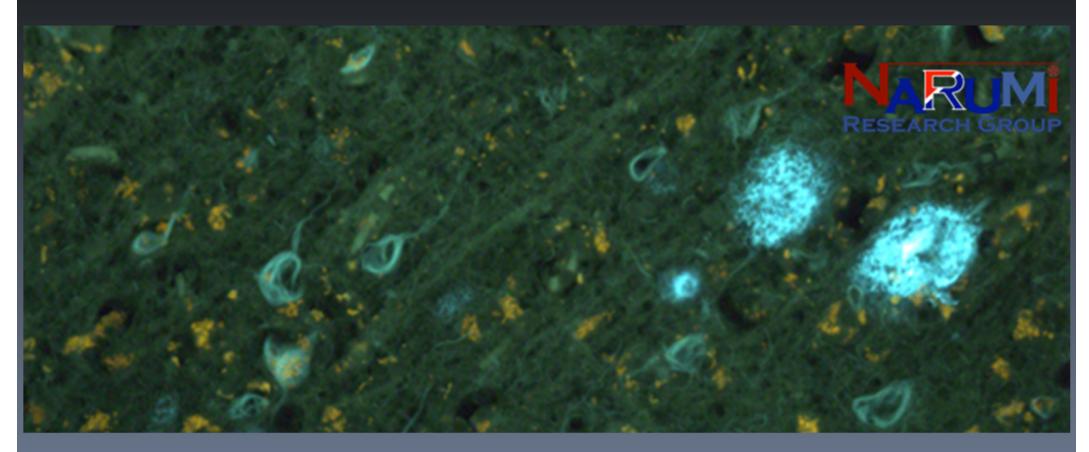
#### サイエンスカフェ in 静岡 2018年 3月29日 B-nest 静岡市産学交流センター, 静岡市



# 人類の健康と福祉に貢献する分子科学: 医薬品開発を加速する分子のチカラ

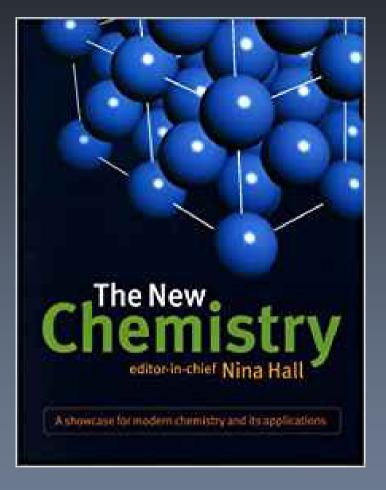
## TETSUO NARUMI, PH.D.

Research institute of Green Science and Technology, Shizuoka University

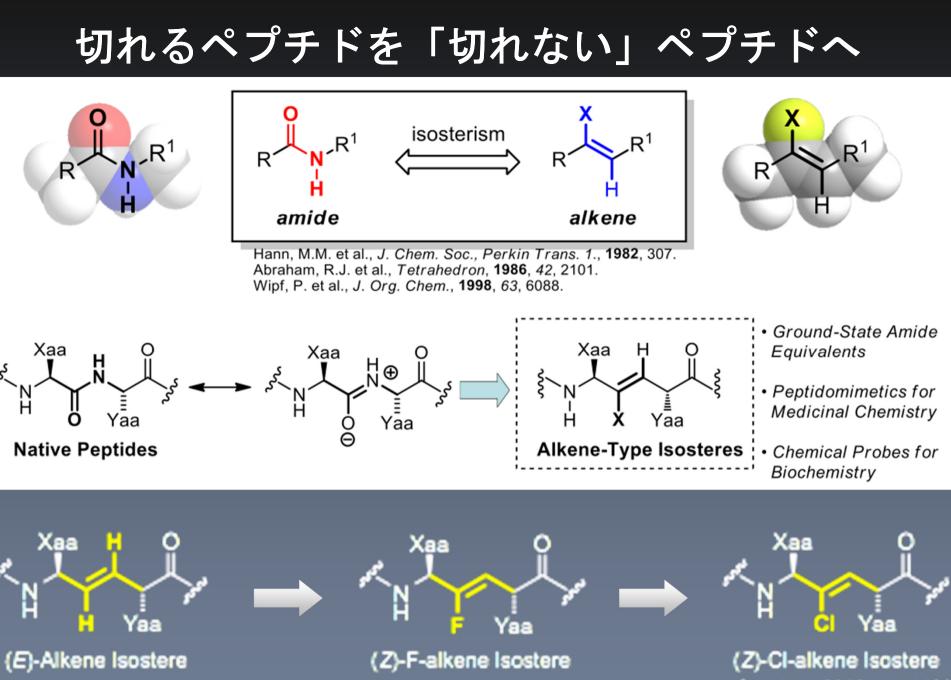
#### What is the Essence of Organic Chemistry?

