José ; Prioli, Sônia Maria Alves Pinto ; **GALDINO, A S, Galdino, Alexandro Sobreira.** ; Julio Junior, Horácio Ferreira ; Prioli, Laudenir Maria . Genetic variability of *Brycon orbignyanus* (valenciennes, 1850) (characiformes: characidae) in cultivated and natural populations of the upper paraná river, and implications for the conservation of the species. *Brazilian Archives of Biology and Technology (Impresso)* **JCR**, v. 54, p. 839-848, 2011.

GALDINO, A S, Galdino, Alexandro Sobreira.; Silva, Roberto Nascimento ; Lottermann, Muriele Taborda ; Álvares, Alice Cunha Morales ; Moraes, Lídia Maria Pepe de ; Torres, Fernando Araripe Gonçalves ; Freitas, Sonia Maria de ; Ulhoa, Cirano José . Biochemical and Structural Characterization of Amy1: An Alpha-Amylase from *Cryptococcus flavus* Expressed in *Saccharomyces cerevisiae*. *Enzyme Research*, v. 2011, p. 1-7, 2011.

Pfimer, Pollyana ; Moraes, Lidia Maria Pepe de ; **GALDINO, A S, Galdino, Alexandro Sobreira.** ; Salles, Loise Pedrosa ; REIS, Viviane Castelo Branco ; De Marco, Janice Lisboa ; Prates, Maura Vianna ; Bloch, Carlos ; Torres, Fernando Araripe Gonçalves . Cloning, Purification, and Partial Characterization of *Bacillus subtilis* Urate Oxidase Expressed in *Escherichia coli*. *Journal of Biomedicine and Biotechnology* **JCR**, v. 2010, p. 1-7, 2010.

GALDINO, A S, Galdino, Alexandro Sobreira.; LIMA, J. P. M. S. ; Panarari-Antunes, R.S ; Prioli, J.A ; Thiers, P.R.L ; Silva, G P S ; GRANGEIRO, T. B. . Caracterização molecular de acessos de *Cratylia argentea* e sua relação filogenética com outras leguminosas. *Pesquisa Agropecuária Brasileira (1977. Impressa)* **JCR**, v. 45, p. 846-854, 2010.

Barros, MC ; Ramada, MHSR ; **GALDINO, A S, Galdino, Alexandro Sobreira.** ; Moraes, L.M.P ; Torres, F.A.G ; Ulhoa, C.J . The influence of N-glycosylation on biochemical properties of Amy1, an alpha-amylase from the yeast *Cryptococcus flavus*. *Carbohydrate Research* **JCR**, v. 1, p. 1-1, 2009.

★ **GALDINO, A S, Galdino, Aleksandro Sobreira.**; Ulhoa, C.J ; Moraes, L.M.P ; BLOCH JUNIOR, C. ; PRATES, MV ; Torres, F.A.G . Cloning, molecular characterization and heterologous expression of AMY1, an alpha-amylase gene from *Cryptococcus flavus*.. FEMS Microbiology Letters **JCR**, v. 280, p. 189.-194, 2008.

Benoiel, B ; Burtet, R ; **GALDINO, A S, Galdino, Aleksandro Sobreira.** ; LIMA, Luanne ; Marinho, CS ; Pereira, LO ; Pfrimer, P ; Silva, LP ; REIS, Viviane Castelo Branco ; Felipe, MS . General metabolism of the dimorphic and pathogenic fungus *Paracoccidioides brasiliensis*.. Genetics and Molecular Research **JCR**, v. 4, p. 290-308, 2005.

Amaral, AC ; FERNANDES, Larissa ; **GALDINO, A S, Galdino, Aleksandro Sobreira.** ; Felipe, MS ; Soares, CM ; PEREIRA, Maristela . Therapeutic targets in *Paracoccidioides brasiliensis*: post-transcriptome perspectives.. Genetics and Molecular Research **JCR**, v. 4, p. 430-449, 2005.

GALDINO, A S, Galdino, Aleksandro Sobreira.; PESSOA FILHO, M. A. C. P. ; SILVA FILHO, D. F. ; CUNHA, R. M. S. ; CAVADA, B. S. ; BLOCH JUNIOR, C. ; GRANGEIRO, T. B. . Seed Protein Variation Among Pepper (*Capsicum Sp.*) Genotypes Revealed By Maldi-Tof Analysis. Protein and Peptide Letters **JCR**, v. 11, p. 57-62, 2004.

GALDINO, A S, Galdino, Aleksandro Sobreira.; VARELA, E. S. ; LIMA, J. P. M. S. ; NUNES, E. P. ; MELGAÇO, W. ; GRANGEIRO, T. B. . Relationships in subtribe Diocleinae (Leguminosae; Papilionoideae) inferred from internal transcribed spacer sequences from nuclear ribosomal DNA. Phytochemistry **JCR**, v. 65, p. 59-69, 2004.

UNDERGRADUATE TEACHING

- Microbial Biotechnology
- Bioenergy
- Introduction to technological Innovations: from bench to product

GRADUATE TEACHING

- Molecular Biology
- Biotechnology & Innovations