

Abteilung "Biochemie II"

Journalbeiträge

1. Batonick M, Favre M, Boge M, Spearman P, Höning S, Thali M (2005) Interaction of HIV-1 Gag with the clathrin-associated adaptor AP-2. *VIROLOGY*, 342(2): 190-200.
2. Bretz F, Landgrebe J, Brunner E (2005) Multiplicity issues in microarray experiments. *METHOD INFORM MED*, 44(3): 431-7.
3. Bretz F, Landgrebe J, Brunner E (2005) Design and analysis of two-color microarray experiments using linear models. *METHOD INFORM MED*, 44(3): 423-30.
4. D'Hooge R, Lüllmann-Rauch R, Beckers T, Balschun D, Schwake M, Reiss K, von Figura K, Saftig P (2005) Neurocognitive and psychotiform behavioral alterations and enhanced hippocampal long-term potentiation in transgenic mice displaying neuropathological features of human alpha-mannosidosis. *J NEUROSCI*, 25(28): 6539-49.
5. Dickmanns A, Schmidt B, Rudolph MG, Mariappan M, Dierks T, von Figura K, Ficner R (2005) Crystal structure of human pFGE, the paralog of the Calpha-formylglycine-generating enzyme. *J BIOL CHEM*, 280(15): 15180-7.
6. Dierks T, Dickmanns A, Preusser-Kunze A, Schmidt B, Mariappan M, von Figura K, Ficner R, Rudolph MG (2005) Molecular basis for multiple sulfatase deficiency and mechanism for formylglycine generation of the human formylglycine-generating enzyme. *CELL*, 121(4): 541-52.
7. Höning S, Ricotta D, Krauss M, Späte K, Spolaore B, Motley A, Robinson M, Robinson C, Haucke V, Owen DJ (2005) Phosphatidylinositol-(4,5)-bisphosphate regulates sorting signal recognition by the clathrin-associated adaptor complex AP2. *MOL CELL*, 18(5): 519-31.
8. Kittler JT, Chen G, Honing S, Bogdanov Y, McAinsh K, Arancibia-Carcamo IL, Jovanovic JN, Pangalos MN, Haucke V, Yan Z, Moss SJ (2005) Phospho-dependent binding of the clathrin AP2 adaptor complex to GABAA receptors regulates the efficacy of inhibitory synaptic transmission. *P NATL ACAD SCI USA*, 102(41): 14871-6.
9. Koike M, Shibata M, Waguri S, Yoshimura K, Tanida I, Kominami E, Gotow T, Peters C, von Figura K, Mizushima N, Saftig P, Uchiyama Y (2005) Participation of autophagy in storage of lysosomes in neurons from mouse models of neuronal ceroid-lipofuscinoses (Batten disease). *AM J PATHOL*, 167(6): 1713-28.
10. Kollmann K, Mutenda KE, Balleininger M, Eckermann E, von Figura K, Schmidt B, Lübke T (2005) Identification of novel lysosomal matrix proteins by proteome analysis. *PROTEOMICS*, 5(15): 3966-78.
11. Kytälä A, Yliannala K, Schu P, Jalanko A, Luzio JP (2005) AP-1 and AP-3 facilitate lysosomal targeting of Batten disease protein CLN3 via its dileucine motif. *J BIOL CHEM*, 280(11): 10277-83.
12. Lawton AP, Prigozy TI, Brossay L, Pei B, Khurana A, Martin D, Zhu T, Späte K, Ozga M, Höning S, Bakke O, Kronenberg M (2005) The mouse CD1d cytoplasmic tail mediates CD1d trafficking and antigen presentation by adaptor protein 3-dependent and -independent mechanisms. *J IMMUNOL*, 174(6): 3179-86.
13. Mariappan M, Preusser-Kunze A, Balleininger M, Eiselt N, Schmidt B, Gande SL, Wenzel D, Dierks T, von Figura K (2005) Expression, localization, structural, and functional characterization of pFGE, the paralog of the Calpha-formylglycine-generating enzyme. *J BIOL CHEM*, 280(15): 15173-9.
14. Mark S, Kübler B, Höning S, Oesterreicher S, John H, Bräulke T, Forssmann WG, Ständker L (2005) Diversity of human insulin-like growth factor (IGF) binding protein-2 fragments in plasma: primary structure, IGF-binding properties, and disulfide bonding pattern. *BIOCHEMISTRY-US*, 44(9): 3644-52.
15. Meiling-Wesse K, Epple UD, Krick R, Barth H, Appelles A, Voss C, Eskelinen EL, Thumm M (2005) Trs85 (Gsg1), a component of the TRAPP complexes, is required for the organization of the preautophagosomal structure during selective autophagy via the Cvt pathway. *J BIOL CHEM*, 280(39): 33669-78.
16. Neubrand VE, Will RD, Möbius W, Poustka A, Wiemann S, Schu P, Dotti CG, Pepperkok R, Simpson JC (2005) Gamma-BAR, a novel AP-1-interacting protein involved in post-Golgi trafficking. *EMBO J*, 24(6): 1122-33.
17. Oesterreicher S, Blum WF, Schmidt B, Bräulke T, Kübler B (2005) Interaction of insulin-like growth factor II (IGF-II) with multiple plasma proteins: high affinity binding of plasminogen to IGF-II and IGF-binding protein-3. *J BIOL CHEM*, 280(11): 9994-10000.
18. Preusser-Kunze A, Mariappan M, Schmidt B, Gande SL, Mutenda K, Wenzel D, von Figura K, Dierks T (2005) Molecular characterization of the human Calpha-formylglycine-generating enzyme. *J BIOL CHEM*, 280(15): 14900-10.
19. Raja SM, Metkar SS, Höning S, Wang B, Russin WA, Pipalia NH, Menaa C, Belting M, Cao X, Dressel R, Froelich CJ (2005) A novel mechanism for protein delivery: granzyme B undergoes electrostatic exchange from serglycin to target cells. *J BIOL CHEM*, 280(21): 20752-61.
20. Roos C, Dressel R, Schmidt B, Günther E, Walter L (2005) The rat expresses two complement factor C4 proteins, but only one isotype is expressed in the liver. *J IMMUNOL*, 174(2): 970-5.

