

**13<sup>th</sup> Annual ACMAP Conference**  
**Scientific Program**  
**October 3 - 6, 2024**  
 Times are in Central Standard Time  
 (CST)

**Day 1: October 3, 2024 (Thursday)**

**Prairie View A&M University**

2:00 PM – 6:00 PM		Registration
4:30 PM – 5:00 PM	<b>Welcome</b>	<p><b>Conference Program Co-Chairs:</b>          Aruna Weerasooriya, Ph.D. Prairie View A&amp;M University          Diana Roopchand, Ph.D., Rutgers University</p> <p><b>Vice President, Research &amp; Innovation, Prairie View A&amp;M University:</b>          Magesh Rajan, Ph.D.</p> <p><b>Dean, College of Agriculture Food &amp; Natural Resources, Prairie View A&amp;M University:</b>          Gerard D’Souza, Ph.D.</p> <p><b>President ACMAP:</b>          Nirmal Joshee, Ph.D., Fort Valley State University</p> <p><b>Executive Director ACMAP:</b>          Fabricio Medina-Bolivar, Ph.D., Arkansas State University</p>
5:00 PM – 6:00 PM	<b>Plenary</b>	<p><b>O1. Bhimu Patil, Ph.D.</b>          Texas A&amp;M University, USA</p> <p style="text-align: center;"><b>“Climate resilience and its influence on bioactive compounds in fruits and vegetables: Implications for health and gut microbiota”</b></p>
6:15 PM – 7:30 PM	<b>Reception</b>	Reception dinner
7:30 PM – 8:00 PM	<b>Meeting</b>	ACMAP Board Meeting

**Day 2: October 4, 2024 (Friday)**

**Prairie View A&M University**

8:00 AM – 8:30 AM	<b>Registration</b>	
	<b>Session I</b>	<b>Ethnobotany and Bioprospecting</b>
	<b>Chair</b>	<b>Nirmal Joshee</b> Fort Valley State University, USA
	<b>Co-chair</b>	<b>Surendra Surujdeo-Maharaj</b> Prairie View A&M University, USA
8:30 AM – 9:00 AM	<b>Keynote</b>	<b>O2. Seethapathy G Saroja</b> Fort Valley State University, USA  “Ethnobotany of dioecious species and future perspectives in bioprospecting”
9:00 AM – 9:20 AM	<b>Invited I</b>	<b>O3. Emma Browning,</b> Robins Air Force Base, USA  “Conserving the proposed federally threatened Ocmulgee skullcap ( <i>Scutellaria ocmulgee</i> ) on Robins Air Force Base, Georgia”
9:20 AM – 9:40 AM	<b>Invited II</b>	<b>O4. Joshua Kellogg</b> Penn State University, USA  “A double-edged sword? Participatory research into traditional plant benefits and toxicity”
9:40 AM – 9:55 AM	<b>Oral I</b>	<b>O5. Nurya Abdurhman Birhanu</b> Wollo University, Ethiopia  “Ethnobotany and DNA barcoding of medicinal and cosmetic plants in Kalu and Bati Districts of Amhara Region, Ethiopia”
9:55 AM – 10:10 AM	<b>Oral II</b>	<b>O6. K. P. N. G. Kanuwana</b> Gampaha Wickramarachchi University of Indigenous Medicine, Sri Lanka  “Heritage of healing, use of medicinal plants in treating envenoming- case of villages in the dry zone tank cascade systems in Sri Lanka with reference to “Bellankadawala” cascade?”
10:10 AM – 10:30 AM	<b>Coffee Break</b>	
	<b>Session</b>	<b>Chemistry of Medical Plants</b>

