

Reference List

1. Crawley, S. W., De la Roche, M. A., Lee, S. F., Li, Z., Chityat, S., Smith, S. P., and Cote, G. P. Identification and characterization of an 8 kDa light chain associated with dictyostelium discoideum MyoB, a class I myosin (2006) *J.Biol.Chem.*
Notes: CD, AUC, ITC, NMR
2. Adams, J. J., Webb, B. A., Spencer, H. L., and Smith, S. P. Structural characterization of type II dockerin module from the cellulosome of *Clostridium thermocellum*: calcium-induced effects on conformation and target recognition (2005) *Biochemistry* **44**, 2173-2182
Notes: CD, AUC
3. Andrews, D., Mattatall, N. R., Arnold, D., and Hill, B. C. Expression, purification, and characterization of the Cu(A)-cytochrome c domain from subunit II of the *Bacillus subtilis* cytochrome caa(3) complex in *Escherichia coli* (2005) *Protein Expr.Purif.* **42**, 227-235
Notes: CD
4. De la Roche, M. A., Mahasneh, A., Lee, S. F., Rivero, F., and Cote, G. P. Cellular distribution and functions of wild-type and constitutively activated *Dictyostelium* PakB (2005) *Mol.Biol.Cell* **16**, 238-247
Notes: Microscopy
5. Gauthier, S. Y., Marshall, C. B., Fletcher, G. L., and Davies, P. L. Hyperactive antifreeze protein in flounder species. The sole freeze protectant in American plaice (2005) *FEBS J.* **272**, 4439-4449
Notes: CD
6. Graham, L. A. and Davies, P. L. Glycine-rich antifreeze proteins from snow fleas (2005) *Science* **310**, 461
Notes: MALDI-TOF, CD
7. Marshall, C. B., Chakrabartty, A., and Davies, P. L. Hyperactive Antifreeze Protein from Winter Flounder Is a Very Long Rod-like Dimer of {alpha}-Helices (2005) *J.Biol.Chem.* **280**, 17920-17929
Notes: AUC, CD, Temperature CD
8. Ravulapalli, R., Diaz, B. G., Campbell, R. L., and Davies, P. L. Homodimerization of calpain 3 penta-EF-hand domain (2005) *Biochem.J.* **388**, 585-591
Notes: CD, AUC, modelling
9. Scotter, A. J., Kuntz, D. A., Saul, M., Graham, L. A., Davies, P. L., and Rose, D. R. Expression and purification of sea raven type II antifreeze protein from *Drosophila melanogaster* S2 cells (2005) *Protein Expr.Purif.*
Notes: MALDI-TOF
10. Singh, V. K. and Jia, Z. Refolding and one-step purification of recombinant human ARA70 over-expressed in *Escherichia coli* (2005) *Protein Expr.Purif.* **39**, 283-287
Notes: CD

11. Tripodi, K. E., Turner, W. L., Gennidakis, S., and Plaxton, W. C. In vivo regulatory phosphorylation of novel phosphoenolpyruvate carboxylase isoforms in endosperm of developing castor oil seeds (2005) *Plant Physiol* **139**, 969-978
Notes: peptide synthesis, MALDI-TOF
12. Turner, W. L., Knowles, V. L., and Plaxton, W. C. Cytosolic pyruvate kinase: subunit composition, activity, and amount in developing castor and soybean seeds, and biochemical characterization of the purified castor seed enzyme (2005) *Planta* **222**, 1051-1062
Notes: MALDI-TOF
13. Webb, B. A., Eves, R., Crawley, S. W., Zhou, S., Cote, G. P., and Mak, A. S. PAK1 Induces Podosome Formation in A7r5 Vascular Smooth Muscle Cells in a PIX-dependent Manner (2005) *Am.J.Physiol Cell Physiol* **289**, C898-C907
Notes: microscopy
14. Ye, Q., Singh, V. K., Blonde, J. D., and Jia, Z. Crystallization and preliminary X-ray analysis of the GST-fused human Bri3 N-terminal domain (2005) *Acta Crystallogr.F.* **F61**, 62-64
Notes: general
15. Ye, Q., Imriskova-Sosova, I., Hill, B. C., and Jia, Z. Identification of a disulfide switch in BsSco, a member of the Sco family of cytochrome c oxidase assembly proteins (2005) *Biochemistry* **44**, 2934-2942
Notes: CD, qTOF whole mass
16. Zheng, J., Singh, V. K., and Jia, Z. Identification of an ITPase/XTPase in Escherichia coli by structural and biochemical analysis (2005) *Structure.(Camb.)* **13**, 1511-1520
Notes: MALDI-TOF
17. Zhou, S., Webb, B. A., Eves, R., and Mak, A. S. Effects of Tyr-phosphorylation of cortactin on podosome-formation in A7r5 vascular smooth muscle cells (2005) *Am.J.Physiol Cell Physiol* **290**, 463-471
Notes: microscopy
18. Adams, J. J., Jang, C. J., Spencer, H. L., Elliott, M., and Smith, S. P. Expression, purification and structural characterization of the scaffoldin hydrophilic X-module from the cellulosome of *Clostridium thermocellum* (2004) *Protein Expr.Purif.* **38**, 258-263
Notes: CD
19. Ancsin, J. B. and Kisilevsky, R. A binding site for highly sulfated heparan sulfate is identified in the N terminus of the circumsporozoite protein: significance for malarial sporozoite attachment to hepatocytes (2004) *J.Biol.Chem.* **279**, 21824-21832
Notes: ITC
20. Becker, L., Cook, P. M., Wright, T. G., and Koschinsky, M. L. Quantitative evaluation of the contribution of weak lysine-binding sites present within apolipoprotein(a) kringle IV types 6-8 to lipoprotein(a) assembly (2004) *J.Biol.Chem.* **279**, 2679-2688
Notes: AUC, CD
21. Becker, L., Cook, P. M., and Koschinsky, M. L. Identification of sequences in apolipoprotein(a) that maintain its closed conformation: a novel role for apo(a) isoform size in determining the

