

Komplette Liste der Pharis Literatur

(Pharis Projekte und Ko-Autorschaften der Pharis Mitarbeiter in chronologischer Abfolge)

- (350) **CgNa, a type I toxin from the sea anemone *Condylactis gigantea* shows structural similarities to both type I and II toxins, as well as distinctive structural and functional properties.** (2007) Salceda E, Perez-Castells J, Lopez-Mendez B, Garateix A, Salazar H, Lopez O, Aneiros A, Standker L, Beress L, Forssmann WG, Soto E, Jimenez-Barbero J, Gimenez-Gallego G. *Biochem J.*: [in press].
- (349) **Discovery and optimization of a natural HIV-1 entry inhibitor targeting the gp41 fusion peptide.** (2007) Munch J, Standker L, Adermann K, Schulz A, Schindler M, Chinnadurai R, Pohlmann S, Chaipan C, Biet T, Peters T, Meyer B, Wilhelm D, Lu H, Jing W, Jiang S, Forssmann WG, Kirchhoff F. *Cell.* **129**: 263- 75.
- (348) **Intermittent administration of the circulating form of human parathyroid hormone (hPTH-1-37) prevents bone loss in ovariectomized rats.** (2007) Stephan S, van de Flierdt J, Loumi S, Bonaterra G, Kramer FJ, Fehr M, Tillmann HC, Forssmann WG, Maronde E. *Eur JMed Res.* **12**: 13- 20.
- (347) **Cellular and subcellular localization of paremmin-1, a protein involved in cell shape control, in the rat brain, adrenal gland and kidney.** (2007) Kutzleb C, Petrasch-Parwez E, Kilimann MW. *Histochem Cell Biol.* **127**: 13- 30.
- (346) **Quantification of angiotensin-converting-enzyme-mediated degradation of human chemerin 145-154 in plasma by matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry.** (2007) John H, Hierer J, Haas O, Forssmann WG. *Anal Biochem.* **362**: 117- 25.
- (345) **Comparative in vitro degradation of the human hemorphin LVV-H7 in mammalian plasma analysed by capillary zone electrophoresis and mass spectrometry.** (2007) John H, Schulz S, Forssmann WG. *Biopharm Drug Dispos.* **28**: 73- 85.
- (344) **The allergy-associated chemokine receptors CCR3 and CCR5 can be inactivated by the modified chemokine NNY-CCL11.** (2007) Manns J, Rieder S, Escher S, Eilers B, Forssmann WG, Elsner J, Forssmann U. *Allergy.* **62**: 17- 24.
- (343) **Defensins as anti-infective and immunomodulatory agents.** (2006) Adermann K. *Exp Opin Ther Patents.* **16**: 1223- 34.
- (342) **ANP and urodilatin: who ist who in the kidney.** (2006) Hirsch JR, Meyer M, Forssmann WG. *Eur JMed Res.* **11**: 447- 54.
- (341) **Haemodynamic and clinical effects of ularitide in decompensated heart failure.** (2006) Mitrovic V, Seferovic PM, Simeunovic D, Ristic AD, Miric M, Moiseyev VS, Kobalava Z, Nitsche K, Forssmann WG, Luss H, Meyer M. *Eur Heart J.* **27**: 2823- 32.
- (340) **Validated multi-component CZE-UV procedure for the quantification of human hemorphin LVV-H7 in plasma stability studies.** (2006) John H, Schulz S, Forssmann WG. *Anal Bioanal Chem.* **386**: 235- 43.

- (339) **A new toxin from the sea anemone *Condylactis gigantea* with effect on sodium channel inactivation.** (2006) Standker L, Beress L, Garateix A, Christ T, Ravens U, Salceda E, Soto E, John H, Forssmann WG, Aneiros A. *Toxicon*. **48**: 211- 20.
- (338) **The novel beta- defensin DEFB123 prevents lipopolysaccharide- mediated effects in vitro and in vivo.** (2006) Motzkus D, Schulz- Maronde S, Heitland A, Schulz A, Forssmann WG, Jubner M, Maronde E. *FASEBJ*. **20**: 1701- 2.
- (337) **Synthesis and structure- activity relationship of beta- defensins, multi- functional peptides of the immune system.** (2006) Kluver E, Adermann K, Schulz A. *J Pept Sci*. **12**: 243- 57.
- (336) **Increase of expression and activation of chemokine CCL15 in chronic renal failure.** (2006) Richter R, Forssmann U, Henschler R, Escher S, Frimpong- Boateng A, Forssmann WG. *Biochem Biophys Res Commun*. **345**: 1504- 12.
- (335) **Engineering disulfide bonds of the novel human beta- defensins hBD- 27 and hBD- 28: differences in disulfide formation and biological activity among human beta- defensins.** (2005) Schulz A, Kluver E, Schulz- Maronde S, Adermann K. *Biopolymers*. **80**: 34- 49.
- (334) **Effects of the renal natriuretic peptide urodilatin (ularitide) in patients with decompensated chronic heart failure: a double- blind, placebo- controlled, ascending- dose trial.** (2005) Mitrovic V, Luss H, Nitsche K, Forssmann K, Maronde E, Fricke K, Forssmann WG, Meyer M. *Am Heart J*. **150**: 1239.
- (333) **hK5 and hK7, two serine proteinases abundant in human skin, are inhibited by LEKTI domain 6.** (2005) Egelrud T, Brattsand M, Kreutzmann P, Walden M, Vitzithum K, Marx UC, Forssmann WG, Magert HJ. *Br J Dermatol*. **153**: 1200- 3.
- (332) **Cloning, expressio, and functional characterization of cynomolgus monkey (*Macaca fascicularis*) CC chemokine receptor 1.** (2005) Gupta S, Schulz- Maronde S, Kutzleb C, Richter R, Forssmann WG, Kapp A, Forssmann U, Elsner J. *J Leukoc Biol*. **78**: 1175- 84.
- (331) **Differential pattern of CCR1 internalization in human eosinophils.** (2005) Elsner J, Dulkys Y, Gupta S, Escher SE, Forssmann WG, Kapp A, Forssmann U. *Allergy*. **60**: 1386- 93.
- (330) **Quantum proteolytic activation of chemokine CCL15 by neutrophil granulocytes modulates mononuclear cell adhesiveness.** (2005) Richter R, Bistrrian R, Escher S, Forssmann WG, Vakili J, Henschler R, Spodsber N, Frimpong- Boateng A, Forssmann U. *J Immunol*. **175**: 1599- 608.
- (329) **Structure- activity relation of human beta- defensin 3: influence of disulfide bonds and cysteine substitution on antimicrobial actiity and cytotoxicity.** (2005) Kluver E, Schulz- Maronde S, Scheid S, Meyer B, Forssmann WG, Adermann K. *Biochemistry*. **44**: 9804- 16.
- (328) **Side chain contributions to the interconversion of the topological isomers of guanylin- like peptides.** (2005) Schulz A, Marx UC, Tidten N, Lauber T, Hidaka Y, Adermann K. *J Pept Sci*. **11**: 319- 30.

- (327) Discovery of novel regulatory peptides by reverse pharmacology: spotlight on chemerin and the RF-amide peptides metastin and QRFP.** (2005) Kutzleb C, Busmann A, Wendland M, Maronde E. *Curr Protein Pept Sci.* **6**: 265- 78.
- (326) In vitro degradation of the antimicrobial human peptide HEM- gamma 130- 146 in plasma analyzed by a validated quantitative LC-MS/MS procedure.** (2005) John H, Huynh KD, Hedtmann C, Walden M, Schulz A, Anspach FB, Forssmann WG. *Anal Biochem.* **341**: 173- 86.
- (325) Diversity of human insulin-like growth factor (IGF) binding protein-2 fragments in plasma: primary structure, IGF-binding properties, and disulfide bonding pattern.** (2005) Mark S, Kuler B, Honing S, Oesterreicher S, John H, Bräulke T, Forssmann WG, Standker L. *Biochemistry.* **44**: 3644- 52.
- (324) Synthesis of the blood circulating C-terminal fragment of insulin-like growth factor (IGF)-binding protein-4 in its native conformation. Crystallization, heparin and IGF binding, and osteogenic activity.** (2005) Fernandez-Tornero C, Lozano RM, Rivas G, Jimenez MA, Standker L, Diaz-Gonzalez D, Forssmann WG, Cuezvas P, Romero A, Gimenez-Gallego G. *J Biol Chem.* **280**: 18899- 907.
- (323) Identification and characterization of novel endogenous proteolytic forms of the human angiogenesis inhibitors restin and endostatin.** (2005) John H, Radtke K, Standker L, Forssmann WG. *Biochim Biophys Acta.* **1747**: 161- 70.
- (322) A distinct carbonic anhydrase in the mucus of the colon of humans and other mammals .** (2005) Kleinke T, Wagner S, John H, Hewett- Emmet D, Parkkila S, Forssmann WG, Gros G. *JExp Biol.* **208**: 487- 96.
- (321) Isolation and characterization of a novel proopiomelanocortin-derived peptide from hemofiltrate of chronic renal failure patients.** (2005) Fricke K, Schulz A, John H, Forssmann WG, Maronde E. *Endocrinology.* **146**: 2060- 8.
- (320) Stability and cleavage conditions of (2-furyl)-L-alanine-containing peptides.** (2004) Schulz A, Busmann A, Kluver E, Schnebel M, Adermann K. *Protein Pept Lett .* **11**: 601- 6.
- (319) Exploiting natural peptide diversity: novel research tools and drug leads .** (2004) Adermann K, John H, Standker L, Forssmann WG. *Curr Opin Biotechnol.* **15**: 599- 606.
- (318) A three-step purification strategy for isolation of hamster TIG2 from CHO cells: characterization of two processed endogenous forms.** (2004) Busmann A, Walden M, Wendland M, Kutzleb C, Forssmann WG, John H. *JChromatogr B Analyt Technol Biomed Life Sci.* **811**: 217- 23.
- (317) n-Nonanoyl-CC chemokine ligand 14, a potent CC chemokine ligand 14 analogue that prevents the recruitment of eosinophils in allergic airway inflammation.** (2004) Forssmann U, Hartung I, Balder R, Fuchs B, Escher SE, Spodsberg N, Dulkys Y, Walden M, Heitland A, Braun A, Forssmann WG, Elsner J. *JImmunol.* **173**: 3456- 66.
- (316) Automated multi-dimensional liquid chromatography: sample preparation and identification of peptides from human blood filtrate.** (2004) Machtejevas E, John H, Wagner K, Standker L, Marko-Varga G, Forssmann WG, Bischoff R, Unger KK. *JChromatogr B Analyt Technol Biomed Life Sci.* **803**: 121- 30.

