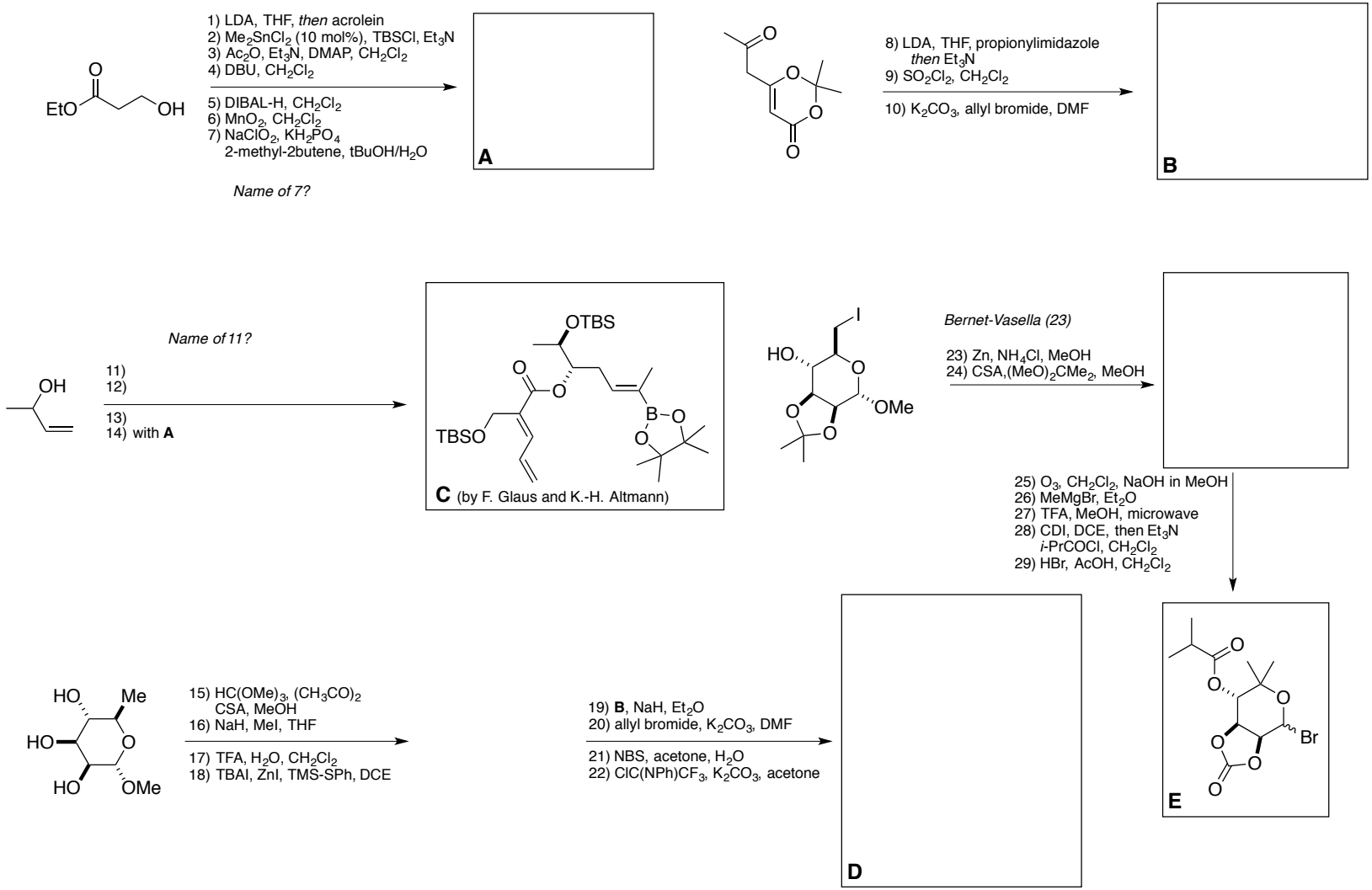
E47: Total Synthesis of Fidaxomicin



H. Miyatake-Ondozabal, E. Kaufmann, K. Gademann, *Angew. Chem. Int. Ed.* **2015**, *54*, 1933–1936; E. Kaufmann, H. Hattori, H. Miyatake-Ondozabal, K. Gademann, *Org. Lett.* **2015**, *17*, 3514–3517; F. Glaus, K.-H. Altmann, *Angew. Chem. Int. Ed.* **2015**, *54*, 1937-1940; W. Erb. J.-M. Grassot, D. Linder, L. Neuville, J. Zhu, *Angew. Chem. Int. Ed.* **2015**, *54*, 1929–1932.

