

# CURRICULUM VITAE

## **DI Dr. Otmar Höglinger**

### **Ausbildung**

Höhere Technische Bundeslehranstalt für Chemische Betriebstechnik  
Technische Universität Graz (Lebensmittelchemie- und  
Lebensmittelbiochemie)  
ETH Zürich (Mikrobiologie)  
National Sciences and Engineering Research Council of Canada  
(Molekularbiologie)

### **Berufserfahrung:**

Leitung von Forschungsabteilungen  
New Business Development Manager  
Geschäftsführer  
Aufsichtsratsvorsitzender  
Vertreter in der Generalversammlung  
Mitglied von Technologiebeiräten  
Professor für Biochemie

### **Auszeichnungen:**

ETH Zürich Stipendium  
NRC Award Canada  
Silberne Verdienstzeichen des Landes Oberösterreich  
Rudolf Trauner Stiftungspreis

### **Publikationen und Konferenzbeiträge:**

1	Barbara Hohensinn, Renate Haselgrübler, Ulrike Müller, Verena Stadlbauer, Peter Lanzerstorfer, Gerald Lirk, Otmar Höglinger, Julian Weghuber. (2016) Sustaining elevated levels of nitrite in the oral cavity through consumption of nitrate-rich beetroot juice in young healthy adults reduces salivary pH. Nitric Oxide. 60: 10-15 press.
2	Verena Stadlbauer, Renate Haselgrübler, Peter Lanzerstorfer, Birgit Plochberger, Daniela Borgmann, Jaroslav Jacak, Stephan M Winkler, Klaus Schröder, Otmar Höglinger, Julian Weghuber. (2016) Biomolecular Characterization of Putative Antidiabetic Herbal Extracts. PLoS ONE 11(1):e0148109.
3	Jürgen Wruss, Gundula Waldenberger, Stefan Huemer, Pinar Uygun, Peter Lanzerstorfer, Ulrike Müller, Otmar Höglinger and Julian Weghuber (2015). Compositional characteristics of commercial beetroot products and beetroot juice prepared from seven beetroot varieties grown in Uper Austria. Journal of Food Composition and Analysis. 42:46-55.