- (315) **Recombinant production, purification and biochemical characterization of domain 6 of LEKTI: a temporary Kazal-type-related serine proteinase inhibitor.** (2004) Kreutzmann P, Schulz A, Standker L, Forssmann WG, Magert HJ. *J Chromatogr B Analyt Technol Biomed Life Sci.* **803**: 75- 81.
- (314) **Functional analysis of chemically synthesized derivatives of the human CC chemokine CCL15/HCC- 2, a high affinity CCR1 ligand.** (2004) Escher SE, Forssmann U, Frimpong- Boateng A, Adermann K, Vakili J, Sticht H, Detheux M. *JPept Res.* **63**: 36- 47.
- (313) **Characterization of human circulating TIG2 as a ligand for the orphan receptor ChemR23.** (2003) Meder W, Wendland M, Busmann A, Kutzleb C, Spodsberg N, John H, Richter R, Schleuder D, Meyer M, Forssmann WG. *FEBSLett.* **555**: 495- 9.
- (312) **Analytical procedures for quantification of peptides in pharmaceutical research by liquid chromatography- mass spectrometry.** (2003) John H, Walden M, Schafer S, Genz S, Forssmann WG. *Anal Bioanal Chem.* **378**: 883- 97.
- (311) **The leader peptide of MMTV Env precursor localizes to the nucleoli in MMTV-derived T cell lymphomas and interacts with nucleolar protein B23.** (2003) Hoch- Marchaim H, Weiss AM, Bar-Sinai A, Fromer M, Adermann K, Hochman J. *Virology.* **513**: 22- 32.
- (310) **Human hemoglobin- derived peptides exhibit antimicrobial activity: a class of host defense peptides.** (2003) Liepke C, Baxmann S, Heine C, Breithaupt N, Standker L, Forssmann WG. *JChromatogr B Analyt Technol Biomed Life Sci.* **791**: 345- 56.
- (309) **Survival of severe ARDS with five-organ system failure following burns and inhalation injury in a 15- year- old patient.** (2003) Cedidi C, Hierner R, Pichlmaier M, Forssmann WG, Meyer M. *Burns.* **29**: 389- 94.
- (308) **Is serotonin significant for the control of penile flaccidity and detumescence in the human male?** (2003) Uckert S, Fuhlenriede MH, Becker AJ, Stief CG, Scheller F, Knapp WH, Forssmann Wg, Jonas U. *Urol Res.* **31**: 55- 60.
- (307) **N- terminal proopiomelanocortin acts as a mitogen in adrenocortical tumor cells and decreases adrenal steroidogenesis.** (2003) Fassnacht M, Hahner S, Hansen IA, Kreutzberger T, Zink M, Adermann K, Jakob F, Troppmair J, Allolio B. *JClin Endocrinol Metab.* **88**: 2171- 9.
- (306) **In vivo processed fragments of IGF binding protein- 2 copurified with bioactive IGF- II.** (2003) Standker L, Kubler B, Obendorf M, Bräulke T, Forssmann WG, Mark S. *Biochem Biophys Res Commun.* **304**: 708- 13.
- (305) **Homologous proteins with different folds: the three- dimensional structures of domains 1 and 6 of the multiple Kazal- typ inhibitor LEKTI.** (2003) Lauber T, Schulz A, Schweimer K, Adermann K, Marx UC. *JMol Biol.* **328**: 205- 19.
- (304) **Identification and functional characterization of hemorphins VV- H- 7 and LVV- H- 7 as low- affinity agonists for the orphan bombesin receptor subtype 3.** (2003) Lammerich HP, Busmann A, Kutzleb C, Wendland M, Seiler P, Berger C, Eickelmann P, Meyer M, Forssmann WG, Maronde E. *Br J Pharmacol.* **138**: 1431- 40.

- (303) Expression of guanylyl cyclase B in the human corpus cavernosum penis and the possible involvement of its ligand C-type natriuretic polypeptide in the induction of penile erection.** (2003) Kuthe A, Reinecke M, Uckert S, Becker A, David I, Heitland A, Stief CG, Forssmann WG, Magert HJ. *JUrol.* **169**: 1918- 22.
- (302) Distribution of new human beta- defensin genes clustered on chromosome 20 in functionally different segments of epididymis.** (2003) Rodriguez- Jimenez FJ, Krause A, Schulz S, Forssmann WG, Conejo- Garcia JR, Schreeb R, Motzkus D. *Genomics.* **81**: 175- 83.
- (301) Isolation and biochemical characterization of LEAP-2, a novel blood peptide expressed in the liver.** (2003) Krause A, Sillard R, Kleemeier B, Kluver E, Maronde E, Conejo- Garcia JR, Forssmann WG, Schulz- Knappe P, Nehls MC, Wattler F, Wattler S, Adermann K. *Protein Sci.* **12**: 143- 52.
- (300) Biochemical features, molecular biology and clinical relevance of the human 15- domain serine proteinase inhibitor LEKTI.** (2002) Walden M, Kreutzmann P, Drogemuller K, John H, Forssmann WG, Hans- Jurgen M. *Biol Chem.* **383**: 1139- 41.
- (299) Time- resolved fluorometric assay for the detection of endostatin in chromatographically separated extracts of natural peptides.** (2002) John H, Schulz S, Forssmann WG, Standker L. *J Immunol Methods.* **268**: 233- 7.
- (298) Chemical synthesis of beta- defensins and LEAP-1/hepcidin.** (2002) Kluver E, Schulz A, Forssmann WG, Adermann K. *J Pept Res.* **59**: 241- 8.
- (297) Isolation and characterization of circulating fragments of the insulin- like growth factor binding protein- 3.** (2002) Kubler B, Draeger C, John H, Andag U, Scharf JG, Forssmann WG, Braulke T, Standker L. *FEBS Lett.* **518**: 124- 8.
- (296) Angiotensin II receptor- independent antiinflammatory and antiaggregatory properties of losartan: role of the active metabolite EXP3179.** (2002) Kramer C, Sunkomat J, Witte J, Luchtefeld M, Walden M, Schidt B, Tsikas D, Boger RH, Forssmann WG, Drexler H, Schieffer B. *Circ Res.* **90**: 770- 6.
- (295) Hemofiltrate CC chemokine 1[9- 74] causes effective internalization of CCR5 and is a potent inhibitor of R5- tropic human immunodeficiency virus type 1 strains in primary T cells and macrophages.** (2002) Munch J, Standker L, Pohlmann S, Baribaud F, Papkalla A, Rosorius O, Stauber R, Sass G, Heveker N, Adermann K, Escher S, Kluver E, Doms RW, Forssmann WG, Kirchhoff F. *Antimicrob Agents Chemother.* **46**: 982- 90.
- (294) Human milk provides peptides highly stimulating the growth of bifidobacteria.** (2002) Liepke C, Adermann K, Raida M, Magert HJ, Forssmann WG, Zucht HD. *Eur J Biochem.* **269**: 712- 8.
- (293) Structure determination of human and murine beta- defensins reveals structural conservation in the absence of significant sequence similarity.** (2001) Bauer F, Schweimer K, Kluver E, Conejo- Garcia JR, Forssmann WG, Rosch P, Adermann K, Sticht H. *Protein Sci.* **10**: 2470- 9.
- (292) The 15- Domain Serine Proteinase Inhibitor** (2002) Magert HJ, Kreutzmann P, Drogemuller K, Standker L, Adermann K, Walden M, John H, Kortig HC, Forssmann WG. *LEKTI: Biochemical Properties, Genomic Organization, and Pathophysiological Role. Eur J Med Res* **7** : 49- 56. 2.

