Curriculum Vitae Sebastian Benz

Date/Place of Birth 16.08.1987 in Zurich, Switzerland

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Education and Experience

2014 - 2018	Ph.D. in Chemistry *Advisor*: Professor S.M. Matile University of Geneva, Geneva, Switzerland
2012 – 2013	M.Sc. in Chemistry *Advisor*: Professor H.J. Jessen University of Zurich, Zurich, Switzerland
2010 – 2011	Industrial traineeship CSIRO, Clayton, Victoria, Australia
2007 – 2010	B.Sc. in Molecular Lifesciences Thesis at Novartis Pharma AG FHNW, Muttenz, Switzerland
2006 – 2007	Chemical Laboratory Technician Ciba SC AG, Newport, Delaware, USA
2003 – 2006	Education as Chemical Laboratory Technician Ciba SC AG, Basel, Switzerland

Core Laboratory Experience

Synthesis and study of oxygen delivery systems and organocatalysts operating with novel non-covalent interactions. Synthesis and characterization of nanoparticles, dyes, pigments, unnatural amino acids and organo electronic materials for transistors and solar cells.

Publications

(1) **Benz, S**.; Besnard, C.; Sakai, N.; Matile, S. *Manuscript in preparation*.

(2) **Benz, S**.; Poblador-Bahamonde, A. I.; Low-Ders, N.; Matile, S. "Catalysis with Pnictogen, Chalcogen, and Halogen Bonds" *Angew. Chem. Int. Ed.* **2018**, *57*, 5408-5412.

(3) **Benz, S**.; Mareda, J.; Besnard, C.; Sakai, N.; Matile, S. " Catalysis with chalcogen bonds: neutral benzodiselenazole scaffolds with high-precision selenium donors of variable strength," *Chem. Sci.* **2017**, *8*, 8164–8169.

(4) **Benz, S**.; Lopez-Andarias, J.; Mareda, J.; Sakai, N.; Matile, S. "Catalysis with Chalcogen Bonds," *Angew. Chem. Int. Ed.* **2017**, *56*, 812–815.

(5) **Benz, S**.; Macchione, M.; Verolet, Q.; Mareda, J.; Sakai, N.; Matile, S. "Anion Transport with Chalcogen Bonds," *J. Am. Chem. Soc.* **2016**, *138*, 9093–9096. Spotlight in J. Am. Chem. Soc. **2016**, *138*, 10055−10055.

(6) Cotelle, Y.*; **Benz, S.***; Avestro, A.-J.; Ward, T. R.; Sakai, N.; Matile, S. "Anion–p Catalysis of Enolate Chemistry: Rigidified Leonard Turns as a General Motif to Run Reactions on Aromatic Surfaces," *Angew. Chem. Int. Ed.* **2016**, *55*, 4275–4279.

*Equal author contribution. Selected VIP Paper.

(7) Zhao, Y.; **Benz, S**.; Sakai, N.; Matile, S. "Selective acceleration of disfavored enolate addition reactions by anion–p interactions," *Chem. Sci.* **2015**, *6*, 6219–6223.

(8) **Benz, S.**; Nötzli, S.; Siegel, J. S.; Eberli, D.; Jessen, H. J. "Controlled Oxygen Release from Pyridone Endoperoxides Promotes Cell Survival under Anoxic Conditions," *J. Med. Chem.* **2013**, *56*, 10171–10182.

Awards and Honors

1st Poster prize ESOC 2017 Cologne
Alfred Werner legat for outstanding M. Sc.
Swiss chemical society travel award
3rd Oral presentation Geneva chemistry and biochemistry days