

7 Literaturverzeichnis

Advani RJ, Bae H-R, Bock JB, Chao DS, Doung Y-C, Prekeris R, Yoo J-S, Scheller RH (1998)

Seven novel mammalian SNARE Proteins localize to distinct membrane compartments.
J Biol Chem 273 (17), 10317- 10324

Ahnert-Hilger G, Grube K, Kvols L, Lee I, Mönch E, Riecken E-O, Schmitt L, Wiedenmann B (1993)

Gastroenteropancreatic neuroendocrine tumors contain a common set of synaptic vesicle proteins and amino acid transmitters.
Eur J Cancer 29 A, 1982- 1984

Ahnert-Hilger G, Stadtbauer A, Strubig C, Scherübl H, Schultz G, Riecken EO, Wiedenmann B (1996)

Gamma-aminobutyric acid secretion from pancreatic neuroendocrine cells.
Gastroenterology 110 (5), 1595-1604

Alvarez de Toledo G & Fernandez JM (1990)

Compound exocytosis versus multigranular exocytosis in peritoneal mast cells.
J Gen Physiol 95, 397- 409

Ammar DA, Zhou R, Forte JG, Yao X (2002)

Syntaxin 3 ist required for cAMP-induced acid secretion: streptolysin O-permeabilized gastric gland model.

Am J Physiol Gastrointest Liver Physiol 282, G23- G33

Andrew A, Kramer B, Rawdon BB (1998)

The origin of gut and pancreatic neuroendocrine (APUD) cells-the last word?
J Pathol 186, 117- 118

Anlauf M, Sipos B, Klöppel G (2005)

Tumoren des endokrinen Pankreas.

Pathologe 26, 46- 52

Ann SJ & Almers W (2004)

Tracking SNARE complex formation in live endocrine cells.

Science 306, 1042- 1046

Bajno L, Peng XR, Schreiber AD, Moore HP, Trimble WS, Grinstein S (2000)

Focal exocytosis of VAMP 3- containing vesicles at sites of phagosome formation.

J Cell Biol 149 (3), 697- 706.

Band AM & Kuismannen (2005)

Localization of plasma membrane t-SNAREs Syntaxin 2 and 3 in intracellular compartments.

BMC Cell Biol 6, 26- 36

Banerjee A, Barry AV, DasGupta BR, Martin TFJ (1996)

N-ethylmaleimide-sensitive factor acts at a prefusion ATP-dependent step in Ca^{2+} - activated exocytosis.

J Biol Chem 271 (34), 20223- 20226

Bauerfeind R, Galli T, De Camilli P (1996)

Molecular mechanisms in synaptic vesicle recycling.

J Neurocytol 25, 701- 715

ter Beest MBA, Chapin SJ, Avrahami D, Mostov KE (2005)

The role of syntaxins in the specificity of vesicle targeting in polarized epithelial cells.
Mol Biol Cell 16, 5784- 5792

Bennett MK, Calakos N, Scheller RH (1992)

Syntaxin: a synaptic protein implicated in docking of synaptic vesicles at presynaptic active zones.
Science 257, 255- 259

Bennett MK, García-Arráras JÉ.; Elferink LA, Peterson K, Fleming AM, Hazuka CD, Scheller RH (1993)

The syntaxin family of vesicular transport receptors.
Cell 74, 863- 873

Bernstein AM & Whiteheart SW (1999)

Identification of a cellubrevin/ vesicle associated membrane protein 3 homologue in human platelets.
Blood 93 (2), 571- 579

Blank U, Cyprien B, Martin-Verdeaux S, Paument F, Pombo I, Rivera J, Roa M, Varin-Blank N (2001)

SNAREs and associated regulators in the control of exocytosis in the RBL-2H3 mast cell line.

Mol Immunol (Rev.) 38, 1341- 1345

Bock MR, Glick BS, Wilcox CA, Wieland FT, Rothman JE (1988)

Purification of an N-ethylmaleimide-sensitive protein catalyzing vesicular transport.
Proc Natl Acad Scie USA 85, 7852- 7856

Bock JB & Scheller RH (1999)

SNARE proteins mediate lipid bilayer fusion.
PNAS 96 (22) 12227- 12229

Boenisch T, in Naish SJ (Hrsg.) (1989)

In: Handbuch immunhistochemischer Färbemethoden.
Dako Corporation, Kalifornien, 9- 42

Bonifacino JS & Glick BS (2004)

The mechanisms of vesicle budding and fusion.
Cell 116, 153- 166

Borisovska M, Zhao Y, Tsytysura Y, Glyvuk N, Takamori S, Matti U, Rettig J, Südhof T, Bruns D (2005)

v-SNAREs control exocytosis of vesicles from priming to fusion.
EMBO J 24, 2114- 2126

Brittan M & Wright NA (2004)

Stem cell in gastrointestinal stucture and neoplastic development.
Gut 53, 899- 910

Breuza L, Fransen J, Le Bivic A (2000)

Transport and function of syntaxin 3 in human epithelial intestinal cells.
Am J Cell Physiol 279, C1239- C12248

Brumell JH, Volchuk A, Sengelov H, Borregaard N, Cieutat AM, Bainton DF, Grinstein S, Klip A (1995)

Subcellular distribution of docking/ fusion proteins in neutrophils, secretory cells with multiple exocytotic compartments.

J Immunol 155 (12), 5750- 5759

Buhring HJ, Simmons PJ, Pudney M, Muller R, Jarrossay D, van Agthoven A, Willheim M, Brugger W, Valent P, Kranz L (1999)

The monoclonal antibody 97A6 defines a novel surface antigen expressed on human basophils and their unipotent progenitors.

Blood 94, 2343- 2356

Buxton P, Zhang X-M, Walsh B, Sriratana A, Schenberg I, Manickam E, Rowe T (2003)

Identification and characterization of Snapin as a ubiquitously expressed SNARE-binding protein that interacts with SNAP 23 in non-neuronal cells.

Biochem J, 375, 433-440

Burgoyne RD & Morgan A (1993)

Regulated exocytosis.

Biochem J 293, 305- 316

Calakos N, Bennett MK, Peterson KE, Scheller RH (1994)

Protein-protein interactions contributing to the specificity of intracellular vesicular trafficking.

Science 263, 1146- 1149

Calakos N & Scheller RH (1996)

Synaptic vesicle biogenesis, docking, and fusion: a molecular description.

