



PROMOTING
COLLABORATION
ACROSS
DISCIPLINES



10TH ANNUAL STUDENT RESEARCH SYMPOSIUM

Friday, April 15, 2016 | University Hall

PRESENTED BY

Office of the Provost | College of the Arts | College of Education and Human Services
College of Humanities and Social Sciences | College of Science and Mathematics
Feliciano School of Business | The Graduate School

Montclair State University
montclair.edu **IT'S ALL HERE.**

Message from the Provost



To the faculty and student participants of the University-wide Montclair State Student Research Symposium:

This event, with some 230 participants from all across the University, expresses the energy, creativity and hard work of which our students are capable under the mentorship of the faculty. Research is hard when done well and done thoroughly but its rewards can be immense, both as personal satisfaction for the job done and for the new knowledge acquired. Mastering the methods, techniques and tools of an intellectual discipline to the degree required for applying them effectively to a real-world question or problem is the essence of an empowering education. The satisfaction of knowing how to confidently apply oneself to a challenge with the techniques of a microbiologist, a sociologist, a psychologist, an accountant, an audiologist, a filmmaker, a journalist, a teacher or public health specialist, or any of a dozen other disciplinary methodologies, is the reward of a successful education and the key to opening a door into the mansion of lifelong learning.

Even more satisfying and rewarding, then, is the challenge of tackling a problem with a toolbox of multiple methodologies, with an inter- or multi-disciplinary approach, either by mastering several different disciplines yourself, or by combining your own skills and efforts with colleagues trained in other disciplines. You may find that the problem cracks open more quickly and more easily when together you bring the collective weight of your individual skills to bear against it. Or together you can identify and address a question larger and more complex than any you could hope to solve individually. This is what has happened in all fields of human knowledge around us, and it happens because curious students like you are always finding creative new ways to apply the lessons of your teachers either to ancient questions (What is a just society? What are the essential qualities of a successful life? Does poetry matter?) or to previously unknown functions of nature (How well do parrots communicate? How unique is the DNA of surviving native brook trout in New Jersey streams?).

No one will ever answer these questions on their own and no one discipline will serve to do so. That is the challenge and excitement of interdisciplinary cooperation. That is the attraction and promise of this event today, where students from disciplines across the University come together to discuss and share their research on common issues.

The entire faculty of Montclair State are proud of the work you have presented and wish you the best for continued growth and mastery of those skills and achievements.

A handwritten signature in black ink that reads "Willard Gingerich". The signature is fluid and cursive, written in a professional style.

Dr. Willard Gingerich
Provost and Vice President for Academic Affairs

Schedule

- 1:00 pm – 1:30 pm **Registration**
University Hall Grand Hallway, 1st Floor
- 1:30 pm – 1:45 pm **Opening Remarks: Dr. Willard Gingerich**
Provost and Vice President for Academic Affairs
The Intrinsic Value of Interdisciplinary Research
University
University Hall Room 1070
- 1:50 pm – 2:45 pm **Oral and Multimedia Presentations Block A**
Room assignments listed in program
- 2:45 pm – 3:00 pm **Break**
- 3:00 pm – 3:55 pm **Poster Session Block A**
University Hall Conference Center, 7th Floor
- 4:00 pm – 4:55 pm **Oral and Multimedia Presentations Block B**
Room assignments listed in program
- 5:00 pm – 5:55 pm **Oral and Multimedia Presentations Block C**
Room assignments listed in program
- 6:00 pm – 6:55 pm **Poster Session Block B**
University Hall Conference Center, 7th Floor
- 7:00 pm **Award Presentations and Closing Remarks**
University Hall Conference Center, 7th Floor

Title: **Sometimes the wrong choice is the right choice**
Presenter: Elias Aydin Advisor: Dr. Ian Drake

**4. New Security Threats from Crime, Ebola, Piracy, and Non-State Actors –
University Hall 2032
Moderator: Dr. Elizabeth Wishnick**

Title: **Crime in Peru: Analyzing drug trafficking, narcoterrorism, and corruption**
Presenter: Anna Samanamu Advisor: Dr. Elizabeth Wishnick

Title: **Ebola and health security in Sierra Leone**
Presenter: Samuel Gundlach Advisor: Dr. Elizabeth Wishnick

Title: **“Somali piracy”: Human security and state security threats**
Presenter: Zahra Mustamand Advisor: Dr. Elizabeth Wishnick

Title: **Saudi Arabia’s border security dilemma**
Presenter: Travis Gross Advisor: Dr. Elizabeth Wishnick

**5. Higher Education and Pedagogy – University Hall 2026
Moderator: Dr. Peter Hosick**

Title: **Assessing the state of academic programs in sports, events and tourism at universities across the USA - Looking at trends and what they suggest for pedagogy and career development**
Presenter: Jessica Karwowski Advisor: Dr. Ricard Jensen

Title: **Nurturing teacher leaders through actions and agency: A differentiated science teacher leadership program**
Presenter: Zareen Rahman Advisor: Dr. Mika Munakata
Co-author(s): Jason McManus, Kristen Trabona

Title: **Introducing dynamic measurement: A new approach to area and volume**
Presenter: Debasmita Basu Advisor: Dr. Nicole Panorkou
Co-author: Madhavi Vishnubhotla

Title: **Conceptualization of scientific inquiry: An analytical review of the empirical literature**
Presenter: Theodore Graham Advisor: Dr. Brian Carolan

Title: **Going overseas: Challenges, benefits and lessons learned from international evaluation**
Presenter: Marisa MacDonnell Advisor: Dr. Jennifer Urban
Co-author(s): Lauren Gama, Victoria Illnick, Rebecca Jensen, Lisa Chauveron, Veronica Barrios, Miriam Linver, Jennifer Urban

6. Government Regulation and Regulatory Policy – University Hall 2025
Moderator: Dr. Vikash Singh

Title: **A content analysis of FDA warning letters issued to pharmaceutical companies**
Presenter: Avianca Goldston Advisor: Dr. Yam Limbu
Co-author(s): Michael Jarjoura, Louis Marucci

Title: **What can we learn from warning letters issued to tobacco retailers?**
Presenter: Victoria Stein Advisor: Dr. Yam Limbu
Co-author(s): Frank Costa, Brandon Pepi

Title: **The impact of deregulation of extended opening hours on small retailers' productivity and quality of life: Evidence from Italy**
Presenter: Cynthia Kum Advisor: Mr. Valerio Temperini
Co-author: David Lee