efficiency of covalent Lp(a) formation (2004) *Biochemistry* **43**, 9978-9988

Notes: AUC

22. Diaz, B. G., Moldoveanu, T., Kuiper, M. J., Campbell, R. L., and Davies, P. L. Insertion sequence 1 of muscle-specific calpain, p94, acts as an internal propeptide (2004) *J.Biol.Chem.* **279**, 27656-27666
Notes: CD, qTOF MS, modelling
23. Hancock, M. A., Spencer, C. A., and Koschinsky, M. L. Definition of the structural elements in plasminogen required for high-affinity binding to apolipoprotein(a): a study utilizing surface plasmon resonance (2004) *Biochemistry* **43**, 12237-12248
Notes: Biacore
24. Hosfield, C. M., Elce, J. S., and Jia, Z. Activation of calpain by Ca²⁺: roles of the large subunit N-terminal and domain III-IV linker peptides (2004) *J.Mol.Biol.* **343**, 1049-1053
Notes: general
25. Marshall, C. B., Fletcher, G. L., and Davies, P. L. Hyperactive antifreeze protein in a fish (2004) *Nature* **429**, 153
Notes: MALDI-TOF
26. Moldoveanu, T., Jia, Z., and Davies, P. L. Calpain activation by cooperative Ca²⁺ binding at two non-EF-hand sites (2004) *J.Biol.Chem.* **279**, 6106-6114
Notes: DSC
27. O'Neil, C. H., Boffa, M. B., Hancock, M. A., Pickering, J. G., and Koschinsky, M. L. Stimulation of vascular smooth muscle cell proliferation and migration by apolipoprotein(a) is dependent on inhibition of transforming growth factor-beta activation and on the presence of kringle IV type 9 (2004) *J.Biol.Chem.* **279**, 55187-55195
Notes: microscopy
28. Pellegrino, M., Furmaniak-Kazmierczak, E., LeBlanc, J. C., Cho, T., Cao, K., Marcovina, S. M., Boffa, M. B., Cote, G. P., and Koschinsky, M. L. The apolipoprotein(a) component of lipoprotein(a) stimulates actin stress fiber formation and loss of cell-cell contact in cultured endothelial cells (2004) *J.Biol.Chem.* **279**, 6526-6533
Notes: microscopy
29. Rees-Milton, K. J., Terry, D., and Anastassiades, T. P. Hyperglycosylation of fibronectin by TGF-beta1-stimulated chondrocytes (2004) *Biochem.Biophys.Res.Comm.* **317**, 844-850
Notes: qTOF MS
30. Singh, P., Salih, M., Leddy, J. J., and Tuana, B. S. The muscle-specific calmodulin-dependent protein kinase assembles with the glycolytic enzyme complex at the sarcoplasmic reticulum and modulates the activity of glyceraldehyde-3-phosphate dehydrogenase in a Ca²⁺/calmodulin-dependent manner (2004) *J.Biol.Chem.* **279**, 35176-35182
Notes: MALDI qTOF
31. Westlake, C. J., Payen, L., Gao, M., Cole, S. P., and Deeley, R. G. Identification and characterization of functionally important elements in the multidrug resistance protein 1 COOH-

terminal region (2004) *J.Biol.Chem.* **279**, 53571-53583

Notes: Modeling

32. Becker, L., Webb, B. A., Chitayat, S., Nesheim, M. E., and Koschinsky, M. L. A ligand-induced conformational change in apolipoprotein(a) enhances covalent Lp(a) formation (2003) *J.Biol.Chem.* **278**, 14074-14081
Notes: AUC, DSC
33. Blonde, J. D. and Plaxton, W. C. Structural and kinetic properties of high and low molecular mass phosphoenolpyruvate carboxylase isoforms from the endosperm of developing castor oilseeds (2003) *J.Biol.Chem.* **278**, 11867-11873
Notes: MALDI MS, qTOF MSMS
34. De la Roche, M. A., Lee, S. F., and Cote, G. P. The Dictyostelium class I myosin, MyoD, contains a novel light chain that lacks high-affinity calcium-binding sites (2003) *Biochem.J.* **374**, 697-705
Notes: qTOF whole mass
35. Hill, B. C., Becker, L., Anand, V., Kusmierczyk, A., Marcovina, S. M., Rahman, M. N., Gabel, B. R., Jia, Z., Boffa, M. B., and Koschinsky, M. L. A role for apolipoprotein(a) in protection of the low-density lipoprotein component of lipoprotein(a) from copper-mediated oxidation (2003) *Arch.Biochem.Biophys.* **412**, 186-195
Notes: Olis fluorescence
36. Suntharalingam, P., Spencer, H., Gallant, C. V., and Martin, N. L. Salmonella enterica serovar typhimurium rdoA is growth phase regulated and involved in relaying Cpx-induced signals (2003) *J.Bacteriol.* **185**, 432-443
Notes: MALDI-TOF