DIVERGENT SYNTHESIS OF NATURAL SESQUITERPENE LACTONES: ONE PLAN, MANY PITFALLS TO AVOID

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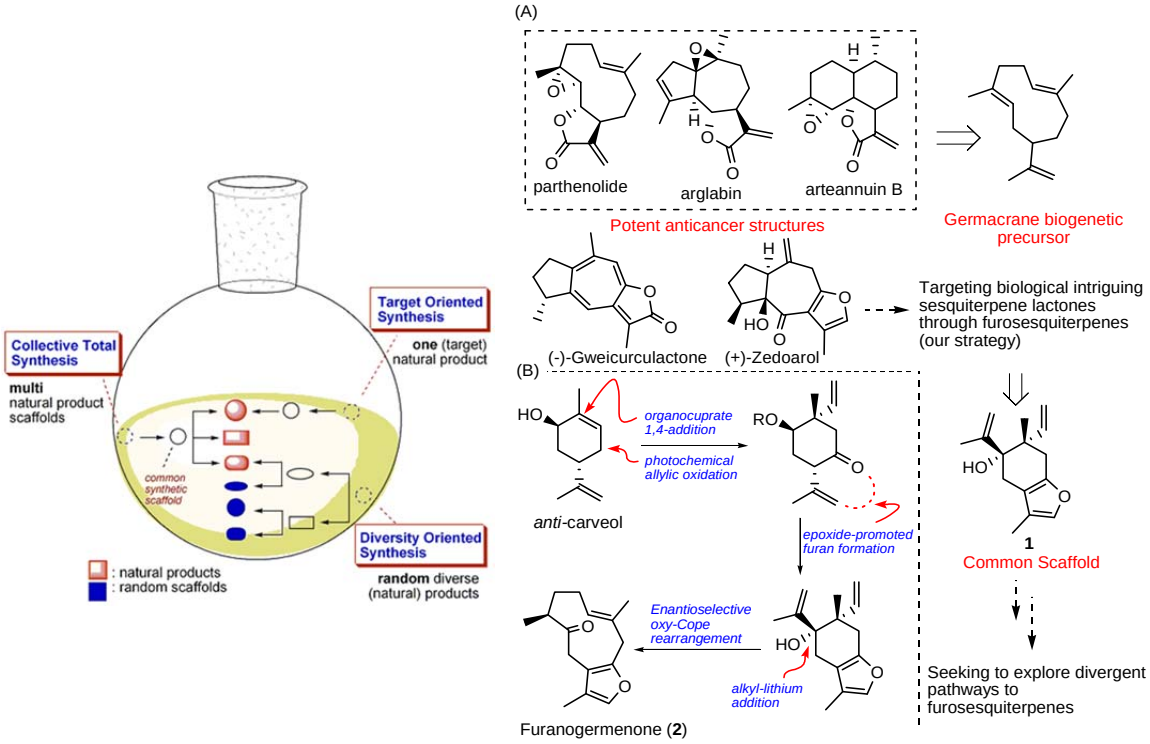
The emergence of preparing diverse natural product scaffolds is firmly associated with the need of our society for more potent and selective biomodulators. In response, nowadays, divergent synthesis utilizing common synthetic scaffolds that can be readily transformed to an array of diverse natural compounds is progressively gaining ground in drug discovery.[1] The lecture will focus on drawbacks and solutions towards the development of a unified synthetic plan for accessing highly cytotoxic sesquiterpene lactones.[2-4]



[1] E. E. Anagnostaki, A. L. Zografos, *Chem. Soc. Rev.* **2012**, *41*, 5613

[2] E. E. Anagnostaki, A. L. Zografos, *Org. Lett.* **2013**, *15*, 152

[3] E. E. Anagnostaki, V. P. Demertzidou, A. L. Zografos, *Chem. Commun* **2015**, *51*, 2364

[4] V. P. Demertzidou, A. L. Zografos, *Org. Biomol. Chem.* **2016**, *14*, 6942