Title: **The modern day mercantilist system: The state of nature for multinational corporations**
Presenter: Troy Dorch Advisor: Dr. Ian Drake

7. Art, Design, Gender – University Hall 2013
Moderator: Dr. Mary Naumoff

Title: **Shiva Nataraja, the lord of dance**
Presenter: Gorkem Eroglu Advisor: Dr. Elizabeth Valdez del Alamo

Title: **Splash dynamics of paint on dry, wet, and cooled surfaces**
Presenter: David Baron Advisor: Dr. Ashwin Vaidya
Co-author: Ashwin Vaidya, Haiyan Su

Title: **Menswear inspired by womenswear**
Presenter: Christopher Jones Advisor: Dr. Abby Lillethun

Title: **Consequences of pleasure: The wolf of Wall Street and the subversion of the male gaze**
Presenter: Daniel Ferrer Advisor: Dr. Marylou Naumoff

8. Sports and Social Media – University Hall 2010
Moderator: Dr. Ricard Jensen

Title: **Testing of twitter visual analytics to assess social media conversations (facebook, twitter and instagram) about the Portland Timbers of major league soccer**
Presenter: Nick Carbonaro Advisor: Dr. Ricard Jensen
Co-author(s): Mike Lutes, Josh Roth

Title: **Examining social media conversations about the 2015 FIFA Women's World Cup**
Presenter: Sydney Garcia Advisor: Dr. Ricard Jensen
Co-author(s): Phil Forde, Sydnie Martinez

Title: **Identifying how soccer clubs in the English Premier League are using social media for sports marketing - A detailed look at the use of facebook, twitter, YouTube, and other new media by professional soccer clubs**

Presenter: Kent Sagun
Co-author(s): Gregory Jobeless, Chris Borrosso
Advisor: Dr. Ricard Jensen

Title: **Exploring twitter visual analytics to assess sponsor exposure from televised broadcasts of the Portland Timbers of major league soccer**

Presenter: Sadaf Chagatay
Co-author(s): Michelle Buestan, Timothy Youngman
Advisor(s): Dr. Ricard Jensen, Dr. Yam Limbu

Title: **Examining television ratings in New Jersey and New York for the 2015 FIFA Women's World Cup - Implications for sports marketing**

Presenter: Jarrell Lozada
Co-author: Rokhaya Fall
Advisor: Dr. Ricard Jensen

**9. Ecology and Environmental Health – University Hall 2009
Moderator: Dr. Meiyin Wu**

Title: **Experimental assessment of floating seagrass wrack as potential habitat for benthic organisms**

Presenter: Joseph McGinnis
Co-author: Paul Bologna
Advisor: Dr. Paul Bologna

Title: **Macroinvertebrate assemblages in selected New Jersey springs**

Presenter: Yaritza Acosta-Caraballo
Advisor: Dr. Meiyin Wu

Title: **A phosphorus sediment storage assessment of Lake Hopatcong (NJ)**

Presenter: Alessandra Rossi
Co-author(s): Kevin Olsen, Meiyin Wu
Advisor: Dr. Meiyin Wu

Oral and Multimedia Presentations

Block B: 4:00 pm – 4:55 pm

1. Nutrition – University Hall 2008

Moderator: Dr. Douglas Murray

Title: **A content analysis of regulatory letters released to dietary supplement manufacturers**

Presenter: Nisa Arias
Co-author(s): Rosenny Martinez, Imani Odom, Frank Buchel
Advisor: Dr. Yam Limbu

Title: **Comparing measurements of emotional reactions to salt intake using facereader and hedonic self-reports: A preliminary study**

Presenter: Mohamad Khair
Co-author(s): Renata Blumberg, Charles Feldman, Shahla Wunderlich
Advisor: Dr. Charles Feldman

Title: **Environmental determinants of healthy food choices**
Presenter: Iman AbdulRafiu Advisor: Dr. Deborah Ragin
Co-author(s): Erin Leo, Rebecca Bohmer

2. Literature – University Hall 2044
Moderator: Dr. Melinda Knight

Title: **Langston Hughes; More than poetry, more than prose**
Presenter: Rashaneegon Johnson Advisor: Dr. Melinda Knight

Title: **The existential dilemma of Harlem Renaissance author Nella Larsen**
Presenter: Kim Silva-Martinez Advisor: Dr. Melinda Knight

Title: **Becoming one with time: Literary immortality in “Sonnet 18”**
Presenter: Faneeza Latchana Advisor: Dr. Adam Rzepka

Title: **"She is gone": Melancholy in donne's anniversaries**
Presenter: Kimberly Plaksin Advisor: Dr. Adam Rzepka

Title: **Facts in fiction: An interdisciplinary approach to gaining legal understanding through literature**
Presenter: Lauren Haberstroh Advisor: Dr. Marilyn Tayler

3. Literature and Multiculturalism – University Hall 2042
Moderator: Dr. Linda Gould Levine

Title: **The new testament as a "Greek classics"**
Presenter: Benjamin Miller Advisor: Ms. Beth Scheckel

Title: **Don Quijote: “Stew a la cervantes - Un potage a la Cervantes”**
Presenter: Joseph Diaz Advisor: Dr. Linda Gould Levine

Title: **The complex identity of Quisqueya, Haiti**
Presenter: Cala Fils Advisor: Dr. Joanna Dezio

Title: **The influence of Don Quixote de la Mancha on the silent films of Charlie Chaplin**
Presenter: Joseph Gonzalez Advisor: Dr. Linda Gould Levine

Title: **Lineage: A humanist interpretation of Don Quijote**
Presenter: Wilkin Santana Advisor: Dr. Linda Gould Levine

4. Race and Ethnicity – University Hall 2040
Moderator: Dr. Sangeeta Parashar

Title: **Racially charged costumes: A report on 'othering' behavior**
Presenter: Fe Lorraine Reyes Advisor: Dr. Marylou Naumoff

Title: **Borderlands and Mexican-American identity**
Presenter: Mia Gomez Advisor: Dr. Elspeth Martini

Title: **Latino youth advocating for social change**
Presenter: Carolina Mendonca Advisor: Dr. Bradley Forenza
Co-author: Bradley Forenza

Title: **America's caste system: Intergenerational mobility from 1972-2012**
Presenter: Michelle Strothers Advisor: Dr. Sangeeta Parashar
Co-author: Shannel Paulino

