



## Curriculum Vitae

**Tosatti, Samuele Guido Pio**  
**PhD – Dr. Sc. ETH Zürich**

**Birth:**

January 12. 1975 in Sorengo / TI

**Address:**

Samuele Tosatti  
Bühlwiesenstrasse 24  
CH – 8600 Dübendorf

**Phone:**

+ 41 76 349 31 62

**Mail:**

**samuele@susos.com**

**Nationalities:**

Swiss, Citizen of Magliaso, TI, Switzerland  
Italian, Citizen of Lavena Ponte Tresa, VA, Italy

**Civil status:**

Married, 2 children

### Summary

Born in 1975 and raised in the Italian-speaking part of Switzerland, Ticino, Tosatti studied Materials Science at the ETHZ from 1995 till 1999, where he finished with a Diploma Thesis dealing with self-assembled monolayers on structured gold surfaces. The field of surface functionalization by use of monomolecular thin films was the topic of his PhD project, which he started in spring 2000 at the Laboratory of Surface Science and Technology, ETH Zürich. The main goal of the work was to combine topographical modifications of titanium surfaces and their chemical functionalization by using self-assembling techniques and investigate their influence on cell behavior. During his PhD work, several collaborations with others institutions were developed, leading to extended stays at three different locations (Sweden, Canada and the US). A total of six publications within peer reviewed journals were submitted and accepted during his time as a PhD student. The work was awarded with the ETH Silver Medal. Since May 2003, he has been working as a post-doctoral fellow at the same institute leading the biomedical team at the Bio-Interface Group of Prof. M Textor. Main activities were devoted to the teaching of undergraduates, as well as the supervision of PhD students. The research performed within the team is aimed at the development of novel coatings for medical devices with a high degree of bio-functionalization and low non-specific interactions.

In August 2004, together with Dr. Stefan Zürcher, he founded the company SurfaceSolutionS GmbH as a spin-off of the ETH Zurich. In summer 2007, new shareholders and investors were found and the company moved, as SuSoS AG, to Dübendorf in December 2007. At present the SuSoS team lead by Dr. Tosatti consist of 10 scientists and 2 administrative persons and is active in the field of surface characterization and modification by thin film technologies.

At Present, Tosatti's publication lists consist of over 80 peer reviewed journals publication with over 3260 citations, 2 book chapters, 9 patent and different proceedings for international conferences.

For over 6 years he was member of the Board of the Micro- and Nanotechnologie Euregio Bodensee Association and since April 2013 he is member of the executive committee of the National thematic network (NTN) Innovative Surfaces. Both associations help swiss-wide to form contacts between SME, larger enterprises and public research institutes in the field of nanotechnology.

Experience field: Surface functionalization and characterization, thin films, (bio)-tribology.

**Work experience:**  
**08/2007 – present**

- SuSoS AG  
Lagerstrasse 14  
CH-860 Dübendorf  
*Function: Co-founder and CEO*

**08/2004 – 07/2007**

- SurfaceSolutionS GmbH - (ETH Spin-Off company),  
c/o Laboratory of Surface Science and Technology,  
Wolfgang-Pauli-Strasse 10, HCI F 539  
CH-8093 Zürich, Switzerland  
*Function: Co-founder and CEO*

**05/2003 – 12/2014**

- Swiss Federal Institute of Technology (ETH),  
Dept. of Materials,  
Laboratory of Surface Science and Technology,  
Bio Interface Group,  
Wolfgang-Pauli-Strasse 10, HCI F 539  
CH-8093 Zürich, Switzerland  
Prof. Dr. M. H. Textor  
Prof. Dr. N. Spencer  
*Function: Head Biomedical Interface Team*

**Education:**  
**11/1999 – 04/2003**

- Swiss Federal Institute of Technology (ETH),  
Dept. of Materials,  
Laboratory of Surface Science and Technology,  
Bio Interface Group,  
CH-8093 Zürich, Switzerland  
Prof. Dr. M. H. Textor  
Prof. Dr. N. Spencer  
*Research Associate and Ph.D. Student  
PhD Thesis rewarded with "silver ETH Medaille" for  
outstanding work.*

**10/2001 - 12/2001**

- University of Linköping,  
Laboratory of Applied Physics  
Linköping, Sweden  
Prof. Dr. P. Tengvall  
*Visiting Scholar*

**07/2001 - 09/2001**

- University of British Columbia,  
Department of Oral Biological and Medical  
Sciences, Vancouver, Canada  
Prof. Dr. D. M. Brunette  
*Visiting Scholar*

**06/2001**

- University of Texas Health Science Center,  
Department of Orthopaedics,  
Biochemistry and Periodontics  
San Antonio, TX, USA  
Prof. Dr. B. Boyan, Prof. Dr. Z. Scharz  
*Visiting Scholar*