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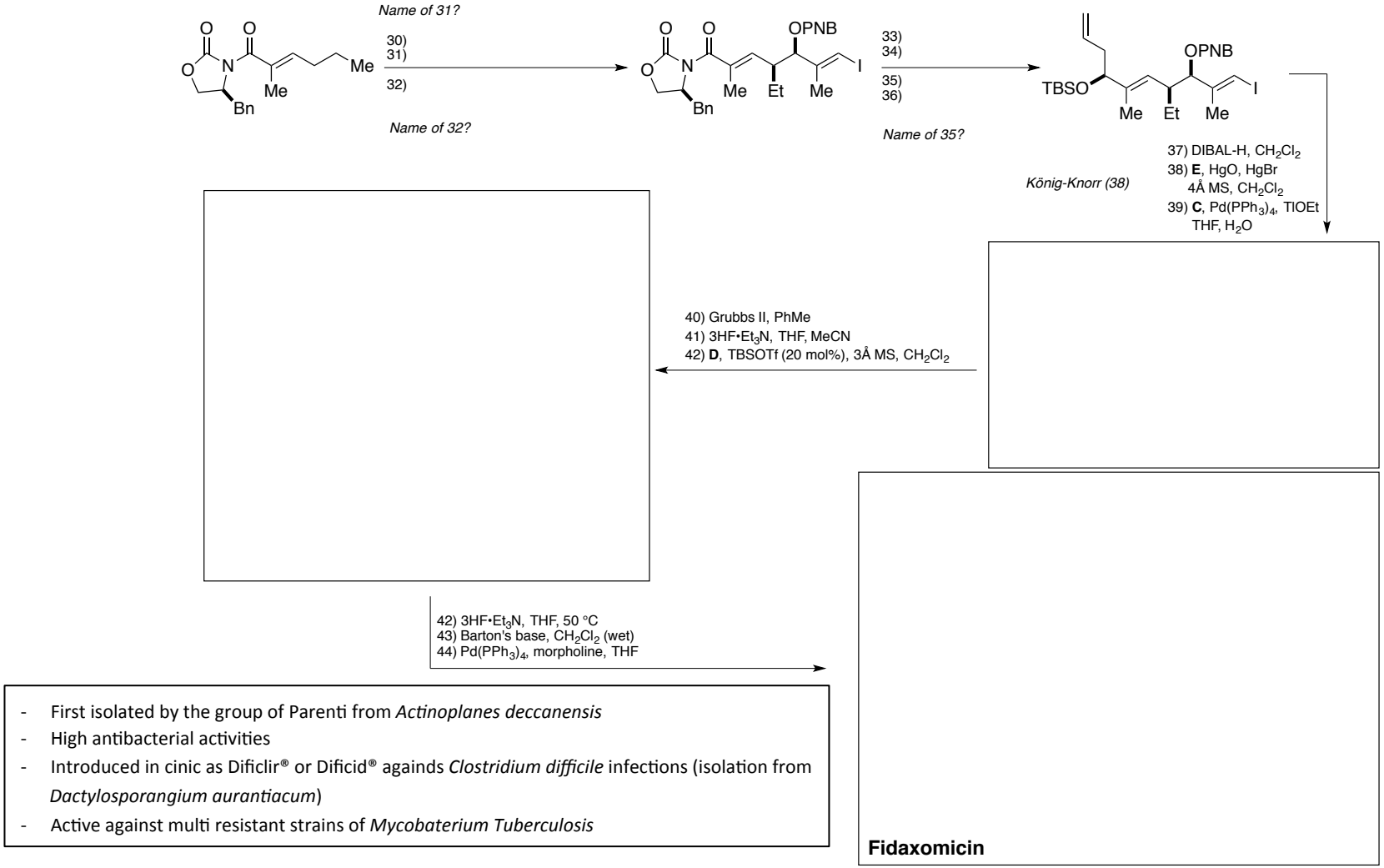
E47: Total Synthesis of Fidaxomicin



- First isolated by the group of Parenti from *Actinoplanes deccanensis*
- High antibacterial activities
- Introduced in cinic as Dificlir® or Dificid® againds *Clostridium difficile* infections (isolation from *Dactylosporangium aurantiacum*)
- Active against multi resistant strains of *Mycobaterium Tuberculosis*

H. Miyatake-Ondozabal, E. Kaufmann, K. Gademann, *Angew. Chem. Int. Ed.* **2015**, *54*, 1933–1936; E. Kaufmann, H. Hattori, H. Miyatake-Ondozabal, K. Gademann, *Org. Lett.* **2015**, *17*, 3514–3517; F. Glaus, K.-H. Altmann, *Angew. Chem. Int. Ed.* **2015**, *54*, 1937-1940; W. Erb. J.-M. Grassot, D. Linder, L. Neuville, J. Zhu, *Angew. Chem. Int. Ed.* **2015**, *54*, 1929–1932.

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