5. Business and Economics – University Hall 2032 **Moderator: Dr. Elspeth Martini**

Title: **Statistical models for predicting credibility for bankers**
Presenter: Michael Restrepo Advisor: Dr. Haiyan Su

Title: **Is there profitability in responsibility?**
Presenter: Nicholas William Advisor: Dr. Manveer Mann

Title: **The prevalence of social media marketing among Italian SMEs**
Presenter: Alban Dalliu Advisor: Mr. Valerio Temperini
Co-author(s): Farakh Chaudhry, Jovan Djuratovic

Title: **Economic inconsistencies of the mid-twentieth century and the unfulfilled mission of the national park service**
Presenter: Christopher Sudol Advisor: Dr. Esperanza Brizuela-Garcia

Title: **Borderlands in the Great Lakes: The native struggle redefined**
Presenter: Taylor Hagy Advisor: Dr. Elspeth Martini

6. Health Care Policy and Public Health– University Hall 2026 **Moderator: Dr. Lisa Lieberman**

Title: **A view on the constitutional rights of adolescent patients**
Presenter: Brian Murray Advisor: Dr. Ian Drake

Title: **A social ecological perspective on the Indonesian maternal mortality problem**
Presenter: Inraini Syah Advisor: Dr. Amanda Birnbaum

Title: **'Nicotine free challenge' call for actions!**
Presenter: Kadek Ridoi Rahayu Advisor: Dr. Lisa Lieberman

Title: **An environmental assessment of drinking fountains and vending machines**
Presenter: Alessandro Ciari Advisor: Ms. Melanie Shefchik

Title: **Fatalities on America's highways: Trends and tendencies**
Presenter: Keyan Ostad-Hashemi Advisor: Dr. Greg Pope

7. Chemistry and Biochemistry I – University Hall 2025
Moderator: Dr. Nina Goodey

Title: **Ionic liquid based fluorescent sensors for cations**
Presenter: Johanna Breininger Advisor: Dr. Saliya Desilva

Title: **A fluorescent sensor for Zinc (II) ions with an additional PET pathway to suppress protons signals**
Presenter: Brian Huapaya Advisor: Dr. Saliya Desilva
Co-author: Andrew Schneier

Title: **Metals and microbes at Liberty State Park**
Presenter: Eleanor Ojinnaka Advisor: Dr. Nina Goodey
Co-author(s): Nina Goodey, Jennifer Krumins, Jay Singh

Title: **Expression, purification, and enzymatic profile of Brugia malayi dihydrofolate reductase**
Presenter: Romy Perez-Abraham Advisor: Dr. Nina Goodey

8. Chemistry and Biochemistry II – University Hall 2013
Moderator: Dr. Sandra Passhier

Title: **Binding of KL001 to CRY-DASH as a function of FAD oxidation state**
Presenter: Pamela Jumbo Cueva Advisor: Dr. Yvonne Gindt
Co-author(s): David Konas, Derek Darby, Yvonne Gindt

Title: **Modeling the formation of tetrahydropyranil radicals via hydrogen abstraction**
Presenter: Robert Booth Advisor: Dr. Marc Kasner

Title: **Investigation of pH effects on the formation and degradation of unusual oxidation states in Sufolobus solfataricus photolyase**
Presenter: Justin Vercellino Advisor: Dr. Yvonne Gindt
Co-author(s): Mengqi Li, Sudipto Munshi, Robert Stanley, Yvonne Gindt

9. Environment and Disasters – University Hall 2010
Moderator: Dr. Jennifer Krumins

Title: **Environmental correlates of ranavirus disease distribution in New Jersey**
Presenter: Adriana Messyasz Advisor: Dr. Lisa Hazard
Co-author(s): Lisa Hazard, Kirsten Monsen-Collar

Title: **Analysis of pliocene core DVDP-11 as evidence of a vegetated coastline**
Presenter: Christina Verhagen Advisor: Dr. Sandra Passchier

Title: **Transport and distribution of heavy metals in sediment in Bohai Bay**
Presenter: Yuanyi Li Advisor: Dr. Huan Feng
Co-author(s): Huan Feng, Dekui Yuan, Jing Nie

Oral and Multimedia Presentations

Block C: 5:00 pm – 5:55 pm

1. War and Violence – University Hall 2009

Moderator: Dr. Brian Smith

Title: **Causal effects of occupation: What drives individuals to violence?**
Presenter: Travis Gross Advisor: Dr. Tony Spanakos

Title: **Because God says so! How and why cult members fall victims of the Stockholm syndrome: The example of Jonestown**

Presenter: Seraphine Nzue-Agbadou Advisor: Dr. Lois Oppenheim
Co-author: Grace Agbadou

Title: **Democracy in the Middle East and its effect on human rights: An interdisciplinary analysis**

Presenter: Tamara Anaie Advisor: Dr. Ian Drake

Title: **The liberal and realist approach for war and peace**

Presenter: Valeria Valle Advisor: Dr. Brian Smith

2. Infants, Children, and Youth – University Hall 2008

Moderator: Dr. Laura Lakusta

Title: **The language of support in young children’s spontaneous speech**

Presenter: Maria Brucato Advisor: Dr. Laura Lakusta
Co-author(s): Amrita Bindra, Madalyn Polen, Laura Lakusta, Barbara Landau

Title: **Infants categorization of goal events**

Presenter: Danielle Spinelli Advisor: Dr. Laura Lakusta
Co-author: Samantha Farese

Title: **Thinking ahead: The role of goal selection in youth future mindedness**

Presenter: Marisa MacDonnell Advisor: Dr. Jennifer Urban
Co-author(s): Lisa Chauveron, Veronica Barrios, Lauren Gama, Victoria Illnick, Rebecca Jensen, Miriam Linver, Jennifer Urban

Title: **Predicting positive youth development from self regulation and sense of purpose in early adolescence**

Presenter: Lauren Gama Advisor: Dr. Miriam Linver
Co-author(s): Victoria Illnick, Marisa MacDonnell, Veronica Barrios, Lisa Chauveron, Rebecca Jensen ,
Miriam Linver, Jennifer Urban

3. Social Justice - University Hall 2008 **Moderator: Dr. Tony Spanakos**

Title: **Social justice in developmental science**
Presenter: Veronica Barrios Advisor: Dr. Jennifer Urban
Co-author(s): Marisa MacDonnell, Lisa Chauveron

