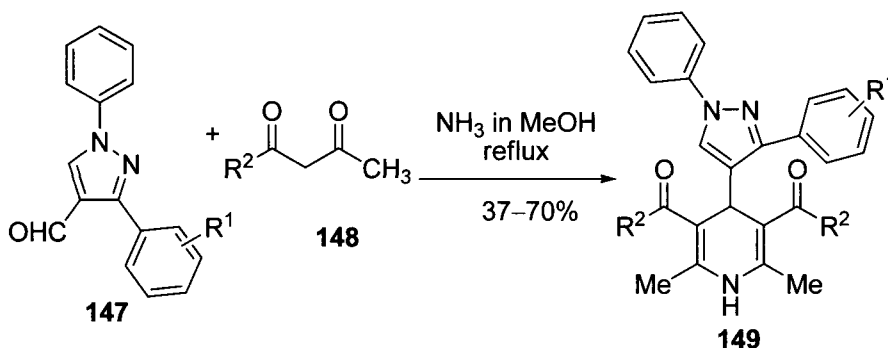


The Hantzsch-type of pyridine synthesis was also used in the total synthesis and stereochemical assignment of the thiopeptide antibiotic micrococcin P1.<sup>106</sup>

A series of 1,4-dihydropyridines **149** bearing pyrazole derivatives was shown to have anti-tubercular activity against *Mycobacterium tuberculosis* H<sub>37</sub>Rv.<sup>107</sup>



A potassium channel opener Z0947 (**152**) was used for treatment of urinary urge incontinence. The asymmetric synthesis<sup>108</sup> to support clinical trials involves the condensation of unsaturated ketone **150** and **151** in acetonitrile containing TMSCl. The product was not isolated but treated with aqueous ammonia and ammonium chloride. After workup, **152** was obtained in 95% *ee*.