	<b>II</b> <b>Chair</b>	<b>Joshua Kellogg</b> Penn State University, USA
<b>10:30 AM–11:00 AM</b>	<b>Keynote</b>	<b>O7. Kevin Tidgewell</b> University of Kentucky, USA  “Investigation of the secondary metabolites of Cameroonian plants used as antinociceptives”
<b>11:00 AM–11:20 AM</b>	<b>Invited I</b>	<b>O8. Khumoekae Richard</b> Wister Institute, USA  “Potent HIV-1 latency reversal by an African medicinal plant extract, <i>Croton megalobotrys</i> , in primary cells from people living with HIV and humanized mice”
<b>11:20 AM–11:40 AM</b>	<b>Invited II</b>	<b>O9. Melanie Rodriguez</b> University of Texas Southwestern Medical Center  “Steroid based synthesis of a dual-PROTAC targeting oncogenic and resistance drivers in metastatic castration resistant prostate cancer (mCRPC)”
<b>11:40 AM–11:55 AM</b>	<b>Oral I</b>	<b>O10. Edward Okey</b> Federal Polytechnic University, Nigeria  “Phyto-GCMS analysis on leaves and stems of <i>Triumfetta tomentosa</i> Boj and <i>Triumfetta rhomboidea</i> Jacq.”
<b>11:55 AM –12:10 PM</b>	<b>Oral II</b>	<b>O11. Wesley Gray</b> Southern University and A&M College, USA  “Isolation and purification of antimicrobial activity and RNASeq exploration induced by <i>Cola acuminata</i> ”
<b>12:10 PM – 1:10 PM</b>	<b>Lunch</b>  Workshop: “The Balancing Act: Life, Career, and the Pursuit of Happiness in Science”  Andrea Doseff, Ph.D. (Michigan State University, USA) Sepideh Mohammadhosseinpour, Ph.D. (MD Anderson Cancer Center, USA)	

	<b>Session III</b>	<b>Hemp and Medical Cannabis</b>
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	<b>Chair</b>	<b>Diana Roopchand</b> Rutgers University, USA
	<b>Co-chair</b>	<b>Aruna Weerasooriya</b> Prairie View A&M University, USA
<b>1:10 PM – 1:40 PM</b>	<b>Keynote</b>	<b>O12. Youbin Zheng</b> University of Guelph, Canada  “ <b>Medicinal Cannabis production in controlled environments</b> ”
<b>1:40 PM – 2:00 PM</b>	<b>Invited I</b>	<b>O13. Josee Guindon</b> Texas Tech University Health Sciences Center, USA  “ <b>Cannabinoids for the treatment of chronic pain and cancer: new insights and mechanisms of action</b> ”
<b>2:00 PM – 2:20 PM</b>	<b>Invited II</b>	<b>O14. Frederik Stevens</b> Oregon State University, USA  <b>TBD</b>
<b>2:20 PM – 2:35 PM</b>	<b>Oral I</b>	<b>O15. Wesley Raup-Konsavage</b> Penn State College of Medicine, USA  “ <b>High cannabigerol hemp extract moderates colitis and modulates the microbiome in an inflammatory bowel disease model</b> ”
<b>2:35 PM – 2:50 PM</b>	<b>Oral II</b>	<b>O16. Negusse F. Kidane</b> Prairie View A&M University, USA  “ <b>Evaluation the nutritional profile of different hemp plant biomass and spent hemp biomass (SHB) as a potential feed supplement for goats</b> ”

<b>2:50 PM – 3:10 PM</b>	<b>Coffee Break</b>
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	<b>Session IV</b>	<b>Production, Strategies, and Challenges</b>
	<b>Chair</b>	<b>Ram Ray</b> Prairie View A&M University, USA
	<b>Co-Chair</b>	<b>Sachin Gadekar</b> Prairie View A&M University Algae Center of Excellence - The Algae Foundation, USA

3:10 PM – 3:40 PM	Keynote	<b>O17. Ram Ray</b> Prairie View A&M University, USA  “Climate change impact on medicinal plants growth and spatial distributions”
3:40 PM – 4:00 PM	Invited I	<b>O18. Abdul L Khan</b> University of Houston, USA  “Frankincense biosynthesis pathway: a lead for new medicinal products development”
4:00 PM – 4:20 PM	Invited II	<b>O19. Russell A. Jessup</b> Texas A&M University, USA  “The Hemp Conversion Program: Developing a public hemp germplasm collection with maximized genetic diversity”
4:20 PM – 4:35 PM	Oral I	<b>O20. Sirimal Premakumara, Ph.D.</b> University of Colombo, SRI LANKA  “Multifunctional health food/supplement properties of Ceylon cinnamon <i>Cinnamomum zeylanicum</i> ”
4:35 PM – 4:50 PM	Oral II	<b>O21. Samikshya Bhattarai</b> Texas A&M University, USA  “Supplemental lighting influences the antioxidant content and associated kinetic attributes in greenhouse-grown tomatoes”
5:00 PM – 7:00 PM	Poster Presentation	