Physiol Rev 76, 1- 29

Calhoun BC & Goldenring JC (1997)

Two Rab proteins, vesicle-associated membrane protein 2 (VAMP-2) and secretory carrier membrane proteins (SCAMPs), are present on immunoisolated parietal cell tubulovesicles.

Biochem J 325, 559- 564

Calvo M, Pol A, Lu A, Ortega D, Pons M, Blasi J, Enrich C (2000)

Cellubrevin is present in the basolateral endocytic compartment of hepatocytes and follows the transcytotic pathway after Ig A internalization.

J Biol Chem 275 (11), 7910- 7917

Capella C, Heitz PH, Höfler H, Solcia E, Klöppel G (1995)

Revised classification of neuroendocrine tumors of the lung, pancreas and gut.

Virchows Arch 425, 547- 560

Carr CM & Novick P (2000)

Changing partners.

Nature 404, 347- 349

Castle JD, Guo Z, Liu L (2001)

Function of the t-SNARE SNAP-23 and secretory carrier membrane proteins (SCAMPs) in exocytosis in mast cells.

Mol Immunol 38, 1337- 1340

Chen D, Zhao CM, Andersson K, Meister B, Panula P, Hakanson R (1998)

ECL cell morphology.

Yale J Biol Med 71 (3- 4), 217- 231

- Chen D, Zhao CM, Andersson K, Lindström E, Hakanson R (1999)**
Rat stomach ECL cells up- date of biology and physiology.
Gen Pharmacol 32, 413- 422 Review
- Chen D & Whiteheart S W (1999)**
Intracellular localization of SNAP-23 to endosomal compartments.
Biochem Biophys Res Commun 255, 340- 364
- Chen YA, Scales SJ, Scheller RH (2001)**
Sequential SNARE assembly underlies priming and triggering of exocytosis.
Neuron 30, 161- 170
- Chen YA & Scheller RH (2001)**
SNARE-mediated membrane fusion.
Nat Rev Mol Cell Biol 2, 98- 106
- Chernomordik LV & Kozlov MM (2005)**
Membrane hemifusion: crossing a chasm in two leaps.
Cell 123, 375- 382
- Chilcote T J, Galli T, Mundigl O, Edelmann L, Mc Pherson P S, Takei K, De Camilli P (1995)**
Cellubrevin and Synaptophysins: Similar subcellular localization and biochemical properties in PC 12 cells.
Cell Biology 129 (1), 219- 231
- Clary DO, Griff IC, Rothman JE (1990)**
SNAPs, a family of NSF attachment proteins involved in intracellular membrane fusion in animals and yeast.
Cell 61, 709- 721
- Cordell JL, Falini B, Erber WN (1984)**
Immunoenzymatic labeling of monoclonal antibodies using immune complexes of alkaline phosphatase and monoclonal anti- alkaline phosphatase (APPAP).
J Histochem Cytochem 32, 219- 229
- Coppolino MG, Kong C, Mohtashami M, Schreiber AD, Brumell JH, Finlay BB, Grinstein S, Trimble WS (2001)**
Requirement for N-ethylmaleimide-sensitive factor activity at different stages of bacterial invasion and phagocytosis.
J Biol Chem 276 (7), 4772- 4780
- Crofton RW, Diesslehoff-den Dulk MMC, van Furth (1978)**
The origin, kinetics and characteristics of the Kupffer cell in the normal steady state.
J Exp Med 148, 1- 17
- Daro E, v d Sluijs P, Galli T, Mellman I (1996)**
Rab 4 and Cellubrevin define different early endosomes populations on the pathway of transferrin receptor recycling.
Proc Natl Acad Sci USA 93, 9559- 9564
- David P, el Far O, Martin- Mouto N, Poupon MF, Takahashi M, Seagar MJ (1993)**
Expression of synaptotagmin and syntaxin associated with N- type calcium channels in small lung cancer.
FEBS Lett 326 (1- 3), 135- 139

Delgrossi M-H, Breuza L, Mirre C, Chavrier P, Le Bivic A (1997)

Human syntaxin 3 is localized apically in human intestinal cells.

J Cell Sci 110 (18), 2207- 14

Evers BM, Townsend CM, Upp JR, Alllen E, Hurlbut SC, Kim SW, Rajaraman S, Singh P, Reubi JC, Thompson JC (1991)

Establishment and characterization of a human carcinoid in nude mice and effect of various agents on tumor growth.

Gastroenterology 101, 303- 311

Faigle W, Colucci- Guyon E, Louvard D, Amigorena S, Galli T (2000)

Vimentin filaments in fibroblasts are a reservoir for SNAP 23, a component of the membrane fusion machinery.

Mol Biol Cell 11 (10), 3485- 94

Falcone FH, Haas H, Gibbs BF (2000)

The human basophil: a new appreciation of its role in immune responses.

Blood 96 (13), 4028- 4038

Ferro-Novick S & Jahn R (1994)

Everything that fuses must converge: proteins that mediate vesicle fusion from yeast to man.

Nature 370, 191- 193

Feng D, Crane K, Rozenvayn N, Dvorak AM, Flaumenhaft R (2002)

Subcellular distribution of 3 functional platelet SNARE proteins:

human cellubrevin, SNAP-23, and syntaxin 2.

Blood 99 (11), 4006- 4014

Feyrter F (1953)

Über die peripheren endokrinen (parakrinen) Drüsen des Menschen.

Hrsg: Maudrich W Wien, Düsseldorf

Fogh J, Wright WC, Loveless JD (1977)

Abscence of HeLa contamination in 169 cell lines derived from human tumors.

J Natl Cancer Inst, 58, 209- 214

Fujita H, Tuma PL, Finnegan CM, Locco L, Hubbard AL (1998)

Endogenous syntaxin 2, 3 and 4 exhibit distinct but overlapping patterns of expression at the plasma membrane.

Biochem J 329 (3), 527- 538

Fukuda R, McNew JA, Weber T, Parlati F, Engel T, Nickel W, Rothman JE, Söllner TH (2000)

Functional architecture of an intracellular membrane t- SNARE.

Nature 407, 198- 202

Gaisano H, Sheu L, Forskett JK, Trimble WS (1994)

Tetanus toxin light chain cleaves a vesicle-associated membrane protein (VAMP) isoform 2 in rat pancreatic zymogen granules and inhibits enzyme secretion.

J Biol Chem 269 (25), 1762- 1766

Gaisano HY, Ghai M, Markus P, Sheu L, Bouquillon A, Benett MK, Trimble WS (1996 a)

Distinct cellular locations of the syntaxin family of proteins in rat pancreatic acinar cells.

