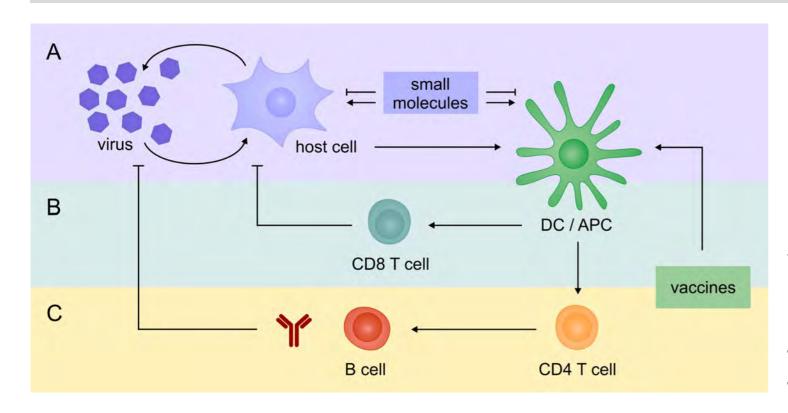






CALL FOR APPLICATIONS Medical Doctoral (Dr. med.) student positions available

GRK 2504: Novel antiviral approaches



Our research programme aims to explore novel approaches for antiviral chemotherapy and immune intervention that build upon recent developments in molecular virology and immunology. The individual research projects address antiviral small molecules (area A), immune cell-mediated antiviral effects (area B), and antibody-based approaches (area C). Altogether, we envision multimodal antiviral strategies that combine antiviral chemotherapy with immune-based interventions as the most promising path towards the control of persistent viruses. For excellent candidates, we offer MD thesis projects embedded in the training programme of GRK 2504 based on a 1-year fellowship for a research sabbatical.

Open positions and training programme

#	PI(s)	Thesis topic		Qualification phase
Area A: Antiviral small molecules			Feb 2024 –	(in parallel to studying medicine)lecture: Basics of antiviral strategies
A1	M. Marschall	Addressing the broadness of antiherpesviral activity in drug synergism between directacting and host-directed kinase inhibitors	Sep 2024	 introduction to methods 5 day lab course course: proposal writing with thesis
Area B: Harnessing T-cell immunity				proposal submission
B6	A. Ensser	RNA mediated delivery of MCMV targeted CAR for the generation of MCMV specific effector T cells	Oct 2024 – Sep 2025	Experimental phase (research sabbatical 1 semester fellowship 1 year) experimental work internal seminar guest seminar colloquia
B3 + C3	K. Nganou- Makamdop & M. Thomas	CMV-specific humoral immunity among HIV-infected pregnant women		
Area C: Antibody-based immunotherapy and prophylaxis				retreat
C4	F. Neipel	Analysis of the antibody response in patients recovered from Kaposi's sarcoma and identification of neutralizing antibodies	Oct 2025 – Sep 2026	 Evaluation phase (in parallel to studying medicine) scientific presentation scientific writing participation at conference writing of thesis and manuscript
C5	K. Überla & F. Ferrazzi	Analysis of spike-specific IgG subclass response in SARS-CoV-2 breakthrough infections for the identification of immunological factors contributing to an IgG4 antibody switch		
C5	K. Überla & F. Ferrazzi	Comparison of the HIV-1-specific B cell receptor repertoire in humans and antibody-humanized mice after three immunizations with soluble trimers of the HIV-1 envelope glycoprotein (Env)		Dr. med.

Please apply until January 31, 2024 to grk2504-info@fau.de using the application form on the website! For more information visit www.virologie.uk-erlangen.de/en/grk2504/ or contact Dr. Simone Reiprich.