### Day 3: October 5, 2026 (Saturday)

Prairie View A&M University

8:00 AM – 8:30 AM	Registration	
	Session V	Bioactive Compounds of Plants and Their Roles in Human Health I–Cancer

	<b>Chair</b>	<b>Jeremy Johnson</b> University of Illinois Chicago, USA
<b>8:30 AM – 9:00 AM</b>	<b>Keynote</b>	<b>O22. Chendil Damodaran</b> Texas A&M University  “A modified natural small molecule for triple-negative Breast cancer”
<b>9:00 AM – 9:20 AM</b>	<b>Invited I</b>	<b>O23. Bal L. Lokeshwar</b> Georgia Cancer Center at Augusta University  “Molecular Hybrids of Natural Products against multidrug-resistant advanced bladder cancers”
<b>9:20 AM – 9:40 AM</b>	<b>Invited II</b>	<b>O24. C.V. Rao</b> Oklahoma University College of Medicine  “Colorectal cancer interception by medicinally active plant compounds”
<b>9:40 AM – 9:55 AM</b>	<b>Oral I</b>	<b>O25. Srinandhini Chandran</b> University of Houston, USA  “Immunostimulatory and anti-cancer effects of <i>Calocybe indica</i> mushroom”
<b>9:55 AM – 10:10 AM</b>	<b>Oral II</b>	<b>O26. Ahmed Darwish</b> Texas A&M University, USA  “Bioactive metabolites and cytotoxicity for eight blueberry cultivars”
<b>10:10 AM–10:30 AM</b>	<b>Coffee Break</b>	

	<b>Session VI</b>	<b>Bioactive Compounds of Plants and Their Roles in Human Health II – Inflammatory Diseases and Beyond</b>
	<b>Chair</b>	<b>Andrea Doseff</b> Michigan State University, USA
	<b>Co-chair</b>	<b>Sepideh Mohammadhosseinpour</b> MD Anderson Cancer Center, USA

10:30 AM–11:00 AM	Keynote	<b>O27. Susanne Talcott</b> Texas A&M University, USA  “Microbiome-polyphenol-host Interactions in obesity – The gut-brain axis”
11:00 AM–11:20 AM	Invited I	<b>O28. Dingbo (Daniel) Lin</b> Oklahoma State University, USA  “Zeaxanthin metabolism in type 2 diabetes: A microbiome perspective”
11:20 AM–11:40 AM	Invited II	<b>O29. Andrea Doseff</b> Michigan State University, USA  “Flavonoids as biomedicines: Regulation of microbiome-immune cell function in obesity-induced fatty liver disease”
11:40 AM–11:55 AM	Oral I	<b>O30. Murendeni Nethengwe</b> Cape Peninsula University of Technology, South Africa  “Potential impact of <i>Anchomanes difformis</i> aqueous extract on testes and epididymis of diabetic animal model”
11:55 AM –12:10 PM	Oral II	<b>O31. Ravi Kiran</b> Women’s College, Narayanaguda, Hyderabad-500027, Telangana, India.  “Hepatoprotective efficacy of extracts and bioactives from <i>Curcuma longa</i> , <i>Prunus amygdalus</i> and <i>Pennisetum glaucum L</i> ”.
12:10 PM – 1:00 PM	<b>Panel Discussion</b>  <b>Cannabis Fiber Research</b>  <b>Andrew Pardo, Ph.D.</b> Bayou City Hemp Co.	
1:00 PM – 2:00 PM	<b>Lunch</b>	
	<b>Session VII</b>	<b>Medicinal / Functional Foods</b>
	<b>Chair</b>	<b>Rao Mentreddy</b> Alabama A&M University, USA
	<b>Co-chair</b>	<b>Sun-Ok Lee</b> University of Arkansas, USA

2:00 PM – 2:30 PM	Keynote	<b>O32. Charles Cantrell</b> USDA-ARS-NPURU, USA  “Capsiate enriched extracts from <i>Capsicum</i> sp. fruit and its associated pharmacological activities”
2:30 PM – 2:50 PM	Invited I	<b>O33. Diana N. Obanda</b> University of Maryland, USA  “ <i>Urtica dioica</i> : A Functional food for protection against dysbiosis, Inflammation, insulin resistance and obesity”
2:50 PM – 3:10 PM	Invited II	<b>O34. Srinivasa Rao Mentreddy</b> Alabama A&M University, USA  “Brassicas: What makes them functional foods”

