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Next generation lipopeptide antibiotics

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List of publications

Al Ayed, K.; Zamarbide Losada, D.; Machushynets, N. V.; Terlouw, B.; Elsayed, S. S.; Schill, J.; Trebosc, V.; Pieren, M.; Medema, M. H.; van Wezel, G. P.; Martin, N. I. Total Synthesis and Structure Assignment of the Relacidine Lipopeptide Antibiotics and Preparation of Analogues with Enhanced Stability. *ACS Infect Dis* **2023**, 9 (4), 739–748. <https://doi.org/10.1021/acsinfectdis.3c00043>.

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Curriculum Vitae

Karol Al Ayed was born on 5 July 1990 in Gdynia, Poland. In 2000 he moved to the Netherlands with his mother. After graduating high school at the Stanislas college in Delft, he started the bachelor life science & technology at Leiden University and TU Delft. During the bachelor program Karol became increasingly more interested in chemistry which led him to pursue an internship in the group of prof.dr. Hermen Overkleeft. There he worked on the synthesis and evaluation of selective immunoproteasome inhibitors. The work there sparked Karol's curiosity in chemistry even further and led him to pursue a master's degree in chemistry at Leiden University. During this time he worked on the discovery of novel phospholipase A/acyltransferase inhibitors in the group of prof.dr. Mario van der Stelt. After obtaining the degree of master in science in chemistry Karol pursued a PhD in the group of prof.dr. Nathaniel Martin, initially at Utrecht University and subsequently at Leiden University. There he mainly worked on the synthesis and assessment of lipopeptide antibiotics. As of February 2023, Karol is working as a Lead Scientist at the Nuclear Research and Consultancy Group (NRG) in Petten.