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Gustavo Monteiro Silva

Assistant Professor of Biology
Trinity College of Arts and Science

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Overview

My main research goal is to understand and be able to control how cells respond to stressful and harmful conditions, which are the underlying causes of many human diseases. To achieve this goal, I study cellular response to stress at the protein level and aim to characterize the different regulatory functions mediated by the ubiquitin-proteasome system (UPS), essential machinery involved in modulating protein dynamics. Ultimately, regulating specific UPS roles will provide new tools to increase cellular tolerance to a variety of environmental stresses, which is highly relevant for a variety of degenerative diseases. The main focus of my lab is to investigate the unprecedented regulation of translation mediated by ubiquitin. I laid the groundwork for this research investigating the ubiquitination response in the budding yeast *Saccharomyces cerevisiae* and we will explore the evolutionary conservation of this pathway and its function in neuronal cells. Our lab is excited to keep pushing the field forward and to use a combination of proteomics, genomics, and molecular methods to understand the mechanisms by which ubiquitin regulates translation, and ultimately, cellular response to stress.

Current Appointments & Affiliations

Assistant Professor of Biology, [Biology](#), [Trinity College of Arts & Sciences](#)

Contact

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Telephone: (919) 725-5948

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3103 French Family Science Center
Durham, NC 27708

Professional Links

[Silva lab at Duke University](#)

[LinkedIn](#)

[Curriculum Vitae PDF](#)

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Gustavo Monteiro Silva

Assistant Professor of Biology
Trinity College of Arts and Science

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Publications

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A synopsis on aging—Theories, mechanisms and future prospects

JP da Costa, GM Silva, [+7 authors](#) • Aging Research Reviews • August 2016

Answering the question as to why we age is tantamount to answering the question of what is life itself. There are countless theories as to why and how we age, but, until recently, the very definition of aging – senescence – was still uncertain... [\(More\)](#)

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Recurrent mutations of chromatin-remodeling genes and kinase receptors in pheochromocytomas and paragangliomas

RA Toledo, GM Silva, [+9 authors](#) • Clinical Cancer Research • May 2016

Pheochromocytomas and paragangliomas (PPGL) are catecholamine-secreting tumors of neural crest origin that arise from

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- Neurology (493)
- Medicine (486)
- Behavioral Science (85)

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- Postdoctoral Researcher (221)
- Resident (199)
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[Show More](#)

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People (1373)

Publications (23431)

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Other (244)

Showing 1-25 of 1373

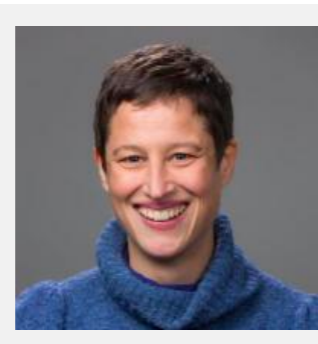
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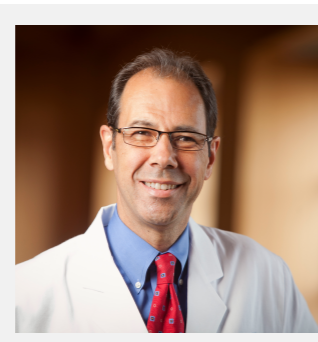
Gustavo Montiero Silva
Assistant Professor of Biology

My main research goal is to understand and be able to control how cells respond to stressful and harmful conditions, which are the underlying causes of many human diseases. To achieve this goal...



Amy K. Schmid
Assistant Professor of Biology

Research in my lab seeks to elucidate how cells make decisions in response to environmental cues. My particular focus is on how networks of molecules interact within free-living microbial cells...



Brian Ross
Professor of Neurology

My current clinical interests center around the diagnosis and treatment of disorders in sports neurology and sports concussion, autoimmune neurology, general neurology, and neurological education...

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- Journal Article (258,259)
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- Book Review (1,073)
- Digital Publication (288)

[Show More](#)

Date Range



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Author

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- Arthur Page (485)
- Alex Wade (402)
- John Hilton (398)

[Show More](#)

Journal Title

- Advances in Biology (24)
- Clinical Cancer Research (19)

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Publications (23431)

Funding (1072)

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Integrating social media in the marketing mix: the case of I

Melinda Kenneway, Arthur Page • Journal of the Professional Society •

In this case study we examine how *Best Practice* – a clinical decision support evidence Centre – was successfully launched into a competitive market, with social media tactics at the heart of... [\(More\)](#)

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Recurrent mutations of chromatin-remodeling genes and kinase receptors in pheochromocytomas and paragangliomas

RA Toledo, GM Silva, +9 authors • Clinical Cancer Research • July 2019

Pheochromocytomas and paragangliomas (PPGL) are catecholamine-secreting tumors of neural crest origin that arise from the sympathetic lineage cells of the adrenal medulla and paraganglia, respectively. [\(More\)](#)

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Foucault and the bibliographic universe: What Really is an author?