3:10 PM – 3:25 PM	Oral I	<b>O35. Chamila VL Jayasinghe</b> Wayamba University of Sri Lanka, Sri Lanka  “Hypoglycaemic effect of <i>Coccinia grandis</i> leaves extract encapsulated herbal porridge”
3:25 PM – 3:40 PM	Oral II	<b>O36. Vikas Dadwal</b> Texas A&M University, USA  “Synergistic Effects of Citrus Terpenoid and Dietary Fibers on Lactobacillus Growth and Metabolite Production”
3:40 PM – 4:00 PM	<b>Coffee Break</b>	
	<b>Session VIII</b>	<b>Emerging technologies in medicinal plant research</b>
	<b>Chair</b>	<b>Alok Arun</b> California State University Stanislaus, USA
	<b>Co-Chair</b>	<b>Fabricio Medina-Bolivar</b> Arkansas State University, USA
4:00 PM – 4:30 PM	Keynote	<b>O37. Nazım Şekeroğlu, Ph.D.</b> Gaziantep University, Turkey  “Novel natural compounds with anti-inflammatory activities utilizing crop byproducts from Turkey”



4:30 PM – 4:50 PM	Invited I	<b>O38.Sonia Peter, Ph.D</b> Biocultural Education and Research Programme, Barbados  “Tea phenols and citizen science for health”
4:50 PM – 5:10 PM	Invited II	<b>O39. Luis Pietro, Ph.D.</b> Science, Technology and Research Trust, Puerto Rico  “Exploring Puerto Rican biodiversity through mass spectrometry based metabolomics: initial studies in natural products discovery”
5:10 PM – 5:25 PM	Oral I	<b>O40. Gaurav Gajurel</b> Arkansas State University, USA  “Production of bioactive isoflavones in elicited hairy root cultures of pigeon pea”
5:25 PM – 5:40 PM	Oral II	<b>O41. Deepak Kumar Jha</b> Texas A&M University, USA  “Seed nanopriming with nitrogen-doped carbon dots enhances yield, quality, and potential health-promoting attributes in tomato fruit”
6:30 PM – 8:00 PM	<b>Closing Ceremony (Gala Dinner) and Awards</b>	
	<b>President</b> <b>Executive Editor- JMAP</b> <b>Awards</b> <b>2025 ACMAP Conference</b> <b>Executive Director</b>	

**Day 4: October 6, 2024 (Sunday)**

	<b>Tours/ Trips</b>
9:00 AM –	<b>Bayou Citi Hemp Company (Houston)</b> <a href="https://www.bayoucityhemp.com">https://www.bayoucityhemp.com</a>

## Poster Presentations

### **P1 - Glucosyloxybenzyl 2R-benzylmalate and glucosyloxybenzyl 2R-isobutylmalate derivatives from *Arundina graminifolia***

Opeyemi Joshua Olatunji<sup>1</sup> and Florence Auberon<sup>2</sup>. <sup>1</sup> African Genome Center, Mohammed VI Polytechnic University, Benguerir, 43150, Morocco *and* Strasbourg University, Faculty of Pharmacy, UMR 7200, 67400 Illkirch-Graffenstaden, France. E-mail: [joshua.olatunji@um6p.ma](mailto:joshua.olatunji@um6p.ma)

### **P2 - Antioxidant properties of selected anti-cancer plant extracts cued from Sri Lankan Traditional Medicine**

Jivendra Wickramasinghe<sup>1</sup>, Vajira Dissanayaka<sup>2</sup>, Preethi Udagama<sup>1</sup>, Aruna Weerasooriya<sup>3</sup>, Hemali Goonasekera<sup>2</sup>. <sup>1</sup>Faculty of Science, University of Colombo, Sri Lanka, <sup>2</sup>Faculty of Medicine, University of Colombo, Sri Lanka, and <sup>3</sup>Prairie View A&M University, Texas. E-mail: [jivendra@sci.cmb.ac.lk](mailto:jivendra@sci.cmb.ac.lk); [hemali@anat.cmb.ac.lk](mailto:hemali@anat.cmb.ac.lk)