4	Jürgen Wruss, Peter Lanzerstorfer, Stefan Huemer, Markus Himmelsbach, Harald Mangge, Otmar Höglinger, Daniel Weghuber and Julian Weghuber (2015). Differences in pharmacokinetics of apple polyphenols after standardized oral consumption of unprocessed apple juice. <i>Nutritional Journal</i> . 14(32).
5	Peter Lanzerstorfer, Yosuke Yoneyama, Fumihiko Hakuno, Ulrike Müller, Otmar Höglinger, Shin-Ichiro Takahashi and Julian Weghuber (2015). Analysis of insulin receptor substrate (IRS) signaling dynamics on micro-structured surfaces. <i>FEBS Journal</i> . 282(6).
6	P. Lanzerstorfer, V. Stadlbauer, L. Chtcheglova, R. Haselgrübler, D.M. Borgmann, J. Wruss, P. Hinterdorfer, K. Schröder, S.M. Winkler, O. Höglinger, J. Weghuber. (2014). Identification of novel insulin mimetic drugs by quantitative total internal reflection fluorescence (TIRF) microscopy. <i>British Journal of Pharmacology</i> . 171(23). pp 5237-5251.
7	P Lanzerstorfer, D Borgmann, G Schütz, SM Winkler, O Höglinger, J Weghuber. (2014). Quantification and Kinetic Analysis of Grb2-EGFR Interaction on Micro-Patterned Surfaces for the Characterization of EGFR-Modulating Substances. <i>PLoS ONE</i> 9(3).
8	Lanzerstorfer P., Wruss J., Huemer S., Steininger A., Müller U., Himmelsbacher M., Borgmann D., Winkler S., Höglinger O., Weghuber J. (2014). Bioanalytical characterization of apple juice from 88 grafted and nongrafted apple varieties grown in Upper Austria. <i>J Agric Food Chem</i> . 62 (5). pp 1047-1056.
9	Christine Schäfer, Klaus Rudolf Schröder, Otmar Höglinger, Sajjad Tollabimazraehno, Mohammad Reza Lornejad-Schäfer. (2013). Acetaminophen changes intestinal epithelial cell membrane properties, subsequently affecting absorption processes. <i>Cellular Physiology and Biochemistry</i> . 32:431-447
10	Peter Lanzerstorfer, Cornelius Krasel, Otmar Höglinger, Julian Weghuber. Protein-protein interactions of the $\beta$ -adrenergic receptor and kinetic analysis of intracellular binding partners via $\mu$ -patterned surfaces. 57th Annual Meeting Biophysical Society 02/13
11	Peter Lanzerstorfer, Andrea Steininger, Shin Ichiro Takahashi, Otmar Höglinger, Julian Weghuber. Studying protein-protein interactions of receptor tyrosine kinases on $\mu$ -patterned surfaces. 57th Annual Meeting Biophysical Society 02/13
12	Peter Lanzerstorfer, Andrea Steininger, Verena Stadlbauer, Daniela Borgmann, Stephan Winkler, Otmar Höglinger, Julian Weghuber. Biophysical and biochemical characterization of insulin-dependent cellular systems in response to secondary plant metabolites. FFH 2013
13	P.Lanzerstorfer, C.Krasel, O. Höglinger, M.Bünemann, J. Weghuber (2012) Studing protein-protein interactions of beta-adrenergic receptors via $\mu$ -patterned surfaces, 4 <sup>th</sup> ÖGMBT Meeting, Graz
14	A.Steininger, P.Lanzerstorfer, S.Takahashi, O. Höglinger, J.Weghuber (2012) Interaction properties of receptor tyrosine kinases studied on $\mu$ -patterned surfaces, 4 <sup>th</sup> ÖGMBT Meeting, Graz
15	T. Weber, M.Veit, K.R. Wendler, O.Höglinger (2012) Evaluation of ammonia reduction potential of saponin containing plant materials by measurement of urease inhibition 11 <sup>th</sup> BOKU Symposium Tierernährung, 213-216
16	O. Höglinger, B.Henning, T.Kampitsch, M.Kröppl, P. Lanzerstorfer, J. Weghuber (2012) Analysis of compositional characteristics of apple varieties from Upper Austria, Lebensmittelchemikertage, Linz
17	O.Höglinger, B.Redl, T.Kampitsch, M.Kröppl, P.Lanzerstorfer, J.Weghuber (2012) Biochemical characterization of apple cultivars from Upper Austria, 67 <sup>th</sup> ALVA

	Meeting, Vienna, 241-243
18	P.Lanzerstorfer, G.Olawale, O.Höglinger, J.Weghuber (2012) Studying molecular effects of plant polyphenols on plasma-membrane localized molecules, 67 <sup>th</sup> ALVA Meeting, Vienna, 194-196
19	P.Lanzerstorfer, S.Sunzenauer, M.Brameshuber, G. Schütz,S.Takashashi,M. Bünemann,O.Höglinger, J.Weghuber (2012) Drug screening on signal transduction proteins via $\mu$ -patterned surfaces Biophysical society, 56th annual meeting, San Diego
20	P.Lanzerstorfer, S. Sunzenauer, M.Brameshuber, G. Schütz, M.Bünemann, O. Höglinger, J.Weghuber (2012) Multimerization studies of membrane receptors via $\mu$ -patterned surfaces Biophysical society, 56th annual meeting, San Diego
21	P. Burgholzer, C. Hofer, G. Paltauf, M. Haltmeier, O. Scherzer, B. Reitingner and O. Höglinger (2005) Thermoacoustic tomography with integrating area and line detectors EEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control Vol 52/9, I1577-83
22	D. Stifter, A.D. Sanchis Dufau, E. Beuer, K. Wiesauer, P. Burgholzer, O. Höglinger, E. Götzinger, M. Pircher and C.K. Hitzenberger (2005) Polarisation-sensitive optical coherence tomography for material characterisation and testing Insight Vol. 47/4, 209-212
23	P. Burgholzer, C. Hofer, B. Reitingner, A. Mohammed, H.P. Degischer, D. Loidl, P. Schulz, D. Stifter and O. Höglinger (2005) Non-destructive determination of elastic moduli of continuous fiber reinforced metals Composites Science and Technology Vol. 65/2, 301-306
24	Pammer P, Schlapak R, Sonnleitner M, Ebenr A, Zhu R, Hinterdorfer P, Höglinger O, Schindler H, Howorka S. (2005) Nanopatterning of biomolecules with microscale beads. Chemphyschem. 2005 May; 6(5):9000-3.
25	D. Stifter, A.D. Sanchis Dufau, E. Beuer, K. Wiesauer, P. Burgholzer, O. Höglinger, E. Götzinger, M. Pircher and C.H. Hitzenberger (2004) Polarisation-sensitive optical coherence tomography for material characterisation and testing 16th World Conference on Nondestructive Testing, September 2004, Montreal, Canada,
26	P. Burgholzer, C. Hofer, B. Reitingner, G. Platauf, A. Mohammed, H.P. Degischer, D. Loidl, P. Schulz, D. Stifter and O. Höglinger (2004) Laser ultrasonics for non-destructive evaluation of metal matrix composites 16 <sup>th</sup> World Conference on Nondestructive Testing, September 2004, Montreal, Canada, 77
27	Hesse J, Sonnleitner M, Sonnleitner A, Freudenthaler G, Jacak J, Höglinger O, Schindler H, Schütz GJ (2004) Single-molecule reader for high-throughput bioanalysis, Anal Chem. 2004 Oct 1;76(19):5960-4
28	Wurm S, Paar C, Sonnleitner A, Sonnleitner M, Höglinger O, Romanin C, Wechselberger C (2004) Co-localization of CD3 and prion protein in Jurkat lymphocytes after hypothermal stimulation FEBS Lett. 2004 May 21;566(1-3):121-5
29	P. Burgholzer, G. Paltauf, C. Hofer, D. Stifter, B. Reitingner, R. Nuster and O. Höglinger (2003) Laser ultrasonics for non destructive testing of carbon composites and metal matrix composites EUROMAT 2003, September 2003, Lausanne, Switzerland
30	D. Stifter, A.D. Sanchis Dufau, P. Burgholzer, O. Höglinger, E. Götzinger and C.K.

