List of Publications 2018-19

Department of Chemistry

Al-Masum

1. **Al-Masum**, **M**.; Hira, A. Chrisman, S.; Nguyen, N. Introducing efficient cross coupling reaction of tertiary alchols and ArCOPdCl for the synthesis of highly substituted esters, *Tetrahedron Lett.* **2019 (submitted).**
2. **Al-Masum**, **M**.; Islam, T.; Clopton, G.Efficient Cross-Coupling Reaction of Aryltrifluoroborates and Aroyl Chlorides for the Synthesis of Fluorine Substituted Aromatic Ketones, *Intl. J. Org. Chem.* **2019**, *9,* 67.
3. **Al-Masum**, **M**.; Hira, A. Microwave irradiated cross coupling of carboxylic acids and Crotyl bromides: Efficient application to make arachidonic acid esters, *Intl. J. Org. Chem.* **2018**, *8,* 341.

Beni

1. **Beni,** Y.; Boadi, W.; Alnakhli, J.; Alhamed, S.; Robinson, T.; Mootry, M.; Iyob, N.; Jackson, J.; Spicer, N.; Harris, A.; Bamidad, I.; Antwi, R.; Richardson, S.; Williams, T.; Triphenylmethanol and tris(2-(hydroxymethyl) phenol) derivatives: Synthesis and application as indicators for acid-base volumetric titration, *J. Anal. Sci. Meth. Instrumet.,* **2019**, accepted, in press.
2. **Beni,** Y.; Boadi, W.; Karim, K.; Alnakhli, J.; Alhamed, S.; Synthesis and antiproliferative activities of triphenylmethanol conjugates of Leuprorelin, *Open J Med Chem,* **2019**, accepted, in press.

Boadi

1. Alhamdi H., Boadi W.Y., Tiriveedhi V., Garcia A., Driggins, S.N. Myles LE. Investigating the anti-tumor potential *Psidiumguajava* extracts on PC-3, and BT-549. MOJ Cell Sci. Rep. 6(1): 10-15, 2019.
2. Beni R., Boadi W.Y., Karim K., Alnakhli J., and Alhamed A.: Synthesis and antiproliferative activities of triphenylmethanol conjugates of leuprorelin. Accepted for publication in the Journal of Drug Design and Medicinal Chemistry in June 2019.
3. Boadi W.Y., Garcia A.S., Myles E.L. Phospho Tensin Homolog (PTEN) in Cancer Cells and Lipid Peroxides in Peripheral Blood Mononuclear Cells (PBMCs) Following Exposure to Flavonoids. *Manuscript Accepted and to be Published in The Journal of American Clinical Nutrition (2019).*
4. Boadi W.Y., and Lo A.: Effects of quercetin, kaempferol and exogenous glutathione on *phospho*- and *total-Akt* Levels in 3T3-L1preadipocytes. J. Diet. Suppl. Early Online: 1-13, 2018*.*
5. Albaqami J., Myles L.E., Tiriveedhi V., Boadi W.Y., and Driggins N.S.: The effect of *Onosma bracteatum* in cancer cells. MOJ Bioequivalence & Bioavailability 5:321-325, 2018.

Karim

## 11. Synthesis of Folate-appended β-Cyclodextrin using Phenanthroline as Linker for Cancer Targeting Drug Delivery. Nadim S. Russel, Punam K. Paul, Mohammad Karim\* and ByeongwoonSong. International J of Org Chem, 2019, Vol 9 No. 1, pp 47-66. DOI: [10.4236/ijoc.2019.91005](https://doi.org/10.4236/ijoc.2019.91005)

Moore

1. Fu, Z-C.; Moore, J.T.; Liang, F.; Fu, W-F. “Highly Efficient Photocatalytic Reduction of CO2 to CO Using Cobalt Oxide Coated Spherical Mesoporous Silicate Particles as Catalysts” *Chemical Communications* (submitted)
2. Fu, Z-C.; Xu, R-C.; Moore, J.T.; Liang, F.; Nie, X-C.; Mi, C.; Mo, J.; Xu, Y.; Xu, Q-Q.; Yang, Z.; Lin, Z-S.; Fu, W-F. “Highly Efficient Photocatalytic System Constructed from CoP/Carbon Nanotubes or Graphene for Visible Light Driven CO2 Reduction” *Chemistry-A European Journal* **2018**, *24*, 4273-4278.

