

Science of Synthesis

Your expert guide to making molecules

- Want a comprehensive overview of a certain topic?
- Need to find the right synthetic route quickly?
- Looking to save time when planning a synthesis?

The screenshot shows the Science of Synthesis website interface. The main article title is "16.2.1.3 Enantioselective Cycloadditions of Chalcones Enabled by Ruthenium/Scandium Dual Catalysis". The article is by Amador, A. G.; Scholtz, S. O.; Skubi, K. L.; Yoon, T. P., published in *Science of Synthesis: Photocatalysis in Organic Synthesis*, (2018) 1, 479. The abstract describes an alternative strategy for enantioselective photocatalysis using a second species that perturbs the photophysical properties of the substrate. A chemical reaction scheme (Table 6) shows the intermolecular (2+2) cycloaddition of a chalcone (14) with an alkene (15) to form a bicyclic product (16). The reaction conditions are: (R)-BINAP (10 mol%), [Ru(BINAP)₂Cl₂] (2.5 mol%), [Sc(OTf)₃] (10 mol%), PhOAc/MeCN (1:1, 0.03 M), hv (25 W CFL), rt, 20 h.

To register scan the QR code below or click here!



When:

Monday 2 Sep 2024, 15:30

Where:

Lecture Hall
Pharmacy and Pharmaceutical Sciences Building A
Aobayama Campus

Contact for More Information:

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Bring your own laptop or tablet to try it out for yourself!



Presenter:
Dr. Marcus White
Scientific Editor, Science of Synthesis



We transform synthesis!