- (291) Evidence for an operative glyoxylate cycle in the thermacidophilic crenarchaeon *Sulfolobus acidocaldarius*. (2002) Uhrigshardt H, Walden M, John H, Petersen A, Anemuller S. *FEBS Lett* **513** : 223- 9. 3.
- (290) Human CC chemokine 1[9- 74] induces CCR5 internalization and inhibits replication of R5- tropic HIV isolates in primary T- cells and macrophages. (2002) Munch J, Standker L, Pohlmann S, Papkalla A, Rosorius O, Stauber R, Sass G, Heveker N, Adermann K, Forssmann WG, Kirchhoff F. *Antimicrob Agents Chemother* **46** : 982- 990. 4.
- (289) LEKTI: a multidomain serine proteinase inhibitor with pathophysiological relevance. (2002) Magert HJ, Kreutzmann P, Standker L, Walden M, Drogemuller K, Forssmann WG. *Int J Biochem Cell Biol* **34** : 573- 6. 5.
- (288) Synthesis of novel mammalian cysteine- rich peptide antibiotics. (2002) Klüver E, Schulz A, Forssmann WG, Adermann K. *J Pept Res* **59** : 241- 8. 6.
- (287) Isolation and characterization of circulating fragments of the insulin- like growth factor binding protein- 3. (2002) Kubler B, Draeger C, John H, Andag U, Scharf JG, Forssmann WG, Braulke T, Standker L. *FEBS Lett* **518** : 124- 8. 7.
- (286) Human milk provides peptides highly stimulating the growth of bifidobacteria. (2002) Liepke C, Adermann K, Raida M, Magert HJ, Forssmann WG, Zucht HD. *Eur J Biochem* **269** : 712- 18. 8.
- (285) Fmoc- based synthesis of the human CC chemokine CCL14/HCC- 1 by SPPS and native chemical ligation. (2002) Escher SE, Klüver E, Adermann K. *Lett Pept Sci* **8** : 349- 357. 9.
- (284) Biochemical features, molecular biology and clinical relevance of the human 15- domain serine proteinase inhibitor LEKTI. (2002) Walden M, Kreutzmann K, Drogemuller K, John H, Forssmann WG, Magert HJ. *Biol Chem* **383** : 1139- 1141. 10.
- (283) Time- resolved fluorometric assay for the detection of endostatin in chromatographically separated extracts of natural peptides. (2002) John H, Schulz S, Forssmann WG, Standker L. *J Immunol Methods* **268** : 233- 237. 11.
- (282) Structural and thermodynamic investigations of metabolites of the thromboxane synthase pathway. (2002) John H, Schlegel W. *Analytica Chimica Acta* **465** : 441- 450.
- (281) Recollections and memorial for René G. Favaloro – Inventor of coronary bypass operation. (2001) Aoki A, Forssmann WG, Haverich A. *Eur J Med Res* **6**: 369–371.
- (280) Ceramide induces aSMase expression: implications for oxLDL–induced apoptosis. (2001) Deigner HP, Claus R, Bonaterra GA, Gehrke C, Bibak N, Blaess M, Cantz M, Metz J, Kinscherf R. *FASEB J* **15**: 807–14.
- (279) Hemofiltrate CC chemokines with unique biochemical properties: HCC–1/CCL14a and HCC–2/CCL15. (2001) Forssmann U, Magert HJ, Adermann K, Escher SE, Forssmann WG. *J Leukoc Biol* **70**: 357–66.
- (278) The renal urodilation system: clinical implications. (2001) Forssmann WG, Meyer M, Forssmann K. *Cardiovasc Res* **51**: 450–62.

- (277) **Human beta-defensin 4: a novel inducible peptide with a specific salt-sensitive spectrum of antimicrobial activity.** (2001) Garcia JR, Krause A, Schulz S, Rodriguez-Jimenez FJ, Kluver E, Adermann K, Forssmann U, Frimpong-Boateng A, Bals R, Forssmann WG. *FASEB J* **15**: 1819–21.
- (276) **Cellular localization, membrane distribution, and possible function of guanylyl cyclases A and 1 in collecting ducts of rat.** (2001) Hirsch JR, Kruhoffer M, Adermann K, Heitland K, Maronde E, Meyer M, Forssmann WG, Herter P, Plenz G, Schlatter E. *Cardiovascular Res* **51**: 553–61.
- (275) **Determination of the disulfide bond pattern of the endogenous and recombinant angiogenesis inhibitor endostatin by mass spectrometry.** (2001) John H, Forssmann WG. *Rapid Commun Mass Spectrom* **15**: 1222–8.
- (274) **Human natriuretic peptides exhibit antimicrobial activity.** (2001) Krause A, Liepke C, Meyer M, Adermann K, Forssmann WG, Maronde E. *Eur J Med Res* **6**: 215–218.
- (273) **Expression of different phosphodiesterase genes in human cavernous smooth muscle.** (2001) Kuthe A, Wiedenroth A, Magert HJ, Uckert S, Forssmann WG, Stief CG, Jonas U. *J Urol* **165**: 280–3.
- (272) **Accurate Disulfide Formation in Escherichia coli: Overexpression and Characterization of the First Domain (HF6478) of the Multiple Kazal-Type Inhibitor LEKTI.** (2001) Lauber T, Marx UC, Schulz A, Kreutzmann P, Rosch P, Hoffmann S. *Protein Expr Purif* **22**: 108–12.
- (271) **Purification of novel peptide antibiotics from human milk.** (2001) Liepke C, Zucht HD, Forssmann WG, Standker L. *J Chromatogr B Biomed Sci Appl* **752**: 369–377.
- (270) **Intravenous administration of the natriuretic peptide urodilatin at low doses during coronary reperfusion limits infarct size in anesthetized pigs.** (2001) Padilla F, Garcia-Dorado D, Agullo L, Barrabes JA, Inserte J, Escalona N, Meyer M, Mirabet M, Pina P, Soler-Soler J. *Cardiovasc Res* **51**: 592–600.
- (269) **Purification and characterization of the first archaeal aconitase from the thermoacidophilic Sulfolobus acidocaldarius.** (2001) Uhrigshardt H, Walden M, John H, Anemuller S. *Eur J Biochem* **268**: 1760–71.
- (268) **The disulfide bond pattern of catrocollastatin C, a disintegrin-like/cysteine-rich protein isolated from Crotalus atrox venom.** (2000) Calvete JJ, Moreno-Murciano MP, Sanz L, Jurgens M, Schrader M, Raida M, Benjamin DC, Fox JW. *Protein Sci* **9**: 1365–73.
- (267) **Antiapoptotic effects of propolis extract and propol on human macrophages exposed to minimally modified low density lipoprotein.** (2000) Claus R, Kinscherf R, Gehrke C, Bonaterra G, Basnet P, Metz J, Deigner HP. *Arzneimittelforschung* **50**: 373–9.
- (266) **Neurofilament H immunoreaction in oligodendrogliomas as demonstrated by a new polyclonal antibody.** (2000) Dehghani F, Maronde E, Schachenmayr W, Korf HW. *Acta Neuropathol* **100**: 122–30.
- (265) **Natural proteolytic processing of hemofiltrate CC chemokine 1 generates a potent CC chemokine receptor (CCR)1 and CCR5 agonist with Anti-HIV properties.** (2000) Detheux M, Standker L, Vakili J, Munch J, Forssmann U, Adermann K, Pohlmann S, Vassart G, Kirchhoff F, Parmentier M, Forssmann WG. *J Exp Med* **192**: 1501–8.

