


PERSONAL INFORMATION

Dr. Laszlo Szilak Ph.D.

 Gem u. 14. Szeged, Hungary H-6723

 Szilak Laszlo WhatsApp

Sex: male | *Date of birth* 1963 | *Nationality* Hungarian

WORK EXPERIENCE

Occupation or position held

Employer's name: Szilak Laboratories Bioinformatics and Molecule-designLtd.

Gem u. 14. Szeged, Hungary, H-6724

CEO, and research director

Bioinformatics, Biotechnology,

EDUCATION AND TRAINING

1991-94 CSc. Biochemistry, HAS, Hungary

1987-1991 PhD. Biochemistry , Technical University of Budapest, Hungary

1985-87 Bioengineer MSc, Technical University of Budapest, Hungary

1982-85 Bioengineer BSc, Technical University of Budapest, Hungary

PERSONAL SKILLS

bioinformatic analysis, molecule-design, standard DNA manipulation techniques, biochemical engineering, working with pro- and eukaryotic organisms, expert of proteoglycans, cell division, cytoskeleton etc.

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

Common European Framework of Reference for Languages

Communication skills

- good communication skills gained through my experience

Organisational / managerial skills

- leadership presently CEO of an SME

Computer skills ▪ average command of Microsoft Office™ tools, and other bioinformatic programs

ADDITIONAL INFORMATION

Publications ~40 scientific publications
Presentations Several posters in international meetings
Projects Bacterial cell division, Eukaryotic cell division, cell surface interactions, cytoskeleton research

[Contribution of syndecans to cellular uptake and fibrillation of \$\alpha\$ -synuclein and tau.](#) Hudák A, Kusz E, Domonkos I, Jósvay K, Kodamullil AT, Szilák L, Hofmann-Apitius M, Letoha T. *Sci Rep.* 2019 Nov 12;9(1):16543. doi: 10.1038/s41598-019-53038-z.

[Tumor-specific inhibitory action of decorin on different hepatoma cell lines.](#) Horváth Z, Reszegi A, Szilák L, Dankó T, Kovalszky I, Baghy K. *Cell Signal.* 2019 Oct;62:109354. doi: 10.1016/j.cellsig.2019.109354. Epub 2019 Jul 2.

[Contribution of syndecans to cellular internalization and fibrillation of amyloid- \$\beta\$ \(1-42\).](#) Letoha T, Hudák A, Kusz E, Pettkó-Szandtner A, Domonkos I, Jósvay K, Hofmann-Apitius M, Szilák L. *Sci Rep.* 2019 Feb 4;9(1):1393. doi: 10.1038/s41598-018-37476-9.

[Heparan sulfate proteoglycan \(HSPG\) can take part in cell division: inside and outside.](#) Ughy B, Schmidthoffer I, **Szilak L.** *Cell Mol Life Sci.* 2019 Mar;76(5):865-871. doi: 10.1007/s00018-018-2964-z. Epub 2018 Nov 21. Review.

[Syndecan-4 influences mammalian myoblast proliferation by modulating myostatin signalling and G1/S transition.](#) Keller-Pinter A, Szabo K, Kocsis T, Deak F, Ocsovszki I, Zvara A, Puskas L, **Szilak L,** Dux L. *FEBS Lett.* 2018 Sep;592(18):3139-3151. doi: 10.1002/1873-3468.13227. Epub 2018 Sep 7.

[Phosphatidylglycerol is implicated in divisome formation and metabolic processes of cyanobacteria.](#) Kóbori TO, Uzumaki T, Kis M, Kovács L, Domonkos I, Itoh S, Krynická V, Kuppusamy SG, Zakar T, Dean J, Szilák L, Komenda J, Gombos Z, Ughy B. *J Plant Physiol.* 2018 Apr;223:96-104. doi: 10.1016/j.jplph.2018.02.008. Epub 2018 Mar 7.

[Syndecan-1 inhibits early stages of liver fibrogenesis by interfering with TGF \$\beta\$ 1 action and upregulating MMP14.](#) Regős E, Abdelfattah HH, Reszegi A, Szilák L, Werling K, Szabó G, Kiss A, Schaff Z, Kovalszky I, Baghy K. *Matrix Biol.* 2018 Aug;68-69:474-489. doi: 10.1016/j.matbio.2018.02.008. Epub 2018 Feb 16.

[The phosphomimetic mutation of syndecan-4 binds and inhibits Tiam1 modulating Rac1 activity in PDZ interaction-dependent manner.](#) Keller-Pinter

A, Ughy B, Domoki M, Pettko-Szandtner A, Letoha T, Tovari J, Timar J, **Szilak L**. PLoS One. 2017 Nov 9;12(11):e0187094. doi: 10.1371/journal.pone.0187094. eCollection 2017.

[What is the potential of syndecan-4-targeted novel delivery technologies?](#)

Szilak L, Letoha T, Ughy B. Ther Deliv. 2013 Dec;4(12):1479-81. doi: 10.4155/tde.13.112. No abstract available.

[Syndecan-4 promotes cytokinesis in a phosphorylation-dependent manner.](#)

Keller-Pinter A, Bottka S, Timar J, Kulka J, Katona R, Dux L, Deak F, **Szilak L** Cell Mol Life Sci. 2010 Jun;67(11):1881-94. doi: 10.1007/s00018-010-0298-6. Epub 2010 Mar 14.