John M. Budd • American Society for Information Science • July 2019

This poster will present connections that are readily apparent between Michel Foucault's concept of "author" and the "entities" in FRBR. Both Group 1 and Group 2 FRBR Entities have properties that are... [\(More\)](#)



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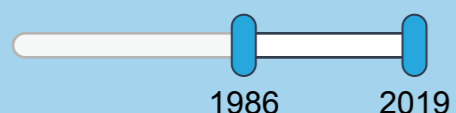
Silva, Gustavo M. (4)

Simoes, Vanessa (2)

Gorman, Andrew (1)

[Show all](#)

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Funding Agency

National Institutes of Health (56)

Department of Defense (32)

NSF (1)

[Show all](#)

Type

Grant (86)

Gift (11)

Award (10)

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People (1373)

Publications (23431)

Funding (1072)

Other (244)

Showing 1-25 of 1072

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Defining the roles of ubiquitination during the environmental stress response

Contributors: Andrew Gorman, Gustavo M Silva, Vanessa Simoes

Funding Agency: National Institutes of Health

Administered by: Biology

Date: February 15, 2018 - January 31, 2021

Organization and Function of Cellular Structure

Contributors: Soman Ninan Abraham, James Andrew Alspaugh II, Gustavo M Silva, +94 contributors

Funding Agency: National Institutes of Health

Administered by: Basic Science Departments

Date: February 15, 2018 - January 31, 2021

Bare-bones Grant

Funding Agency: National Institutes of Health

Date: September 25, 2017 - January 11, 2020

biology

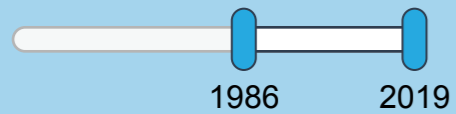
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- Conferences (26)

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Contributors

- Ralph Snyderman (16)
- Amy K. Schmid (8)
- Robert N. Brandon (2)

[Show all](#)

Organization

- American Society of Biology (38)
- Duke University (17)
- Institute of Medicine (10)

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People (1373)

Publications (23431)

Funding (1072)

Other (244)

Showing 1-25 of 244

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Bonazinga Award for Excellence in Leukocyte Biology Research

Award

Contributor: Ralph Snyderman
Organization: Society of Leukocyte Biology
Date: 1993

Causation in Biology

Presentation

Contributor: Robert N. Brandon
Location: UNC Chapel Hill
Date: September 2, 2012

Cell Biology Retreat

Event

Bonazinga Award for Excellence in Cell Biology Research

Award

Contributor: Ralph Snyderman
Organization: Society of Cell Biology
Date: 1991

Causation in Cell Biology

Presentation

Contributor: Robert N. Brandon
Location: UNC Chapel Hill
Date: September 3, 2012

Microbiology Retreat

Event

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A synopsis on aging—Theories, mechanisms and future prospects

Journal Article

August 2016

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Answering the question as to why we age is tantamount to answering the question of what is life itself. There are countless theories as to why and how we age, but, until recently, the very definition of aging – senescence – was still uncertain. Here, we summarize the main views of the different models of senescence, with a special emphasis on the biochemical processes that accompany aging.

Authors JP da Costa; R Vitorino; GM Silva; C Vogel; AC Duarte; T Rocha-Santos

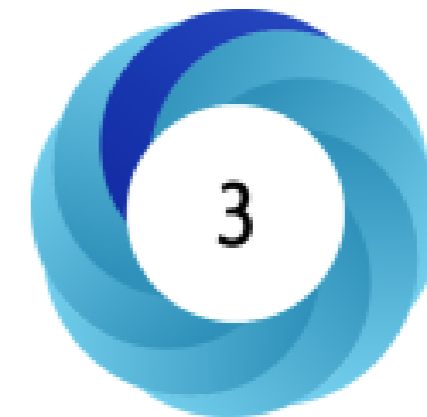
Published in Aging Research Reviews

Volume / Issue Volume 29

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DOI 10.1016/j.arr.2016.06.005

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Index	

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 - ▶ **School of Nursing**
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