

### E1.1 (S. Bräse)

- [E1.1:1] \* K.-H. Merz, T. Muller, S. Vanderheiden, G. Eisenbrand, D. Marko, and S. Bräse, *An efficient Synthesis of a Lycobetaine-Tortuosine Analogue – A Potent Topoisomerase Inhibitor*, *Synlett.* 3461 (2006)
- [E1.1:2] H. Vogt, T. Baumann, M. Nieger, and S. Bräse, *Direct Asymmetric  $\alpha$ -Sulfamidation of  $\alpha$ -Branched Aldehydes: A Novel Approach to Enamine Catalysis*, *Eur. J. Org. Chem.* 5815 (2006)
- [E1.1:3] T. Baumann, M. Bächle, and S. Bräse, *Thermal Sulfamidation of 2-arylaldehydes and ketones with chloramine-T*, *Org. Lett.* **8**, 3797 (2006)
- [E1.1:4] \* T. Schröder, K. Schmitz, N. Niemeier, T.S. Balaban, H.F. Krug, U. Schepers, and S. Bräse, *Solid-Phase Synthesis, Bioconjugation, and Toxicology of Novel Cationic Oligopeptoids for Cellular Drug Delivery*, *Bioconjugate Chem.* **18**, 342 (2007)
- [E1.1:5] T. Schröder, M. Gartner, T. Grab, and S. Bräse, *A new azide staining reagent based on “click” chemistry*, *Org. Biomol. Chem.* **5**, 2767 (2007)
- [E1.1:6] \* T. Schröder, A. Quintilla, J. Setzler, E. Birtalan, W. Wenzel, and S. Bräse, *Joint experimental and theoretical investigation of the propensity of peptoids as drug carriers*, *WSEAS Trans. Biol. Biomed.* **4**, 145 (2007)
- [E1.1:7] F. Hahn and U. Schepers, *Solid Phase Chemistry for the Directed Synthesis of Biologically Active Polyamine Analogs, Derivatives, and Conjugates*. In: S. Bräse (ed) “Combinatorial Chemistry on Solid Supports”, *Topics Curr. Chem.* **278**, 135 (2007)
- [E1.1:8] S. Bräse, Guest editor, *Combinatorial Chemistry on Solid Supports*, *Top. Curr. Chem.* **278**, Springer, Heidelberg (2007)
- [E1.1:9] \* T. Schröder, N. Niemeier, H.F. Krug, S. Afonin, A. Ulrich, and S. Bräse, *Peptoidic carrier systems: Studies of toxicity and cell penetrating effects of guanidinyl versus amino side chains*, *J. Med. Chem.* **51**, 376 (2008)
- [E1.1:10] T. Baumann, M. Bächle, C. Hartmann, and S. Bräse, *Thermal Effects in the organocatalytic asymmetric  $\alpha$ -amination of disubstituted aldehydes with azodicarboxylates: a high-temperature organo-catalysis (Cover picture)*, *Eur. J. Org. Chem.* 2207 (2008)
- [E1.1:11] \* F. Hahn, K. Schmitz, T.S. Balaban, S. Bräse, and U. Schepers, *Conjugation of Spermine Facilitates Cellular Uptake and Enhances Antitumor and Antibiotic Properties of Highly Lipophilic Porphyrins*, *ChemMedChem* **3**, 1185 (2008)
- [E1.1:12] \* ‡ K. Eggenberger, T. Schröder, E. Birtalan, A. Merkoulov, M. Darbandi, T. Nann, S. Bräse, and P. Nick, *The use of nanoparticles to study and manipulate the polarity of plant cells*, *Eur. J. Cell. Biol.* **87**, 62 (2008)
- [E1.1:13] F. Hahn and U. Schepers, *Versatile procedure for asymmetric and orthogonal protection of symmetric polyamines and its advantages for solid phase synthesis*, *J. Comb. Chem.* **10**, 267 (2008)
- [E1.1:14] U. Schepers, K. Schmitz, and S. Bräse, *Smart Vehicles for Drug Delivery: Molecular Transporters and Trojan Peptides for Fast Delivery*, invited review for *Angew. Chem.*, in revision
- [E1.1:15] F. Hahn, K. Müllen, and U. Schepers, *2-Iminothiolane as a useful coupling reagent for polyamine solid phase synthesis*, *Synlett.* 2785 (2008)
- [E1.1:16] \* K. Eggenberger, E. Birtalan, T. Schröder, S. Bräse, and P. Nick, *Passage of Trojan Peptoids into Plant Cells*, *ChemBioChem* **10**, 2504 (2009)

- [E1.1:17] \* ‡ K. Eggenberger, N. Frey, B. Zienicke, J. Siebenbrock, T. Schunck, R. Fischer, S. Bräse, E. Birtalan, T. Nann, and P. Nick, *Use of nanoparticles to study and manipulate plant cells*, Adv. Eng. Mat. **12**, B406 (2010)
- [E1.1:18] D. Fritz and S. Bräse, *Solid-phase synthesis of ( $\omega$ -aminoalkyl)peptoids using azide chemistry*, Synlett. **10**, 1544 (2010)
- [E1.1:19] \* B. Rudat, S.B.L. Vollrath, E. Birtalan, H.-J. Eisler, U. Lemmer, T.S. Balaban, and S. Bräse, *Photophysics of peptoid transporters – From the ensemble down to the single molecule level*, Eur. Cells Mat. **20**, 218 (2010)
- [E1.1:20] \* B. Rudat, E. Birtalan, I. Thomé, D.K. Kölmel, V.L. Horhoiu, M.D. Wissert, U. Lemmer, H.-J. Eisler, T.S. Balaban, and S. Bräse, *Novel Pyridinium Dyes that Enable Investigations of Peptoids at the Single-Molecule Level*, J. Chem. Phys. B **114**, 13473 (2010)
- [E1.1:21] \* E. Birtalan, K. Eggenberger, O. Lemke, I. Hebeiss, C. Bednarek, J. Sieber, P. Nick, U. Schepers, and S. Bräse, *Mitochondria-Penetrating Peptoids as Tool to Analyze Actin-Dependent Mitochondrial Movements by High Speed 4D-Confocal Microscopy in Plant Cells*, PLoS ONE, in press (2011)
- [E1.1:22] \* E. Birtalan, B. Rudat, D. Kölmel, D. Fritz, S. Vollrath, U. Schepers, and S. Bräse, *Investigation of Spirolactam Formation of Rhodamine B-labelled Peptoids and its Limitations for in vitro Applications*, Biopolym. Pept. Sci. 694 (2011)
- [E1.1:23] \* ‡ B. Rudat, E. Birtalan, S.B.L. Vollrath, D. Fritz, D.K. Kölmel, M. Nieger, U. Schepers, K. Müllen, H.-J. Eisler, U. Lemmer, and S. Bräse, *Photophysical properties of fluorescently-labeled peptoids*, Eur. J. Med. Chem. **46**, 4457 (2011)
- [E1.1:24] C.I. Schilling, N. Jung, M. Biskup, U. Schepers, and S. Bräse, *Bioconjugation via azide-Staudinger ligation: an overview*, Chem. Soc. Rev. **40**, 4840 (2011)