Mol Biol Cell 7 (12), 2019- 2027

Gaisano H, Sheu L, Grondin G, Ghai M, Bouquillon A, Lowe A, Beaudoin A, Trimble WS (1996 b)

The vesicle- associated membrane protein family of proteins in rat pancreatic and parotid acinar cells.

Gastroenterology 111, 1661- 1669

Gaisano H, Sheu L, Wong PPC, Klip A, Trimble WS (1997)

SNAP 23 is located in the basolateral plasma membrane of rat pancreatic acinar cells.

FEBS Letters 414, 298- 302

Gaisano HY, Huang X, Sheu L, Ghai M, Newgard CB, Trinh KY, Trimble WS (1999)

Snare protein expression and adenoviral transfection of amphotericin AR 42 J.

Biochem Biophys Res Commun 260 (3), 781- 784

Gaisano HY (2000)

A Hypothesis: SNARE-ing the mechanisms of regulated exocytosis and pathologic membrane fusions in the pancreatic acinar cell.

Pancreas 20 (3), 217- 226

Galli S & Lantz C (1998)

Allergy.

in: Paul W (Hrsg.) Fundamental Immunology. Raven Press, NY, 1127- 1174

Galli T, Chilcote T, Mundigl O, Binz T, Niemann H, De Camilli P (1994)

Tetanus Toxin-mediated cleavage of Cellubrevin impairs exocytosis of Transferrin Receptor-containing vesicles in CHO cells.

J Cell Biol 125 (5), 1015- 1024

Galli T, Zahraoui A, Vadakkanchery VV, Raposo G, Tian JM, Karin M,**Niemann H, Louvard D (1998)**

A novel tetanus neurotoxin-insensitive vesicle-associated membrane protein in SNARE complexes of the apical plasma membrane of epithelial cells.

Mol Biol Cell 9 (6), 1437- 1448

Galli T & Haucke (2004)

Cycling of synaptic vesicles: How far! How fast?

Sci STKE 264, 1- 12

Gerst JE (1999)

SNAREs and SNARE regulators in membrane fusion and exocytosis.

Cell Mol Life Sci 55 (5), 707- 734

Glassmeier G, Strübing C, Riecken E-O, Buhr H, Neuhaus P, Ahnert-Hilger G, Wiedenmann B, Scherübl H (1997)

Electrophysiological properties of human carcinoid cells of the gut.

Gastroenterology 113, 90- 100

Gonelle-Gispert C, Halban PA, Niemann H, Palmer M, Catsicas S, Sadoul K (1999)

SNAP-25a and -25b isoforms are both expressed in insulin-secreting cells and can function in insulin secretion.

Biochem J 339, 159- 165

Gordon JI (1993)

Understanding gastrointestinal epithelial cell biology: lessons from mice with help from worms and flies.

Gastroenterology 104, 315- 324

Gorelick FS, Jamieson JD (1994)

The pancreatic cell : structure-function relationships.

In: Johnson LR, Alpers DH, Jacobson ED, Christensen J, Walsh JH (Hrsg.) Physiology of the gastrointestinal tract. 1353- 1376. Raven Press. New York.

Grabowski P, Schindler I, Anagnostopoulos I, Foss H-D, Riecken E-O, Mansmann U, Stein H, Berger G, Buhr H-J, Scherübl H (2000)

Neuroendocrine differentiation is a relevant prognostic factor in stage III- IV colorectal cancer.

Eur J Gastroenterol & Hepatol 13, 405- 411

Grabowski P, Schönfelder J, Ahnert-Hilger G, Foss H-D, Stein H, Berger G, Zeitz M, Scherübel H (2004)

Heterogenous expression of neuroendocrine marker proteins in human undifferentiated carcinoma of the colon and rectum.

Ann NY Acad Sci 1014, 270- 274

Greene LA & Tischler AS (1976)

Establishment of a noradrenergic clonal line of rat adrenal pheochromocytoma cells which respond to nerve growth factor.

Proc Natl Acad Sci USA 73 (7), 2424- 2428

Grote E, Hao JC, Benett MK, Kelly RB (1995)

A targeting signal in VAMP regulating transport to synaptic vesicles.

Cell 81 (4), 581- 589

Grote E & Kelly RB (1996)

Endocytosis of VAMP is facilitated by a synaptic vesicle targeting signal.

J Cell Biol 132 (4), 537- 547

Guo Z, Turner C, Castle D (1998)

Relocation of the t-SNARE SNAP- 23 from lamellipodia- like cell surface projections regulates compound exocytosis in mast cells.

Cell 94 (4), 537- 548

Hackam DJ, Rotstein OD, Benett MK, Klip A, Grinstein S, Manolson MF (1996)

Characterization and subcellular localization of target membrane soluble NSF attachment protein receptors (t- SNAREs) in macrophages.

J Immunol 156, 4377- 4383

Hackam DJ, Rotstein OD, Sjolin C, Schreiber AD, Trimble WS, Grinstein S (1998)

v- SNARE- dependent secretion is required for phagocytosis.

Proc Natl Acad Sci 95, 11691- 11696

Hakanson R, Chen D, Tielemans Y, Andersson K, Ryberg B, Sundler F, Mattsson H (1994)

ECL Cells: Biology and Pathobiology.
Digestion 55 (3), 38- 45

Hansen NJ, Antonin W, Edwardson JM (1999)

Identification of SNAREs involved in regulated exocytosis in the pancreatic acinar cell.
J Biol Chem 274, 22871- 22876

Hayashi T, McMahon H, Yamasaki S, Binz YH, Hata Y, Südhof TC, Niemann H (1994)
Synaptic vesicle membrane fusion complex: action of clostridial neurotoxins on assembly.
EMBO J 13 (21), 5051- 5061

Helpap B & Köllermann J (2001)

Immunhistochemical analysis of the proliferative activity of neuroendocrine tumors from various organs. Are there indications for a neuroendocrine tumor-carcinoma sequence?
Virchows Arch 438, 86- 91

Hepp R, Perraut M, Chasserot-Golaz S, Galli T, Aunis D, Langley K, Grant NJ (1999)

Cultured glial cells express the SNAP-25 analogue SNAP-23.
GLIA 27, 181- 187

Hepp R, Puri N, Hohenstein AC, Crawford GL, Whiteheart SW, Roche PA (2005)

Phosphorylation of SNAP-23 regulates exocytosis from mast cells.
J Biol Chem 280 (8), 6610- 6620

Hibi T, Hirashima N, Nakanishi M (2000)

