List of publications


Reusch D, Tejada M. Fc glycans of therapeutic antibodies as critical quality attributes. Glycobiology 2015, submitted


Falck D, Jansen B, Plomp R, Reusch D, Haberger M, Wuhrer M. Glycoforms of immunoglobulin G based biopharmaceuticals are differentially cleaved by trypsin due to the glycoform influence on higher order structure. Journal of Proteome Research 2015, submitted

**List of patents**

Hansen S, Kuenkele KP, **Reusch D**, Schumacher R. WO 2007115814. Antibodies against insulin-like growth factor I receptor and uses thereof (An antibody binding to IGF-IR, being of human IgG1 or IgG3 type and being glycosylated with a sugar chain at Asn297, said antibody being characterized in that the amount of fucose within said sugar chain is at least 99%). Apr 10, 2007

Hansen S, Kuenkele KP, **Reusch D**, Schumacher R. WO 2007115813. Fucosylation of therapeutic antibodies (The antibodies are characterized as glycosylated at Asn297 with an amount of fucose at least 99%. In one example, a fucosylated humanized IgG1 directed against insulin-like growth factor-1 receptor is produced and its ADCC effector function examined). Oct 18, 2007


Haberger M, Jung C, **Reusch D**. WO 2011012297. Enzymatic antibody processing (method for producing an Ig or Ig fragment with defined glycostructure). Feb 3, 2011

Haberger M, **Reusch D**, Selman M, Wuhrer M. WO 2011026640. Electrospray ionization-mass spectrometric analysis of Ig glycopeptides (method for the determination of the glycosylation profile of an Ig using electrospray mass spectrometry without the need for a chromatographic purification step after the enzymic digestion of the antibody). Mar 10, 2011

Hueller M and **Reusch D**, WO 2013050335. Process for antibody G1 glycoform production (method for producing an Ig or Ig fragment or Ig fusion with G1 glycoform structure. The method comprises the sequential incubation of the Ig with a galactosyltransferase, a sialyltransferase, a β-1,4-galactosidase and a sialidase). Apr 11, 2013


Curriculum vitae

Dietmar Reusch was born at the 4th of May 1962 in Neuhausen/Erms, Germany. He attended grammar school (Gymnasium) at the Dietrich Bonhoeffer Gymnasium in Metzingen/Erms, Germany, from which he graduated in 1981. After his military service he started his studies at Reutlingen University for applied science in 1983 where he earned his M.Sc. degree (Diplom-Ingenieur (FH)). The research for his master thesis, which was performed at Bosch in Schwieberdingen (Germany), concerned the development of methods for analytics of scrubbing solutions. In 1987 he started to work for the TÜV Stuttgart, Germany (Technical Control Board) as chemistry engineer. In 1988 he joined Roche Diagnostics GmbH (former Boehringer Mannheim) in Penzberg, Germany. Here he began his work with respect to glycans by developing kits and enzymes for glycan research under the supervision of Dr. A. Haselbeck. His present job title is Director Analytics Characterization in Roche Pharma Biotech Production and Development. He is responsible for the characterization of large molecules from Roche including glycoanalysis of therapeutic antibodies.

In April 2011 he got the opportunity to start his PhD entitled: “Methods for the glycosylation analysis of therapeutic antibodies” in collaboration with the Glycoproteomics section, Department of Parasitology of the Leiden University Medical Center, at Roche in Penzberg, Germany.
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