- (264) **Macrophages infiltrating the tissue in chronic pancreatitis express the chemokine receptor CCR5.** (2000) Goecke H, Forssmann U, Uguccioni M, Friess H, Graber H, Conejo-Garcia JR, Zimmermann A, Baggiolini M, Buchler MW. *Surgery* **128**: 806–814.
- (263) **Identification of a new metabolite of macrolide immunosuppressant, like rapamycin and SDZ RAD, using high performance liquid chromatography and electrospray tandem mass spectrometry.** (2000) Hallensleben K, Raida M, Habermehl G. *J Am Soc Mass Spectrom* **11**: 516–25.
- (262) **Dual function of the propeptide of prouroguanylin in the folding of the mature peptide.** (2000) Hidaka Y, Shimono C, Ohno M, Okumura N, Adermann K, Forssmann WG, Shimonishi Y. *J Biol Chem* **275**: 25155–62.
- (261) **Determination of the pK[alpha] of 12-S-Hydroxyheptadecatrienoic acid by studies of its vital surface adsorption using high-performance liquid chromatography and liquid scintillation technique.** (2000) John H, Schlegel W. *Chem Phys Lipids* **99**: 95–101.
- (260) **Thermodynamic and structural characterization of cis-trans isomerization of 12-S-Hydroxy-(5Z, 8E, 10E)-heptadecatrienoic acid by high-performance liquid chromatography and gaschromatography-mass spectrometry.** (2000) John H, Schlegel W. *Chem Phys Lipids* **95**: 181–188.
- (259) **Cell-penetrating SH3 domain blocker peptides inhibit proliferation of primary blast cells from CML patients.** (2000) Kardinal C, Konkol B, Schulz A, Possern G, Lin H, Adermann K, Eulitz M, Estrov Z, Talpaz M, Arlinghaus RB, Feller SM. *FASEB J* **14**: 1529–38.
- (258) **LEAP-1, a novel highly disulfide-bonded human peptide, exhibits antimicrobial activity.** (2000) Krause A, Neitz SE, Magert HJ, Schulz A, Forssmann WG, Schulz-Knappe P, Adermann K. *FEBS Lett* **480**: 147–150.
- (257) **Analyses of signal transduction cascades reveal an essential role of calcium ions for regulation of melatonin biosynthesis in the light-sensitive pineal organ of the rainbow trout (*Oncorhynchus mykiss*).** (2000) Kroeber S, Meissl H, Maronde E, Korf HW. *J Neurochem* **74**: 2478–89.
- (256) **Expression and cell-specific localization of the cholecystokinin B/gastrin receptor in the human stomach.** (2000) Kulaksiz H, Arnold R, Goke B, Maronde E, Meyer M, Fahrenholz F, Forssmann WG, Eissele R. *Cell Tissue Res* **299**: 289–98.
- (255) **Gene expression of the phosphodiesterases 3A and 5A in human corpus cavernosum penis.** (2000) Kuthe A, Magert H, Uckert S, Forssmann WG, Stief CG, Jonas U. *Eur Urol* **38**: 108–14.
- (254) **Solution structures of human parathyroid hormone fragments hPTH(1–34) and hPTH(1–39) and bovine parathyroid hormone fragment bPTH(1–37).** (2000) Marx UC, Adermann K, Bayer P, Forssmann WG, Rosch P. *Biochem Biophys Res Commun* **267**: 213–20.
- (253) **The human PER1 gene is transcriptionally regulated by multiple signaling pathways.** (2000) Motzkus D, Maronde E, Grunenberg U, Lee CC, Forssmann WG, Albrecht U. *FEBS Lett* **486**: 315–319.
- (252) **Antisense experiments reveal molecular details on mechanisms of ICER suppressing cAMP-inducible genes in rat pinealocytes.** (2000) Pfeffer M, Maronde E, Korf HW, Stehle JH. *J Pineal Res* **29**: 24–33.

- (251) **Posttranslationally processed forms of the human chemokine HCC-1.** (2000) Richter R, Schulz-Knappe P, John H, Forssmann WG. *Biochemistry* **39**: 10799–805.
- (250) **Eomesodermin is required for mouse trophoblast development and mesoderm formation.** (2000) Russ AP, Wattler S, Colldege WH, Aparicio SA, Carlton MB, Pearce JJ, Barton SC, Surani MA, Ryan K, Nehls MC, Wilson V, Evans MJ. *Nature* **404**: 95–99.
- (249) **Rectus abdominis musculoperitoneal flap for closure of bladder defect.** (2000) Schilling MK, Forssmann U, Kollmar O, Maurer CA, Buchler MW. *J Urol* **163**: 1517.
- (248) **Preparation of disulfide-bonded polypeptide heterodimers by titration of thio-activated peptides with thiol-containing peptides.** (2000) Schulz A, Adermann K, Eulitz M, Feller SM, Kardinal C. *Tetrahedron* **56**: 3889–3891.
- (247) **Cyclic nucleotide analogs as biochemical tools and prospective drugs.** (2000) Schwede F, Maronde E, Genieser H, Jastorff B. *Pharmacol Ther* **87**: 199–226.
- (246) **Conservative surgical treatment of diffuse peritonitis.** (2000) Seiler CA, Brugger L, Forssmann U, Baer HU, Buchler MW. *Surgery* **127**: 178–184.
- (245) **Partial IGF affinity of circulating N- and C-terminal fragments of human insulin-like growth factor binding protein-4 (IGFBP-4) and the disulfide bonding pattern of the C-terminal IGFBP-4 domain.** (2000) Standker L, Braulke T, Mark S, Mostafavi H, Meyer M, Honing S, Gimenez-Gallego G, Forssmann WG. *Biochemistry* **39**: 5082–8.
- (244) **Die Charakterisierung der Phosphodiesterase-Isoenzyme des Ureters und deren funktionelle Bedeutung in vitro.** (2000) Stief CG, Taher A, Meyer M, Schulz-Knappe P, Becker A, Forssmann WG, Jonas U. *Akt Urol* **26**: 27–31.
- (243) **Die Phosphodiesterase-Isoenzyme des humanen Corpus cavernosum penis und deren funktionelle Bedeutung.** (2000) Stief CG, Taher A, Truss M, Uckert S, Meyer M, Schulz-Knappe P, Forssmann WG, Jonas U. *Akt Urol* **26**: 22–24.
- (242) **Effects of sildenafil on cAMP and cGMP levels in isolated human cavernous and cardiac tissue.** (2000) Stief CG, Uckert S, Becker AJ, Harringer W, Truss MC, Forssmann WG, Jonas U. *Urology* **55**: 146–50.
- (241) **Electrospray ionization mass spectrometry of low-molecular-mass S-nitroso compounds and their thiols.** (2000) Tsikas D, Raida M, Sandmann J, Rossa SR, Forssmann WG, Frolich JC. *J Chromatogr B Biomed Sci Appl* **742**: 99–108.
- (240) **The leukaemic oncoproteins Bcr-Abl and Tel-Abl (ETV6/Abl) have altered substrate preferences and activate similar intracellular signalling pathways.** (2000) Voss J, Posern G, Hannemann JR, Wiedemann LM, Turhan AG, Poirel H, Bernard OA, Adermann K, Kardinal C, Feller SM. *Oncogene* **19**: 1684–90.
- (239) **Urodilatin (pINN: Ularitide) reverses acute renal failure following cardiac surgery.** (2000) Wiebe K, Meyer M, Wahlers T, Zenker D, Schulz FP, Mohr F, Michels P, Forssmann WG. *Eur J Med Res* **1**: 1–7.
- (238) **Structural and phylogenetic characterization of human SLURP-1, the first secreted mammalian member of the Ly-6/uPAR protein superfamily.** (1999) Adermann K, Wattler F, Wattler S, Heine G, Meyer M, Forssmann WG, Nehls M. *Protein Sci* **8**: 810–9.

- (237) **Characterisation of the conformational and quaternary structure-dependent heparin-binding region of bovine seminal plasma protein PDC-109.** (1999) Calvete JJ, Campanero-Rhodes MA, Raida M, Sanz L. *FEBS Lett* **444**: 260-4.
- (236) **Molecular characterization and crystallization of Diocleinae lectins.** (1999) Calvete JJ, Thole HH, Raida M, Urbanke C, Romero A, Grangeiro TB, Ramos MV, Almeida da Rocha IM, Guimaraes FN, Cavada BS. *Biochim Biophys Acta* **1430**: 367-75.
- (235) **Fibroblast growth factor protects the kidney against ischemia-reperfusion injury.** (1999) Cuevas P, Martinez-Coso V, Fu X, Orte L, Reimers D, Gimenez-Gallego G, Forssmann WG, Saenz De Tejada I. *Eur J Med Res* **4**: 403-10.
- (234) **Synthesis and characterization of the human CC chemokine HCC-2.** (1999) Escher SE, Sticht H, Forssmann WG, Rosch P, Adermann K. *J Pept Res* **54**: 505-13.
- (233) **Bronchodilation using combined urodilatin - albuterol administration in asthma: a randomized, double-blind, placebo-controlled trial.** (1999) Fluge T, Forssmann WG, Kunkel G, Schneider B, Mentz P, Forssmann K, Barnes PJ, Meyer M. *Eur J Med Res* **4**: 411-5.
- (232) **cGMP-dependent and -independent inhibition of a K⁺ conductance by natriuretic peptides: molecular and functional studies in human proximal tubule cells.** (1999) Hirsch JR, Meyer M, Magert HJ, Forssmann WG, Mollerup S, Herter P, Weber G, Cermak R, Ankorina-Stark I, Schlatter E, Kruhoffer M. *J Am Soc Nephrol* **10**: 472-80.
- (231) **Novel glycosylated forms of human plasma endostatin and circulating endostatin-related fragments of collagen XV.** (1999) John H, Preissner KT, Forssmann WG, Standker L. *Biochemistry* **38**: 10217-24.
- (230) **Characterization of apoptotic macrophages in atheromatous tissue of humans and heritable hyperlipidemic rabbits.** (1999) Kinscherf R, Wagner M, Kamencic H, Bonaterra GA, Hou D, Schiele RA, Deigner HP, Metz J. *Atherosclerosis* **144**: 33-9.
- (229) **Molecular biological characterization of phosphodiesterase 3A from human corpus cavernosum.** (1999) Kuthe A, Eckel H, Stief CG, Uckert S, Forssmann WG, Jonas U, Magert HJ. *Chem Biol Interact* **119-120**: 593-8.
- (228) **LEKTI, a novel 15-domain type of human serine proteinase inhibitor.** (1999) Magert HJ, Standker L, Kreuzmann P, Zucht HD, Reinecke M, Sommerhoff CP, Fritz H, Forssmann WG. *J Biol Chem* **274**: 21499-502.
- (227) **Porcine guanylin and uroguanylin: cDNA sequences, deduced amino acid sequences, and biological activity of the chemically synthesized peptides.** (1999) Magert HJ, Hill O, Zucht HD, Martin S, Meyer M, Forssmann WG, Adermann K. *Biochem Biophys Res Commun* **259**: 141-8.
- (226) **The golden hamster aphrodisin gene. Structure, expression in parotid glands of female animals, and comparison with a similar murine gene.** (1999) Magert HJ, Cieslak A, Alkan O, Luscher B, Kauffels W, Forssmann WG. *J Biol Chem* **274**: 444-50.
- (225) **EC3, a novel heterodimeric disintegrin from Echis carinatus venom, inhibits alpha4 and alpha5 integrins in an RGD-independent manner.** (1999) Marcinkiewicz C, Calvete JJ, Marcinkiewicz MM, Raida M, Vijay-Kumar S, Huang Z, Lobb RR, Niewiarowski S. *J Biol Chem* **274**: 12468-73.

