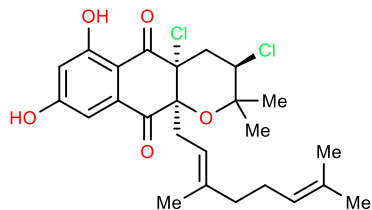


azamerone

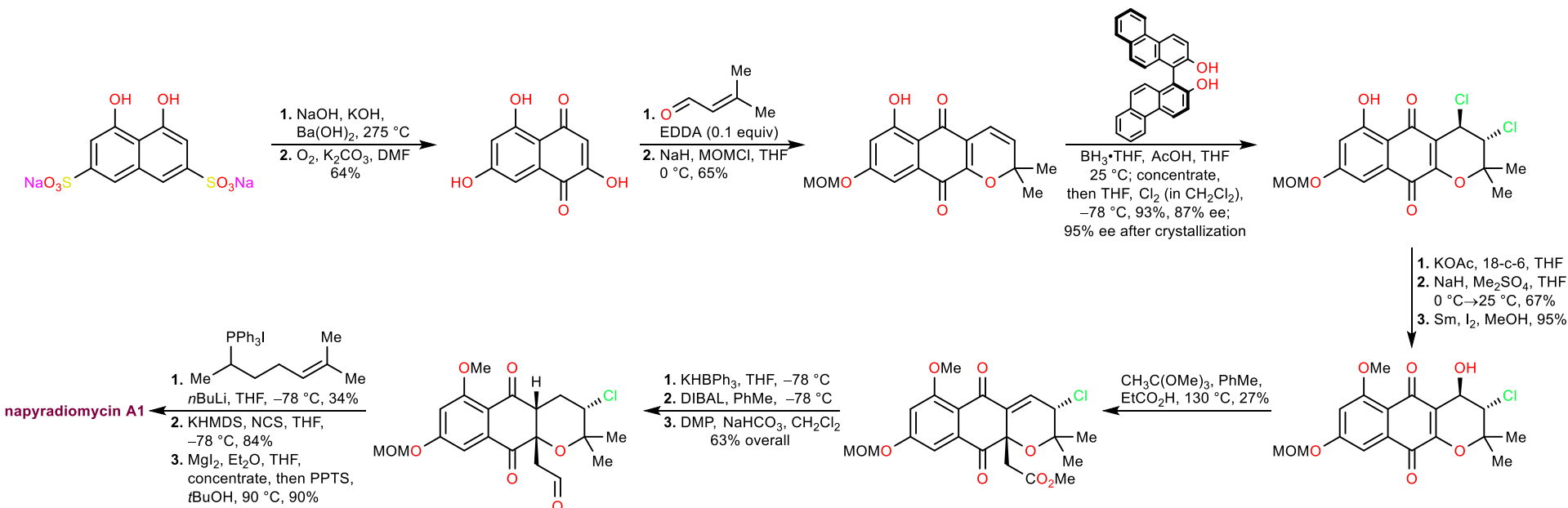


napyradiomycin A1

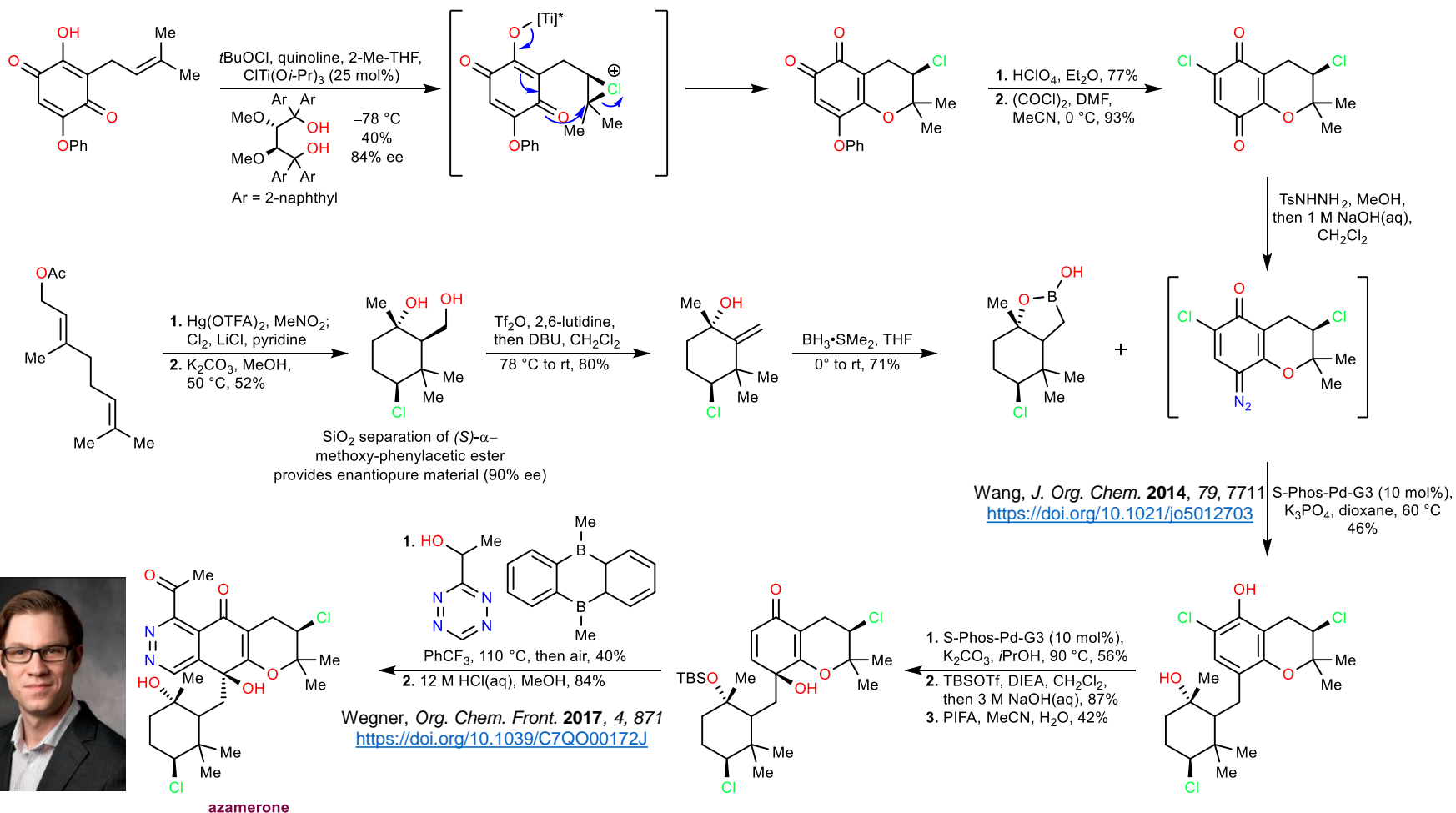
- Napyradiomycins are halogenated meroterpenoids isolated from actinomycetes.
- Diverse bioactivity: inhibition of gastric (H⁺-K⁺)-ATPase, nonsteroidal estrogen antagonism, cytotoxicity, activity against Gram-positive bacteria.
- Only napyradiomycin A1 and azamerone have been synthesized from over 40 members of this family of natural products.
- Azamerone is the only phthalazinone-containing natural product.

- 1) Napyradiomycin A1: Snyder, *J. Am. Chem. Soc.* **2009**, 131, 5744. <https://doi.org/10.1021/ja9014716>
 2) Azamerone: Burns, *J. Am. Chem. Soc.* **2019**, 141, 2867. <https://doi.org/10.1021/jacs.8b12566>

Total synthesis of napyradiomycin A1:



Total synthesis of azamerone:



azamerone