### **P3 - Impact of soil quality on cannabinoid and terpene content of hemp**

Francisco T. Chacon<sup>1</sup>, Shawn A. Raup-Konsavage<sup>2</sup>, Kelly Greenland<sup>3</sup>, Robert Gearhart<sup>3</sup>, Dhimant Desai<sup>2</sup>, Shouhao Zhou<sup>4</sup>, Joshua J. Kellogg<sup>1</sup>, and Wesley M. Raup-Konsavage<sup>2</sup> <sup>1</sup> Department of Veterinary & Biomedical Sciences, Penn State University, State College, PA, USA <sup>2</sup> Department of Pharmacology, Penn State University College of Medicine, Hershey, PA, USA <sup>3</sup> Keystone State Testing Laboratories, Harrisburg, PA, USA <sup>4</sup> Department of Public Health Sciences, Penn State University College of Medicine, Hershey, PA, USA; [sraupkonsavage@pennstatehealth.psu.edu](mailto:sraupkonsavage@pennstatehealth.psu.edu)

### **P4 - Assessing the antiproliferative effects of *Thalassia* sp. extracts on metastatic colorectal cancer cell line**

Abner J. Colón Colón, Rosalinda Aybar Batista, Gerardo Laureano Rosario, Naiomy Ríos Colón, Ángel R. Núñez Marrero & Alok Arun\*. Institute of Sustainable Biotechnology, Inter American University of Puerto Rico, Barranquitas, PO Box 517, Puerto Rico, USA. E-mail: [abncol9666@br.uipr.edu](mailto:abncol9666@br.uipr.edu); [\\*alok\\_arun@br.inter.edu](mailto:*alok_arun@br.inter.edu)

### **P5 - Screening of Xanthenes from *Garcinia mangostana* to target the Allosteric site in BiP to overcome Drug Resistant Prostate Cancer**

Pariksha Thapa<sup>1</sup>, Pradeep Subedi<sup>2</sup>, Hyun Lee<sup>1,3</sup>, and Jeremy J. Johnson<sup>2</sup>. <sup>1</sup>Department of Pharmaceutical Sciences, University of Illinois at Chicago College of Pharmacy <sup>2</sup>Department of Pharmacy Practice, University of Illinois at Chicago College of Pharmacy <sup>3</sup>Biophysics Core at Research Resource Center, University of Illinois at Chicago Email: [pthapa6@uic.edu](mailto:pthapa6@uic.edu); [subedi@uic.edu](mailto:subedi@uic.edu); [danielhl@uic.edu](mailto:danielhl@uic.edu); [jjjohn@uic.edu](mailto:jjjohn@uic.edu)

### **P6 - High throughput screening of NCI-Natural Product Repository extracts that inhibit androgen receptor-variants in castration resistant prostate cancer**

Neha Tyagi<sup>1</sup>, Sepideh Hosseiniporgham<sup>2</sup>, Ashish Tyagi<sup>1</sup>, Balaji Chandrasekaran<sup>1</sup>, Katherine Bonilla<sup>2</sup>, Inna Krieger<sup>2</sup>, James Sacchettini<sup>2</sup>, Chendil Damodaran<sup>1</sup> <sup>1</sup> Department of Pharmaceutical Sciences, Texas AM University, College Station, TX 77842, USA, <sup>2</sup> Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX, USA. [neha.tyagi@tamu.edu](mailto:neha.tyagi@tamu.edu)

### **P7 - Evaluating the antiproliferative capacity of extracts from *Syringodium filiforme* in colorectal cancer**

## cell line

Aníbal José Nieves Martínez<sup>2</sup> Rosalinda Aybar Batista<sup>1,2</sup> Angel Nuñez Marrero<sup>1,2</sup> Alok Arun<sup>1,2, 1</sup>  
Institute of Sustainable Biotechnology <sup>2</sup>Inter American University of Puerto Rico Barranquitas,  
Puerto Rico, 00794 E-mail: [aninie3989@br.uipr.edu](mailto:aninie3989@br.uipr.edu).