- (224) **Structural and functional characterization of EMF10, a heterodimeric disintegrin from Eristocophis macmahoni venom that selectively inhibits alpha 5 beta 1 integrin.** (1999) Marcinkiewicz C, Calvete JJ, Vijay-Kumar S, Marcinkiewicz MM, Raida M, Schick P, Lobb RR, Niewiarowski S. *Biochemistry* **38**: 13302–9.
- (223) **Strategy for identifying circulating fragments of insulin-like growth factor binding proteins in a hemofiltrate peptide bank.** (1999) Mark S, Forssmann WG, Standker L. *J Chromatogr A* **852**: 197–205.
- (222) **CREB phosphorylation and melatonin biosynthesis in the rat pineal gland: involvement of cyclic AMP dependent protein kinase type II.** (1999) Maronde E, Wicht H, Tasken K, Genieser HG, Dehghani F, Olcese J, Korf HW. *J Pineal Res* **27**: 170–82.
- (221) **Signal transduction in the rodent pineal organ. From the membrane to the nucleus.** (1999) Maronde E, Pfeffer M, von Gall C, Dehghani F, Schomerus C, Wicht H, Kroeber S, Olcese J, Stehle JH, Korf HW. *Adv Exp Med Biol* **460**: 109–31.
- (220) **Transcription factors in neuroendocrine regulation: rhythmic changes in pCREB and ICER levels frame melatonin synthesis.** (1999) Maronde E, Pfeffer M, Olcese J, Molina CA, Schlotter F, Dehghani F, Korf HW, Stehle JH. *J Neurosci* **19**: 3326–36.
- (219) **Regulated, side-directed secretion of proguanylin from isolated rat colonic mucosa.** (1999) Martin S, Adermann K, Forssmann WG, Kuhn M. *Endocrinology* **140**: 5022–9.
- (218) **Therapeutic use of the natriuretic peptide ularitide in acute renal failure.** (1999) Meyer M, Pfarr E, Schirmer G, Uberbacher HJ, Schope K, Bohm E, Fluge T, Mentz P, Scigalla P, Forssmann WG. *Ren Fail* **21**: 85–100.
- (217) **Variability in the ratio of mutant to wildtype myosin heavy chain present soleus muscle of patients with familial hypertrophic cardiomyopathy.** (1999) Nier V, Schultz I, Brenner B, Forssmann WG, Raida M. *FEBS Lett* **461**: 246–52.
- (216) **Inducible cyclic AMP early repressor protein in rat pinealocytes: a highly sensitive natural reporter for regulated gene transcription.** (1999) Pfeffer M, Maronde E, Molina CA, Korf HW, Stehle JH. *Mol Pharmacol* **56**: 279–89.
- (215) **Expression, regulation and clinical significance of bone morphogenetic protein 6 in esophageal squamous-cell carcinoma.** (1999) Raida M, Sarbia M, Clement JH, Adam S, Gabbert HE, Hoffken K. *Int J Cancer* **83**: 38–44.
- (214) **Liquid chromatography and electrospray mass spectrometric mapping of peptides from human plasma filtrate.** (1999) Raida M, Schulz-Knappe P, Heine G, Forssmann WG. *J Am Soc Mass Spectrom* **10**: 45–54.
- (213) **Composition of the peptide fraction in human blood plasma: database of circulating human peptides.** (1999) Richter R, Schulz-Knappe P, Schrader M, Standker L, Jurgens M, Tammen H, Forssmann WG. *J Chromatogr B Biomed Sci Appl* **726**: 25–35.
- (212) **Role of the prosequence of guanylin.** (1999) Schulz A, Marx UC, Hidaka Y, Shimonishi Y, Rosch P, Forssmann WG, Adermann K. *Protein Sci* **8**: 1850–9.
- (211) **Application of a peptide bank from porcine brain in isolation of regulatory peptides.** (1999) Seiler P, Standker L, Mark S, Hahn W, Forssmann WG, Meyer M. *J Chromatogr A* **852**: 273–83.

- (210) **A disulfide conjugate between anti-tetanus antibodies and HIV (37-72)Tat neutralizes tetanus toxin inside chromaffin cells.** (1999) Stein S, Weiss A, Adermann K, Lazarovici P, Hochman J, Wellhoner H. *FEBS Lett* **458**: 383-6.
- (209) **Solution structure of the human CC chemokine 2: A monomeric representative of the CC chemokine subtype.** (1999) Sticht H, Escher SE, Schweimer K, Forssmann WG, Rosch P, Adermann K. *Biochemistry* **38**: 5995-6002.
- (208) **Proteolytic cleavage of glucagon-like peptide-1 by pancreatic beta cells and by fetal calf serum analyzed by mass spectrometry.** (1999) Tammen H, Forssmann WG, Richter R. *J Chromatogr A* **852**: 285-95.
- (207) **Determination of S-nitrosoglutathione in human and rat plasma by high-performance liquid chromatography with fluorescence and ultraviolet absorbance detection after precolumn derivatization with o-phthalaldehyde.** (1999) Tsikas D, Sandmann J, Holzberg D, Pantazis P, Raida M, Frolich JC. *Anal Biochem* **273**: 32-40.
- (206) **Inhibition of platelet aggregation by S-nitroso-cysteine via cGMP-independent mechanisms: evidence of inhibition of thromboxane A2 synthesis in human blood platelets.** (1999) Tsikas D, Ilic M, Tewes KS, Raida M, Frolich JC. *FEBS Lett* **442**: 162-6.
- (205) **A semiquantitative image-analytical method for the recording of dose-response curves in immunocytochemical preparations.** (1999) Wicht H, Maronde E, Olcese J, Korf HW. *J Histochem Cytochem* **47**: 411-20.
- (204) **Isolation, characterization and synthesis of a novel paradaxin isoform.** (1998) Adermann K, Raida M, Paul Y, Abu-Raya S, Bloch-Schilderman E, Lazarovici P, Hochman J, Wellhoner H. *FEBS Lett* **435**: 173-7.
- (203) **Distinction between the three disulfide isomers of guanylin 99-115 by low-energy collision-induced dissociation.** (1998) Badock V, Raida M, Adermann K, Forssmann WG, Schrader M. *Rapid Commun Mass Spectrom* **12**: 1952-6.
- (202) **The effect of the specific phosphodiesterase-IV-inhibitor rolipram on the ureteral peristalsis of the rabbit in vitro and in vivo.** (1998) Becker AJ, Stief CG, Meyer M, Truss MC, Forssmann WG, Jonas U. *J Urol* **160**: 920-5.
- (201) **Isolation: analysis and properties of three bradykinin-potentiating peptides (BPP-II, BPP-III, and BPP-V) from Bothrops neuwiedi venom.** (1998) Ferreira LA, Galle A, Raida M, Schrader M, Lebrun I, Habermehl G. *J Protein Chem* **17**: 285-9.
- (200) **Nociceptin-induced inhibition of tachykinergic neurotransmission in guinea pig bronchus.** (1998) Fischer A, Forssmann WG, Udem BJ. *J Pharmacol Exp Ther* **285**: 902-7.
- (199) **The endocrine heart and natriuretic peptides: histochemistry, cell biology, and functional aspects of the renal urodilatin system.** (1998) Forssmann WG, Richter R, Meyer M. *Histochem Cell Biol* **110**: 335-57.
- (198) **Radiocontrast-induced natriuresis associated with increased urinary urodilatin excretion.** (1998) Haller C, Meyer M, Scheele T, Koch A, Forssmann WG, Kubler W. *J Intern Med* **243**: 155-62.
- (197) **In vitro disulfide-coupled folding of guanylyl cyclase-activating peptide and its precursor protein.** (1998) Hidaka Y, Ohno M, Hemmasi B, Hill O, Forssmann WG, Shimonishi Y. *Biochemistry* **37**: 8498-507.

