

## Research Area E 'Nano-Biology'

### Project E1 'Transport of Functional Nanoparticles through Membranes'

#### E1.2 'Peptide-Mediated Transport of Nanoparticles into Cells' (A. Ulrich)

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- [E1.2:10] P. Wadhvani, P. Tremouilhac, E. Strandberg, S. Afonin, S. Grage, M. Ieronimo, M. Berditsch, and A.S. Ulrich, *Use of fluorinated amino acids for structure analysis of membrane-active peptides by solid state  $^{19}\text{F}$ -NMR*. ACS Book 949 "Current Fluoroorganic Chemistry" (Eds. V. Soloshonok, K. Mikami, T. Yamazaki, J. T. Welch, and J. Honek) 431 – 446 (2007)
- [E1.2:11] U. Sternberg, R. Witter, and A.S. Ulrich, *Crystal structure refinement using chemical shifts*, *Modern Magnetic Resonance* (Ed. G. A. Webb), Springer, 67 – 74 (2007)
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- [E1.2:30] ‡ P.K. Mykhailiuk, S. Afonin, G.V. Palamarchuk, O.V. Shishkin, A.S. Ulrich, and I.V. Komarov, *Synthesis of trifluoromethyl-substituted proline analogues as <sup>19</sup>F*

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- [E1.2:46] O.V. Nolandt, T.H. Walther, S. Roth, J. Bürck, and A.S. Ulrich, *Structure analysis of the membrane protein TatC(d) from the Tat system of B. subtilis by circular dichroism*, Biochim. Biophys. Acta **1788**, 2238 (2009)
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## Project E2 'Design of Nanostructured Surfaces for Manipulating Cells'

### E2.2 'Nanostructured Templates with Cadherin Specific Adhesive Properties' (D. Wedlich)

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- [E2.2:5] \* S. Kalinina, H. Gliemann, M. López-García, A. Petershans, J. Auernheimer, Th. Schimmel, M. Bruns, A. Schambony, H. Kessler, and D. Wedlich, *Isot/hiocyanate-functionalized RGD-peptides for tailoring cell-adhesive surface patterns*, Biomaterials **29**, 3004 (2008)
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### E2.3 'Adhesion of Cells on Micro- and Nanostructured Surfaces' (M. Bastmeyer)

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