

Organic Seminar



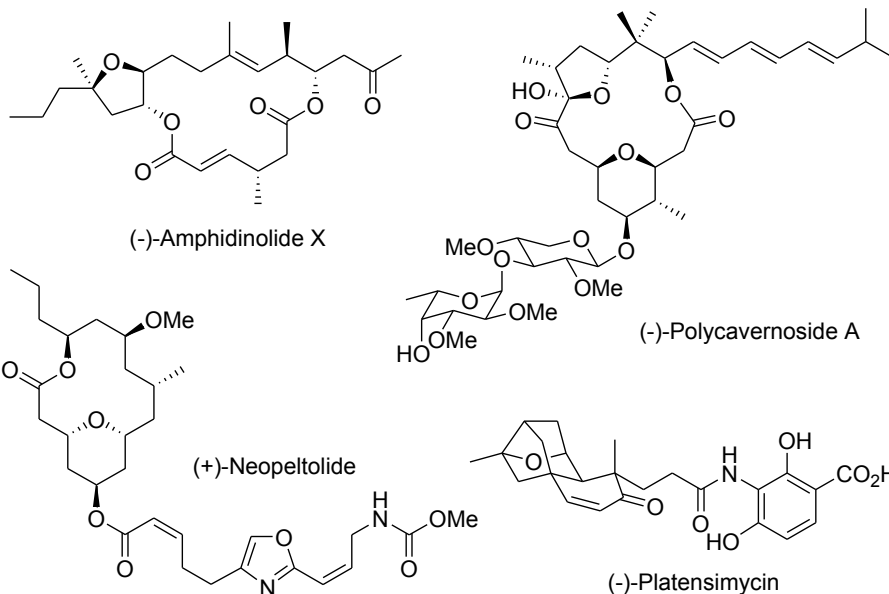
Professor Eun Lee
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Tuesday
July 20, 2010
3:30 p.m.

Room 1315 Chemistry

Bioactive Oxacyclic Natural Products: Recent Progress

Total synthesis of (-)-amphidinolide X was accomplished via samarium iodide-mediated cyclization of an aldehydo β -alkoxyvinyl sulfoxide.¹ Prins macrocyclization reactions were employed in the total synthesis of (+)-neopeltolide and (-)-polycavernoside A.^{2,3} Intramolecular carbonyl ylide dipolar cycloaddition strategy was successfully applied in the synthesis of (-)-platensimycin and its analogs.^{4,5}



References

1. Jung, J. H.; Lee, E. *Angew. Chem. Int. Ed.* **2009**, *48*, 5698-5700.
2. Woo, S. K.; Kwon, M. S.; Lee, E. *Angew. Chem. Int. Ed.* **2008**, *47*, 3242-3244.
3. Woo, S. K.; Lee, E. *J. Am. Chem. Soc.* **2010**, *132*, 4564-4565.
4. Kim, C. H.; Jang, K. P.; Choi, S. Y.; Chung, Y. K.; Lee, E. *Angew. Chem. Int. Ed.* **2008**, *47*, 4009-4011.
5. Jang, K. P.; Kim, C. H.; Na, S. W.; Jang, D. S.; Kim, H.; Kang, H.; Lee, E. *Bioorg. Med. Chem. Lett.* **2010**, *20*, 2156-2158.