- (196) **Development and review of radioimmunoassay of 12-S-hydroxyheptadecatrienoic acid.** (1998) John H, Cammann K, Schlegel W. *Prostaglandins Other Lipid Mediat* 56: 53–76.
- (195) **Guanylin stimulates regulated secretion from human neuroendocrine pancreatic cells.** (1998) John M, Wiedenmann B, Kruhoffer M, Adermann K, Ankorina-Stark I, Schlatter E, Ahnert-Hilger G, Forssmann WG, Kuhn M. *Gastroenterology* 114: 791–7.
- (194) **p16/INK4a and p15/INK4b gene methylation and absence of p16/INK4a mRNA and protein expression in Burkitt's lymphoma.** (1998) Klangby U, Okan I, Magnusson KP, Wendland M, Lind P, Wiman KG. *Blood* 91: 1680–7.
- (193) **Paralemmin, a prenyl-palmitoyl-anchored phosphoprotein abundant in neurons and implicated in plasma membrane dynamics and cell process formation.** (1998) Kutzleb C, Sanders G, Yamamoto R, Wang X, Lichte B, Petrasch-Parwez E, Kilimann MW. *J Cell Biol* 143: 795–813.
- (192) **A new immunoenzymometric assay for bioactive N-terminal human parathyroid hormone fragments and its application in pharmacokinetic studies in dogs.** (1998) Magerlein M, Hock D, Adermann K, Muller-Beckmann B, Neidlein R, Forssmann WG, Stein K. *Arzneimittelforschung* 48: 199–204.
- (191) **Production of sequence specific polyclonal antibodies to human parathyroid hormone 1–37 by immunization with multiple antigenic peptides.** (1998) Magerlein M, Hock D, Adermann K, Neidlein R, Forssmann WG, Strein K. *Arzneimittelforschung* 48: 783–7.
- (190) **Uroguanylin: gene structure, expression, processing as a peptide hormone, and co-storage with somatostatin in gastrointestinal D-cells.** (1998) Magert HJ, Reinecke M, David I, Raab HR, Adermann K, Zucht HD, Hill O, Hess R, Forssmann WG. *Regul Pept* 73: 165–76.
- (189) **One peptide, two topologies: structure and interconversion dynamics of human uroguanylin isomers.** (1998) Marx UC, Klodt J, Meyer M, Gerlach H, Rosch P, Forssmann WG, Adermann K. *J Pept Res* 52: 229–40.
- (188) **Structure-activity relation of NH₂-terminal human parathyroid hormone fragments.** (1998) Marx UC, Adermann K, Bayer P, Meyer M, Forssmann WG, Rosch P. *J Biol Chem* 273: 4308–16.
- (187) **Urinary and plasma urodilatin measured by a direct RIA using a highly specific antiserum.** (1998) Meyer M, Armbruster FP, Maier I, Schwing J, Haller C, Missbichler A, Adermann K, Forssmann WG, Woloszczuk W. *Clin Chem* 44: 2524–9.
- (186) **Urodilatin, a natriuretic peptide with clinical implications.** (1998) Meyer M, Richter R, Forssmann WG. *Eur J Med Res* 3: 103–110.
- (185) **Cloning of glucocorticoid receptor and mineralocorticoid receptor cDNA and gene expression in the central nervous system of the tree shrew (*Tupaia belangeri*).** (1998) Meyer U, Kruhoffer M, Flugge G, Fuchs E. *Mol Brain Res* 55: 243–53.
- (184) **The germinal center kinase (GCK)-related protein kinases HPK1 and KHS are candidates for highly selective signal transducers of Crk family adapter proteins.** (1998) Oehrl W, Kardinal C, Ruf S, Adermann K, Groffen J, Feng GS, Blenis J, Tan TH, Feller SM. *Oncogene* 17: 1893–901.

- (183) **HCC-2, a human chemokine: gene structure, expression pattern, and biological activity.** (1998) Pardigol A, Forssmann U, Zucht HD, Loetscher P, Schulz-Knappe P, Baggolini M, Forssmann WG, Magert HJ. *Proc Natl Acad Sci U S A* **95**: 6308–13.
- (182) **Translocation of acylated pardaxin into cells.** (1998) Paul Y, Weiss A, Adermann K, Erdmann G, Kassebaum C, Lazarovici P, Hochman J, Wellhoner H. *FEBS Lett* **440**: 131–4.
- (181) **Development of highly selective SH3 binding peptides for Crk and CRKL which disrupt Crk-complexes with DOCK180, SoS and C3G.** (1998) Posern G, Zheng J, Knudsen BS, Kardinal C, Muller KB, Voss J, Shishido T, Cowburn D, Cheng G, Wang B, Kruh GD, Burrell SK, Jacobson CA, Lenz DM, Zamborelli TJ, Adermann K, Hanafusa H, Feller SM. *Oncogene* **16**: 1903–12.
- (180) **Equine cardiotion/atrial natriuretic peptide. Primary structure and immunohistochemical localization in auricular cardiocytes.** (1998) Richter R, Magert H, Mifune H, Schulz-Knappe P, Forssmann WG. *Acta Anat* **162**: 185–93.
- (179) **Equine CRISP-3: primary structure and expression in the male genital tract.** (1998) Schambony A, Gentzel M, Wolfes H, Raida M, Neumann U, Topfer-Petersen E. *Biochim Biophys Acta* **1387**: 206–16.
- (178) **Is urodilatin the missing link in exercise-dependent renal sodium retention?** (1998) Schmidt W, Bub A, Meyer M, Weiss T, Schneider G, Maassen N, Forssmann WG. *J Appl Physiol* **84**: 123–8.
- (177) **Carboxy-terminal extension stabilizes the topological stereoisomers of guanylin.** (1998) Schulz A, Escher S, Marx UC, Meyer M, Rosch P, Forssmann WG, Adermann K. *J Pept Res* **52**: 518–25.
- (176) **Urinary excretion of urodilatin in healthy children and children with renal disease.** (1998) Seeman T, Meyer M, Schmitt CP, Remer T, Forssmann WG, Scharer K. *Pediatr Nephrol* **12**: 55–9.
- (175) **Isolation and characterization of circulating 13-kDa C-terminal fragments of human insulin-like growth factor binding protein-5.** (1998) Standker L, Wobst P, Mark S, Forssmann WG. *FEBS Lett* **441**: 281–6.
- (174) **A combined analysis of genomic and primary protein structure defines the phylogenetic relationship of new members of the T-box family.** (1998) Wattler S, Russ A. *Genomics* **48**: 24–33.
- (173) **Human beta-defensin-1: A urinary peptide present in variant molecular forms and its putative functional implication.** (1998) Zucht HD, Grabowsky J, Schrader M, Liepke C, Jurgens M, Schulz-Knappe P, Forssmann WG. *Eur J Med Res* **3**: 315–23.
- (172) **Isolation and characterization of heparin- and phosphorylcholine-binding proteins of boar and stallion seminal plasma. Primary structure of porcine pB1.** (1997) Calvete JJ, Raida M, Gentzel M, Urbanke C, Sanz L, Topfer-Petersen E. *FEBS Lett* **407**: 201–6.
- (171) **Monoclonal antibodies against boar sperm zona pellucida-binding protein AWN-1. Characterization of a continuous antigenic determinant and immunolocalization of AWN epitopes in inseminated sows.** (1997) Calvete JJ, Ensslin M, Mburu J, Iborra A, Martinez P, Adermann K, Waberski D, Sanz L, Topfer-Petersen E, Weitz KF, Einarsson S, Rodriguez-Martinez H. *Biol Reprod* **57**: 735–42.