### **P8 - A natural plant derived small molecule for treatment of chemoresistant colorectal cancer**

Ashish Tyagi<sup>1</sup>, Arun K Sharma<sup>2</sup>, Chendil Damodaran<sup>1</sup> <sup>1</sup>Texas A&M Rangel College of Pharmacy, Reynolds Medical Bldg., College Station, Texas. <sup>2</sup>Department of Pharmacology, Biochemistry and Molecular Biology, Penn State College of Medicine, Hershey, Pennsylvania.  
[ashishtyagi@tamu.edu](mailto:ashishtyagi@tamu.edu)

### **P9 - Biochemical profiling of *Garcinia livingstonei* aqueous leaf extract: A preliminary study**

Oluwafemi O. Oguntibeju<sup>a</sup>, Murendeni Nethengwe<sup>a</sup>, Nasifu Kerebba<sup>b</sup>, Kunle Okaiyeto<sup>a</sup> & Chinyerum S. Opuwari<sup>c</sup>. <sup>a</sup>Phytomedicine and Phytochemistry Group, Department of Biomedical Sciences, Faculty of Health and Wellness Sciences, Cape Peninsula University of Technology, Bellville, 7535, South Africa. <sup>b</sup>Department of Chemistry, Makerere University, Kampala 7062, Uganda. <sup>c</sup>Department of Medical Biosciences, University of the Western Cape, Bellville, 7535, South Africa. Email: oguntibeju@cput.ac.za; [bejufemi@yahoo.co.uk](mailto:bejufemi@yahoo.co.uk)

### **P10 - Protective consequences of *Dicliptera roxburghiana* against CCl<sub>4</sub> induced renal toxicity In mice**

Bushra Ahmad<sup>1</sup>, Muhammad Rashid Khan<sup>2</sup>, Arshad Jamil<sup>3</sup> <sup>1</sup>Department of Biochemistry, Shaheed Benazir Bhutto Women University, Peshawar, 29000, Pakistan. <sup>2</sup>Department of Biochemistry, Faculty of Biological Sciences, Quaid-i-Azam University Islamabad, 45320, Pakistan. <sup>3</sup>Department of Plant Breeding and Genetics, University of Agriculture, Dera Ismail Khan, 25000, Pakistan.  
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### **P11 -**

### **P12 - Promising anti-diabetic and wound healing activities of biopolymers loaded natural products using cell lines and enzyme inhibition models**

J. Achyutha Devi <sup>1</sup>Department of Zoology, R.B.V.R.R. Women's College, Narayanaguda, Hyderabad-500027, Telangana, India. E-mail: [achyuthadevi@gmail.com](mailto:achyuthadevi@gmail.com)

### **P13 - Unveiling the medicinal potential of the underutilized crop *Arracacia xanthorrhiza***

Myrna Rodriguez González<sup>\*1</sup>, Luis Prieto<sup>2</sup>, Jacobo Morales<sup>1</sup>, Rosalinda Aybar Batista<sup>1</sup> & Alok Arun<sup>1</sup> <sup>1</sup>Institute of Sustainable Biotechnology, Inter American University of Puerto Rico, PO Box 517, Barranquitas, Puerto Rico, 00794, USA. <sup>2</sup>University of Puerto Rico Recinto de Rio Piedra PO Box 23341, San Juan, Puerto Rico, 00931, USA. Email: [Myrnalizrg@gmail.com](mailto:Myrnalizrg@gmail.com)\*

### **P14 - Antimicrobial effects of extracts from *Liriodendron tulipifera* on AMR *Staphylococcus aureus***

Mojetoluwa Afolabi<sup>\*</sup>, Zhigang Xiao<sup>2</sup>, Qunying Yuan<sup>1</sup>. <sup>1</sup>Department of Biological Sciences, Alabama A&M University. Normal, Alabama, 35762. <sup>2</sup>Department of Electrical Engineering and Computer Sciences, Alabama A&M University. Normal, Alabama, 35762. E-mail: [mojetoluwa.afola@bulldogs.aamu.edu](mailto:mojetoluwa.afola@bulldogs.aamu.edu)

### **P15 - Inhibition of angiotensin-converting enzyme (ACE) activity by cannabinoids from *Cannabis sativa* L.**

Francisco T. Chacon<sup>1</sup>, Kent Vrana<sup>3</sup>, Joshua J. Kellogg<sup>1,2</sup>. <sup>1</sup>Intercollege Graduate Degree Program in Plant Biology, <sup>2</sup>Department of Veterinary and Biomedical Sciences, Pennsylvania State University, University Park, State College, PA, USA <sup>3</sup>Department of Pharmacology, Penn State College of Medicine, Hershey, PA, USA email: [jjk6146@psu.edu](mailto:jjk6146@psu.edu)