**04/2001 - 06/2001**

- AO Research Institute  
Davos, Switzerland  
Dr. G. Richards  
*Visiting Scholar*

1994 - 1999

- Swiss Federal Institute of Technology (ETH),  
Departement of Material Science  
Zürich, Switzerland  
*Studies in Material Science and Engineering*

**Languages:**

- Native: Italian
- Full Proficiency: German, English, French
- Basic: Portuguese, Spanish

**List of selected peer reviewed publications:**

- [1] S. Weydert, S. Girardin, X. Cui, S. Zürcher, T. Peter, R. Wirz, O. Sterner, F. Stauffer, M. J. Aebbersold, S. Tanner, G. Thompson-Steckel, C. Forró, S. T. ORCID: 0000-0001-9950-0205, and J. V. ORCID: 0000-0001-6054-6230, "A Versatile Protein and Cell Patterning Method Suitable for Long- Term Neural Cultures," *Langmuir*, pp. 1–10, Feb. 2019.
- [2] C. Lau, S. Tosatti, M. Mundorf, K. Ebare, and K. Osborn Lorenz, "Comparison of the Lubricity and Surface Roughness of 5 Cosmetic Contact Lenses," *Eye & Contact Lens: Science & Clinical Practice*, p. 1, Mar. 2018.
- [3] S. Weydert, S. Zürcher, S. Tanner, N. Zhang, R. Ritter, T. Peter, M. J. Aebbersold, G. Thompson-Steckel, C. Forró, M. Rottmar, F. Stauffer, I. A. Valassina, G. Morgese, E. M. Benetti, S. Tosatti, and J. Vörös, "Easy to Apply Polyoxazoline-Based Coating for Precise and Long-Term Control of Neural Patterns," *Langmuir*, p. acs.langmuir.7b01437, Aug. 2017.
- [4] O. Sterner, C. Karageorgaki, M. Zürcher, S. Zürcher, C. W. Scales, Z. Fadli, N. D. Spencer, and S. G. P. Tosatti, "Reducing Friction in the Eye: A Comparative Study of Lubrication by Surface-Anchored Synthetic and Natural Ocular Mucin Analogues," *ACS Appl. Mater. Interfaces*, vol. 9, no. 23, pp. 20150–20160, Jun. 2017.
- [5] O. Sterner, R. Aeschlimann, S. Zürcher, K. Osborn Lorenz, J. Kakkassery, N. D. Spencer, and S. G. P. Tosatti, "Friction Measurements on Contact Lenses in a Physiologically Relevant Environment: Effect of Testing Conditions on Friction.," *Invest. Ophthalmol. Vis. Sci.*, vol. 57, no. 13, pp. 5383–5392, Oct. 2016.
- [6] O. Sterner, R. Aeschlimann, S. Zürcher, C. Scales, D. Riederer, N. D. Spencer, and S. G. P. Tosatti, "Tribological Classification of Contact Lenses: From Coefficient of Friction to Sliding Work," *Tribol Lett*, vol. 63, no. 1, pp. 9–13, May 2016.
- [7] Â. Serrano, S. Zürcher, S. Tosatti, and N. D. Spencer, "Imparting Nonfouling Properties to Chemically Distinct Surfaces with a Single Adsorbing Polymer: A Multimodal Binding Approach," *Macromol. Rapid Commun.*, vol. 37, no. 7, pp. 622–629, Feb. 2016.
- [8] T. Wilson, R. Aeschlimann, S. Tosatti, Y. Toubouti, J. Kakkassery, and K. Osborn Lorenz, "Coefficient of Friction of Human Corneal Tissue.," *Cornea*, vol. 34, no. 9, pp. 1179–1185, Sep. 2015.
- [9] H. Pult, S. G. P. Tosatti, N. D. Spencer, J.-M. Asfour, M. Ebenhoch, and P. J. Murphy, "Spontaneous Blinking from a Tribological Viewpoint ," *Ocular Surface*, pp. 1–14, May 2015.
- [10] O. Sterner, M. Giazon, S. Zürcher, S. Tosatti, M. Liley, and N. D. Spencer, "Delineating Fibronectin Bioadhesive Micropatterns by Photochemical Immobilization of Polystyrene and Poly(vinylpyrrolidone)," *ACS Appl. Mater. Interfaces*, vol. 6, no. 21, pp. 18683–18692, Nov. 2014.
- [11] O. Sterner, Â. Serrano, S. Mieszkin, S. Zürcher, S. Tosatti, M. E. Callow, J. A. Callow, and N. D. Spencer, "Photochemically Prepared, Two-Component Polymer-Concentration Gradients," *Langmuir*, vol. 29, no. 42, pp. 13031–13041, Oct. 2013.