

FRIDAY AFTERNOON

Bovee University Center
Rotunda

General Posters 2: Friday Posters 1-41

3:30 - 5:30

01. Robust synthetic platform to hexocannabinol and biological relevant analogs. **M. Gilmore, H. LeGrande, K. Kostoff, R. Legant,** E. Dzurka Camelio

02. Evaluation of waterless condensers for reflux reactions in the undergraduate teaching laboratory. C. Asbury, K. Fields, E. Grabowski, M. Maier, **J.L. Tischler,** N.B. Kingsley

03. Extraction of Ascorbic Acid from Dietary Supplements. **E. Propp**

04. Removal of gemfibrozil from water using molecularly imprinted polymers. **C. Stevens,** T. Pema

05. Effects of Rainfall on E.coli Levels. **S. Yu**

06. Rapid Method for Evaluating Textile Odor Control. **L. Gorney,** D. Proctor

07. Applying RFID to transfusion medicine. **R. Regenfuss**

08. Synthesis and evaluation of triazole-linked trehalose mycolate analogues as inhibitors of glycolipid metabolism in mycobacteria. **C. Kabutey,** B.M. Swarts

09. Synthesis of 3,4-dihydroxybenzaldehyde-based antioxidant dendrons. **N. LI**

10. Solid Harvesting production of Ca-47 for theranostic Sc-47 generation at the Facility for Rare Isotope Beams. **E. Majka,** V. Zakusilova, D. Davuluri, K. Domnanich

11. Extraction and Separation of Nd(III) and Tm(III) from Aqueous Solutions Using Deep Eutectic Solvents – Toward Radiolanthanide Harvesting at the Facility for Rare Isotope Beams. **V. Zakusilova,** N.E. Esker, K. Domnanich

12. A Series of Pyrrole-Heterocycle Catalysts for Olefin Polymerization. **J.B. Etienne,** B. Bailey, M. Bokota, J. Reddel, N. Turner, J. Cabrera

13. Adding essential oil groups to a commercial β -lactam molecule to combat antibiotic resistance. **M.S. Stevens, H.C. Stearns,** S.A. Brouet

14. Engineering Bioluminescent Sensors for Real-Time Monitoring and Control of Neuroinflammation. **O. Dubey,** M. Chatterton, J. Rossignol, J. Bakke, E. Petersen

15. PEROXISOME PROLIFERATED-ACTIVATED RECEPTOR (PPAR) DELTA AGONIST AS PROMISING TREATMENT FOR NON-ALCOHOLIC FATTY LIVER DISEASE.. X.

Luarasi

16. Determination of the efficacy of magnetized biochar in the removal of antibiotics from aqueous solution. Z.M. Adelberg

17. Studies toward a novel organocatalyst featuring a bicyclic hydrazide moiety. Z.J. Green, I.E. Upthegrove, S.A. Brouet

19. Design, synthesis and structural evaluation of model expander molecules for advanced lead-acid battery storage applications. M. Chennapuram, M.S. Teferra, C. Lind-Kovacs

20. Microbial Source Tracking Studies of Saginaw Chippewa Indian Tribe (MI) Freshwater Sample Sites. A. Seman, T. Sivy

21. Fluorescence-quenched mycoloyl-arabinofuranoside analogues: fluorogenic probes for mycobacterial outer membrane-degrading enzymes. A. Zigli

22. From Structure to Functional Implications: Investigation of the Melon-Like Framework of Graphitic Carbon Nitride for Li-S Batteries. J. Pandey, A. Yazdani, I. Boakye, V. Petkov, V. Barone, B.D. Fahlman

23. Model expander molecules: From synthesis to applications in lead Acid batteries. S. Nazeer, S. Singhal, C. Lind-Kovacs

24. Synthesis and evaluation of antioxidant dendrimers derived from D-mannitol and syringaldehyde. B. Agbemade

25. Synthesis of a potent amphiphilic antioxidant dendrimer via dendron approach. f. haruna

26. Synthesis of labeled phosphatidylinositolmannoside (PIM) fragments to probe glycolipid synthesis and transport processes in mycobacteria. C. Mensah, B.M. Swarts

27. Unusual Photophysical Properties of N-Confused Tetraphenylporphyrin in Alcoholic Solvents. J. Joseph, E.A. Alem´n, D.A. Modarelli

28. Trehalose-Biotin Conjugates for Mycobacteria Detection. M.Z. Nizami, C. Mensah, E.R. Maskill, B.M. Swarts

29. Liquid phase deposition of nanoscale perovskite oxides with tunable architectures. C.M. Riddle, G. Caruntu

30. Sustainable alternative to the standard undergraduate organic chemistry caffeine extraction. M. Kruzyk, C. Gasiorowski, S.A. Brouet, J. Chaytor, M.V. Coote

31. Cubosomes covalently tethered to graphene oxide nanosheets: Synthesis, Characterization, and Applications. **M.M. Hossain**, M. Bayachou
32. Preliminary assessment of water quality and microbial activity in selected natural springs of McKean County, Pennsylvania. **M. Ellini**
33. Chemoenzymatic synthesis of inositol analogues as tools to study mycobacterial glycolipids. **C. Bush**, U.G. Johnson, B.M. Swarts
34. Chemoenzymatic synthesis of 2,2-difluorotrehalose, a novel trehalose analogue and possible inhibitor of *Mycobacterium tuberculosis*. **V. To**, C. Kabutey, U.G. Johnson, B.M. Swarts
35. Spin State Switching in $\text{Fe}(\text{Htrz})_2(\text{trz})$ Nanoparticles Obtained by a Solution-Based Route. **J. Ellis**, G. Caruntu
36. Synthesis of dual functional probe of psychosine for understanding psychosine -induced neuroinflammation and demyelination. **Y. Omori**, Y. Takeda
37. Cr-MiL-101 as a pH dependant absorbent for uranyl capture in seawater. **A. Anderson**, D. Kissel
38. Investigation of an Optimized Zn-62/Cu-62 Generator for PET Imaging. **F. Bissen**, K. Domnanich
39. Aqueous Isotope Harvesting of Ni radioisotopes from the FRIB Beam Blocker. **R. Goike**, K. Domnanich
40. Increasing the scale and scope of the chemoenzymatic synthesis of trehalose using mCherry-tagged trehalose synthase variants. **M. Hall**
41. 3D-Printed Substrates for Hydroponic Plant Growth in Microgravity. **M. Shivakumar**, **S. Park**, **K. Daoud**