Title: **Factors predicting unmet need and contraception use among married women in Pakistan**
Presenter: Muhammad Raza Advisor: Dr. Bradley van Eeden-Moorefield

Title: **The brics: A model for poverty reduction?**
Presenter: Matthew Zuccaro Advisor: Dr. Tony Spanakos

Title: **Two decades, two worlds - A look into the 1996 and 2016 Olympic games**
Presenter: Emma Cimo Advisor: Ms. Kelly Whiteside
Co-author: Fabricio Costa

4. Myth - University Hall 2042 **Moderator: Dr. Glen Gill**

Title: **Agricultural symbolism as the foundation of myth**
Presenter: Samantha Bohr Advisor: Dr. Glen Gill

Title: **Mythology and the human psyche: C.G. Jung on the rebirth of man**
Presenter: Ryan Oxild Advisor: Dr. Glen Gill

Title: **Classical and medieval mythologies through the lens of Freud**
Presenter: Daniel Salazar Advisor: Dr. Glen Gill

5. Linguistics - University Hall 2040 **Moderator: Dr. Anna Feldman**

Title: **Automatic annotation of game-changing events in an eSports corpus**
Presenter: Emily Olshefski Advisor: Dr. Anna Feldman

Title: **Unsupervised identification of idiomatic expressions**
Presenter: Hamza Jazmati Advisor(s): Dr. Anna Feldman, Dr. Jing Peng

Title: **The importance of visual prosody in sentiment discrimination**
Presenter: Joanne Quinn Advisor: Dr. Jonathan Howell

Title: **Analysis of novel alternative to targeting prosthetic joint infections in vitro**
Presenter: Christopher Chen Advisor: Dr. Lee Lee

9. Physics and Applied Math – University Hall 2013
Moderator: Dr. Eric Forgoston

Title: **Gravitational waves from eccentric binaries**
Presenter: Blake Moore Advisor: Dr. Marc Favata

Title: **"Early-warning signals" predictors of extinction events in dynamical models**
Presenter: Walter Ullon Advisor: Dr. Eric Forgoston

Title: **The ping-pong effect: Extinction dynamics in stochastic populations with migration**
Presenter: Alexa Aucoin Advisor: Dr. Eric Forgoston

Title: **Randić connectivity indices and energy of cycle based graphs**
Presenter: Jhonny Almeida Advisor: Dr. Aihua Li

Poster Presentations

Block A: 3:00 pm – 3:55 pm

(Alphabetical by Presenter's Last Name)

Graduate Award Nominees for Poster Presentations

Title: **Hostile intent cognitions as a moderator of negative life events and aggression in school-aged children (A37)**

Presenter: Evelyn Duran

Co-author(s): Holly Kobezak, Jenna Taffuri, Jeremy Fox, Julie Ryan, Leslie Halpern

Advisor: Dr. Jeremy Fox

Title: **Exploring variations in teacher and student agency in an out-of-school videogame-based mathematics class (A69)**

Presenter: Justin Seventko

Advisor: Dr. Steven Greenstein

Undergraduate Award Nominees for Poster Presentations

Title: **Unlawful enemy combatants: The rights of a faceless enemy (A66)**

Presenter: Jonathan Kyparissis

Advisor: Dr. Ian Drake

Title: **Music influences food selection (A68)**

Presenter: Sarah Lyons

Co-author(s): Alexandra Pyper, Tamaru Geller, Khadeeja Riaz, Scarlet Ruiz, Sara Panei

Advisor: Dr. Debra Zellner

Title: **Green tea polyphenols: A potential synergistic antibacterial agent in oral care products (A1)**

Presenter: Yasmeen Abboud

Co-author(s): Amy Lynn Melok, Siti Ayuni Mohamed Yossuf, Lee Lee, Christopher Chen

Advisor: Dr. Lee Lee

Title: **Comparison of turn alternation frequencies in nymph and adult Turkestan Cockroaches (*Blatta lateralis*) (A2)**

Presenter: Andrew Aboagye

Advisor: Dr. Scott Kight

Title: **Determining the optimal starting technique for stealing a base (A3)**

Presenter: Connor Abreu

Advisor: Dr. Steven Leigh

Title: **Macroinvertebrate assemblages in selected New Jersey springs (A4)**

Presenter: Yaritza Acosta-Caraballo

Advisor: Dr. Meiyin Wu

Title: **Class connect (A5)**
Presenter: Jeffrey Adamski
Co-author: Sebastian Kufel
Advisor: Dr. Christopher Leberknight

Title: **Model and analysis of statewide precipitation data over recent years (A6)**
Presenter: Sahar Ahmed
Advisor: Dr. Andrew McDougall

Title: **Examining how allosteric mutations affect ligand binding and specificity on dihydrofolate reductase (A7)**
Presenter: Melany Alfonso
Co-author(s): Nina Goodey, Romy Perez, Danielle Marie Le Roux
Advisor: Dr. Nina Goodey

Title: **Coping with loss and bereavement across long distances: Reflections of older immigrants (A8)**
Presenter: Eva Apelian
Co-author(s): Olena Nesteruk, Ronica Pangilinan
Advisor: Dr. Olena Nesteruk

Title: **Language development of goal spatial prepositions (A9)**
Presenter: Jessica Ardis
Co-author(s): Laura Lakusta, Amrita Bindra, Michelle Indarjit
Advisor: Dr. Laura Lakusta

Title: **Prevalence of the pathogens Ranavirus and Batrachochytrium dendrobatidis among Woodfrog populations in the Pinelands (A10)**
Presenter: Araba Assan
Co-author: Dwa'a Alkhalaf
Advisor: Dr. Kirsten Monsen-Collar

Title: **Green infrastructure (A11)**
Presenter: Mikayla Atkins
Advisor: Dr. Greg Pope

Title: **A potential role for 5,10-methenyltetrahydrofolate to protect flavin adenine dinucleotide in the DNA repair enzyme photolyase (A12)**
Presenter: Stephanie Avalos
Co-author: Johannes Schelvis
Advisor: Dr. Johannes Schelvis

Title: **Application of near surface geophysical methods to image water table response in an Alpine Meadow, Northern California (A13)**
Presenter: Mike Ayers
Co-author(s): Tanya Blacic, Mitchell Craig, Sarah Yarnell
Advisor: Dr. Tanya Blacic