- (170) **The disulphide bond pattern of bitistatin, a disintegrin isolated from the venom of the viper *Bitis arietans*.** (1997) Calvete JJ, Schrader M, Raida M, McLane MA, Romero A, Niewiarowski S. *FEBS Lett* **416**: 197–202.
- (169) **Proteolysis of insulin-like growth factors (IGF) and IGF binding proteins by cathepsin D.** (1997) Claussen M, Kubler B, Wendland M, Neifer K, Schmidt B, Zapf J, Bräulke T. *Endocrinology* **138**: 3797–803.
- (168) **Localization of the iodomyacin binding site in hamster P-glycoprotein.** (1997) Demmer A, Thole H, Kubesch P, Brandt T, Raida M, Fislage R, Tummeler B. *J Biol Chem* **272**: 20913–9.
- (167) **CKbeta8, a novel CC chemokine that predominantly acts on monocytes.** (1997) Forssmann U, Delgado MB, Uguccioni M, Loetscher P, Garotta G, Baggiolini M. *FEBS Lett* **408**: 211–6.
- (166) **Eotaxin-2, a novel CC chemokine that is selective for the chemokine receptor CCR3, and acts like eotaxin on human eosinophil and basophil leukocytes.** (1997) Forssmann U, Uguccioni M, Loetscher P, Dahinden CA, Langen H, Thelen M, Baggiolini M. *J Exp Med* **185**: 2171–6.
- (165) **Molecular cloning and characterization of ConBr, the lectin of *Canavalia brasiliensis* seeds.** (1997) Grangeiro TB, Schriefer A, Calvete JJ, Raida M, Urbanke C, Barral-Netto M, Cavada BS. *Eur J Biochem* **248**: 43–8.
- (164) **Mapping of peptides and protein fragments in human urine using liquid chromatography-mass spectrometry.** (1997) Heine G, Raida M, Forssmann WG. *J Chromatogr A* **776**: 117–24.
- (163) **ANP protects against reoxygenation-induced hypercontracture in adult cardiomyocytes.** (1997) Hempel A, Friedrich M, Schluter KD, Forssmann WG, Kuhn M, Piper HM. *Am J Physiol* **273**: H244–9.
- (162) **Effects of sodium nitroprusside in the rat cortical collecting duct are independent of the NO pathway.** (1997) Hirsch JR, Cermak R, Forssmann WG, Kleta R, Kruhoffer M, Kuhn M, Schafer JA, Sun D, Schlatter E. *Kidney Int* **51**: 473–6.
- (161) **Isolation and characterization of the bioactive circulating human parathyroid hormone, hPTH-1-37.** (1997) Hock D, Magerlein M, Heine G, Ochlich PP, Forssmann WG. *FEBS Lett* **400**: 221–5.
- (160) **Reversed-phase high-performance liquid chromatographic method for the determination of the 11-hydroxythromboxane B2 anomers equilibrium.** (1997) John H, Schlegel W. *J Chromatogr B Biomed Sci Appl* **698**: 9–15.
- (159) **Synthesis, biological activity and isomerism of guanylate cyclase C-activating peptides guanylin and uroguanylin.** (1997) Klodt J, Kuhn M, Marx UC, Martin S, Rosch P, Forssmann WG, Adermann K. *J Pept Res* **50**: 222–30.
- (158) **Gene expression of aphrodisin in female hamster genital tract segments.** (1997) Kruhoffer M, Bub A, Cieslak A, Adermann K, Kunstyr I, Forssmann WG, Magert H. *Cell Tissue Res* **287**: 153–60.

- (157) **Endothelin-1 potently stimulates chloride secretion and inhibits Na(+)-glucose absorption in human intestine in vitro.** (1997) Kuhn M, Fuchs M, Beck FX, Martin S, Jahne J, Klempnauer J, Kaefer V, Reckemmer G, Forssmann WG. *J Physiol* **499**: 391-402.
- (156) **Prophylactic use of low-dose urodilatin for prevention of renal impairment following liver transplantation: a randomized placebo-controlled study.** (1997) Langrehr JM, Kahl A, Meyer M, Neumann U, Knoop M, Jonas S, Steinmuller T, Bechstein WO, Frei U, Forssmann WG, Neuhaus P. *Clin Transplant* **11**: 593-8.
- (155) **Stimulation of a nicotinic ACh receptor causes depolarization and activation of L-type Ca²⁺ channels in rat pinealocytes.** (1997) Letz B, Schomerus C, Maronde E, Korf HW, Korbmayer C. *J Physiol* **499**: 329-40.
- (154) **Biochemical and conformational characterisation of HSP-3, a stallion seminal plasma protein of the cysteine-rich secretory protein (CRISP) family.** (1997) Magdaleno L, Gasset M, Varea J, Schambony AM, Urbanke C, Raida M, Topfer-Petersen E, Calvete JJ. *FEBS Lett* **420**: 179-85.
- (153) **Control of CREB phosphorylation and its role for induction of melatonin synthesis in rat pinealocytes.** (1997) Maronde E, Schomerus C, Stehle JH, Korf HW. *Biol Cell* **89**: 505-11.
- (152) **Melatonin synthesis in the bovine pineal gland is regulated by type II cyclic AMP-dependent protein kinase.** (1997) Maronde E, Middendorff R, Telgmann R, Muller D, Hemmings B, Tasken K, Olcese J. *J Neurochem* **68**: 770-7.
- (151) **Urodilatin (INN:ularitide) as a new drug for the therapy of acute renal failure following cardiac surgery.** (1997) Meyer M, Wiebe K, Wahlers T, Zenker D, Schulze FP, Michels P, Forssmann WG. *Clin Exp Pharmacol Physiol* **24**: 374-6.
- (150) **Analysis of xysA, a gene from Streptomyces halstedii JM8 that encodes a 45-kilodalton modular xylanase, Xys1.** (1997) Ruiz-Arribas A, Sanchez P, Calvete JJ, Raida M, Fernandez-Abalos JM, Santamaria RI. *Appl Environ Microbiol* **63**: 2983-8.
- (149) **Prostaglandin- and thromboxane-producing activity of isolated luteal cells from pseudopregnant rabbits.** (1997) Schlegel W, Ammermann D, John H. *Horm Metab Res* **29**: 237-41.
- (148) **Matrix-assisted laser desorption/ionisation mass spectrometry guided purification of human guanylin from blood ultrafiltrate.** (1997) Schrader M, Jurgens M, Hess R, Schulz-Knappe P, Raida M, Forssmann WG. *J Chromatogr A* **776**: 139-45.
- (147) **Peptide bank generated by large-scale preparation of circulating human peptides.** (1997) Schulz-Knappe P, Schrader M, Standker L, Richter R, Hess R, Jurgens M, Forssmann WG. *J Chromatogr A* **776**: 125-32.
- (146) **Natriuresis after cardiopulmonary bypass: relationship to urodilatin, atrial natriuretic factor, antidiuretic hormone, and aldosterone.** (1997) Sehested J, Wacker B, Forssmann WG, Schmitzer E. *J Thorac Cardiovasc Surg* **114**: 666-71.
- (145) **Solution structure of porcine delta sleep-inducing peptide immunoreactive peptide A homolog of the shortsighted gene product.** (1997) Seidel G, Adermann K, Schindler T, Eijchart A, Jaenicke R, Forssmann WG, Rosch P. *J Biol Chem* **272**: 30918-27.

- (144) **Fractionation and characterization of boar seminal plasma spermadhesion PSP-II glycoforms reveal the presence of uncommon N-acetylgalactosamine-containing N-linked oligosaccharides.** (1997) Solis D, Calvete JJ, Sanz L, Hettel C, Raida M, Diaz-Maurino T, Topfer-Petersen E. *Glycoconj J* **14**: 275–80.
- (143) **Isolation and characterization of the circulating form of human endostatin.** (1997) Standker L, Schrader M, Kanse SM, Jurgens M, Forssmann WG, Preissner KT. *FEBS Lett* **420**: 129–33.
- (142) **Cyclic nucleotide phosphodiesterase in human cavernous smooth muscle.** (1997) Taher A, Meyer M, Stief CG, Jonas U, Forssmann WG. *World J Urol* **15**: 32–5.
- (141) **Activated protein kinase A is required for differentiation-dependent transcription of the decidual prolactin gene in human endometrial stromal cells.** (1997) Telgmann R, Maronde E, Tasken K, Gellersen B. *Endocrinology* **138**: 929–37.
- (140) **General anesthesia for ureteral measurements in the rabbit.** (1996/97) Becker AJ, Stief CG, Truss MC, Meyer M, Forssmann WG, Jonas U. *J Exp Anim Sci* **38**: 93–100.
- (139) **Stickoxid (NO) als möglicher Neurotransmitter in der Tonusregulation des Ureters.** (1996/97) Uckert S, Stief CG, Truss M, Meyer M, Forssmann WG, Jonas U. *Akt Urol* **26**: 10–12.
- (138) **Isolation of human uteroglobin from blood filtrate.** (1996) Aoki A, Pasolli HA, Raida M, Meyer M, Schulz-Knappe P, Mostafavi H, Schepky AG, Znottko R, Elia J, Hock D, Beier HM, Forssmann WG. *Mol Hum Reprod* **2**: 489–97.
- (137) **Immunocytochemical evidence for differential subcellular localization of 5 alpha-reductase isoenzymes in human tissues.** (1996) Aumuller G, Eicheler W, Renneberg H, Adermann K, Vilja P, Forssmann WG. *Acta Anat* **156**: 241–52.
- (136) **Secretion of a urodilatin-like immunoreactive (URO-like-IR) substance from a human kidney cell line (HEK-293).** (1996) Bub A, Rechkemmer G, Hock D, Forssmann WG. *Eur J Med Res* **1**: 479–83.
- (135) **Urodilatin secretion in salt-loaded Wistar rats.** (1996) Bub A, Rechkemmer G, Hock D, Forssmann WG. *Eur J Med Res* **1**: 417–24.
- (134) **Mapping the heparin-binding domain of boar spermadhesins.** (1996) Calvete JJ, Dostalova Z, Sanz L, Adermann K, Thole HH, Topfer-Petersen E. *FEBS Lett* **379**: 207–11.
- (133) **The primary structure of BSP-30K, a major lipid-, gelatin-, and heparin-binding glycoprotein of bovine seminal plasma.** (1996) Calvete JJ, Mann K, Sanz L, Raida M, Topfer-Petersen E. *FEBS Lett* **399**: 147–52.
- (132) **Natriuretic peptides increase a K⁺ conductance in rat mesangial cells.** (1996) Cermak R, Kleta R, Forssmann WG, Schlatter E. *Pflugers Arch* **431**: 571–7.
- (131) **Postprandial natriuresis in humans: further evidence that urodilatin, not ANP, modulates sodium excretion.** (1996) Drummer C, Franck W, Heer M, Forssmann WG, Gerzer R, Goetz K. *Am J Physiol* **270**: F301–10.
- (130) **Natriuresis caused by increased carotid Na⁺ concentration after renal denervation.** (1996) Emmeluth C, Goetz KL, Drummer C, Gerzer R, Forssmann WG, Bie P. *Am J Physiol* **270**: F510–7.

