Rua: Carolina Germano KoKol , 69
Vila Santa Isabel - Campinas
Cep: 13084-600 - SP

Cel: (11) 96371-3591
Fone: (11) 4724-9434
e-mail: rferrazalves@gmail.com
Brasileiro, 32 anos, solteiro.

Rafael Ferraz Alves

Education

phD in bioenergy (Faculdade de Engenharia de Alimentos-Unicamp)

Position: phD student

Start: 2015

Finish: 2018 (on going)

Project: Development of Microbial Cells factories for butanol production using hemicellulosic hydrolysate as carbon source.

Supervisors: Dr. Sindelia Freitas Azzoni/ Dr. Thiago Olitta Basso

MBA- Environmental Management and Technology -USP

Start:2012

Finish: 2015

Project: Application of enzymes in sugar production as clean production action

Masters in Chemical Engineering Poli – USP

Project: Recombinant protein-based nanocarriers and their association with cationic liposomes: Characterization an in vitro evaluation

Start: 2011

Finish: 2013

Supervisor: Dr. Adriano Azzoni

Specialization in biotechnology (health care)- Instituto Butantan

Start:2009

Finish: 2010.

Universidade Estadual Paulista “Júlio de Mesquita Filho” (UNESP)

Bachelor´s degree: Biotechnology

Start: 2004

Finish: 2008

Curses

2012- General course of intellectual property performed by INPI in collaboration with OMPI (55 h).

2014- Curse of Microbiology (theoretical and practical) applied to sugarcane mills, performed at UFSCAR (40 h).

Languages

English: Good knowledge in writing, talking and reading (advanced level)

Professional experience

Alimentar Consultoria
Position: Consulting in bioenergy field
Start: 2015 until now (on going)
Company: The company works with consulting services focusing on development of projects in food area;
Main activities: Working as a consultant in the bioenergy field, focused on industrial trials in sugarcane mills to test different products (enzymes, antimicrobial, etc) in order to bring improvements to sugar and ethanol production.

Prozyn Biosolution
Position: R&D specialist
Start: 01/10/2014 until 01/03/2015 (finished)
Company: The company develop enzymatic products for being applied in food area (dairy, bakery and sugar and ethanol mills)
Main activities: responsible for new projects in sugar and ethanol production; lab and industrial trials to test different products (enzymes, antimicrobial, and other) in order to bring improvements to sugar and ethanol production; writing reports for customers and company describing the results obtained in trials; approach to customers (sugarcane mills) in order to understand the needs of them and propose strategies to overcome the challenges based on knowledge and expertise;

Proteobras Soluções Biotecnológicas
Position: Biotechnologist
Start: 2010 until 2011 (finished)
Startup company focusing on R&D of recombinant proteins for health care area (Cancer)
Main activities:
- Molecular biology: PCR, purification and quantification of DNA, cloning and expression of recombinant proteins;
- Biochemistry: Purification of proteins (liquid chromatography, SDS Page, Western-Blotting.
- Microbiology: Culture media, fermentation process in bioreactors and manipulation of microorganisms (bacteria and yeasts).

Instituto Butantan– IBU
Center of Biotechnology
Position: student
Project: “Evaluation of porcine SP-A immunogenicity in murine model”
Period: 2009 until 2010
Main activities:
- Downstream process (purification of proteins);
- Gel SDS-Page and Western-Blotting
- In vivo trials to test the effects of proteins in murine model
- ELISA

Universidade Estadual Paulista “Júlio de Mesquita Filho”
Position: student (scholarship/ Fapesp)
Period: 2007 until 2008
Main activities: Research to evaluate the side effects of anabolic steroids on testes and epididymis rats, subjected to physical exercise.

Skills

Advanced level of Microsoft Office

Publications

DIAS, S. C. ; Batista IFC ; IOURTOV, D. ; **ALVES RF** ; RAW, I. ; Kubrusly FS. A porcine lung SLPI WAP 2 fragment inhibits trypsin by sharing the preserved antielastase reactive site P1' Met 73 and P2' Leu 74. In: Long CA; Anninos P; Pham T; Anastassopoulos G; Mastorakis NE. (Org.). PROCEEDINGS OF THE 2ND WSEAS INTERNATIONAL CONFERENCE ON BIOMEDICAL ELECTRONICS AND BIOMEDICAL INFORMATICS Book Series: Recent Advances in Biology and Biomedicine.: WSEAS Press, 2009, v, p. 15-20.

TOLEDO, M. A. S**.;** Favaro, M. T. P.; **ALVES, R. F**.; Santos, C. A.; Beloti, L. L. ; CRUCELLO, A. ; SANTIAGO, A. S. ; MENDES, J. S.; HORTA, M. A. C.; Aparicio, R.; Souza, A. P.; AZZONI, A. R. Characterization of the human dynein light chain Rp3 and its use as a non-viral gene delivery vector. Applied Microbiology and Biotechnology JCR, 2013

FAVARO, M.T.P.; DE TOLEDO, M.A.S.; **ALVES, R.F**.; SANTOS, C.A.; BELOTI, L.L. ; Janissen, R. ; DE LA TORRE, L.G. ; SOUZA, A.P. ; **AZZONI, A.R.** . Development of a non-viral gene delivery vector based on the dynein light chain Rp3 and the TAT peptide. Journal of Biotechnology JCR, v. 173, p. 10-18, 2014.

ALVES, RAFAEL F.; FAVARO, MARIANNA T.P. ; BALBINO, TIAGO A. ; DE TOLEDO, MARCELO A.S. ; DE LA TORRE, LUCIMARA G. ; AZZONI, ADRIANO R. . Recombinant protein-based nanocarriers and their association with cationic liposomes: Characterization and in vitro evaluation. COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS JCR, v. 513, p. 1-10, 2017..

BRAGA, LUCAS P. P.; **ALVES, RAFAEL F**.; DELLIAS, MARINA T. F.; NAVARRETE, ACACIO A.; BASSO, THIAGO O.; TSAI, SIU M. Vinasse fertirrigation alters soil resistome dynamics: an analysis based on metagenomic profiles. BioData Mining JCR, v. 10, p. 17, 2017.