Rat basophilic leukemia cells express syntaxin-3 and VAMP 7 in granule membranes.
Biochem Biophys Res Commun 29, 271 (1), 36- 41

Höcker M, John M, Anagnastopoulos J, Buhr HJ, Solimena M, Gasnier B, Henry J-P, Wang TC, Wiedenmann B (1999)

Molecular dissection of regulated secretory pathways in human gastric enterochromaffin-like cells: an immunohistochemical analysis.
Histochem Cell Biol 112 (3), 205- 214

Höcker M & Wiedenmann B (1998)

Molecular Mechanisms of enteroendocrine differentiation.
in: "Intestinal Plasticity in Health and Disease."
Ann NY Acad of Science Vol. 17, 859, 160- 174

Höhne-Zell B, Gallner A, Schepp W, Gratzl M, Prinz C (1997)

Functional importance of Synaptobrevin and SNAP-25 during exocytosis of histamine by rat gastric enterochromaffin-like cells.
Endocrinology 138 (12), 5518- 5526

Hoffmann HJ, Bjerke T, Karawajczyk M, Dahl R, Knepper MA, Nielsen S (2001)

SNARE proteins are critical for regulated exocytosis of ECP from human eosinophils.
Biochem Biophys Res Commun 282, 194- 199

Holt M, Varoqueaux F, Wiedehold K, Takamori S, Urlaub H, Fasshauer D, Jahn R (2006)

Identification of SNAP-47, a novel Qbc-SNARE with ubiquitous expression.
J Biol Chem 281, 17076- 17083

Hume DA & Doe W (1988)

Role of macrophages in cellular defense.
Raven Press (Hrsg.), New York, 23- 43

Huang X, Sheu L, Tamori, Trimble WS, Gaisano HY (2001)

Cholezystokinin-regultated exocytosis in rat pancreatic acinar cells is inhibited by a C-terminus truncated mutant of SNAP-23.
Pancreas, 23 (2), 125- 133

Huang X, Sheu L, Kang Y, Eto Y, Kojima I, Gaisano HY (2002)

Effects of selective endocrine or exocrine induction of AR42J on SNARE and Munc 18 protein expression.
Pancreas, 25 (4), 56- 63

Ibaraki K, Horikawa HPM, Morita T, Mori H, Sakimura K, Mishina M, Saisu H, Abe T (1995)

Identification of four different forms of syntaxin 3.
Biochem Biophys Res Commun 211 (3), 997- 1005

Ikonen E, Mituso T, Ullrich O, Montecucco C, Simons K (1995)

Different requirememts for NSF, SNAP, and Rab proteins in apical and basolateral transport in MDCK cells.
Cell 81, 571- 580

Imai A, Nashida T, Yoshie S, Shimomura H (2003)

Intracellular localisation of SNARE proteins in rat parotid acinar cells:
SNARE complexes on the apical plasma membrane.
Arch Oral Biol 48, 597-604

Jacobsson G, Bean AJ, Scheller RH, Juntti-Berggren L, Deeney JT, Berggren P-O, Meister B (1994)

Identification of synaptic proteins and their isoform mRNA in compartments of pancreatic endocrine cells.
Proc Natl Acad Sci USA 91, 12487- 12491

Jacobsson G & Meister B (1996)

Molecular components of the exocytotic machinary in the rat pituitary gland.
Endocrinology 137 (12), 5344- 5356

Jahn R, Schiebler W, Ouimet C, Greengard P (1985)

A 38 000 dalton membrane protein (p38) present in synaptic vesicles.
Proc Natl Acad Sci USA 82, 4137- 4141

Jahn R & Südhoff TC (1999)

Membrane Fusion and Exocytosis.
Annu Rev Biochem 68, 863- 911

Jahn R, Lang T, Südhoff TC (2003)

Membrane Fusion.
Cell 112, 519- 533

Jaros E, Perry RH, Adam L, Kelly PJ, Crawford PJ, Kalbag RM, Mendelow AD, Sengupta RP, Pearson ADJ (1992)

Prognostic implications of p53 protein, epidermal growth factor receptor and Ki-67 labelling in brain tumors.

Br J Cancer 66 (2), 373- 385

Jöns T, Lehnardt S, Bigalke H, Heim H-K, Ahnert- Hilger G (1999)

SNARE proteins and rab 3A contribute to canalicular formation in parietal cells.

Eur J Cell Biol 78, 779- 786

Junqueira LC, Carneiro J, Kelley RO (2002)

Zytologie, Histologie und mikroskopische Anatomie des Menschen.

Unter Berücksichtigung der Histophysiologie.

Springer Verlag (Hrsg.), 5. Aufl.

Jurgutis P, Shuang R, Fletcher A, Stuenkel EL (1996)

Characterization and distribution of SNARE proteins at neuroendocrine nerve endings.

Neuroendocrinology 64 (5), 379- 392

Kaku M, Nishiyama T, Yagawa K, Abe M (1980)

Establishment of a carcinoembryonic antigen-producing cell line from human pancreatic carcinoma.

Gann 71 (5), 596-601

Kalina M, Lukinius A, Grimmelius L (1991)

Ultrastructural localization of synaptophysin to the secretory granules of normal glucagon and insulin cells in human islets of langerhans.

Ultrastructural Pathol 15, 215- 219

Kang Y, Huang X, Pasyk EA, Ji J, Holz GG, Wheeler MB, Tsushima RG, Gaisano HY (2002)

Syntaxin-3 and syntaxin-1A inhibit L-type calcium channel activity, insulin biosynthesis and exocytosis in beta-cell lines.

Diabetologia 45 (2), 231- 241

Karvar S, Zhu L, Crothers J, Wong W, Turkoz M, Forte JG (2005)

Cellular localization and stimulation-associated distribution dynamics of Syntaxin-1 and Syntaxin-3 in gastric parietal cells.

Traffic 6, 654- 666

Kasai K & Akagawa (2001)

Roles of the cytoplasmatic and transmembrane domains of syntaxins in intracellular localization and trafficking.

J Cell Sci 114 (17), 3115- 3124

Klöppel G (1997)

Classification of neuroendocrine tumors.

Verh Dtsch Ges Path 81, 111- 117

Klöppel G (2003)

Neuroendokrine Tumoren des Gastrointestinaltrakts.

Pathologe 24, 287- 296

Klöppel G, Perren A, Heitz P (2004)

The gastroenteropancreatic neuroendocrine cell system and its tumors.

The WHO Classification.