Title: **Eye-tracking fixation variation and interaction between verb telicity and adverb type (A14)**
Presenter: Froogh Aziz
Advisor: Dr. David Townsend

Title: **Should college athletes receive compensation? (A15)**
Presenter: Kyle Banas
Advisor: Dr. Ian Drake

Title: **Impacts of gelatinous Zooplankton on pelagic community structure in Barnegat Bay, NJ (A16)**
Presenter: Christie Barry
Co-author(s): Paul Bologna, John Gaynor
Advisor: Dr. Paul Bologna

Title: **Coastal vulnerability of Atlantic County New Jersey (A17)**
Presenter: Anthony Bevacqua
Advisor: Dr. Danlin Yu

Title: **The ecology of St. John Bay mangrove-root fouling communities: Recovery of the epibiota community (A18)**
Presenter: Alan Buob
Co-author: Paul Bologna
Advisor: Dr. Paul Bologna

Title: **Comparison of DNA repair in mesophilic and thermophilic systems (A19)**
Presenter: Elizabeth Burger
Co-author: Yvonne Gindt
Advisor: Dr. Yvonne Gindt

Title: **Love that dirty water: Potential microbial diversity in on-street hot dog water (A20)**
Presenter: Nelson Casanova
Co-author(s): Jessica Rajchel, Annamaria De Bari, Julian Paul Keenan, Robert Meredith
Advisor: Dr. John Gaynor

Title: **MSU sustainability center: Inspired by earthship (A21)**
Presenter: Stephano Castro
Advisor: Dr. Robert Taylor

Title: **Photoactivation of CF3I in the presence of photoexcited Ru(bpy)₃⁺ (A22)**
Presenter: Julianna Chedid
Advisor: Dr. Hendrik Eshuis

Title: **Gun violence vs. state laws (A23)**
Presenter: Matthew Cheung
Co-author(s): Danlin Yu, Jon Zawacki
Advisor: Dr. Greg Pope

Title: **Mangroves are dying (A24)**

Presenter: Matthew Cheung

Co-author: Jorge Trueba

Advisor: Dr. Jorge Trueba

Title: **Preservation of ancient barriers on the continental shelf: Insights from a simple morphodynamic model (A25)**

Presenter: Daniel Ciarletta

Co-author: Jorge Trueba

Advisor: Dr. Jorge Trueba

Title: **Investigation of the mechanistic switch in VcCry1 (A26)**

Presenter: Gabrielle Connolly

Co-author: Yvonne Gindt

Advisor: Dr. Yvonne Gindt

Title: **Student enrollment by county and geographic distance decay functions (A27)**

Presenter: Isamar Cortes

Co-author(s): Roy Mateus, Mauricio Estaban Garcia, Rachel Ann Preece, Arianna Qira, Samiyah Roberts, Colin Trevors, Katrina Villani, et al.

Advisor: Dr. Greg Pope

Title: **Can the use of fuel-efficient (environmentally friendly) automobiles vary in Northern NJ counties? (A28)**

Presenter: Isamar Cortes

Advisor: Dr. Greg Pope

Title: **Hyaluronidase in the venom of the Sea Nettle (*Chrysaora quinquecirrha*) (A29)**

Presenter: Zachary Cropley

Advisor: Dr. John Gaynor

Title: **Does social context influence positional, feeding and aggressive behavior in Turkestan Cockroach Nymphs, *Blatta lateralis*? (A30)**

Presenter: Peter Cruz

Advisor: Dr. Scott Kight

Title: **Do secondary school mathematics textbooks provide opportunities for realistic problem-solving? (A31)**

Presenter: Mary Dalton

Advisor: Dr. Eileen Fernandez

Title: **The euphoric affect of the anti drug abuse act (A32)**

Presenter: Rashad Days

Advisor: Dr. Ian Drake

Title: **Development of negative mode free radical activated glycan structure elucidation reagents (A33)**

Presenter: Nikunj Desai

Co-author: Jungeun Lee

Advisor: Dr. Jinshan Gao

Title: **A comparative analysis of the ZAP-70 gene in mammals (A34)**

Presenter: Rebecca Dhawan

Co-author: Robert Meredith

Advisor: Dr. Robert Meredith

Title: **Female Genital Mutilation in the U.S.: Scope and prevention methods (A35)**

Presenter: Mame Kani Diop

Advisor: Dr. Pearl Stewart

Title: **Evaluating the consistency of soccer match analysis techniques (A36)**

Presenter: Jeffrey Duarte

Co-author: Nicolas Barrios

Advisor: Dr. Steven Leigh

Title: **An investigation of automatic access to spatial representations of numbers (A38)**

Presenter: Patrick Dwyer

Co-author: Yoav Ariei

Advisor: Dr. Yoav Ariei

Title: **Functional consequences of ICER ubiquitination (A39)**

Presenter: Dina Edani

Co-author(s): Rossara Nunez, Joseph Bulatowicz

Advisor: Dr. Carlos Molina

Title: **Characterization of isolated actinobacteriophage using polymerase chain reaction (A40)**

Presenter: Schyler Edwards

Advisor: Dr. Sandra Adams

Title: **A tool support for managing implicit requirements using common sense knowledge (A41)**

Presenter: Onyeka Emebo

Co-author: Aparna Varde

Advisor: Dr. Aparna Varde

Title: **Annotation of novel Mycobacterium and Arthrobacter bacteriophage genomes from New Jersey soil (A42)**

Presenter: Tony Feghali

Co-author(s): Yesenia Acosta, Mohamad Abboud, Jennifer Michelle Aguirre, Omran Ahmadi, Edward Shamarr Anderson, Anthony Arena, Joshua Bacatan, et al.