**P16 - Determination of ingredient ratios in a dye used to protect American Ginseng (*Panax quinquefolius*) from poaching in the Shenandoah National Park**

Shyleigh A. Good<sup>1</sup>, Dr. Chiara Elmi<sup>2</sup>, and Dr. Lindsay K. Caesar<sup>1</sup>. <sup>1</sup>Department of Chemistry and Biochemistry; <sup>2</sup>Department of Geology and Environmental Science, James Madison University, Harrisonburg, VA 22807. E-mail: [goodsa@dukes.jmu.edu](mailto:goodsa@dukes.jmu.edu); [elmicx@jmu.edu](mailto:elmicx@jmu.edu); [caesarlk@jmu.edu](mailto:caesarlk@jmu.edu)

**P17 - Identification of terpenes in Industrial Hemp (*Cannabis sativa* L.)**

Shamika Piumal Raja Hewage<sup>1</sup>, Surendra Surujdeo-Maharaj<sup>2</sup>, Aruna Weerasooriya<sup>2</sup> and Harshica Fernando<sup>1</sup> <sup>1</sup>Department of Chemistry and <sup>2</sup>Cooperative Agricultural Research Center, College of Agriculture, Food & Natural Resources, Prairie View A&M University, Prairie View, TX. E-mail: [rwishvajith@pvamu.edu](mailto:rwishvajith@pvamu.edu); [hufernando@pvamu.edu](mailto:hufernando@pvamu.edu)

**P18 - Evaluating the role of LED grow lights in enhancing hemp biomass**

Jayland J. J. Jones<sup>1</sup>, A.D. Weerasooriya<sup>1</sup> and S. Surujdeo-Maharaj<sup>1</sup>, <sup>1</sup>Cooperative Agricultural Research Center, College of Agriculture, Food and Natural Resources, Prairie View A&M University, Prairie View, TX 77446. Presenting author's E-mail: [jjones449@PVAMU.EDU](mailto:jjones449@PVAMU.EDU); Corresponding author E-mail: [susurujdeomaharaj@pvamu.edu](mailto:susurujdeomaharaj@pvamu.edu)

**P19 - Exploring the anticancer properties of *Asparagopsis taxiformis* algae; as a potential therapeutic agent against cancer and its application in modern medicine**

Sebastián Alicea De Jesús<sup>1</sup>, Jacobo Morales and Alok Arun. Institute of Sustainable Biotechnology, Inter American University of Puerto Rico, Barranquitas, PO Box 517, Puerto Rico, USA. Email: [sebali9839@br.uipr.edu](mailto:sebali9839@br.uipr.edu); Presenting author: [sebali9839@br.uipr.edu](mailto:sebali9839@br.uipr.edu)

**P20 - Production of genistein and its prenylated analog isowigtheone in pigeon pea hairy roots and their cytotoxic effect on breast cancer cells**

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**P21 - Dietary phytochemicals modulate inflammatory responses in ulcerative colitis patient-derived colonoids**

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**P22 - The effects of nitrogen fertilization on the yield and nutritional content of Purslane (*Portulaca oleracea*)**

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### **P23 - Ecologically inspired co-cultures of anti-fungal bacteria to combat white-nose syndrome**

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### **P24 - Comparison of health-beneficial compounds: Lycopene and citrulline retention in watermelon juice using high-pressure homogenization vs. heat processing**

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### **P25 - Utilizing biopolymers from lactic acid bacteria to enhance the stability, bioactivity, and antimicrobial efficacy of eugenol**

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### **P26 - Extraction, characterization, and assessment of the stress-releasing ability of essential oil extracted from violet water lily**

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### **P27 - Protection of gut-liver axis by gut recycled herbal components during chemotherapy**