Ann NY Acad Sci 1014, 13- 24

Kretzschmar S, Volknandt W, Zimmermann H (1996)

Colocalization on the same synaptic vesicle of syntaxin and SNAP-25 with synaptic vesicle proteins: a re-evaluation of functional models required?

Neurosci Res 26 (2), 141-148

Kulke MH & Mayer RJ (1999)

Carcinoid tumors.

N Engl J Med 340, 858- 868 (Rev.)

Lacy P, Thompson N, Tian M, Solari R, Hide I, Newman TM,**Gomperts BD (1995)**

A survey of GTP-binding proteins and other potential key regulators of exocytotic secretion in eosinophils. Apparent absence of rab3a and vesicle fusion protein homologues.

J Cell Science 108 (11), 3547- 3556

Laemmli UK (1970)

Cleavage of structural proteins during the assembly of the head of bacteriophage T4.

Nature 227, 680-685

Lafont F, Verkade P, Galli T, Wimmer C, Louvard D, Simons K (1999)

Raft association of SNAP receptors acting in apical trafficking in Madin- Darby canine kidney cells.

Proc Natl Acad Sci USA 96 (7), 3734- 8

Le Douarin N (1995)

From the APUD to the neuroendocrine systems: a developmental perspective.
in: "The electrophysiology of neuroendocrine cells".

Scherübl H, Hescheler J (Hrsg.)

CRC Press Boca Raton, 3- 10

Lehnardt S, Ahnert-Hilger G, Bigalke H, Jöns T (2000)

Acid secretion of parietal cells is paralleled by a redistribution of NSF and alpha, beta-SNAPs and inhibited by tetanus toxin.

Histochem Cell Biol 114 (5), 387- 391

Leung SM, Chen D, DasGupta BR, Whiteheart SW, Apodaca G (1998)

SNAP-23 requirement for transferrin recycling in Streptolysin-O-permeabilized Madin- Darby-canine kidney cells.

J Biol Chem 273, 17732- 17741

Link E, McMahon H, Fischer von Mollhardt G, Yamasaki S, Niemann H,**Sudhof TC, Jahn R (1993)**

Cleavage of cellubrevin by tetanus toxin does not affect fusion of early endosomes.

J Biol Chem 268 (25), 18423- 18428

Logan MR, Lacy P, Bablitz B, Moqbel R (2002)

Expression of eosinophil target SNAREs as potential cognate receptors for vesicle-associated membrane protein-2 in exocytosis.

J Allergy Clin Immunol 109, 299- 306

Logan MR, Lacy P, Odemuyiwa SO, Steward M, Davoine F, Kita H, Moqbel R (2006)
A critical role for vesicle-associated membrane protein-7 in exocytosis from human eosinophils and neutrophils.
Allergy 61, 777- 784

Low SH, Chapin SJ, Weimbs T, Kömüves LG, Bennett MK, Mostov KE (1996)
Differential localization of syntaxin isoforms in polarized MDCK cells.
Mol Biol Cell 7, 2007- 2018

Low SH, Roche PA, Anderson HA, van Ijzendoorn SCD, Zhang M, Mostov KE, Weimbs T (1998)
Targeting of SNAP-23 and SNAP-25 in polarized epithelial cells.
J Biol Chem 273, 3422- 3430

Low SH, Miura M, Roche PA, Valdez AC, Mostov KE, Weimbs T (2000)
Intracellular redirection of plasma membrane trafficking after loss of epithelial cell polarity.
Mol Biol Cell 11, 3045- 3060

Low SH, Vasanji A, Nanduri J, He M, Sharma N, Koo M, Drazba J, Weimbs T (2006)
Syntaxins 3 and 4 are concentrated in separate clusters on the plasma membrane before the establishment of cell polarity.
Mol Biol Cell 17 (2), 977- 989

Lowry OH, Rosebrough NJ, Farr AL, Randall RJ (1951)
Protein measurement with the Folin Phenol Reagent.
J Biol Chem, 193, 265- 275

Ludger J & Galli T (1998)
Exocytosis: SNARES drum up!
Europ J Neuroscience 10, 415- 422

Mallard F, Tang BL, Galli T, Tenza D, Saint-Pol A, Yue X, Antony C, Hong W, Goud B, Ludger J (2002)
Early/recycling endosomes-to-TGN transport involves two SNARE complexes and a Rab6 isoform.
J Cell Biol 156 (4), 653- 664

Mandon B, Nielsen S, Kishore BK, Knepper MA (1997)
Expression of syntaxins in rat kidney.
Am J Physiol 273 (2), 718- 730

Martín-Martín B, Nabokina SM, Blasi J, Lazo PA, Mollinedo (2000)
Involvement of SNAP-23 and syntaxin 6 in human neutrophil exocytosis.
Blood 96, 2574- 2583

McMahon HT, Ushkaryov YA, Edelmann L, Link E, Binz T, Niemann H, Jahn R, Sudhof TC (1993)
Cellubrevin is a ubiquitous tetanus-toxin substrate homologous to a putative synaptic vesicle fusion protein.
Nature 364 (6435), 346- 349

McMahon HT & Suedhof TC (1995)
Synaptic core complex of synaptobrevin, syntaxin, and SNAP 25 forms high affinity alpha-SNAP binding site.
J Biol Chem 270 (5), 2213-2217

Mollinedo F & Lazo PA (1997)

Identification of two isoforms of the vesicle- membrane fusion protein SNAP-23 in human neutrophils and HL- 60 cells.

Biochem Biophys Res Comm 231, 808- 812

Mollinedo F, Martín-Martín B, Calafat J, Nabokina SM, Lazo PA (2003)

Role of VAMP-2, through Q-SNARE/ R-SNARE interaction, in the exocytosis of Specific and tertiary granules of human neutrophils.

J Immunol 170, 1034- 1042

Moorghen M & Carpenter F (1991)

Peanut Lectin: a histochemical marker for phaeochromocytomas.

Virchows Archiv A Pathol Anat 419, 203- 207

Moqbel R & Lacy P (1999)

Exozytic events in eosinophils and mast cells.

Clinical and Experimental Allergy 29, 1017- 1022

Némoz-Gaillard E, Bosshard A, Regazzi R, Bernard C, Cuber J-C, Takahashi M, Catsicas S, Chayvialle J-A, Abello J (1998)

Expression of SNARE proteins in enteroendocrine cell lines and functional role of tetanus toxin sensitive proteins in cholecystokinin release.

FEBS Lett 425 (1), 66- 70

Oberndorfer S (1907)

Karzinoide Tumoren des Dünndarms.

