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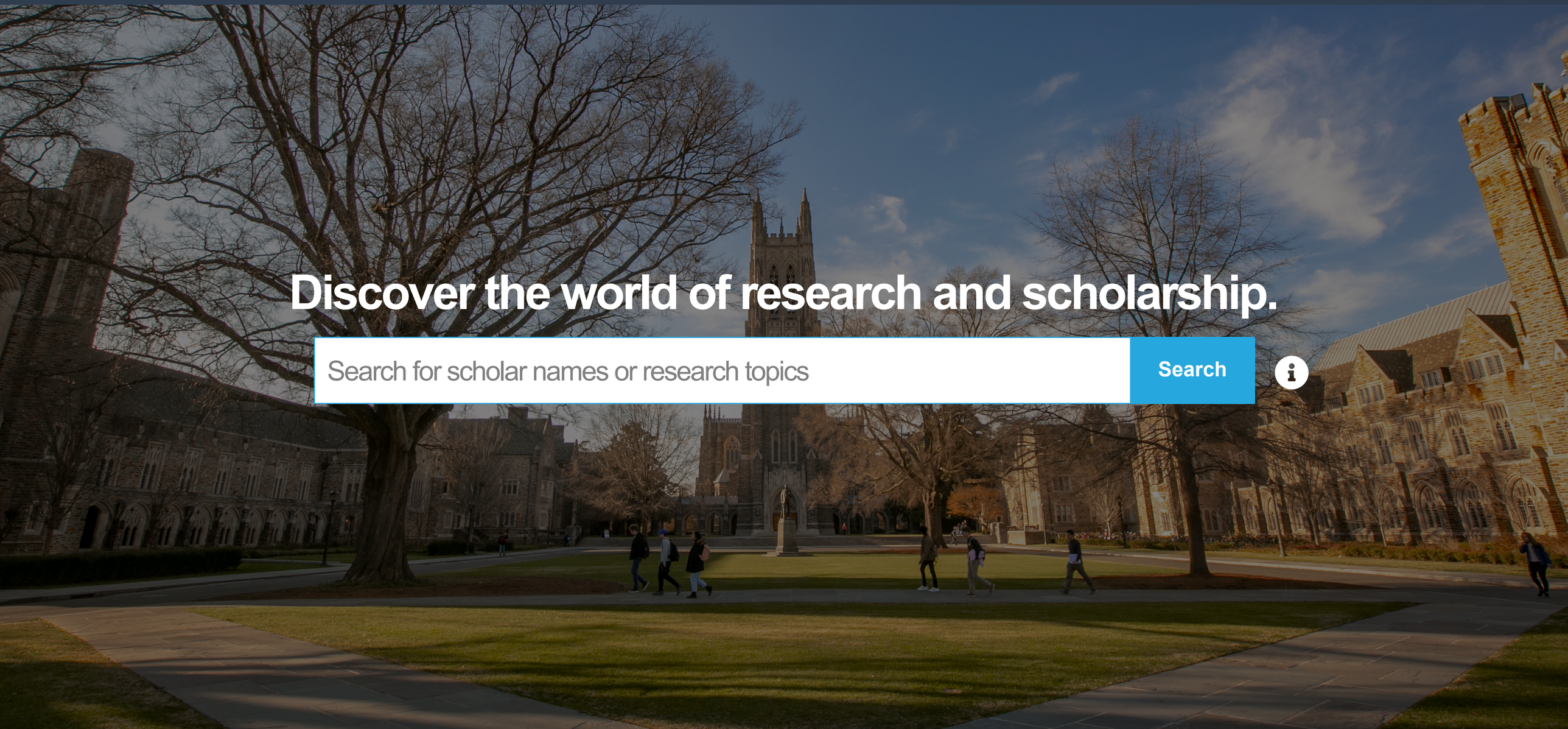

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# Gustavo Monteiro Silva

**Assistant Professor of Biology**
Trinity College of Arts and Science

About | Background | Research & Expertise | Teaching & Mentoring | Professional Activities

**Contact**

**Email:** Gustavo.Silva@duke.edu
**Telephone:** (919) 725-5948

**Address 1:**
130 Science Drive
3103 French Family Science Center
Durham, NC 27708

**Professional Links**

Silva lab at Duke University
LinkedIn
Curriculum Vitae PDF
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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

# Gustavo Monteiro Silva

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Trinity College of Arts and Science

About Background Research & Expertise Teaching & Mentoring Professional Activities

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## Publications

Showing 3 featured 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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## Filter People

### School/Unit

- Trinity School of Arts and Science (793)
- School of Medicine (668)
- Graduate School (238)

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### Department

- Biology (793)
- Neurology (493)
- Medicine (486)
- Behavioral Science (85)

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### Type

- Faculty and Teaching Staff (658)
- Staff (629)
- Postdoctoral Researcher (221)
- Resident (199)
- Graduate Student (137)

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### Educational Level

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People (1373) Publications (23431) Funding (1072) Other (244)

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Last Name (Descending)

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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...

biology

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## Filter Publications

### Type

- Journal Article (258,259)
- Conference Paper (24,423)
- Book (3,320)
- Book Review (1,073)
- Digital Publication (288)

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### Date Range

1970 1980 1990 2000 2010 2020

### Author

- Irite A. Lot (9001)
- Arthur Page (485)
- Alex Wade (402)
- John Hilton (398)

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### Journal Title

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

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Oldest First
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Author Last Name
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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 supp vidence Centre – was successfully launched into a competitive market, with social media tactics at the heart of... (More)

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4

### 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)

Full Text Cite

3

### 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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## Filter Funding

### Status

Active Only (63) ☐

### Contributors

Silva, Gustavo M. (4) ☐
Simoes, Vanessa (2) ☐
Gorman, Andrew (1) ☐
Show all

### Date Range

1986 2019

### Funding Agency

National Institutes of Health (56) ☐
Department of Defense (32) ☐
NSF (1) ☐
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### Type

Grant (86) ☐
Gift (11) ☐
Award (10) ☐

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People (1373) Publications (23431) **Funding (1072)** Other (244)

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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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## Filter Other

### Type

Events (63)
Presentations (42)
Conferences (26)
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### Date Range

1986 2019

### 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)

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Title (ascending)

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### Bonazinga Award for Excellence in Leukocyte Biology Research

Award

**Contributor:** Ralph Snyderman

**Organization:** Society of Leukocyte Biology

**Date:** 1993

### Bonazinga Award for Excellence in Cell Biology Research

Award

**Contributor:** Ralph Snyderman

**Organization:** Society of Cell Biology

**Date:** 1991

### Causation in Biology

Presentation

**Contributor:** Robert N. Brandon

**Location:** UNC Chapel Hill

**Date:** September 2, 2012

### Causation in  Cell Biology

Presentation

**Contributor:** Robert N. Brandon

**Location:** UNC Chapel Hill

**Date:** September 3, 2012

### Cell Biology Retreat

Event

### Microbiology Retreat

Event

# A synopsis on aging—Theories, mechanisms and future prospects

**Journal Article**

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. 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

**Start / End Page** 90 – 112

**DOI** 10.1016/j.arr.2016.06.005

**Language** English

# Organizations

View as: Hierarchy

Hierarchy
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- Duke University
  - Divinity School
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