Advisor: Dr. Kirsten Monsen-Collar

Title: **French language, identity, and discrimination (A43)**
Presenter: Dustine Finck
Advisor: Ms. Anne-Caroline Sieffert

Title: **Sharing lab and learning successes: The art of public relations (A44)**
Presenter: Lauren Gama
Co-author(s): Lisa Chauveron, Rebecca Jensen, Marisa MacDonnell, Veronica Barrios, Victoria Illnick, Jennifer Brown Urban, Miriam Linver
Advisor: Dr. Miriam Linver

Title: **An examination of the sociodemographic and health determinants of major depressive disorders in black women using NHANES data (A45)**
Presenter: Michelle Gardner
Co-author(s): Ndidiamaka Amutah, Laurén Doamekpor
Advisor: Dr. Ndidiamaka Amutah

Title: **Effects of World Trade Center 9-11 particulate matter on mitochondrial damage seen in human lung cell in vitro (A46)**
Presenter: Vern Gatson
Co-author(s): William Shergalis, Christian Gonzales, Rebekah Madrid, Kentrisha Lubin, Momna Hassan
Advisor: Dr. Ann Marie DiLorenzo

Title: **Computational techniques for measuring internet censorship (A47)**
Presenter: Zhisong Ge
Advisor: Dr. Christopher Leberknight

Title: **New molybdenum bronze phases (A48)**
Presenter: Brian Giraldo
Co-author(s): Lynn Schneemeyer, Theo Siegrist, Tiglet Besara
Advisor: Dr. Lynn Schneemeyer

Title: **A hands-on application-based tool for STEM students to understand differentiation (A49)**
Presenter: Briana Goncalves
Co-author(s): Ausamah Hobbi, Amir Golnabi
Advisor: Dr. Amir Golnabi

Title: **Isolation and characterization of novel mycobacterium smegmatis and arthrobacter sp. bacteriophage from New Jersey soil (A50)**
Presenter: Wedad Haddabeh
Co-author(s): Yesenia Acosta, Mohamad Abboud, Jennifer Aguirre, Omran Ahmadi, Edward Anderson, Anthony Arena, Joshua Bacatan, et al.
Advisor: Dr. Sandra Adams

Title: **Do public prisons achieve the goals of the criminal justice system better than private, for-profit prisons? (A51)**
Presenter: Christopher Halleran
Advisor: Dr. Ian Drake

Title: **Investigating the correlation between cognitive fatigue and brain iron deposition in Basal Ganglia in Multiple Sclerosis (A52)**
 Presenter: Emilyrose Havrilla
 Co-author(s): Sarah Wood, Ekaterina Dobryakova, Zhiguo Jiang, Bing Yao
 Advisor: Dr. Josh Sandry

Title: **Neuroscience and judging (A53)**
 Presenter: Markil Howard
 Advisor: Dr. Ian Drake

Title: **Re-inventing the (pottery) wheel: Ceramic production in ancient Greece (A54)**
 Presenter: Sophia Hudzik
 Advisor: Dr. Deborah Chatr Aryamontri

Title: **Groundwater depletion in aquifers of the New Jersey coastal plain (A55)**
 Presenter: Michael Johnson
 Advisor: Dr. Greg Pope

Title: **Investigating cervical spine motion while transferring football players to a stretcher (A56)**
 Presenter: Jennifer Kalash
 Co-author: Tyler Melnicove
 Advisor: Dr. Steven Leigh

Title: **Measuring vortex length through numerical simulation of a flow channel (A57)**
 Presenter: Matt Karlson
 Advisor: Dr. Bogdan Nita

Title: **Determining late pleistocene to early holocene deglaciation patterns within the Hanö Bay of the Baltic Sea through sedimentological core sample analysis (A58)**
 Presenter: April Kelly
 Co-author: Sandra Passchier
 Advisor: Dr. Sandra Passchier

Title: **Socioeconomic status and malnutrition: A global approach (A59)**
 Presenter: Ora Kemp
 Advisor: Dr. Amanda Birnbaum

Title: **Molecular cloning and expression of chrysaoralin: A novel pore-forming toxin from jellyfish venom (A60)**
 Presenter: Anup Khanal
 Co-author: George Shchegolev
 Advisor: Dr. John Gaynor

Title: **Meaning behind English intonation for native Indonesian L2 learners (A61)**
 Presenter: Uswatun Khasanah
 Co-author: Gina Cordero
 Advisor: Dr. Jonathan Howell

Title: **Coupled modeling of coastal dunes and socio-economic impacts (A62)**
Presenter: Jesse Kolodin
Advisor: Dr. Jorge Trueba

Title: **Salinity tolerance of two-lined salamanders (A63)**
Presenter: Kelly Krolik
Advisor: Dr. Lisa Hazard

Title: **Grain size and organic geochemistry of the Kattegat sediment to determine paleoenvironments of the last interglacial-glacial cycle (A64)**
Presenter: Taylor Krolik
Advisor: Dr. Sandra Passchier

Title: **The debate on immunizations (A65)**
Presenter: Mildred Kroung
Advisor: Dr. Ian Drake

Poster Presentations

Block B: 6:00 pm – 6:55 pm

(Alphabetical by Presenter's Last Name)

Title: **Maximum or minimum RCI values of graphs consisting of trees with a hexagonal base (B1)**
Presenter: Giancarlo Labruna
Advisor: Dr. Aihua Li

Title: **A biometric analysis of mate choice copying in people (B2)**
Presenter: Jonathan Lenhardt
Advisor: Dr. Peter Vietze

Title: **The kinetics of the formation and degradation of interesting oxidation states found with *sufolobus solfataricus* photolyase (B3)**
Presenter: Mengqi Li
Co-author(s): Justin Vercellino, Sudipto Munshi, Robert Stanley, Yvonne Gindt
Advisor: Dr. Yvonne Gindt

Title: **Transport and distribution of heavy metals in sediment in Bohai Bay (B4)**
Presenter: Yuanyi Li
Co-author(s): Huan Feng, Dekui Yuan, Jing Nie
Advisor: Dr. Huan Feng

Title: **Diadema antillarum population density, size distribution, and biomass in an UNESCO biosphere reserve (B5)**
Presenter: Lauren Liddy
Advisor: Dr. Paul Bologna

Title: **Geochemistry of the east antarctic margin spanning the eocene oligocene transition (B6)**
Presenter: Jennifer Light
Co-author: Sandra Passchier
Advisor: Dr. Sandra Passchier

Title: **The process of the creation of the play-based observation of development and interaction tool at the Center for Autism and Early Childhood Mental Health (B7)**
Presenter: Andrew Lokai
Co-author(s): Alison Stratthaus, Keri Georgewitz, Jessica Maneri
Advisor: Kaitlin Mulcahy

Title: **Structural characterization of thymine cyclobutane dimers in solution (B8)**
Presenter: Michael Lorence
Advisor: Dr. Johannes Schelvis

Title: **Comparative analysis of COL1A1 gene in different mammals (B9)**
Presenter: Israa Maani
Co-author: Robert Meredith
Advisor: Dr. Robert Meredith

