

## Tuberculosinyl Adenosines: Novel Terpene Nucleosides from *Mycobacterium Tuberculosis*

Jeffrey Buter<sup>1</sup>, David Young<sup>2</sup>, Emilie Layre<sup>2</sup>, Branch Moody<sup>2</sup>, Adriaan J. Minnaard<sup>1</sup>

<sup>1</sup>University of Groningen, Groningen, The Netherlands, <sup>2</sup>Harvard Medical School, Boston, MA, USA

Tuberculosis (TB) remains a leading cause of death worldwide, resulting in 1.5 million deaths annually and yet no rapid, sensitive, and specific diagnostic test exists. Recently two novel terpene nucleosides were isolated from *Mycobacterium tuberculosis* (MTb) which were identified as 1-tuberculosinyl adenosine (1-TbAd) and N6-tuberculosinyl adenosines (N6-TbAd). In this presentation the first asymmetric total synthesis of the TbAd molecules will be discussed together with the development of specific diagnostic tests for MTb.

