

Publications

David Fushman

Articles:

1. D. Fushman, K. D. Wilkinson, "Structure and recognition of polyubiquitin chains of different lengths and linkage", *F1000 Biol Rep* (2011) 3:26; DOI: 10.3410/B3-26. Specific URL: <http://f1000.com/reports/b/3/26>
2. C. A. Castañeda, J. Liu, A. Chaturvedi, U. Nowicka, T. A. Cropp, D. Fushman, "Nonenzymatic Assembly of Natural Polyubiquitin Chains of Any Linkage Composition and Isotopic Labeling Scheme", *J. Am. Chem. Soc.* (2011) 133, 17855-17868
3. C. A. Castañeda, L. Spasser, S. N. Bavikar, A. Brik, D. Fushman, "Segmental Isotopic Labeling of Ubiquitin Chains to Unravel Monomer-Specific Molecular Behavior", *Angew Chem Int Ed Engl* (2011) 50, 11210-11214
4. A. Bornet, P. Ahuja, R. Sarkar, L. Fernandes, S. Hadji, S. Y. Lee, A. Haririnia, D. Fushman, G. Bodenhausen, and P. R. Vasos, "Long-Lived States to Monitor Protein Unfolding by Proton NMR", *ChemPhysChem* (2011) 12, 2729-2734
5. K. Berlin, D. P. O'Leary, D. Fushman, "Fast Approximations of the Rotational Diffusion Tensor and their Application to Structural Assembly of Molecular Complexes", *Proteins* (2011) 79, 2268-2281
6. L. Cai, D. Kosov, D. Fushman, "Density functional calculations of backbone ¹⁵N shielding tensors in beta-sheet and turn residues of protein G" *J. Biomol. NMR* (2011) 50, 19-33
7. C. A. Castañeda, J. Liu, T. R. Kashyap, R. K. Singh, D. Fushman, T. A. Cropp, "Controlled Enzymatic Synthesis of Natural-Linkage, Defined-Length Polyubiquitin Chains Using Lysines with Removable Protecting Groups", *Chem. Commun.* (2011) 47, 2026-2028
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11. D. Fushman, O. Walker "Exploring linkage dependence of polyubiquitin

- conformations using molecular modeling", *J. Mol. Biol.* (2010) 395, 803-814
12. D. Zhang, T. Chen, I. Ziv, R. Rosenzweig, V. Bronner, Y. Matiuhin, M. H. Glickman, D. Fushman "Together, Rpn10 and Dsk2 can serve as a polyubiquitin chain-length sensor", *Molecular Cell* (2009), 36, 1018-1033
 13. K. Berlin, D. P. O'Leary, D. Fushman "Improvement and Analysis of Computational Methods for Prediction of Residual Dipolar Couplings", *J. Magn. Reson* (2009) 201, 25-33
 14. L. Cai, D. Fushman, D. Kosov "Density functional calculations of ^{15}N chemical shifts in solvated dipeptides" *J. Biomol. NMR* (2009) 45, 245-253
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Chapters in books:

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