Frankf Z Path 1, 426- 432

Omatsu-Kanbe M, Ding W-G, Hashiramoto M, Kitasato H (1997)

Immunohistochemical localization of cellubrevin on secretory granules in pancreatic B-cells.

Arch Histol Cytol 60 (3), 289- 295

Oyler GA, Higgins GA, Hart RA, Battenberg E, Bilingsley M, Bloom FE, Wilson MC (1989)

The identification of a novel synaptosomal-associated protein, SNAP-25, differentially expressed by neuronal subpopulations.

J Cell Biol 109, 3039- 3052

Pagan JK, Wylie FG, Joseph S, Widberg C, Bryant NJ, James DE, Stow JL (2003)

The t-SNARE Syntaxin 4 is regulated during macrophage activation to function in membrane traffic and cytokine secretion.

Curr Biol 13, 156-160

Paumet F, Le Mao J, Martin S, Galli T, David B, Blank U, Roa M (2000)

Souble NSF attachment protein receptors (SNAREs) in RBL-2H3 mast cells: functional role of syntaxin 4 in exocytosis and identification of a vesicle- associated membane protein 8-containing secretory compartment.

J Immunology 164 (11), 5850- 5857

Pearse AGE (1974)

The APUD cell concept and its implications in pathology.

Pathol Annu 9, 27- 41

Pickett JA & Edwardson JM (2006)

Compound Exocytosis: mechanisms and functional significance.
Traffic 7, 109- 116

Peng X-R, Yao X, Chow D-C, Forte JG, Bennett MK (1997)

Association of syntaxin 3 and vesicle-associated membrane protein (VAMP) with H⁺/K⁺-ATPase-containing tubulovesicles in gastric parietal cells.
Mol Biol Cell 8 (3), 399- 407

Pombo I, Rivera J, Blank U (2003)

Munc 18-2/syntaxin 3 complexes are spatially separated from syntaxin 3-containing SNARE complexes.
FEBS Letters 550, 144- 148

Ponder BAJ, SchmidtGH, Wilkinson MM, Wood MJ, Monk M, Reid A (1985)

Derivation of mouse intestinal crypts from single progenitor cells.
Nature 313, 689- 691

Prinz C, Kajimura M, Scott DR, Mercier F, Helander HF, Sachs G (1993)

Histamine secretion from rat enterochromaffin-like cells.
Gastroenterology 105, 449- 461

Puri N, Kruhlak MJ, Whiteheart SW, Roche PA (2003)

Mast cell degranulation requires N-ethylmaleimide-sensitive factor mediated SNARE disassembly.
J Immunol, 171, 5345- 5352

Pulford KAF, Rigney EM, Micklem KJ, Jones M, Stross WP, Gatter KC (1989)

KP1- an new monoclonal antibody that detects a monocyte/ macrophage associated antigen in routinely processed tissue sections.

J Clin Pathol 42, 414- 421

Rao SK, Huynh C, Proux-Gillardeaux V, Galli T, Andrews NW (2004)

Identification of SNAREs involved in synaptotagmin VII-regulated lysosomal exocytosis.
J Biol Chem 279, 20471- 20479

Ravichandran V, Chawla A, Roche PA (1996)

Identification of a novel Syntaxin- and Synaptobrevin/ VAMP- binding protein, SNAP-23, expressed in nonneuronal tissues.

J Biol Chem 271 (23), 13300- 13303

Reales E, Mora-López F, Rivas V, García-Poley A, Brieva JA, Campos-Caro A (2005)

Identification of souble N-ethylmaleimide-sensitive factor attachment protein receptor exocytotic machinery in human plasma cells: SNAP-23 is essential for antibody secretion.

J Immunol 175, 6686- 6693

Regazzi R, Wollheim CB, Lang J, Theler J-M, Rossetto O, Montecucco KS, Weller U, Palmer M, Thorens B (1995)

VAMP-2 und Cellubrevin are expressed in pancreatic β -cells and are essential for Ca⁺⁺-but not for GTP γ S- induced insulin secretion.

EMBO Journal 14 (12), 2723- 2730

Rettig J & Neher E (2002)

Emerging roles of presynaptic proteins in Ca⁺⁺-triggered exocytosis.
Science 298 (Rev.), 781- 785

Rindi G, Leitner AB, Kopin AS, Bordi C, Solcia E (2004)

The “normal” endocrine cell of the gut. Changing concepts and new evidences.

Ann NY Acad Science 1014, 1- 12

Riento K, Galli T, Jansson S, Ehnholm C, Lehtonen C, Olkkonen VM (1998)

Interaction of Munc-18/2 with syntaxin 3 controls the association of apical SNAREs in epithelial cells.

J Cell Science 111, 2681- 2688

Rossetto O, Gorza L, Schiavo G, Schiavo N, Scheller R, Montecucco C (1996)

Vamp/ Synaptobrevin isoforms 1 and 2 are widely and differentially expressed in nonneuronal tissue.

J Cell Biol 132, 167- 179

Roth KA & Gordon JI (1990)

Spatial differentiation of the intestinal epithelium: Analysis of enteroendocrine cells containing immunoreactive serotonin, secretin and substance P in normal and transgenic mice.

Proc Natl Acad Sci USA 87, 6408- 6412

Roth KA, Hertz JM, Gordon JI (1990)

Mapping enteroendocrine cell populations in transgenic mice reveals an unexpected degree of complexity in cellular differentiation within the gastrointestinal tract.

J Cell Biol 110, 1791-1801

Roth KA, Kim S, Gordon JI (1992)

Immunocytochemical studies suggest two pathways for enteroendocrine cell differentiation in the colon.

Am J Physiol 263, G 174- 180

Rothman JE (1994)

Mechanisms of intracellular protein transport.

Nature 372, 55- 63

Rothman JE & Warren G (1994)

Implication of the SNARE hypothesis for intracellular membrane topology and dynamics.

Curr Biol 4, 220- 233

Rothman JE & Wieland FT (1996)

Protein sorting by transport vesicles.

Science 272, 227 234

Sadoul K, Berger A, Niemann H, Weller U, Roche PA, Klip A, Trimble WS, Regazzi R, Catsicas S, Halban PA (1997)

SNAP-23 is not cleaved by Botulinum Neurotoxin E and can replace SNAP-25 in the process of insulin secretion.

J Biol Chem 272 (52), 33023-33027

Saxena SK, George CM, Pinsky V, McConnell B (2006)

Epithelium sodium channel is regulated by SNAP-23/syntaxin 1 A interplay.

