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**Curriculum vitae**

Name: Prof. Dr. Aladár Szalay

Position: Professor

Affiliation: Chair of Biochemistry, Theodor-Boveri-Institute at the Biocentre

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Career

1966 M.S. Biochemistry, Institute of Biochemistry, Martin Luther University, Halle/Saale, Germany

1971 Ph.D. Biochemistry, January 1971, Institute of Biochemistry, Martin Luther University, Halle/Saale, Germany

1972-1973 Research Scientist, Biological Res. Center Hungarian Academy of Sciences Szeged, Hungary

1973-1975 Gosney Research Fellow, California Institute of Technology Pasadena, CA, USA

1975-1977 Research Associate, California Institute of Technology Pasadena, CA, USA

1962-1977 Adjunct Professor, Division of Biological Sciences, Cornell University, Ithaca, New York, USA

1977-1988 Associate Biochemistry Group Leader in Molecular Biology, Boyce Thompson Institute, Cornell University Ithaca, NY, USA

1988-1995 Endowed Chair Professor, University of Alberta Edmonton, Alberta, Canada

1993-1998 Professor of Microbiology and Molecular Genetics, Director of Molecular Biology and Gene Therapy Center, School of Medicine, Loma Linda University, Loma Linda, CA, USA

1998-2003 University Professor of Biochemistry, School of Medicine Loma Linda University, Loma Linda, CA, USA

since 2001 President & CEO, Chairman of the Board of Directors, Founder Genelux Corporation, San Diego, CA, USA

since 2003 University Professor, Virchow Center for Experimental Biomedicine, Institute for Biochemistry and Institute for Molecular Infection Biology, University of Würzburg, Germany

since 2009 Professor, Department of Radiation Oncology, Rebecca and John Moores Comprehensive Cancer Center, University of California, San Diego, CA, USA

Research Fields

luciferase and fluorescent proteins

tumor colonizing microorganisms for diagnosis and therapy

Selected Awards

1960-1972: Fellowship of Hungary (Distinguished Undergraduate Fellowship of Hungary)

1962-1966: Foreign Undergraduate Fellowship, Ministry of Culture of Hungary

1966-1971: Graduate Student Fellowship in Biochemistry, Awarded by the Hungarian National Academy of Sciences

1973-1975: Gosney Award, California Institute of Technology, Pasadena, CA

1985: Theobald Smith medal awarded by Squibb, Merck Corp. and Princeton University

1985: Alexander von Humboldt Scholar Award, Max Planck Institut, Cologne, Germany

1989: Award of the Economic Council of Advanced Technology, Edmonton, Canada

1993: Wilhelm Exner Award – Vienna, Austria (Medal for Excellence in Science)

1999: Alexander von Humboldt Prize, Bonn, Germany

2002-2004: Vice President of International Society for Bioluminescence and Chemiluminescence

2004-2006: President of International Society for Bioluminescence and Chemiluminescence

Selected Publications

Haddad D, Chen NG, Zhang Q, Chen CH, Yu YA, Gonzalez L, Carpenter SG, Carson J, Au J, Mittra A, Gonen M, Zanzonico PB, Fong Y, Szalay AA (2011): Insertion of the human sodium iodide symporter to facilitate deep tissue imaging does not alter oncolytic or replication capability of a novel vaccinia virus. J Transl Med 9: 36.

Frentzen A, Yu YA, Chen N, Zhang Q, Weibel S, Raab V and Szalay AA (2009): Anti-VEGF single chain antibody GLAF-1 encoded by oncolytic vaccinia virus significantly enhances therapy in colonized tumor xenografts. PNAS 106: 12915-20.

Brader P, Stritzker J, Riedl CC, Zanzonico P, Cai S, Burnazi EM, Ghani ER, Hricak H, Szalay AA, Fong Y and Blasberg R (2008): Escherichia coli Nissle 1917 facilitates tumor detection by positron emission tomography and optical imaging. Clin Cancer Res 14(8): 2295-302.

Weibel S, Stritzker J, Eck M, Goebel W and Szalay AA (2008): Colonization of experimental murine breast tumours by Escherichia coli K-12 significantly alters the tumour microenvironment. Cell Microbiol 10(6): 1235-48.

Yu YA, Shabahang S, Timiryasova TM, Zhang Q, Beltz R, Gentschev I, Goebel W and Szalay AA (2004): Visualization of tumors and metastases in live animals with bacteria and vaccinia virus encoding light-emitting proteins. Nat Biotechnol 22(3): 313-20.

Dietrich G, Bubert A, Gentschev I, Sokolovic Z, Simm A, Catic A, Kaufmann SH, Hess J, Szalay AA and Goebel W (1998): Delivery of antigen-encoding plasmid DNA into the cytosol of macrophages by attenuated suicide Listeria monocytogenes. Nat Biotechnol 16(2): 181-5.

Escher A, O'Kane DJ, Lee J and Szalay AA (1989): Bacterial luciferase alpha beta fusion protein is fully active as a monomer and highly sensitive in vivo to elevated temperature. Proc Natl Acad Sci USA 86(17): 6528-32.