



Final Conference

Friday, 30th September 2022

9:30 AM to 5:00 PM

Online-Meeting

A [ZOOM LINK](#) will be sent to registered participants

Sponsored by



Bundesministerium
für Bildung
und Forschung

Agenda

- 9:30 AM** **M. Wiemann:** Welcome
- 9:40 AM** **M. Wiemann:** Highlights of the NanoBioQuant Project
- 10:00 AM** **S. B. Seiffert, S. Kröger. A. Vennemann:** Combining LA-ICP-MS and immunohistochemical staining with lanthanide-labelled antibodies to identify Ce-loaded macrophages
- 10:20 AM** **S. B. Seiffert, S. Gröters, L. Ma-Hock, S. Kröger, A. Vennemann:**
Biodistribution and fate of CeO₂ NPs after long-term inhalation: Combining low/high resolution LA-ICP-MS, LA-spICP-MS and TEM analyses
- 10:50 AM** **L. Ma-Hock:** The role of LA-ICP-MS to determine organ burden and spatially resolved organ distribution of inhaled particles in toxicological studies
- 11:10 AM - 11:30 AM Coffee Break***
- 11:30 AM** **U. Karst, I. Nordhorn:** Complementary bioimaging of tissue sections
- 12:00 AM** **D. Breitenstein, B. Hagenhoff:** ToF-SIMS analyses
- 12:30 PM - 1:20 PM Lunch Break***
- 1:20 PM** **B. Kemper:** Optical Quantification of nanoparticle effects in histological tissue sections and living cells
- 1:50 PM** **J. Schnekenburger:** Optical characterization of nanoparticle effects on cell and tissue morphology & cellular signaling pattern detection
- 2:10 PM** **U. Karst, A. Köhrer:** Single cell and single particle analysis by means of ICP-MS
- 2:40 PM** **A. Marzi:** Single cell quantification of nanoparticles
- 3:00 PM - 3:20 PM Coffee Break***
- 3:20 PM** **M. Wiemann, A. Vennemann:** From in vivo-analyses towards cell studies: Adapted in vitro models for nanotoxicology
- 3:50 PM** **A. Vennemann, M. Wiemann:** Human macrophages for nanotoxicological studies
- 4:10 PM** Wrap up and Final Discussion

5:00 PM End of Meeting
