CURRICULUM VITAE

Name:	Ferenc Vonderviszt
Born:	August 7, 1958; Nagyvázsony, Hungary
E-mail:	von007@almos.vein.hu
Phone:	+36-88-624974
Position:	Vice-Rector, Director, Professor
Education:	Diploma in Physics (1982); Eötvös Loránd University, Budapest
Scientific degrees:	Ph.D. in Biophysics (1989) D.Sc. in Biology (2001) Dr. Habil in Biology (2002)

Employment:

Institute of Enzymology, HAS, Budapest; 1982-1992

Institute of Technical Physics and Materials Science, Budapest

2004-	Scientific advisor (part time)

University of Pannonia, Veszprém

1992-2004	Associate Professor (Department of Physics)
2004-2009	Professor, head (Department of Nanotechnology)
2009-2015	Professor, Bio-Nanosystems Laboratory, Research Institute of Chemical and Process Engineering
2015-	Director, Research Institute of Biomolecular and Chemical Engineering
2017-	Director, Center of Excellence for Multidisciplinary Research
2018-	Vice-Rector

Research interest:

Bio-nanotechnology
Structure and self-assembly of bacterial flagella

Fellowships:

Institute of Protein Research, Poushchino, USSR 1983
Scanning microcalorimetry of proteins. (Prof. P.L. Privalov)

Research Development Corporation of Japan, Tsukuba, Japan
Molecular Dynamic Assembly Project 1987-1991; Structure and organization of the bacterial flagellar filament. (Prof. H. Hotani)

International Institute for Advanced Research, Matsushita Co. Ltd., Kyoto, Japan, 1994-1996. Study of the axial subsystem of the bacterial flagellum. (Prof. K. Namba)

Awards:

Prize of the Hungarian Academy of Sciences to Distinguished Young Researchers (1992)
Széchenyi Professorship (1997-2000)
“Researcher of the Year” awarded by the Veszprém Regional Committee of the Hungarian Academy of Sciences (1999)
“Pro Urbe” Prize of Veszprem City (2005)
MBFT medal (Hungarian Biophysical Society) (2014)
Millennium Prize (Hungarian Intellectual Property Office) (2014)

Prima Prize of Veszprém County (Science category) (2014)
VEAB Gold Medal (2015)
Polinszky Prize (2016)
Order of Merit of the Hungarian Republic, Officer's Cross (2018)

Societies: Hungarian Biophysical Society
Hungarian Biochemical Society

Professional activities: Hungarian Scholarship Board, Biological Sciences Panel, head (2011-2015)
Regional Centre of the Hungarian Academy of Sciences, Veszprém, vice president (2009-2014)
Hungarian Biophysical Society, member of the Executive Committee (2003-)
Molecular- and Nanotechnologies PhD School, head (2006-2016)

Languages: English, Japanese

Publications in refereed journals: 67 Total IF: 345 Independent citations: 1970

Selected publications:

Klein A, Kovács M, Muskotál A, Jankovics H, Tóth B, Pósfai M, **Vonderviszt F** (2018) Nanobody-displaying flagellar nanotubes. *Sci. Rep.* 8, 3584.

Bereczk-Tompa É, **Vonderviszt F**, Horváth B, Szalai I, Pósfai M (2017) Biotemplated synthesis of magnetic filaments. *Nanoscale* 9, 15062-15070.

Kovacs B, Patko D, Szekacs I, Orgovan N, Kurunczi S, Sulyok A, Khanh NQ, Toth B, **Vonderviszt F**, Horvath R (2016) Flagellin based biomimetic coatings: From cell-repellent surfaces to highly adhesive coatings. *Acta Biomaterialia* 42, 66-76.

Sajó R, Tőke O, Hajdú I, Jankovics H, Micsonai A, Dobó J, Kardos J, **Vonderviszt F** (2016) Structural plasticity of the Salmonella FliS flagellar export chaperone. *FEBS Letters* 590, 1103-1113.

Klein A, Szabo V, Kovacs M, Patko D, Toth B, **Vonderviszt F** (2015) Xylan-Degrading Catalytic Flagellar Nanorods. *Mol. Biotech.* 57, 814-819.

Sajó R, Liliom K, Muskotál A, Klein Á, Závodszky P, **Vonderviszt F**, Dobó J (2014) Soluble components of the flagellar export apparatus FliI, FliJ and FliH, do not deliver flagellin, the major filament protein, from the cytosol to the export gate. *Biochim Biophys. Acta – Mol. Cell Res*. 1843, 2414-2423. IF: 5.019

Kovács N, Patkó D, Orgován N, Kurunczi S, Ramsden JJ, **Vonderviszt F**, Horváth R (2013) Optical anisotropy of flagellin layers: in situ and label-free measurement of adsorbed protein orientations using OWLS. *Anal. Chem.* 85, 5382-5387. IF: 5.825

Gál, P., Végh, B., Závodszky, P. & **Vonderviszt, F.** (2006). Export signals. *Nat. Biotech.* 24, 900-901. IF: 22.672

Samatey, F., Imada, K., Nagashima, S., **Vonderviszt, F.**, Kumasaka, T., Yamamoto, M. & Namba, K. (2001). Structure of the bacterial flagellar protofilament and implications for a switch with sub-A precision. *Nature* 410, 331-337. IF: 27.955

Yonekura, K., Maki, S., Morgan, D.G., DeRosier, D.J., **Vonderviszt, F.**, Imada, K., Namba K. (2000). The bacterial flagellar cap as the rotary promoter of flagellin self-assembly. *Science* 290, 2148-2152. IF: 23.872

Namba K, **Vonderviszt F** (1997) Molecular architecture of the bacterial flagellum. *Quart. Rev. Biophys.* 30, 1-65. IF: 9.421

Namba K, Yamashita I, **Vonderviszt F** (1989) Structure of the core and central channel of bacterial flagella. *Nature* 342, 648-654. IF: 18.063

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