Biochem Biophys Res Comm 343, 1279- 1285

Scales SJ, Bock JB, Scheller RH (2000)

Cell biology: The specifics of membrane fusion.

Nature 407, 144- 146

Scales SJ, Finley MFA, Scheller RH (2001)

Fusion without SNAREs?

*Science 294, 1015- 1016***Scherübl H, Faiss S, Zeitz (2003)**

Neuroendokrine Tumore des Gastrointestinaltrakts: Diagnostik und Therapie.

*Deutsch Med Wochenschr 128, S81- S83***Schiavo G, Shone CC, Bennett MK, Scheller RH, Montecucco C (1995)**

Botulinum neurotoxin type C cleaves a single Lys-Ala bond within the carboxyl-terminal region of syntaxin.

*J Biol Chem 270 (18), 10566- 10570***Schiebler TH & Schmidt W (Hrsg.) (1999)**

Anatomie: Zytologie, Histologie, Entwicklungsgeschichte, makroskopische und mikroskopische Anatomie des Menschen.

*8. Auflage, Springer Verlag***Schmitt-Gräf A, Müller H, Rancso C, Ahnert- Hilger G, John M, Riecken E-O, Stein H, Wiedenmann B (1997)**

Moleküle der regulierten Sekretion sind Differenzierungsmarker neuroendokriner Tumoren.

*Verh Dtsch Ges Path, 81, 157- 161***Schmitt-Gräff A, Nitschke R, Wiedenmann B (2001)**

Gastroenteropankreatische neuroendokrine/ endokrine Tumoren.

*Pathologe 22, 105- 113***Schwartz LB, Irani A-M, Roller K, Castells MC, Schlechter NM (1987)**

Quantitation of Histamine, Tryptase, And Chymase In Dispersed Human T and TC Mast Cells.

*J Immunol 138 (8), 2611- 2615***Sengupta D, Gumkowski FD, Tang LH, Chilcote TJ, Jamieson JD (1996)**

Localization of cellubrevin to the golgi complex in pancreatic acinar cells.

*Eur J Cell Biol 70, 306- 314***Seong JA & Almers W (2004)**

Tracking SNARE complex formation in live endocrine cells.

*Science 306, 1042- 1046***Sharma N, Low SH, Misra S, Pallavi B, Weimbs T (2006)**

Apical targeting of syntaxin 3 is essential for epithelial cell polarity.

*J Cell Biol 173 (6), 937-948***Shimizu A, Suzuki F, Kato K (1983)**Charakterization of $\alpha\alpha$, $\beta\beta$, $\gamma\gamma$ and $\alpha\gamma$ human enolase isoenzymes and preparation of hybrid enolases from homodimeric forms.*Biochm Biophys Acta 748, 278- 284***Shukla A, Berglund L, Nielsen :P, Hoffmann HJ, Dahl R (2000)**

Regulated exocytosis in immune function: are SNARE- proteins involved?

Respir Med 94 (1), 10-17

Shukla A, Corydon TJ, Nielsen S, Hoffmann HJ, Dahl R (2001)
Identification of three new splice variants of the SNARE protein SNAP-23.
Biochem Biophys Res Comm 285 320- 327

Sjölund K, Sanden G, Hakanson R, Sundler F (1983)
Endocrine cells in human intestine: an immunhistochemical study.
Gastroenterology 85, 1120- 1130

Smolka A, Alverson L, Fritz R, Swiger K, Swiger R (1991)
Gastric H/K- ATPase topography: amino acids 888- 907 are cytoplasmatic.
Biochem Biophys Res Commun 180 (3), 1356-1364

Söllner T, Bennett MK, Whiteheart SW, Scheller RH et Rothman (1993 a)
A protein assembly-disassembly pathway in vitro that may correspond to sequential steps of synaptic vesicle docking, activation and fusion.
Cell 75, 409- 418

Söllner T, Whiteheart SW, Brunner M, Erdjument-Bromage H, Geromanos S, Tempst P, Rothman JE (1993 b)
SNAP receptors implicated in vesicle targeting and fusion.
Nature 362, 318- 324

Solcia E, Capella C, Fiocca R (1998)
Disorders of the endocrine system.
In: Pathology of the gastrointestinal tract. 295- 322
Hrsg.: Ming SC & Goldmann; Verlag: Williams & Wilkins. Philadelphia

Solcia E, Klöppel G, Sabin LH in collaboration with 9 pathologists from 4 countries (2000)
Histological typing of endocrine tumors. International histological classification of endocrine tumors. International histological classification of Tumours.
World Health Organization Pathology Panel: World Health Organisation
2nd edn. Springer, Berlin Heidelberg

Sorensen JB (2005)
SNARE complexes prepare for membrane fusion.
TRENDS in Neurosci 28 (9), 453- 455

Steegmaier M, Lee KC, Prekeris R, Scheller RH (2000)
SNARE protein trafficking in polarized MDCK cells.
Traffic 1, 553-560

Su Q, Mochida S, Tian J-H, Mehta R, Sheng ZH (2001)
SNAP-29: A general SNARE protein that inhibits SNARE disassembly and is implicated in synaptic transmission.
PNAS 98 (24), 14038- 14043

Südhof TC, DeCamille, P, Niemann H, Jahn R (1993)
Membrane fusion machinery: insights from synaptic proteins.
Cell 75, 1- 4

Südhof TC (1995)
The synaptic vesicle cycle: a cascade of protein-protein interactions.
Nature 375, 645- 653

Südhof (2004)

The synaptic vesicle cycle.
Ann Rev Neurosci 27, 509- 547

Sutton RB, Fasshauer D, Jahn R, Brunger AT (1998)

Crystal structure of a SNARE complex involved in synaptic exocytosis at 2.4 Å resolution.
Nature 395, 347- 353

Taubenblatt P, Dedieu JC, Gulik-Kryzwicki, Morel N (1999)

Vamp (synaptobrevin) is present in the plasma membrane of nerve terminals.
J Cell Sci 112, 3559- 3567

Teitelman G (1991)

Cellular, molecular analysis of pancreatic islet cell lineage and differentiation.
Recent Prog Horm Res, 47, 259- 297

Teng FYH, Wang Y, Tang BL (2001)

The syntaxins.
Genome Biol 2 (11), rev. 3012.1- 3012.7

Thomas-Reetz AC & De Camilli P (1994)

A role for synaptic vesicles in non-neuronal cells: clues from pancreatic β- cells and from chromaffin cells.
FASEB J 8, 209- 216

