

CONTENTS

9-15 Development of Surrogate Hand for Impact Tests

Brison and Sosa detail the development of an anatomically and biomechanically accurate human hand to use for metacarpal glove safety testing.

17-24 The Gut Microbiome and Trimethylamine N-Oxide: Implications for Chronic Disease Risk and Dietary Regulation

Nevin reviews evidence for the “TMAO connection,” the molecular link between diet, the gut microbiome, and mechanisms of chronic disease.

25 Faculty Spotlights: Dr. Kate Staples and Dr. Cinthia Pacheco

27-32 Effects of Mouthrinses on Salivary pH After Acidic Drink Consumption

Fisher and Duggan examine the efficacy of several post-exposure mouthrinses in buffering salivary pH to prevent dental erosion and inform dental professionals and patients alike.

33-40 Investigating the General Public's Perceptions of Bias in Forensic Science

Jurors' perceptions of bias in forensic science is important to identify in pursuit of fair trials- Riley examines these perceptions and identifies potential paths forward in public education.

42-45 Student-Submitted Artwork

47-52 The Robert Lepper Mural Painting: a Hidden Gem in White Hall at West Virginia University

Caplinger utilizes a battery of art history and forensic techniques to investigate the origins of an impressive but often overlooked campus landmark.

53-58 O'Neill's Authorial Voice: The Prismatic Autobiography of Long Day's Journey Into Night

Dundon analyzes the magnum opus of one of America's most accomplished playwrights and explores the ways in which he personifies himself in his work.

59-64 Swords, War, and Goldsmithing: Benvenuto Cellini and Masculinity in Sixteenth-Century Italy

Hogbin examines the autobiography of one of Renaissance Italy's most renowned artists and connects his portrayals of violence to concepts of masculinity during this time period.

65 Acknowledgements/From the Editors