Title: **Police attitudes in a new era: A look at how the new millennium has changed the New York tri-state area's police (B10)**
Presenter: Tara Mahady
Advisor: Dr. Christopher Donoghue

Title: **Effect of fertilization on native and non-native wetland plants (B11)**
Presenter: Martha Mahady
Advisor: Dr. Dirk Vanderklein

Title: **Benefit-based tree and valuation of an urban Forest City park system; Columbus Park-Hackensack NJ (B12)**
Presenter: Roy Mateus
Advisor: Dr. Greg Pope

Title: **United States and FIFA's World Cup corruption (B13)**
Presenter: Justin McAndrew
Advisor: Dr. Ian Drake

Title: **The depreciation of property values and home sales caused by vacant and abandoned properties in the city of Newark, New Jersey (B14)**
Presenter: Emily McIntosh
Advisor: Dr. Greg Pope

Title: **Using software defined radio to test the internet of things (B15)**
Presenter: Kevin Miller
Advisor: Dr. Christopher Leberknight

Title: **Designing a windwalker: An undergraduate open-ended physics project (B16)**
Presenter: Ceire Monahan
Advisor: Dr. Mika Munakata

Title: **ELLS and English word stress (B17)**
Presenter: Terra Nicoll
Co-author: Emily Peterman
Advisor: Dr. Jonathan Howell

Title: **The effect of pH and charybdotoxin on growth of human glioma cell lines (B18)**
Presenter: Chelsea O'Koren
Co-author(s): Mike Young, Vladislav Snitsarev, Elena Petroff
Advisor: Dr. Elena Petroff

Title: **Sequence variants of the pathogen ranavirus isolated from northeastern amphibians (B19)**
Presenter: Nadeem Obaydou
Co-author(s): Kirsten Monsen-Collar, Lisa Hazard, Fathima Idris
Advisor: Dr. Kirsten Monsen-Collar

Title: **Lipophilic green tea polyphenol can inhibit bacteria growth and endospore formation in food and milk (B20)**
Presenter: Chinweude Okani
Co-author(s): Bushra Ali, Brianne Cravello, Lee Lee
Advisor: Dr. Lee Lee

Title: **Vaccines (B21)**
Presenter: Pasquale Pascarella
Advisor: Dr. Ian Drake

Title: **Episodic memory performance in inconsistent-relative to consistent right-handers (B22)**
Presenter: Neil Patel
Co-author(s): Ruth Propper, Christophe Carlei, Stephen Christman
Advisor: Dr. Ruth Propper

Title: **Recreational beach erosion on the New Jersey shoreline (B23)**
Presenter: Rachel Preece
Advisor: Dr. Greg Pope

Title: **Characterization of a parasitic anti-stress protein kinase, SEK-1, from Brugia malayi (B24)**
Presenter: Monika Prorok
Co-author(s): Agnieszka Chojnowski, Tamara Kreiss
Advisor: Dr. John Siekierka

- Title: **Grazing potential of sparisoma radians on native seagrass (*Thalassia testudinum*) and invasive seagrass (*Halophila stipulacea*) in St. John, USVI (B25)**
 Presenter: Elizabeth Pudlak
 Advisor: Dr. Paul Bologna
- Title: **New rock climbing recreation areas: Piecing together data to find new crags (B26)**
 Presenter: Arianna Qira
 Advisor: Dr. Greg Pope
- Title: **Using the chain rule to develop secondary school teachers' mathematical knowledge for teaching, focused on the rate of change: Secondary mathematics teachers' knowledge of the chain rule and its' impact on their teaching of the rate of change (B27)**
 Presenter: Zareen Rahman
 Co-author(s): Debasmitta Basu, Karmen Yu
 Advisor: Dr. Eileen Murray
- Title: **Green tea polyphenols can inhibit endospore sporulation in *Bacillus* sp. (B28)**
 Presenter: Richa Rana
 Co-author(s): Ujash Patel, Mohammad Khan
 Advisor: Dr. Lee Lee
- Title: **Genetic diversity of red mangroves (*Rhizophora mangle*) in a UNESCO biosphere reserve, St. John, USVI (B29)**
 Presenter: Dena Restaino
 Co-author(s): Paul Bologna, James Campanella
 Advisor: Dr. Paul Bologna
- Title: **Rome in America: How ancient roman law has influenced modern American law (B30)**
 Presenter: Christian Rivera
 Advisor: Dr. Ian Drake
- Title: **Project DASH: (Divas against the spread of HIV/AIDS) results of a pilot study on HIV risk and mother-daughter communication among African American daughters with HIV+ mothers (B31)**
 Presenter: Monica Rodriguez
 Co-author(s): Ndidiyama Amutah, Rodney Hammond, Lauren Ramos, Patryce Burgess, Winston Abara, Debbie Humphries, et al.
 Advisor: Dr. Ndidiyama Amutah
- Title: **Piercing the power of populism: Constructing judicial empowerment and independence in Latin America (B32)**
 Presenter: Mishella Romo
 Advisor: Dr. Tony Spanakos
- Title: **Multidisciplinary environmental assessment of Greenwood Lake (B33)**
 Presenter: Alessandra Rossi
 Co-author(s): Kevin Olsen, Bianca Wentzell, Meiyin Wu
 Advisor: Dr. Meiyin Wu

Title: **Green tea polyphenols with antibiotics reverse the biofilm formation in bacteria (B34)**
 Presenter: Angela Salazar
 Co-author(s): Siti Ayuni Mohamed Yussof, Amy Lynn Melok, Lee Lee, Shrameeta Shinde, Giselle Lalata
 Advisor: Dr. Lee Lee

Title: **In vitro synergistic antiviral activity of epigallocatechin gallate-strearate and acyclovir on herpes simplex virus types 1 and 2 in vero cells (B35)**
 Presenter: Bianca Sanabria
 Advisor: Dr. Sandra Adams

Title: **A legal dissection: The national debate to establish a federal mandate to medically-accurate and comprehensive sex education within a multicultural society (B36)**
 Presenter: Montana Scholz
 Advisor: Dr. Ian Drake

Title: **Stability study of green tea polyphenols EGCG and EGCG-S as antimicrobial agents (B37)**
 Presenter: Emma Seidman
 Co-author(s): Brianne Cravello, Yasmeen Abboud
 Advisor: Dr. Lee Lee

