

12th Summer Academy “Infection and Immunity”
Lecture 5 on Friday, 15 July 2022

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“Calcium phosphate nanoparticles and their application in medicine”

Publications for seminar preparation:

D. Damm, K. Kostka, C. Weingärtner, J.T. Wagner, L. Rojas-Sanchez, S. Gensberger-Reigl, **V. Sokolova**, K. Überla, M. Epple, V. Temchura

[Covalent coupling of HIV-1 glycoprotein trimers to biodegradable calcium phosphate nanoparticles via genetically encoded aldehyde-tags](#)

Acta Biomaterialia 140 (2022) 586-600.

Viktoriya Sokolova, Matthias Epple

[Biological and Medical Applications of Calcium Phosphate Nanoparticles](#)

Chemistry. 2021 May 12;27(27):7471-7488. Epub 2021 Mar 16. (Review)

Leonardo Rojas-Sánchez, Ejuan Zhang, **Viktoriya Sokolova**, Maohua Zhong, Hu Yan, Mengji Lu, Qian Li, Huimin Yan, Matthias Epple

[Genetic Immunization Against Hepatitis B Virus with Calcium Phosphate Nanoparticles in Vitro and in Vivo](#)

Acta Biomater. 2020 Jul 1;110:254-265. doi: 10.1016/j.actbio.2020.04.021. Epub 2020 Apr 25.

Sebastian A Kollenda, Jasmin Klose, Torben Knuschke, **Viktoriya Sokolova**, Jochen Schmitz, Magdalena Staniszewska, Pedro Fragoso Costa, Ken Herrmann, Astrid M Westendorf, Wolfgang P Fendler, Matthias Epple
[In Vivo Biodistribution of Calcium Phosphate Nanoparticles After Intravascular, Intramuscular, Intratumoral, and Soft Tissue Administration in Mice Investigated by Small Animal PET/CT](#)

Acta Biomater. 2020 Jun;109:244-253. doi: 10.1016/j.actbio.2020.03.031. Epub 2020 Apr 4.