"Although natural products may present the ultimate and most attractive synthetic challenges, designed molecules provide exiting opportunities beyond those associated with their syntheses."

"Generating new substances and investigating their properties gives the synthetic chemist an awesome power and a sense of freedom of expression that is normally reserved for artistic endeavors."

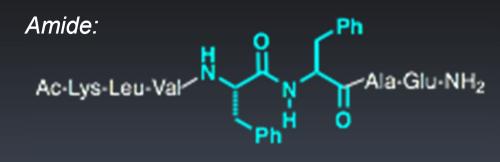


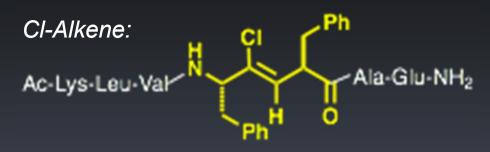
From *The New Chemistry* P171.

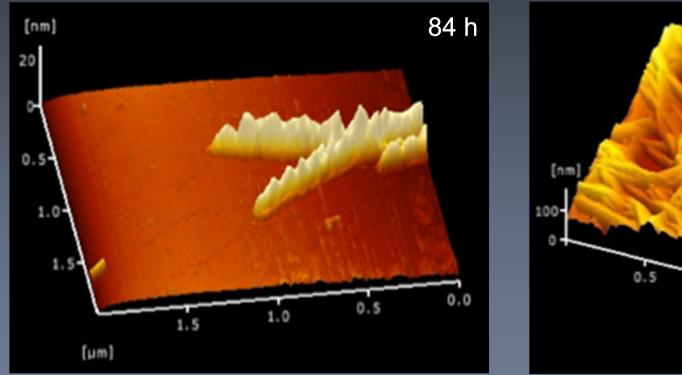


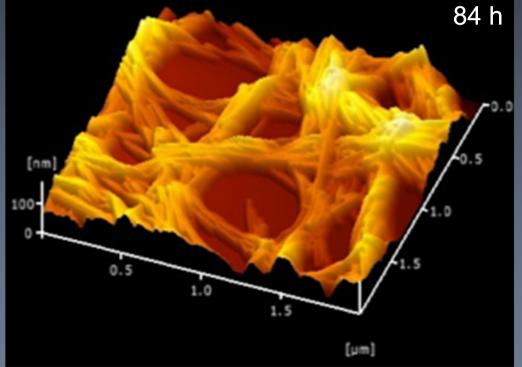
J. Med. Chem., 2005, 48, 380. Chem. Commun., 1997, 2327. Tetrahedron, 2008, 64, 4332. J. Org. Chem., 2004, 69, 1634. (Z)-CI-alkene Isostere Org. Lett. 2012, 14, 4490. Org. Lett. 2015, 17, 2302.

### AFM Analysis of Fibril Formation of Pseudopeptide









Aggregation condition: 640 µM in MOPS buffer solution at 37 °C.

Atomic force microscopy (AFM) images were captured in the dynamic force mode in aqueous solution at room temperature using a SPI3800N. A V-shaped Scan Asyst Fluid+ cantilever with a spring constant of 37 N/m. The obtained images were analyzed using the AFM software NanoScope version 1.40 and Image J.