



## **Selected AMRI Publications and Patents from 2005-2017**

**Feb. 15, 2018**

## Publications

1. Cao, Y.; Teng, J.; Selbo, J. "Amorphous solid dispersion of epigallocatechin gallate for enhanced physical stability and controlled release," *Pharmaceuticals* **2017**, *10*(4), 88.
2. Cao, Y.; Verian, K.P. "A VEDA simulation on cement paste: using dynamic atomic force microscopy to characterize cellulose nanocrystal distribution," *Materials Research Society Communications* **2017**, *7*(3), 672-676.
3. Kargbo, R.B. "Bruton's Tyrosine Kinase inhibitors for the treatment of autoimmune diseases and cancers," *ACS Medicinal Chemistry Letters* **2017**, *8*(9), 911-913.
4. Kargbo, R.B. "New substituted cyanoindoline derivatives as MAP3K14 Kinase inhibitors for the treatment of cancer and autoimmune disorders," *ACS Medicinal Chemistry Letters* **2017**, *8*(9), 908-910.
5. Kargbo, R.B. "Modulating GluN2B for the treatment of neurological and psychiatric disorders," *ACS Medicinal Chemistry Letters* **2017**, *8*(9), 905-907.
6. Kargbo, R.B. "Allosteric modulators of the M4 Muscarinic Acetylcholine Receptor," *ACS Medicinal Chemistry Letters* **2017**, *8*(9), 903-904.
7. Chittimalla, S.K.; Bandi, C.; Gadi, V.K.; Gunturu, S.R. "Facile synthesis of 2-arylindoles through Plancher-type rearrangement of 3-alkyl-3-arylidolenines," *Synlett* **2017**, *28*(15), 1994-1999.
8. Martínez-Cámara, S.; Bahillo, E.; Barredo, J.-L.; Rodríguez-Sáiz, M. "Scale-up of phytosterols bioconversion into androstenedione" in *Microbial Steroids. Methods and Protocols, Methods in Molecular Biology Series Volume 1645*, J.-L. Barredo and I. Herráiz, Eds., Humana Press: New York, NY, 2017, Chapter 14, 199-210.
9. Herráiz, I. "Chemical pathways of corticosteroids, industrial synthesis from sapogenins" in *Microbial Steroids. Methods and Protocols, Methods in Molecular Biology Series Volume 1645*, J.-L. Barredo and I. Herráiz, Eds., Humana Press: New York, NY, 2017, Chapter 2, 15-27.
10. Kraft, S.; Ryan, K.; Kargbo, R.B. "Recent advances in asymmetric hydrogenation of tetrasubstituted olefins," *Journal of the American Chemical Society* **2017**, *139*(34), 11630-11641.
11. Kurissery, A.T.; Rajkumar, G.A.; Arvapalli, V.S.; Pitchumani, V. "Novel synthesis of spirocyclic-3,4-dihydro-2H-benzo[b][1,4]oxazine derivatives," *Tetrahedron Letters* **2017**, *58*(37), 3607-3611.
12. Pham, T.V.; Murkin, A.S.; Moynihan, M.M.; Harris, L.; Tyler, P.C.; Shetty, N.; Sacchettinia, J.C.; Huang, H.; Meek, T.D. "Mechanism-based inactivator of isocitrate lyases 1 and 2 from *Mycobacterium tuberculosis*," *Proceedings of the National Academy of Sciences of the United States of America (PNAS)* **2017**, *114*(29), 7617-7622.
13. Ely, R.; Richardson, P.; Zlota, A.; Steven, A.; Kargbo, R.; Nawrat, C.; Ramirez, A.; Day, D.P.; Knight, J. "Some items of interest to process R&D chemists and engineers," *Organic Process Research & Development* **2017**, *21*(7), 897-910.
14. Luo, Q.; Yang, X.; Yu, S.; Shi, H.; Wang, K.; Xiao, L.; Zhu, G.; Sun, C.; Li, T.; Li, D.; Zhang, X.; Zhou, M.; Huang, Y. "Structural basis for lipopolysaccharide extraction by ABC transporter LptB2FG," *Nature Structural & Molecular Biology* **2017**, *24*(5), 469-474.

15. Tummanapalli, S.; Vangapandu, D.N.; Muthuraman, P.; Kambampati, S.; Shanmugavel, G. "A novel tandem Pd-catalyzed intramolecular allylic decarboxylative coupling and "diradical conjugated 1,3-dien-5-yne cycloaromatization": An unusual *ortho*-selectivity in the cycloaromatization and the mechanistic implications," *Tetrahedron Letters* **2017**, *58*(32), 3125-3131.
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19. Kitchen, D.B. "Computer-aided drug discovery research at a global contract research organization," *Journal of Computer-Aided Molecular Design* **2017**, *31*(3), 309-318.
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