Vesna Tumbas Saponjac<sup>1,2</sup>, Zicong Zheng<sup>1</sup>, Rongjin Sun<sup>1</sup>, Jie Chen<sup>1</sup>, Songpol Srinual<sup>1</sup>, Terry Yin<sup>1</sup>, Ming Hu<sup>1,2</sup> and Rashim Singh<sup>1,2</sup>. <sup>1</sup>Department of Pharmacological and Pharmaceutical Sciences, University of Houston College of Pharmacy, 4349 Martin Luther King Boulevard, Houston, TX 77204-5000 and <sup>2</sup>Sanarentero LLC, University of Houston Technology Bridge, Research Park, 5000 Gulf Fwy, Bldg 5, Rm 116, Houston, TX 77023. E-mail: vtumbass@central.uh.edu

### **P28 - Neem and turmeric, two incredible medicinally active plants, an overview of many known and rarely known information to help the community**

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**P29 - Antioxidant, anti-diabetics, and anti-inflammatory bioactives of banana (*Musa paradisiaca*) inflorescence in a processed salad**

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**P30 - Discovery and development of anxiolytic agents from tropical marine macroalgae**

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**P31 - Study of the chemical composition and biological activities of *Piper* sp.**

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**P32 - Tannin concentration and bioactivity of field grown *Lespedeza* species**

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**P33 - Isolation and chemical modification of cembrane diterpenes from *Nicotiana tabacum***

Paula A. Vega-García<sup>1</sup>, Abimael Rodríguez<sup>2</sup>, Claudia A. Ospina-Millán<sup>1</sup>. <sup>1</sup>Dept. of Natural Sciences and Mathematics, Inter- American University of Puerto Rico, Bayamón, PR, 00957 and <sup>2</sup>Dept. of Chemistry, University of Puerto Rico, Rio Piedras, 00936. Emails: [pvega6022@interbayamon.edu](mailto:pvega6022@interbayamon.edu); [cospina@bayamon.inter.edu](mailto:cospina@bayamon.inter.edu)

**P34 - Isolation, preparation, and evaluation of quassinoids as STAT3 inhibitors in breast cancer**

Claudia A. Ospina-Millán<sup>1</sup>, Paula Vega-García<sup>1</sup>, Stella Alicea-Ayala<sup>1</sup>, Pablo E. Vivas-Mejía<sup>2</sup>, José Rodríguez-Medina<sup>2</sup> and Eliud Hernández-Ofarrill<sup>2</sup>. <sup>1</sup>Dept. of Natural Sciences and Mathematics, Inter American University of Puerto Rico, Bayamón, PR 00957 and <sup>2</sup>Dept. of Biochemistry and Pharmaceutical Sciences, University of Puerto Rico, Medical Sciences Campus, PR 00936. E-mail: [cospina@bayamon.inter.edu](mailto:cospina@bayamon.inter.edu)

**P35 - Maternal broccoli sprout consumption: A novel strategy to reprogram offspring gut microbiome and prevent early-life obesity**

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**P36 - Evaluating the anti-cancer potential of *Padina* Extracts in colorectal cancer cell lines**



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**P37 - Determining the anti-proliferative capacity of colorectal cancer cell line treated with extracts derived from *Sargassum***

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**P38 - Effects of low-temperature plasma on germination, seedling growth and nutrient profile of microgreens**

Sravan Kumar Sanathanam<sup>1</sup>, Trang Pham<sup>1</sup>, Judith Boateng<sup>2</sup>, Tasié Ogechukwu<sup>2</sup>, and Srinivasa Rao Mentreddy<sup>1</sup>. <sup>1</sup>Dept. of Natural Resources and Envi. Sciences, and <sup>2</sup>Department of Food and Animal Sciences, Alabama A&M University, Normal, AL 35811. E-mail: [sravankumar.sana@bulldogs.aamu.edu](mailto:sravankumar.sana@bulldogs.aamu.edu)

**P39 - Use of emerging technologies in advancing medicinal plant research: a Prospective**

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**P40 - Health benefits of peanuts: A deep dive into medicinal properties**

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**P41 - Physico-chemical evaluation and anti-diabetic property of *Clerodendrum splendens* (G. Don) leaves (Verbenaceae) on alloxan induced diabetic Albino wistar rats**

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**P42 - Isolation and anticancer effects of tulareydilactone and glaucarobinone quassinoids from *Simarouba tulae***

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**P43 - Utilizing biopolymers from lactic acid bacteria to enhance the stability, bioactivity, and antimicrobial efficacy of eugenol**

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# Prairie View A&M University Campus Map

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