Title: **The curvilinear effects of extroversion on subjective and objective sales outcomes (B38)**
 Presenter: William Sevcik
 Advisor: Dr. Daniel Simonet

Title: **Understanding the recreational harvest of snapping turtles in New Jersey (B39)**
 Presenter: Natalie Sherwood
 Co-author: Pankaj Lal
 Advisor: Dr. Meiyin Wu

Title: **Numerical detection of wave breaking in the short-pulse equation (B40)**
 Presenter: Jeffrey Slepoy
 Advisor: Dr. David Trubatch

Title: **New filter media for urban stormwater management (B41)**
 Presenter: Hanieh Soleimanifar
 Co-author: Yang Deng
 Advisor: Dr. Yang Deng

Title: **A Bioinformatics Study On The Noncovalent Interactions Between The Tea Polyphenol, EGCG-S, And HSV-2 Glycoproteins (B42)**
 Presenter: Peter Stamos
 Advisor: Dr. Sandra Adams

Title: **Combining auditory and visual information in object discrimination: independent vs. integration decision models (B43)**
 Presenter: William Stoll
 Co-author: Yoav ArieH
 Advisor: Dr. Yoav ArieH

Title: **The transcription and translation of lysin A and lysin B (B44)**
 Presenter: Nandini Surendranathan
 Advisor: Dr. Quinn Vega

Title: **Arcade style game development (B45)**
 Presenter: Eric Svitok
 Advisor: Dr. George Antoniou

Title: **Screening transgenic zebrafish (Danio rerio) expressing EGFP under an ovarian specific promoter (B46)**
 Presenter: Aneta Szpernoga
 Advisor: Dr. Carlos Molina

Title: **Progress on the study of substrate specificity in indole-3-glycerol phosphate synthase (B47)**
 Presenter: Jessica Tan
 Co-author: Kate Pinsley
 Advisor: Dr. David Konas

Title: **The effects of EGCG-s on gene expression of HSV-1 and HSV-2 (B48)**
 Presenter: Mariam Tariq
 Advisor: Dr. Sandra Adams

Title: **Educational access, the community college, and social mobility: Questioning the nature of educational equality and equity (B49)**
 Presenter: Ricardo Taveras
 Advisor: Ms. Marissa Silverman

Title: **Do giant waterbugs, belostoma flumineum say, exhibit turn alternation behavior in response to indirect predator cues? (B50)**
 Presenter: Samantha Tedesco
 Co-author: Johnny Hoang
 Advisor: Dr. Scott Kight

Title: **Investigating the effects of dance training on performance in two dance leaps (B51)**
 Presenter: Brittany Tierney
 Advisor: Dr. Steven Leigh

Title: **Expression, purification, and characterization of W. bancrofti DHFR as a drug target in treating lymphatic filariasis (B52)**
 Presenter: Andrew Tobias
 Co-author(s): Ulrich Gubler, Nina Goodey
 Advisor: Dr. Nina Goodey

Title: Sustainability: A new aspect of golf course management (B53)
Presenter: Colin Trevors
Advisor: Dr. Greg Pope

Title: Bark pitch and the perception of dog size: The effect of congruent and incongruent sounds (B54)
Presenter: Michael Vazquez
Co-author(s): Alexandra Medina, Yoav Arieih
Advisor: Dr. Yoav Arieih

Title: PiMesh - implementation of mesh network on multiple raspberry pi's (B55)
Presenter: Raju Vemula
Advisor: Dr. Christopher Leberknight

Title: In vitro antiviral activity of black tea extract (BTE) on sindbis virus in vero cells (B56)
Presenter: Jose Villagomez
Advisor: Dr. Sandra Adams

Title: Designing a learning trajectory for developing students' thinking of dynamic measurement (B57)
Presenter: Madhavi Vishnubhotla
Co-author: Debasmita Basu
Advisor: Dr. Nicole Panorkou

Title: Infrastructure of nearby New Jersey state parks (B58)
Presenter: Frank Vocaturo
Advisor: Dr. Greg Pope

Title: Density and distribution of shallow Caribbean porifera from an UNESCO Biosphere Reserve in St. John, USVI (B59)
Presenter: Patrick Vojnyk
Advisor: Dr. Paul Bologna

Title: The mechanism of inhibition of botulinum neurotoxin type A by two novel quinoline compounds (B60)
Presenter: Yacoba Vroom Teschemaker Minnow
Co-author(s): David Rotella, Ronald Goldberg, John Siekierka, Nina Goodey
Advisor: Dr. Nina Goodey

Title: Promising novel method intreating prosthetic joint infections (B61)
Presenter: Steve Williams
Co-author(s): Shanice Otieno, Christopher Chen, Lee Lee
Advisor: Dr. Lee Lee

Title: International students' life; A review of issues and potential solutions (B62)
Presenter: Hillman Wirawan
Co-author: Kadek Rahayu
Advisor: Dr. Lisa Lieberman

Title: **Temporal framing (B63)**

Presenter: Andrew Wolfarth

Advisor: Dr. David Townsend

Title: **Alcohol use and non-medical use of prescription drugs to cope with posttraumatic stress: An analysis of Hurricane Sandy survivors (B64)**

Presenter: Megan Young

Advisor: Dr. Sarah Lowe

Title: **Analysis of roman mosaic glass tesserae, from the Villa of the Antonines, using scanning electron microscopy and energy-dispersive X-ray techniques (B65)**

Presenter: Nicolas Zarro

Co-author(s): Deborah Chatr Aryamontri, Greg Pope, Matthew Gorrington

Advisor: Dr. Greg Pope

Title: **Gender differences in attitudes, knowledge, and HIV testing in the Départements of Haiti: Insights from the 2012 demographic and health survey (B66)**

Presenter: Jonathan Zipf

Advisor: Dr. Sangeeta Parashar

Title: **Race bias in decisions to shoot: Physiological responses to immersive and non-immersive experimental shooter tasks (B67)**

Presenter: Chelsea Osuji

Advisor: Dr. Joseph Cesario

Title: **Assessment and target selection for a moderate-to-severe phonological disorder: Advantages of nonlinear analysis (B68)**

Presenter: Christa Crosby

Advisor: Dr. Elaine Hitchcock

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ACKNOWLEDGEMENTS

Many faculty, staff and students have contributed to the success of this event. The Organizing Committee would like to acknowledge the special contributions of the following:

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