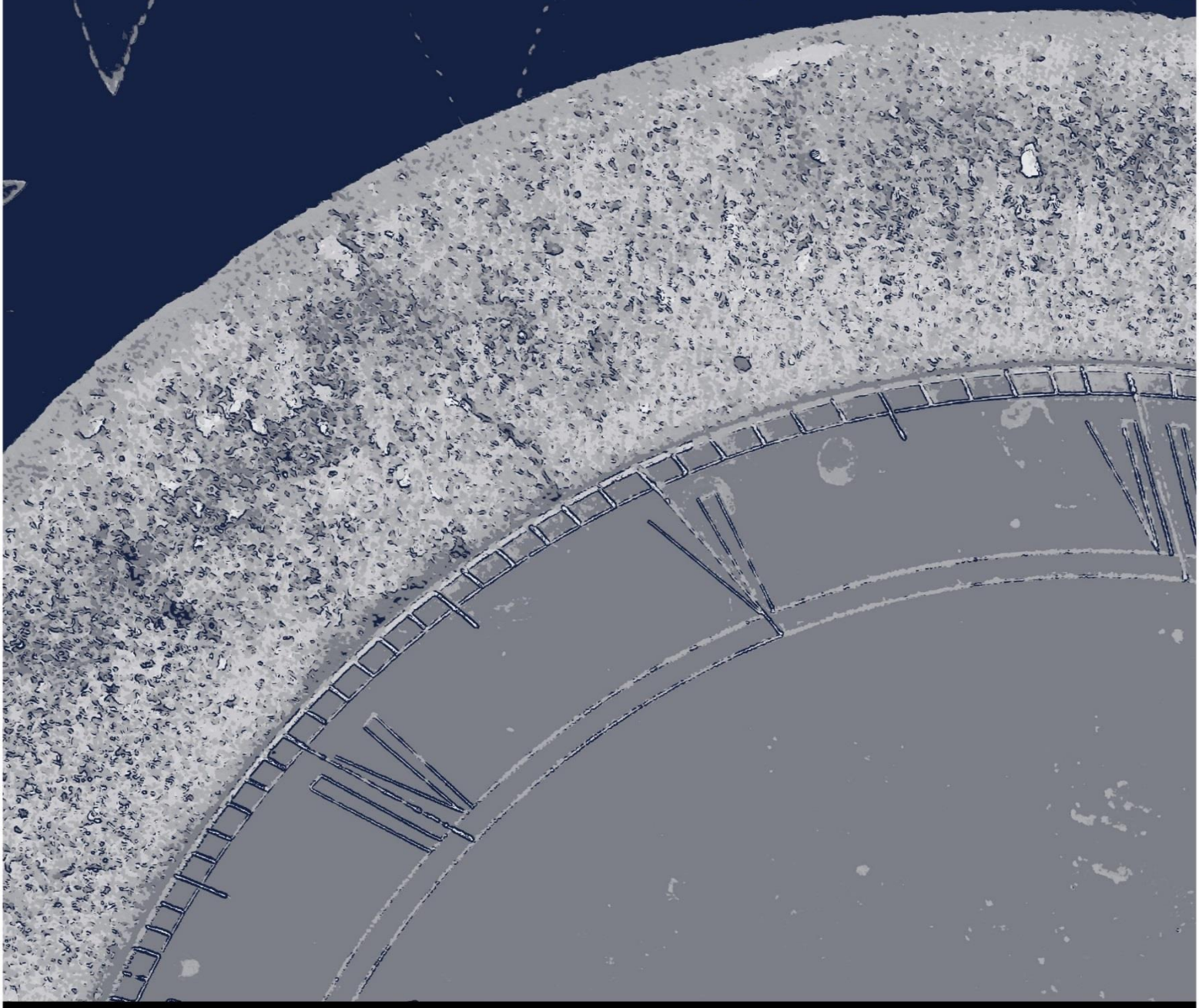
Fall 2016

Volume 1 Issue 1

THE ARSENAL

Augusta University's Undergraduate Research Journal



INAUGURAL ISSUE

Dear readers,

We are pleased to present the inaugural issue of *The Arsenal: Augusta University's Undergraduate Research Journal*. This journal aims to showcase outstanding scholarly works produced by the students of Augusta University. With faculty members providing rigorous and anonymous feedback on all qualified submissions, authorial hopefuls get to experience the benefits of the academic publishing process. The best of these papers will be featured in the following pages of this and future issues.

A year and a half in the making, this publication is the result of dedicated work by a handful of committed students. We conducted our first meeting in an out-of-the-way conference room, envisioning a university journal that would celebrate all disciplines of undergraduate research. Brainstorming and debating commenced, and a name finally emerged: *The Arsenal*.

The journal's name is inspired by the Arsenal Oak, an enduring symbol of the university, and by the Augusta Arsenal, a once important producer of munitions for several wars and whose historic grounds are now the site of Augusta University's Summerville Campus. Not only does this name capture part of the history and aesthetic of the university, it also reminds us of the power that our words can have—the power to ask important questions and communicate hard-earned, evidence-based answers.

We hope you enjoy the inaugural issue of *The Arsenal*.

Thank you for reading,

Student Editorial Board

Student Editorial Board
(On the Shoulders of Giants)

Amberly Walton, President
College of Science and Mathematics

Natasha Venugopal, Vice President
College of Science and Mathematics

Adam White, Secretary
Pamplin College of Arts, Humanities, and Social Sciences

James Layton, Public Relations
College of Science and Mathematics

Khadijah Alexander
The Graduate School

Kingsley Anosike
College of Science and Mathematics

Faculty Editorial Board

Kim Mears, University Libraries, Co-Managing Editor

Melissa Johnson, University Libraries, Co-Managing Editor

Dr. Laurence Miller, College of Science and Mathematics

Melissa Knapp, Program Coordinator for the Center of Undergraduate Research

Amberly Walton, President, On the Shoulders of Giants

Natasha Venugopal, Vice President, On the Shoulders of Giants

Cover credit: Baillie Conway, baillie.conway@gmail.com

Table of Contents

Volume 1, Issue 1 (2016)

EDITORIAL

i **Welcome**
Student Editorial Board

RESEARCH ARTICLES

1 **The Cytotoxic Effects of Novel Persin Analogues on a Breast Cancer Cell Line**
Keri Jones

20 **The Real "Monster" in Frankenstein**
David Urizar

28 **Escape from a Life of Secrets and Emergence of Psychopathy from a Mask of Sanity**
Vattika Sivised