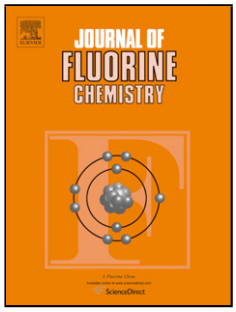

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Computational Design and Synthesis of Novel Fluoro-Analogs of Combretastatins A-4 and A-1

Yao Zong[1], Christie Shea[1], Katherine Maffucci[1] and Iwao Ojima[1,2,*]

[1]*Department of Chemistry, State University of New York at Stony Brook,*

Stony Brook, NY, 11794-3400, U. S. A.

[2]*Institute of Chemical Biology & Drug Discovery, State University of New York at Stony Brook,*

Stony Brook, NY, 11794-3400, U. S. A.

*Corresponding author. Tel: +1-631-632-1339; Fax: +1-631-632-7942.
E-mail address: iwao.ojima@stonybrook.edu

Graphical abstract:

Novel fluoro-analogs of potent vascular disrupting agents (VDAs), combretastains A-4 and A-1, were designed, synthesized and preliminary biological activity of select compounds examined. First, a library of novel fluoro-analogs was created by a structure-based drug design based on the co-crystal structure of colchicine-tubuin complex and their docking energy scores were evaluated by AutoDock Vina. Then, select compounds were synthesized for biological evaluations.

Novel fluoro-analogs of combretastatin A-4/A-1 as vascular disrupting anticancer agents