

Selection of publications of EMC coworkers and cooperation partners in the field of peptides and combinatorial peptide collections

1. K. Udaka, K.-H. Wiesmüller, S. Kienle, G. Jung, and P. Walden (1995) Decrypting the Structure of MHC-I Restricted CTL Epitopes with Complex Peptide Libraries. *J. Exp. Med.* 181, 2097-2108.
2. S. Uebel, T. H. Meyer, W. Kraas, S. Kienle, K.-H. Wiesmüller, G. Jung, and R. Tampé (1995) Formation of Peptide-Transporter (TAP) Complexes Studied by Peptide Scans and Complex Peptide Libraries. *J. Biol. Chem.* 270, 18512-18516.
3. B. R. Gundlach, K.-H. Wiesmüller, T. Junt, S. Kienle, G. Jung, and P. Walden (1996) Determination of T Cell Epitopes with Random Peptide Libraries. *J. Immunol. Methods* 192, 146-155.
4. S. Uebel, W. Kraas, S. Kienle, K.-H. Wiesmüller, G. Jung, and R. Tampé (1997) Recognition Principle of the Transporter Associated with Antigen Processing. *Proc. Natl. Acad. Sci., USA*, 94, 8976-8982.
5. B. Hemmer, B. Fleckenstein, M. Vergelli, G. Jung, H. McFarland, R. Martin, and K.-H. Wiesmüller (1997) Identification of High Potency Microbial and Self Ligands for a Human Autoreactive Class II-Restricted T Cell Clone. *J. Exp. Med.* 185, 1651-1659.
6. S. Voss, S. Welte, M. Fotin-Mleczek, R. Fischer, A. J. Ulmer, G. Jung, K.-H. Wiesmüller, and R. Brock (2006) A CD14 Domain with Lipopolysaccharide-Binding and Neutralizing Activity. *ChemBioChem* 7, 275-286.
7. S. Voss, R. Fischer, G. Jung, K.-H. Wiesmüller, and R. Brock (2007) A Fluorescence-Based Synthetic LPS Sensor. *J. Am. Chem. Soc.* 129, 554-561.
8. S. Günther, A. Schlundt, J. Sticht, Y. Roske, U. Heinemann, K.-H. Wiesmüller, G. Jung, K. Falk, O. Röttschke and C. Freund (2010) Bidirectional Binding of a Self Antigen to MHC Class II Molecules. *PNAS* 107(51), 22219-22224.
9. M. Herget, C. Baldauf, C. Schölz, D. Parcej, K.-H. Wiesmüller, R. Tampé, R. Abele and E. Bordignon (2011) Conformation of peptides bound to the transporter associated with antigen processing (TAP). *PNAS* 108(4) 1349-1354.
10. D. Jha, R. Mishra, S. Gottschalk, K.-H. Wiesmüller, K. Ugurbil, M.E. Maier, J. Engelmann (2011) CyLoP-1: a novel cysteine-rich cell-penetrating peptide for cytosolic delivery of cargoes. *Bioconjug. Chem.* 16;22(3), 319-328. doi: 10.1021/bc100045s.
11. B. Rupp, S. Günther, T. Makhmoor, A. Schlundt, K. Dickhaut, S. Gupta, I. Choudhary, K.-H. Wiesmüller, G. Jung, C. Freund, K. Falk, O. Röttschke, R. Kühne (2011) Characterization of structural features controlling the receptiveness of empty class II MHC molecules. *PLoS One.* 14;6(4), e18662.
12. Y.-W. Kam, F.-M. Lum, T.-H. Teo, W.W. Lee, D. Simarmata, S. Harjanto, C.-L. Chua, Y.-F. Chan, J.-K. Wee, A. Chow, R.T. Lin, Y.-S. Leo, R. Le Grand, I.-C. Sam, J.-C. Tong, P. Roques, K.-H. Wiesmüller, L. Rénia, O. Röttschke, L.F. Ng (2012) Early neutralizing IgG response to Chikungunya virus in infected patients targets a dominant linear epitope on the E2 glycoprotein. *EMBO Mol. Med.* 4(4), 330-343. doi.org/10.1002/emmm.201200213.
13. R.B. Baleeiro, K.-H. Wiesmüller, Y. Reiter, B. Baude, L. Dähne, A. Patzelt, J. Lademann, J.A. Barbuto, P. Walden (2013) Topical Vaccination with Functionalized Particles Targeting Dendritic Cells. *J. Invest. Dermatol.* 20. doi: 10.1038/jid.2013.79.
14. R.B. Baleeiro, K.-H. Wiesmüller, L. Dähne, J. Lademann, J.A. Barbuto, P. Walden (2013) Direct Activation of Human Dendritic Cells by Particle-Bound but Not Soluble MHC Class II Ligand. *PLoS One* 8(5): e63039. doi:10.1371/journal.pone.0063039.
15. N.C. Perera, K.-H. Wiesmüller, M.T. Larsen, B. Schacher, P. Eickholz, N. Borregaard, D.E. Jenne (2013) NSP4 is stored in azurophil granules and released by activated neutrophils as active endoprotease with restricted specificity. *J. Immunol.* 191(5):2700-2707. doi:10.4049/jimmunol.1301293.
16. G. M. de Tejada, L. Heinbockel, R. Ferrer-Espada, H. Heine, C. Alexander, S. Bárcena-Varela, T. Goldmann, W. Correa, K.-H. Wiesmüller, N. Gisch, S. Sánchez-Gómez, S. Fukuoka, T. Schürholz, T. Gutsmann, K. Brandenburg (2015) Lipoproteins/peptides are sepsis-inducing toxins from bacteria that can be neutralized by synthetic anti-endotoxin peptides. *Sci Rep.* 22;5:14292. doi: 10.1038/srep14292.