



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE \_6450

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze per gli Alimenti, la Nutrizione e l'Ambiente**  
Scientist- in - charge: **Dott. Marino Mirko**\_\_\_\_\_

**Bruna Gil Garcia**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Gil Garcia
Name	Bruna

### PRESENT OCCUPATION

Appointment	Structure

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Biological Sciences	Centro Universitário Fundação Santo André - Brazil	2008
Specialization			
PhD	Science- Microbiology and Immunology	UNIFESP - São Paulo - Brazil	2014
Master			
Degree of medical specialization			
Degree of European specialization			
Other			



## REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City

## FOREIGN LANGUAGES

Languages	level of knowledge
Portuguese	Native
English	Fluent
Italian	B1

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2009-2014	Fundação de Amparo à Pesquisa do Estado de São Paulo-FAPESP SCHOLARSHIP
2017-2018	Conselho Nacional de Desenvolvimento Científico e Tecnológico-CNPq SCHOLARSHIP

## TRAINING OR RESEARCH ACTIVITY

<p>description of activity</p> <p>Postdoctoral at the Microbiology and Immunology Program in Federal University of São Paulo (2018). Role of the Pil fimbria in the aggregative adhesion pattern of an enteropathogenic Escherichia coli strain which co-expresses localized and aggregative adhesion patterns.</p> <p>Designing and developing a research project in the area of Microbiology, with emphasis on bacteriology; Cell biology (HeLa cells infection assays); Microscopy (Immunofluorescence, MEV, MET); Molecular biology (gene mutagenesis, DNA/RNA purification, cloning, and sequencing techniques, PCR and RT-PCR, proteomic analysis by 2-D electrophoresis and Western Blotting), biofilm and Biostatistics</p>
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## PROJECT ACTIVITY

Year	Project
2018	Role of the Pil fimbria in the aggregative adhesion pattern of an enteropathogenic Escherichia coli strain which co-expresses localized and aggregative adhesion patterns
2011-2014	Characterization of Escherichia coli serotype O119:H6 samples that co-express the localized and aggregative adhesion and produce biofilm
2009-2011	Contribution of the BFP fimbria to the hybrid adhesion phenotype in an Escherichia coli sample
2007-2009	Study of the H6 flagelin hole from a typical enteropathogenic Escherichia coli strain which expresses the localized and aggregative adhesion patterns (AL/AA), regarding adherence and biofilm formation



## PATENTS

Patent

## CONGRESSES AND SEMINARS

Date	Title	Place
2017	29° Congresso Brasileiro de Microbiologia	Foz do Iguaçu, Brazil
2013	5th Congress of European Microbiologists, FEMS	Leipzig, Germany
2013	27° Congresso Brasileiro de Microbiologia	Natal, Brazil
2012	XXI Congresso Latinoamericano de Microbiologia	Santos, Brazil
2011	26° Congresso Brasileiro de Microbiologia	Foz do Iguaçu, Brazil
2010	XX Congresso Latinoamericano de Microbiologia.	Montevideo, Uruguay

## PUBLICATIONS

Books
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]

Articles in reviews
Interactions of Shiga toxin-producing <i>Escherichia coli</i> with leafy green vegetables. Abe CM, Matheus-Guimarães C, Garcia BG, Guth BEC. <i>Braz J Microbiol.</i> 2020.
Distribution of the <i>pilS</i> gene in <i>Escherichia coli</i> pathovars, its transfer ability and influence in the typical enteropathogenic <i>E. Coli</i> adherence phenotype Garcia BG, Castro FS, Vieira MAM, Girão DM, Uenishi LT, Cergole-Novella MC, Dos Santos LF, Piazza RMF, Hernandes RT, Gomes TAT. <i>Int J Med Microbiol.</i> 2019.
Genetic relatedness and virulence properties of enteropathogenic <i>Escherichia coli</i> strains of serotype O119:H6 expressing localized adherence or localized and aggregative adherence-like patterns on HeLa cells. Garcia BG, Ooka T, Gotoh Y, Vieira MA, Yamamoto D, Ogura Y, Girão DM, Sampaio SC, Melo AB, Irino K, Hayashi T, Gomes TA. <i>Int J Med Microbiol.</i> 2016.
Flagellar Cap Protein FliD Mediates Adherence of Atypical Enteropathogenic <i>Escherichia coli</i> to Enterocyte Microvilli. Sampaio SCF, Luiz WB, Vieira MAM, Ferreira RCC, Garcia BG, Sinigaglia-Coimbra R, Sampaio JLM, Ferreira LCS, Gomes TAT. <i>Infect Immun.</i> 2016.