	<p>Hitzenberger (2003)  Birefringence mapping of polymer materials with polarisation sensitive optical coherence tomography  3<sup>rd</sup> International Conference on Spectroscopic Ellipsometry, ICSE-3, July 2003, Vienna Austria</p>
31	<p>D. Stifter, P. Burgholzer, O. Höglinger, E. Götzinger and C.K. Hitzenberger (2003)  Polarisation-sensitive optical coherence tomography for material analysis and diagnostics XVII IMEKO World Congress, June 22-27, 2003, Dubrovnik, Croatia, 195-198</p>
32	<p>D. Stifter, O. Burgholzer, O. Höglinger, E. Götzinger and C.K. Hitzenberger (2003)  Polarisation-sensitive optical coherence for material characterisation and strainfield mapping  Appl. Phys. A 76, 1-5, 947-951</p>
33	<p>Wechselberger C, Wurm S, Pfarr W, Höglinger O, (2002)  The physiological functions of the prion protein  Exp Cell Res. 2002 Nov. 15;281(1):1-8.</p>
34	<p>Zenbao-Yu, Longcheng Su, Otmar Höglinger, Maria Jaramllo, Denis Banvilles and Shi-Hsiang Shen, (1998)  SHP-1 Associates with both platelet-derived growth factor receptor and the p85 subunit of phosphatidyl 3-Kinase. The Journal of Biological Chemistry, Vol 273, No.6,3687-3694,1998</p>
35	<p>P.Kotanko, O.Höglinger, A.Binder and F.Skrabal (1995)  Further evidence for reduced <math>\beta</math>2-adrenoceptor expression and modification of its density at a level beyond gene expression. Diabetologia, 38: 126,1995</p>
36	<p>P. Kotanko, O.Höglinger and F. Skrabal (1992)  <math>\beta</math>-2 adrenoceptor density in fibroblast culture correlates with human NaCl sensitivity  American Journal of Physiology 236:623, 1992</p>
37	<p>T. Thrunheer, D. Zürrer, O.Höglinger, T.Leisinger and A.M. Cook (1990)  Initial steps in the degradation of benzene sulfonic acid, 4-toluene sulfonic acids, and orthanilic acid in Alcaligenes sp. Strain 0-1  Biodegradation 1:55, 1990</p>
38	<p>P.Kotanko, O.Höglinger, M. Barenbrock, Th. Fischer , and F. Skrabal (1990)  Cultured skin fibroblats of salt-sensitive normotensive humans have reduces <math>\beta</math>2-adrenoceptor densities and responsesJ. Hypertension, 8:64, 1990</p>