**Name:**
**Dr. Renate Kunert, PhD**

**Work address:**
University of Natural Resources and Life Sciences,
Department of Biotechnology
Muthgasse 18, A-1190 Vienna, Austria
Phone: +43 1 47654 6595

**e-mail:** renate.kunert@boku.ac.at

Renate Kunert received her doctorate from the University of Natural Resources and Life Sciences, Vienna, Austria, where she is Professor for “Animal Cell Factory Design” and is leading the working group for recombinant protein expression in animal cells.
The interest of her working group is focused on the development of recombinant cell lines for large-scale production of therapeutic proteins. The physiology of recombinant cells is originally defined by the host cell line, which is afterwards subjected to phenotypical and genotypical changes occurring during the developing process of producer clones. Selected recombinant cell lines expressing large and complex proteins are used for cell biological investigations to elucidate pathways responsible for the cellular performance. The working group is also developing production processes in lab scale fermentation.

5 selected publications:

Huber, G; Banki, Z; Kunert, R; Stoiber, H (2014). “Novel Bifunctional Single-Chain Variable Antibody Fragments to Enhance Virolysis by Complement: Generation and Proof-of-Concept.” BIOMED RES INT. 2014

Mader, A., B. Prewein, K. Zboray, E. Casanova, and **R. Kunert** (2013). ”Exploration of BAC versus plasmid expression vectors in recombinant CHO cells.” Appl Microbiol Biotechnol.; 97(9): 4049-4054.

Reinhart D., R. Weik, **R. Kunert** (2012). „Recombinant IgA production: Single step affinity purification using camelid ligands and product characterization.” Journal of Immunological Methods; 378(1–2): 95-101.

Gach, J.S., P.G. Furtmüller, H. Quendler, P. Messner, R. Wagner, H. Katinger and **R. Kunert** (2010). “Proline is not uniquely capable of providing the pivot point for domain swapping in 2G12, a broadly neutralizing antibody against HIV-1.” J Biol Chem; 285(2): 1122-1127.

Lattenmayer, C., E. Trummer, K. Schriebl, K. Vorauer-Uhl, D. Mueller, H. Katinger and **R. Kunert** (2007). “Characterisation of recombinant CHO cell lines by investigation of protein productivities and genetic parameters J. of Biotech.” 128(4): 716-25