Congress proceedings
GARCIA, B. G.; CASTRO, F. S.; VIEIRA, M. A. M.; GIRAO, D. M.; SANTOS, L. F.; PIAZZA, R. M. F.; HERNANDES, R. T.; GOMES, T.A.T. DISTRIBUTION OF THE PILS GENE ENCODING THE PILIN OF THE TYPE IV PILUS, PIL, AMONG TYPICAL ENTEROPATHOGENIC ESCHERICHIA COLI STRAINS In: 29° Congresso Brasileiro de Microbiologia, 2017, Foz do Iguaçu. 29° Congresso Brasileiro de Microbiologia, 2017. , 2017. □
STRO, F. S.; GARCIA, B. G.; VIEIRA, M. A. M.; ROMAO, F. T.; GOMES, T.A.T. Molecular studies on the pil fimbria on the adherence phenotypes of enteropathogenic escherichia coli strains of the O119:H6 serotype In: 29° Congresso Brasileiro de Microbiologia, 2017, 2017, Foz do Iguaçu. 29° Congresso Brasileiro de Microbiologia, 2017. , 2017. □
VIEIRA, M. A. M.; GARCIA, B. G.; OOKA, T.; Sampaio, S.C.; HAYASHI, T.; GOMES, TÂNIA A. T. Distribution of the pilS gene encoding a type IV pilus among typical enteropathogenic Escherichia coli strains presenting localized or localized and aggregative adherence patterns. In: 9th Triennial International Symposium on Shiga Toxin producing Escherichia coli infections- VTEC 2015, 2015, Boston.□
SAMPAIO, SUELY C. F.; GARCIA, B. G.; LUIZ, WILSON B.; FERREIRA, RITA C. C.; SAMPAIO, JORGE SINIGAGLIA-COIMBRA, RITA; FERREIRA, LUÍS C. S.; GOMES, TÂNIA A. T. The flagellar protein FlID of an atypical enteropathogenic Escherichia coli strain acts as an adhesin during interaction with enterocytes microvilli in vitro. In: 24th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID 2014),, 2014, Barcelona. Abstracts of the 24th European Congress of Clinical Microbiology and Infectious Disease. , 2014.
GARCIA, B. G.; VIEIRA, MÔNICA A. M.; MATEUS, L.; SAMPAIO, SUELY C. F.; GIRAO, D. M.; VAZ, T. M. I.; IRINO, K.; GOMES, TÂNIA A. T. Characterization of Escherichia coli serotype O119:H6 that co-express the patterns of localized and aggregative adherence. In: 5th Congress of European Microbiologists, FEMS 2013, 2013, Leipzig. Abstracts of the 5th Congress of European Microbiologist. , 2013
GARCIA, B. G.; SAMPAIO, SUELY C. F.; VIEIRA, M. A. M.; GIRÃO, DENNYS M.; MATEUS, L.; VAZ, T. M. I.; IRINO, K.; GOMES, TÂNIA A. T. O PADRÃO DE ADESÃO AGREGATIVA DE AMOSTRAS DE ESCHERICHIA COLI ENTEROPATOGÊNICA QUE COEXPRESSAM ADESÃO LOCALIZADA É MEDIADO POR UM PLASMÍDIO CONJUGATIVO In: 27° Congresso Brasileiro de Microbiologia, 2013, Natal. Resumos do 27º Congresso Brasileiro de Microbiologia... , 2013.
GARCIA, BRUNA G.; VIEIRA, MÔNICA A. M.; MATEUS, L.; SAMPAIO, SUELY C. F.; GIRÃO, DENNYS M.; VAZ, T. M. I.; IRINO, K.; GOMES, TÂNIA A. T.



CARACTERIZAÇÃO DE AMOSTRAS DE ESCHERICHIA COLI DO SOROTIPO O119:H6 QUE CO EXPRESSAM OS PADRÕES DE ADESÃO LOCALIZADA E AGREGATIVA In: XXI ALAM Congresso

Latinoamericano de Microbiologia, 2012, Santos.

Libro de Resúmenes - XXI Congreso Latinoamericano de Microbiología. , 2012.

SAMPAIO, SUELY C. F.; GARCIA, B. G.; VIEIRA, MÔNICA A. M.; SINIGAGLIA-COIMBRA, RITA;

FREYMULLER, E.; SAMPAIO, JORGE L. M.; GOMES, TÂNIA A. T.

FliD (CAP) , the tip of the flagellar type III secretion System of an atypical Enteropathogenic Escherichia coli strain, mediates bacterial adherence to enterocytes. In: 8th international symposium on Shiga Toxin (Verocytotoxin) producing Escherichia coli infections-VTEC, 2012, Amsterdam.

Abstract Book of the VTEC 2012

GARCIA, B. G.; VIEIRA, MÔNICA A. M.; MATEUS, L.; SAMPAIO, SUELY C. F.; GIRAO, D. M.; VAZ, T. M.

I.; IRINO, K.; GOMES, TÂNIA A. T.

Caracterização de amostras de Escherichia coli do sorotipo O119:H6 que co-expressam os padrões de adesão localizada e agregativa e produzem biofilme. In: 26o. Congresso Brasileiro de Microbiologia, 2011, Foz do Iguaçu.

GARCIA, B. G.; SAMPAIO, SUELY C. F.; GOMES, TÂNIA A. T.

Papel do flagelo na adesão e formação de biofilme de uma amostra de Escherichia coli enteropatogênica que co-expressa os padrões de adesão localizada e agregativa. In: XX Congresso Latinoamericano de Microbiologia, 2010, Montevideo, Uruguai., 2010, Montevideo.

GARCIA, B. G.; SAMPAIO, SUELY C. F.; GIRAO, D. M.; GOMES, TÂNIA A. T.

Papel do flagelo na adesão e formação de biofilme de uma amostra de Escherichia coli enteropatogênica que co-expressa os padrões de adesão localizada e agregativa. In: 25º Congresso Brasileiro de Microbiologia, 2009, Porto de Galinhas.

## OTHER INFORMATION

Excellent use of Word, Excel, Power Point of the Office group. Excellent use of the Analytical and scientific software (Bioedit, SnapGene, GraphPad Prism). Basic knowledge of, Photoshop, Illumina and Python language.

Extensive experience in elaborating Biology, Science, and Mathematics classes. This experience has allowed me to effectively communicate complex scientific concepts to diverse audiences, fostering a stimulating and inclusive learning environment.

I am a science lover person who is a good learner, an influential leader and I will be able to exceed the role expectations.



Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: London, 19<sup>th</sup> of February 2024