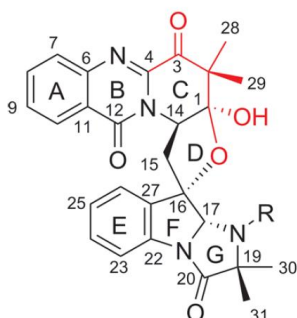


Retrosynthesis Exercise

The natural product on which you will have to work is the Neosartoryadin B. It is a quinazoline-containing indole alkaloid isolated by the Chinese group of Li (*Org. Lett.* **2016**, *16*, 244-247) from a mangrove-derived fungus, *Neosartorya udagawae* HDN13-313 that displays anti-influenza virus A (H1N1) activity.



Neosartoryadin B (R = OH)

Aim of the game:

- Propose a retrosynthetic analysis with relevant disconnections until commercially available starting materials, then,
- Show the synthetic pathway with the conditions for each steps, using eventually if necessary literature data.
- Some synthetic pathways were previously achieved, try to be original.

Important: the synthesis must be enantioselective. Do not use the biosynthetic pathway proposed in the article. Of course it is a team work, so organize yourself to do it.

Teams composition:

TEAM 1	TEAM 2
Clara	Marion
Jessica	YunLong
Cecilia	Maxime
Tanguy	Kevin
Carole	Katharina
Julien	Céline
David	

Let's go !