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Nationality:

German

Phd student at:

Institute of pharmaceutical biology and biotechnology
<https://www.pharmazie.hhu.de/institut-fuer-pharmazeutische-biologie-und-biotechnologie/arbeitskreise/ak-kalscheuer-1>

Main supervisor:

Prof. Dr. Rainer Kalscheuer

Project title:

Bactofection-mediated immune modulation by engineered strains of the live vaccine *Mycobacterium bovis* BCG

Research focus:

Mycobacterium bovis BCG is an attenuated strain derived from the pathogenic bacterium *M. bovis* and is widely used as a live vaccine for prophylaxis against tuberculosis, which is caused by *Mycobacterium tuberculosis*. Moreover, *M. bovis* BCG is used as a gold standard in adjuvant-therapy for non-muscle-invasive bladder cancer (NMIBC). This study aims to construct recombinant *M. bovis* BCG strains that induce immunostimulatory pathways in infected immune cells to boost their anti-tuberculosis and/or anti-tumor response.

Personal interests & motto:

Everything happens for a reason.

Advantages of being a MOI V fellow:

The MOI graduate school provides unparalleled networking opportunities and a comprehensive scientific curriculum that includes stay abroad programs, lab rotations, symposia, and workshops. This allows you to gain deep insights into diverse research areas and advanced lab techniques, thus acquiring an interdisciplinary skill set.

MOI V fellow since:

02/2026