Thorson A, Bjork G, Bjorkman G, Waldenström J (1954)

Malignant carcinoid of the small intestine with metastases to liver, valvular disease of the right heart (pulmonary stenosis and tricuspid regurgitation without septal defect) peripheral vasomotor symptoms, bronchoconstriction and unusual type of cyanosis.
Am Heart J 47, 795- 817

Toonen RFG & Verhage M (2003)

Vesicle trafficking pleasure and pain from SM genes.
Trends in Cell Biol (Rev.) 13 (4), 177-186

Towbin H, Staehelin T, Gordon J (1979)

Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: procedures and some applications.
Proc Natl Acad Sci 76, 4350- 4354

Trimble WS, Cowan DM, Scheller RH (1988)

VAMP-1: a synaptic vesicle-associated protein.
Proc Natl Acad Sci USA 85, 4538- 4542

Ungermann C & Langosch D (2005)

Functions of SNAREs in intracellular membrane fusion and lipid bilayer mixing.
J Cell Scie 118, 3819- 3828

Vaidyanathan VV, Puri N, Roche PA (2001)

The last exon of SNAP- 23 regulates granule exocytosis from mast cells.
J Biol Chem 276 (27), 25101- 25106

Veit M, Becher A, Ahnert-Hilger G (2000)

Synaptobrevin 2 is palmitoylated in synaptic vesicles prepared from adult, but not from embryonic brain.

Mol Cell Neurosci 15, 408- 416

Vikman J, Ma X, Hockerman GH, Rorsman P, Eliasson L (2006)

Antibody inhibition of synaptosomal protein of 25 kD (SNAP-25) and syntaxin 1 reduces rapid exocytosis in insulin-secreting cells.

J Mol Endocrinol 36, 503- 515

Vogel K, Cabaniols J-P, Roche PA (2000)

Targeting of SNAP-25 to membranes is mediated by its association with the target SNARE Syntaxin.

J Biol Chem 275 (4), 2959- 2965

Wang G, Witkin JW, Hao G, Bankaitis VA, Scherer PE (1997)

Syndet is a novel SNAP-25 related protein expressed in many tissues.

J Cell Sci 110, 505- 513

Weber T, Zemelman BV, McNew JA, Westermann B, Gmachl M, Parlati F,**Söllner TH, Rothman JE (1998)**

SNAREpins: Minimal Machinery for Membrane Fusion.

Cell 92, 759- 772

Weimbs T, Low SH, Chapin SJ, Mostov KE (1997)

Apical targeting in polarized epithelial cells: there is more afloat than rafts.

Trends Cell Biol 7, 393- 399

Weimbs T, Low SH, Li X, Kreitzer G (2003)

SNAREs and epithelial cells.

Methods 30, 191-197

Wendler F, Page L, Urbé S, Tooze S (2001)

Homotypic Fusion of immature secretory granules during maturation requires Syntaxin 6.

Mol Biol Cell 12, 1699-1709

Wheeler M.B, Sheu L, Ghai M, Bouquillon A, Grondin G, Weller U, Beaudoin AR, Bennett MK, Trimble W S, Gaisano HY (1996)

Characterization of SNARE protein expression in cell lines and pancreatic islets.

Endocrinology 137 (4), 1340- 1348

Wick MR (2000)

Neuroendocrine neoplasia.

Am J Clin Pathol 113, 331- 335

Wiedenmann B & Franke W (1985)

Identification and localization of synaptophysin, an integral membrane glycoprotein of Mr 38 000 characteristic of presynaptic vesicles.

Cell 41, 1017- 1028

Wiedenmann B, John M, Ahnert- Hilger G, Riecken E-O (1998 a)

Molecular and cell biological aspects of neuroendocrine tumors of the gastroenteropancreatic system.

J Mol Med 76, 637- 647

Wiedenmann B, Rosewicz S, Zeitz M, Riecken E-O (1998 b)

Intestinal plasticity in health and disease.

Ann N Y Acad Scie Vol. 859

Winkler H (1997)

Membrane composition of adrenergic large and small dense core vesicles and of synaptic vesicles: consequences for their biogenesis.

Neurochem Res 22 (8), 921- 932

Wittig BM & Zeitz (2003)

The gut as an organ of immunology.

Int J Colorectal Dis 18, 181- 187

Wong PP, Daneman N, Volchuk A, Lassam N, Wilson MC,**Klip A, Timble WS (1997)**

Tissue distribution of SNAP- 23 and its subcellular localization in 3T3-L1 -cells.

Biochem Biophys Res Com 230, 64- 68

Wong SH, Zhang T, Xu Y, Subramaniam VN, Griffiths G, Hong W (1998)

Endobrevin, a novel Synaptobrevin/ VAMP-like protein preferentially associated with the early endosome.

Mol Biol Cell 9, 1549- 1563

Xia HZ, Kepley CL, Sakai K, Chelliah J, Irani AM, Schwartz LB (1995)

Quantitation of tryptase, chymase, Fc epsilon RI alpha and Fc epsilon RI gamma mRNAs in human mast cells and basophils by competitive reverse transcription-PCR.

J Immunol 154, 5472- 5480

Yang C, Mora S, Ryder JW, Cocker KJ, Hansen P, Allen L-A, Pessin JE (2001)

VAMP 3 null mice display normal constitutive Insulin- and exercise- regulated vesicle trafficking.

Mol and Cell Biol 21 (5), 1573- 1580

Yamada H, Chen D, Monstein H-J, Hakanson R (1997)

Effects of fasting on the expression of gastrin, cholecystokinin and somatostatin genes and of various housekeeping genes in the pancreas and upper digestive tract of rats.

Biochem Biophys Res 231, 835- 338

Yeaman C, Grindstaff KK, Nelson WJ (1999)

New perspectives on mechanisms involved in generating epithelial cell polarity.

Physiological Rev 79 (1), 73- 98

Zanner R, Gratzl M, Prinz C (2002)

Circle of life of secretory vesicles in gastric enterochromaffin-like cells.

Ann NY Acad Sci 971, 389- 396

Zhao CM, Jacobsson G, Chen D, Hakanson R, Meister B (1997)

Exocytotic proteins in enterochromaffin-like (ECL) cells of the rat stomach.

Cell Tissue Res 290 (3), 539-551

Zahraoui A, Louvard D, Galli T (2000)

Tight junction, a platform for trafficking and signaling protein complexes.

J Cell Biol 151 (5), 27 (Rev.)