Okoro

1. John Apraku and **Cosmas O. Okoro**. Design, synthesis and anticonvulsant evaluation of fluorinated benzyl amino enaminones. Bioorg & Med. Chem. 27 **(2019**) 161-166

Siddiquee

1. Mixed-​valence dimolybdenum complexes containing hard oxo and soft carbonyl ligands: synthesis, structure, and electrochemistry of Mo2(O)​(CO)​2(μ-​κ2-​S(CH2)​nS)​2(κ2-​diphosphine); Haque, Mohd. Rezaul; Ghosh, Shishir; Rahman, Md. Matiar; Siddiquee, Tasneem A.; Nesterov, Vladimir N.; Richmond, Michael G.; Hogarth, Graeme; Kabir, Shariff E.; Dalton Transactions (2018), **47**, 10102-10112.
2. Investigation on the reactivity of tetranuclear Group 7​/8 mixed-​metal clusters toward triphenylphosphine;Moni, Md. Rassel; Mia, Md. Jadu; Ghosh, Shishir; Tocher, Derek A.; Mobin, Shaikh M.; Siddiquee, Tasneem A.; Kabir, Shariff E.; Polyhedron (2018), 146, 154-160.
3. Effect of Hydrated Metal Salts on the Coordination Product of Cobalt(II) halide and PNP Type Ligand, 2,6-bis(di-tertbutylphosphinomethyl) pyridine; Siddiquee, Tasneem; Goni, Abdul:. ChemRxiv; (2018) pp.1-6: [*https://doi.org/10.26434/ chemrxiv.5851701.v1*](https://doi.org/10.26434/%20chemrxiv.5851701.v1)

Phambu

1. Bashiyar Almarwani, Esther Nzuzi Phambu, Christopher Alexander, Ha Aimee T. Nguyen, Nsoki Phambu, Anderson Sunda-Meya. Vesicles mimicking normal and cancer cell membranes exhibit differential responses to the cell-penetrating peptide Pep-1. BBA - Biomembranes 1860, 1394–1402, 2018.

Vercruysse

1. **Vercruysse K**. Synthesis of L-DOPA based pigments with different physic-chemical properties. chemRxiv doi:10.26434/chemrxiv.5765847.v1, (2018).
2. **Vercruysse K**, Clark A, Alatas N, Brooks D, Hamza N, Whalen M. Polysaccharide-mediated synthesis of melanins from serotonin and other 5-hydroxy indoles. Future Science OA doi:10.4155/fsoa-2017-0118, FSO280 (2018).

Zheng

1. Methylselenol producing selenocompounds enhanced efficiency of mammaglobin-A peptide vaccination against breast cancer cells Duaa Babaer, Mu Zheng, Michael Ivy, Venkataswarup Tiriveedhi, Biochemical and Biophysical Research Communications (Submitted)

Whalen

1. Martin, T.J., Maise, J., Gabure, S., Whalen, M.M. 2019. Exposures to the Environmental Contaminants Pentachlorophenol (PCP) and Dichlorodiphenyltrichloroethane (DDT) Increase Production of the Pro-inflammatory cytokine, Interleukin 1-Βeta (IL-1β), in Human Immune Cells. J. Appl. Toxicol. In press.
2. Brown, S., Hamza, N., Boules, M., Wang, X., Whalen, M.M. 2018. Synthesis of interleukin 1 beta and interleukin 6 in human lymphocytes is stimulated by tributyltin. Archives of Toxicology 92:2573-2586.
3. Lawrence, S., Ismail, F., Jamal, S.Z., Whalen, M.M. 2018 Tributyltin (TBT) Stimulates Synthesis of Interferon gamma (IFNγ) and Tumor Necrosis Factor Alpha (TNFα) in Human Lymphocytes. J. Appl. Toxicol. 38:1081-1090.

# Vercruysse, K., Clark, A., Alatas, N., Brooks, D., Hamza, N., Whalen, M. 2018. Polysaccharide-mediated synthesis of melanins from serotonin and other 5-hydroxy indoles. Future Science OA volume 4 p. FSO280.

1. Ignacio, R.M.C.Dong, Y-L., Kabir, S.M., Choi, H., Lee, E-S., Beeghly-Fadiel, A., Whalen, M.M., Son, D-S. 2018. CXCR2 is a negative regulator of p21 in p53-dependent and independent manner via Akt-mediated Mdm2 in ovarian cancer. Oncotarget 9:9751-9765 PMCID: PMC5839399
2. Yasmin, S., Whalen, M.M. 2018. Flame Retardants, Hexabromocyclododecane (HBCD) and Tetrabromobisphenol A (TBBPA) Alter Secretion of Tumor Necrosis Factor Alpha (TNFα) from Human Immune Cells. Archives of Toxicology 92:1483-1494 PMCID: PMC5884737
3. Brown, S., Wilburn, W., Martin, T., Whalen, M.M. 2018. Butyltin compounds alter secretion of interleukin 6 from human immune cells. J. Appl. Toxicol. 38: 201-218.