

15th Summer Academy “Infection and Immunity”
Lecture 15 on Wednesday, 5 August, 2026

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Group: Molecular Tumor Immunology

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The interplay between tumor-specific and virus-specific cytotoxic CD4 T cells in tumor control

Publications for seminar preparation:

HLA Class II Loss and JAK1/2 Deficiency Coevolve in Melanoma Leading to CD4 T-cell and IFN γ Cross-Resistance

Simone Stupia, Christina Heeke, Alicia Brüggemann, Anne Zaremba, Beatrice Thier, Julia Kretz, Antje Sucker, Manuel Philip, Gennadiy Zelinsky, Soldano Ferrone, Alexander Roesch, Susanne Horn, Eva Hadaschik, Dirk Schadendorf, Mirko Trilling, Ulf Dittmer, Klaus Griewank, Fang Zhao, Annette Paschen. Clin Cancer Res. 2023 Aug 1;29(15):2894-2907. doi: 10.1158/1078-0432.CCR-23-0099.

Cytotoxic CD4⁺ T cells in chronic viral infections and cancer

Anna Malyshkina, Alicia Brüggemann, Annette Paschen, Ulf Dittmer

Review. Front Immunol. 2023 Oct 25;14:1271236. doi: 10.3389/fimmu.2023.1271236. eCollection 2023.

Acquired IFN γ resistance impairs anti-tumor immunity and gives rise to T-cell-resistant melanoma lesions

Antje Sucker, Fang Zhao, Natalia Pieper, Christina Heeke, Raffaella Maltaner, Nadine Stadler, Birgit Real, Nicola Bielefeld, Sebastian Howe, Benjamin Weide, Ralf Gutzmer, Jochen Utikal, Carmen Loquai, Helen Gogas, Ludger Klein-Hitpass, Michael Zeschneck, Astrid M Westendorf, Mirko Trilling, Susanne Horn, Bastian Schilling, Dirk Schadendorf, Klaus G Griewank, Annette Paschen

Nat Commun. 2017 May 31;8:15440. doi: 10.1038/ncomms15440.