

**14th Summer Academy “Infection and Immunity”
Lecture 13 on Tuesday, 26 August, 2025**

Prof. Dr. Elisabeth Littwitz-Salomon



Institute for the Research on HIV and AIDS-associated Diseases
University of Duisburg-Essen

https://www.uni-due.de/hiv/translationalforschung_eng.php

Elisabeth.Littwitz@uni-due.de

Natural killer cells – friend or foe?

Publications for seminar preparation:

Schimmer S, Kerkmann L, Kahlert N, Jubeh SA, Werner T, Corkish C, Prendeville H, Finlay DK, Sutter K, Dittmer U, **Littwitz-Salomon E**.

[Dietary lipid overload creates a suppressive environment that impedes the antiviral functions of NK cells.](#)

iScience. 2025 Apr 9;28(5):112396. doi: 10.1016/j.isci.2025.112396

Elisabeth Littwitz-Salomon, Diana Moreira, Joe N Frost, Chloe Choi, Kevin T Liou, David K Ahern, Simon O'Shaughnessy, Bernd Wagner, Christine A Biron, Hal Drakesmith, Ulf Dittmer, David K Finlay

[Metabolic requirements of NK cells during the acute response against retroviral infection.](#)

Nature Communications (2021). Doi: 10.1038/s41467-021-25715-z

Elisabeth Littwitz-Salomon, Ulf Dittmer, Kathrin Sutter

[Insufficient natural killer cell responses against retroviruses: how to improve NK cell killing of retrovirus-infected cells](#)

Retrovirology (2016). Doi: 10.1186/s12977-016-0311-8.

Manja Idorn and Pernille Hojman

[Exercise-Dependent Regulation of NK Cells in Cancer Protection](#)

Trends in Molecular Medicine (2016). Doi: 10.1016/j.molmed.2016.05.007

Josh Crouse, Haifeng C Xu, Philipp A Lang, Annette Oxenius

[NK cells regulating T cell responses: mechanisms and outcome](#)

Trends Immunol 36 (2015). Doi: 10.1016/j.it.2014.11.001

Yannick O Alexandre, Clément D Cocita, Sonia Ghilas, Marc Dalod

[Deciphering the role of DC subsets in MCMV infection to better understand immune protection against viral infections](#)

Frontiers in Immunology (2014). doi: 10.3389/fmicb.2014.00378

Eric Vivier, Sophie Ugolini, Didier Blaise, Christian Chabannon and Laurent Brossay

[Targeting natural killer cells and natural killer T cells in cancer](#)

Nat Rev Immunol (2012). Doi:10.1038/nri3174