



Nombre: Christoph Gerke

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Posición y cargo: Investigador postdoctoral - Marie Curie Individual Fellow

Grupo de Investigación: Materiales Nanoestructurados Bioactivos (**MatNaBio**)

Docencia: Química Orgánica

Área de Conocimiento: Química Orgánica, Química Analítica

SCOPUS: - **ORCID:** 0000-0002-5847-2364 **Researcher ID:** AAC-3995-2020

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Biography: Christoph Gerke was born in Uslar, Germany, in 1989. He received the degrees International Bachelor of Applied Chemistry (B. Sc.) in 2013 and Master of Bio- and Pharmaceutical Analysis (M.Sc.) in 2014, both from the Hochschule Fresenius Idstein, Germany. Between 2014 and 2019, he was conducting his Ph.D. in the group of Prof. Laura Hartmann at the Heinrich-Heine-University Düsseldorf, Germany. During that time, he was working on the synthesis of sequence-controlled glycopolymers for the evaluation of carbohydrate-lectin interactions. In 2019, he received his Ph.D. in Organic and Macromolecular Chemistry, for which he was rewarded with the grade *summa cum laude*. Since 2019 he is a postdoctoral researcher at the UCM in the MatNaBio group, led by Prof. Jorge Rubio Retama. In 2020 he was granted a Marie Skłodowska-Curie Action – Individual Fellowship to work on a novel pretargeted imaging and drug delivery approach in oncology, performing *in vivo* click reaction between antibody fragments and different types of nanoparticles. He is an organic chemist, specialized in the fields of peptide and carbohydrate synthesis as well as click reactions for functionalization reactions and polymerizations.

Research Interest: Targeted imaging and targeted drug delivery, oncology, carbohydrate-lectin and protein-protein based multivalent interactions, NIR bioimaging