



Dr. Thomas Wilk

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Dipl.-Biol.

European Patent Attorney

Professional Qualification

Dr. Thomas Wilk is admitted before the European Patent Office. He started his career in intellectual property with a well respected patent law firm and was deputy head of the IP department of a successful German pharmaceutical company. Dr. Thomas Wilk joined the firm of "Zwicker Schnappauf & Partner Patentanwälte PartG mbB" in 2011.

Thomas' practice puts particular emphasis on advising company strategies for developing and implementing patent strategies that reflect the company's business approach.

Thomas practices domestic and foreign patent portfolio development and management in life sciences such as biotechnology, immunology, biochemistry, molecular biology, pharmaceuticals, molecular diagnostics, genetics, cell biology, stem cell therapy, virology and structural biology.

Thomas studied Biology at the Universities of Cologne, Basle and Heidelberg and prepared his graduation thesis in the department of Prof. Harald zur Hausen at the German Cancer Research Center (DKFZ). He then prepared his doctoral thesis in the department "Applied Tumor Virology" of Prof. Lutz Gissmann at the DKFZ in Heidelberg. Subsequently, Thomas spent several years at the department of structural biology of the European Laboratory for Molecular Biology (EMBL) in Heidelberg and the University of Oxford.

Technical Expertise

Molecular Biology

Biochemistry

Genetics

Immunology

Structural Biology

Virology

LIST OF PUBLICATIONS

Scientific Publications:

- **Wilk T, Mierswa H, Krausslich HG, Dunn JJ, Bosch V.** Expression of biologically active HIV glycoproteins using a T7 RNA polymerase-based eucaryotic vector system. *Virus Genes*. 1992 Aug;6(3):229-46.
- **Wilk T, Pfeiffer T, Bukovsky A, Moldenhauer G, Bosch V.** Glycoprotein incorporation and HIV-1 infectivity despite exchange of the gp160 membrane-spanning domain. *Virology*. 1996 Apr 1;218(1):269-74.
- **Wilk T, Pfeiffer T, Bosch V.** Retained in vitro infectivity and cytopathogenicity of HIV-1 despite truncation of the C-terminal tail of the env gene product. *Virology*. 1992 Jul;189(1):167-77.
- **Fuller SD, Wilk T, Gowen BE, Krausslich HG, Vogt VM.** Cryo-electron microscopy reveals ordered domains in the immature HIV-1 particle. *Curr Biol*. 1997 Oct 1;7(10):729-38.
- **Zemba M, Wilk T, Rutten T, Wagner A, Flugel RM, Lochelt M.** The carboxy-terminal p3Gag domain of the human foamy virus Gag precursor is required for efficient virus infectivity. *Virology*. 1998 Jul 20;247(1):7-13.
- **Grättinger M, Hohenberg H, Thomas D, Wilk T, Muller B, Krausslich HG.** In vitro assembly properties of wild-type and cyclophilin-binding defective human immunodeficiency virus capsid proteins in the presence and absence of cyclophilin A. *Virology*. 1999 Apr 25;257(1):247-60.
- **Wilk T, Fuller SD.** Towards the structure of the human immunodeficiency virus: divide and conquer. *Curr Opin Struct Biol*. 1999 Apr;9(2):231-43. Review.
- **Scheiffele P, Rietveld A, Wilk T, Simons K.** Influenza viruses select ordered lipid domains during budding from the plasma membrane. *J Biol Chem*. 1999 Jan 22;274(4):2038-44.
- **Gross I, Hohenberg H, Wilk T, Wieggers K, Grättinger M, Muller B, Fuller S, Krausslich HG.** A conformational switch controlling HIV-1 morphogenesis. *EMBO J*. 2000 Jan 4;19(1):103-13.
- **Wilk T, de Haas F, Wagner A, Rutten T, Fuller S, Flugel RM, Lochelt M.** The intact retroviral Env glycoprotein of human foamy virus is a trimer. *J Virol*. 2000 Mar;74(6):2885-7.
- **Wilk T, Gross I, Gowen BE, Rutten T, de Haas F, Welker R, Krausslich HG, Boulanger P, Fuller SD.** Organization of immature human immunodeficiency virus type 1. *J Virol*. 2001 Jan;75(2):759-71.
- **Wilk T, Geiselhart V, Frech M, Fuller SD, Flugel RM, Lochelt M.** Specific interaction of a novel foamy virus Env leader protein with the N-terminal Gag domain. *J Virol*. 2001 Sep;75(17):7995-8007.
- **Wilk, T., Welker, R., Kräusslich, H.-G., Boulanger, P., and Fuller, S. D.** Visualization of the bipartite organization of MA in immature HIV-1. *Virus Research* (2001) 77, 105-107.
- **Wilk, T., Welker, R., Rutten, T., Thomas, D., Kräusslich, H.-G., and Fuller, S.** R-The key to HIV capsid assembly? *Virus Research* (2001) 77, 103-105.
- **Briggs JA[#], Wilk T[#], Welker R, Krausslich HG, Fuller SD** ([#]co-first authors). Structural organization of authentic, mature HIV-1 virions and cores. *EMBO J*. 2003 Apr 1;22(7):1707-15.
- **Briggs JA, Wilk T, Fuller SD.** Do lipid rafts mediate virus assembly and pseudotyping? *J Gen Virol*. 2003 Apr;84(Pt 4):757-68. Review.

IP-related publications:

- **Wachenfeld, J. and Wilk, T.** Patentability of protein structures. *The Patent Yearbook 2002 of Managing Intellectual Property*, March 2002.

Other Publications:

- **Briggs JA, Wilk T, Fuller SD.** Do lipid rafts mediate virus assembly and pseudotyping? *J Gen Virol*. 2003 Apr;84(Pt 4):757-68. Review.
- **Wilk T.** WO 2010/089120 and EP2218783
Taylor, H., Eisele, K.-H. **Wilk T.**
WO 2010/069596 and EP2202518