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Charlotte Verstraete

Chemistry

Trainee Patent Attorney

Charlotte Verstraete received her Bachelor and Master degree in Biochemistry and Biotechnology at the KU Leuven. She received her PhD in chemistry in 2019 with a dissertation titled *Application of Nonlinear Optics in Entomology* in the group of Prof. Thierry Verbiest, also at the KU Leuven. Charlotte joined V.O. in 2019 because of her broad interest in science and technology in general and her affinity with languages and law.

Education

- PhD in Chemistry, KU Leuven, 2019
- MSc in Biochemistry and Biotechnology, KU Leuven, 2014 (magna cum laude)
- Erasmus in Chalmers University of Technology (Göteborg, Sweden)
- Master thesis in imec (Leuven), "Gold nanostars for specific targeting of cancer cells: solving the protein corona problem", 2014
- BSc in Biochemistry and Biotechnology, KU Leuven, 2012 (cum laude)

Publications

- Antoine D'Hollander, Hilde Jans, Greetje Vande Velde, Charlotte Verstraete, Sam Massa, Nick Devoogdt, Tim Stakenborg, Serge Muyldermans, Liesbet Lagae, and Uwe Himmelreich. "Limiting the protein corona: A successful strategy for in vivo active targeting of anti-HER2 nanobody-functionalized nanostars." Biomaterials 123 (2017): 15-23.
- Charlotte Verstraete, Matthias Ceulemans, Maarten Bloemen, B. Manshian, Stefaan J. Soenen, Tatjana N. Parac–Vogt, Uwe Himmelreich, and Thierry Verbiest. "The development of multimodal nanoparticles for an early detection of tumors." In Optical Molecular Probes, Imaging and Drug Delivery, pp. JTu1C-4. Optical Society of America, 2017.
- Charlotte Verstraete, Sébastien R. Mouchet, Dimitrije Mara, Stijn Van Cleuvenbergen, Ewan D. Finlayson, Rik Van Deun, Olivier Deparis, Thierry Verbiest, Bjorn Maes, Peter Vukusic and Branko Kolaric. "Nonlinear optical spectroscopy and two-photon excited fluorescence spectroscopy reveal the excited states of fluorophores embedded in a beetle's elytra." Journal of the Royal Society Interface Focus 9, no. 1 (2018): 20180052.
- Charlotte Verstraete, Sébastien R. Mouchet, Thierry Verbiest, and Branko Kolaric. "Linear and nonlinear optical effects in biophotonic structures using classical and nonclassical light." Journal of biophotonics 12, no. 1 (2019): e201800262.

Languages

- Dutch
- English
- French