Abteilung "Biochemie II"

21. Schlott T, Eiffert H, Bohne W, Landgrebe J, Brunner E, Spielbauer B, Knight B (2005) Chlamydia trachomatis modulates expression of tumor suppressor gene caveolin-1 and oncogene C-myc in the transformation zone of non-neoplastic cervical tissue. *GYNECOL ONCOL*, 98(3): 409-19.
22. Schott P, Singer SS, Kögler H, Neddermeier D, Leineweber K, Brodde OE, Regitz-Zagrosek V, Schmidt B, Dihazi H, Hasenfuss G (2005) Pressure overload and neurohumoral activation differentially affect the myocardial proteome. *PROTEOMICS*, 5(5): 1372-81.
23. Shimizu T, Hayashi Y, Yamasaki R, Yamada J, Zhang J, Ukai K, Koike M, Mine K, von Figura K, Peters C, Saftig P, Fukuda T, Uchiyama Y, Nakanishi H (2005) Proteolytic degradation of glutamate decarboxylase mediates disinhibition of hippocampal CA3 pyramidal cells in cathepsin D-deficient mice. *J NEUROCHEM*, 94(3): 680-90.
24. Sugie K, Noguchi S, Kozuka Y, Arikawa-Hirasawa E, Tanaka M, Yan C, Saftig P, von Figura K, Hirano M, Ueno S, Nonaka I, Nishino I (2005) Autophagic vacuoles with sarcolemmal features delineate Danon disease and related myopathies. *J NEUROPATH EXP NEUR*, 64(6): 513-22.
25. Tiede S, Storch S, Lübke T, Henrissat B, Bargal R, Raas-Rothschild A, Bräulke T (2005) Mucopolipidosis II is caused by mutations in GNPTA encoding the alpha/beta GlcNAc-1-phosphotransferase. *NAT MED*, 11(10): 1109-12.
26. Willenborg M, Schmidt CK, Braun P, Landgrebe J, von Figura K, Saftig P, Eskelinen EL (2005) Mannose 6-phosphate receptors, Niemann-Pick C2 protein, and lysosomal cholesterol accumulation. *J LIPID RES*, 46(12): 2559-69.

Buchbeiträge

1. Schu P (2005) Adaptor Proteins in Lysosomal Biogenesis. In: Saftig P (Hg.) *Lysosomes*. Springer Verlag, Berlin, 27-36.

Naturwiss. u.a. nichtmed. Diss.

1. Chidambaram S, Dr. rer. nat., Characterization of ENTH domain proteins and their interaction with SNAREs in *S. cerevisiae*. Dissertation Universität Göttingen 2005.
2. Mariappan M, Dr. rer. nat., Molecular Characterization of pFGE, the Paralog of the CalphaFormylglycine-generating Enzyme. Dissertation Universität Göttingen 2005.
3. Patkaniowska A, Dr. rer. nat., Biochemical and cell biological analysis of the mechanism of RNA interference in human cells. Dissertation Universität Göttingen 2005.
4. Roces DP, Dr. rer. nat., Efficacy of enzyme replacement therapy in alpha-mannosidosis mice. Dissertation Universität Göttingen 2005.

Diplomarbeiten / Masterarbeiten

1. Braun P, Dipl.-Biol., Zusammenhang zwischen der Defizienz des lysosomalen Membranproteins LAMP2 und der Akkumulation von Cholesterin in Lysosomen. Diplomarbeit Universität Göttingen 2005.
2. Damme M, Dipl.-Biol., Veränderung des Transkriptoms von Mukopolysaccharidose Typ I (M. Hurler) Fibroblasten unter Enzymsubstitution. Diplomarbeit Universität Göttingen 2005.
3. Diekmann S, Dipl.-Biol., Transkriptomanalyse bei Fucosesubstitution in CDG-IIc Fibroblasten. Diplomarbeit Universität Göttingen 2005.