- (129) **Prinzipien der Informationsausbreitung und Signalübertragung im endokrinen System durch peptiderge Regulatorsubstanzen.** (1996) Forssmann WG. *Nova Acta Leopoldina* 72: 103–122.
- (128) **Pituitary adenylate cyclase-activating polypeptide: a potent activator of human intestinal ion transport.** (1996) Fuchs M, Adermann K, Raab HR, Forssmann WG, Kuhn M. *Ann N Y Acad Sci* 805: 640–7.
- (127) **Guanylin strongly stimulates rat duodenal HCO₃⁻ secretion: proposed mechanism and comparison with other secretagogues.** (1996) Guba M, Kuhn M, Forssmann WG, Classen M, Gregor M, Seidler U. *Gastroenterology* 111: 1558–68.
- (126) **Solution structure of a naturally-occurring zinc-peptide complex demonstrates that the N-terminal zinc-binding module of the Lasp-1 LIM domain is an independent folding unit.** (1996) Hammarstrom A, Berndt KD, Sillard R, Adermann K, Otting G. *Biochemistry* 35: 12723–32.
- (125) **Signal transduction molecules in the rat pineal organ: Ca²⁺, pCREB, and ICER.** (1996) Korf HW, Schomerus C, Maronde E, Stehle JH. *Naturwissenschaften* 83: 535–43.
- (124) **Urodilatin (INN: ularitide). A new peptide in the treatment of acute kidney failure following liver transplantation.** (1996) Kuse ER, Meyer M, Constantin R, Oldhafer K, Schlitt HJ, Schulz-Knappe P, Uberbacher HJ, Pichlmayr R, Forssmann WG. *Anaesthesist* 45: 351–8.
- (123) **Basic aspects of vasorelaxant and bronchodilating peptides in clinical use: urodilatin (INN: Ularitide), VIP, and PACAP.** (1996) Meyer M, Fluge T, Kruhoffer M, Forssmann WG. *Ann N Y Acad Sci* 805: 443–61.
- (122) **The renal paracrine peptide system--possible urologic implications of urodilatin.** (1996) Meyer M, Stief CG, Becker AJ, Truss MC, Taher A, Jonas U, Forssmann WG. *World J Urol* 14: 375–9.
- (121) **Ularitide: from renal natriuretic peptide to clinical trials.** (1996) Meyer M, Uberbacher HJ, Bohm E, Schope KB, Brett W, Forssmann WG. *Curr Opin Nephrol Hypertens* 5: 364–8.
- (120) **Urodilatin is involved in sodium homeostasis and exerts sodium-state-dependent natriuretic and diuretic effects.** (1996) Meyer M, Richter R, Brunkhorst R, Wrenger E, Schulz-Knappe P, Kist A, Mentz P, Brabant EG, Koch KM, Reckemmer G, Forssmann WG. *Am J Physiol* 271: F489–97.
- (119) **Expression of C-type natriuretic peptide in the bovine pineal gland.** (1996) Middendorff R, Maronde E, Paust HJ, Muller D, Davidoff M, Olcese J. *J Neurochem* 67: 517–24.
- (118) **Synthesis of phospho-urodilatin by combination of global phosphorylation with the segment coupling approach.** (1996) Mostafavi H, Austermann S, Forssmann WG, Adermann K. *Int J Pept Protein Res* 48: 200–7.
- (117) **Functional analysis of the human guanylin gene promoter.** (1996) Pardigol A, Magert H, Hill O, Forssmann WG. *Biochem Biophys Res Commun* 224: 638–44.
- (116) **Localization, expression, and characterization of guanylin in the rat adrenal medulla.** (1996) Reinecke M, David I, Loffing-Cueni D, Ablinger P, Cetin Y, Kuhn M, Forssmann WG. *Histochem Cell Biol* 106: 367–74.

- (115) **Urinary excretion of urodilatin in patients with cirrhosis.** (1996) Salo J, Jimenez W, Kuhn M, Gines A, Gines P, Fernandez-Esparrach G, Angeli P, Claria J, Bataller R, Arroyo V, Forssmann WG, Rodes J. *Hepatology* **24**: 1428–32.
- (114) **Specific determination of tyrosine-phosphorylated proteins and peptides by differential iodination.** (1996) Schepky AG, Meinhardt G, Austermann S, Adermann K, Schulz-Knappe P, Forssmann WG, Hass R. *J Chromatogr A* **743**: 273–82.
- (113) **cGMP-activating peptides do not regulate electrogenic electrolyte transport in principal cells of rat CCD.** (1996) Schlatter E, Cermak R, Forssmann WG, Hirsch JR, Kleta R, Kuhn M, Sun D, Schafer JA. *Am J Physiol* **271**: F1158–65.
- (112) **Vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase-activating polypeptide (PACAP) induce phosphorylation of the transcription factor CREB in subpopulations of rat pinealocytes: immunocytochemical and immunochemical evidence.** (1996) Schomerus C, Maronde E, Laedtke E, Korf HW. *Cell Tissue Res* **286**: 305–13.
- (111) **HCC-1, a novel chemokine from human plasma.** (1996) Schulz-Knappe P, Magert HJ, Dewald B, Meyer M, Cetin Y, Kubbies M, Tomeczkowski J, Kirchhoff K, Raida M, Adermann K, Kist A, Reinicke M, Sillard R, Pardigol A, Baggiolini M, Forssmann WG. *J Exp Med* **183**: 295–9.
- (110) **Systematic isolation of circulating human peptides: the concept of peptide trapping.** (1996) Schulz-Knappe P, Raida M, Meyer M, Quellhorst EA, Forssmann WG. *Eur J Med Res* **1**: 223–36.
- (109) **Structural and functional characterization of vitronectin-derived RGD-containing peptides from human hemofiltrate.** (1996) Standker L, Enger A, Schulz-Knappe P, Wohn KD, Germer M, Raida M, Forssmann WG, Preissner KT. *Eur J Biochem* **241**: 557–63.
- (108) **Cyclic nucleotide phosphodiesterase (PDE) isoenzymes in the human detrusor smooth muscle. II. Effect of various PDE inhibitors on smooth muscle tone and cyclic nucleotide levels in vitro.** (1996) Truss MC, Uckert S, Stief CG, Forssmann WG, Jonas U. *Urol Res* **24**: 129–34.
- (107) **Effects of various phosphodiesterase-inhibitors, forskolin, and sodium nitroprusside on porcine detrusor smooth muscle tonic responses to muscarinic stimulation and cyclic nucleotide levels in vitro.** (1996) Truss MC, Uckert S, Stief CG, Kuczyk M, Schulz-Knappe P, Forssmann WG, Jonas U. *Neurourol Urodyn* **15**: 59–70.
- (106) **Is S-nitroso-N-acetyl-L-cysteine a circulating or an excretory metabolite of nitric oxide (NO) in man? Assessment by gas chromatography-mass spectrometry.** (1996) Tsikas D, Rossa S, Stichtenoth DO, Raida M, Gutzki FM, Frolich JC. *Biochem Biophys Res Commun* **220**: 939–44.
- (105) **Monocyte chemotactic protein 4 (MCP-4), a novel structural and functional analogue of MCP-3 and eotaxin.** (1996) Ugucioni M, Loetscher P, Forssmann U, Dewald B, Li H, Lima SH, Li Y, Kreider B, Garotta G, Thelen M, Baggiolini M. *J Exp Med* **183**: 2379–84.
- (104) **hDIP--a potential transcriptional regulator related to murine TSC-22 and Drosophila shortsighted (shs)--is expressed in a large number of human tissues.** (1996) Vogel P, Magert HJ, Cieslak A, Adermann K, Forssmann WG. *Biochim Biophys Acta* **1309**: 200–4.

- (103) **Association between different psychotic disorders and the DRD4 polymorphism, but no differences in the main ligand binding region of the DRD4 receptor protein compared to controls.** (1996) Weiss J, Magert HJ, Cieslak A, Forssmann WG. *Eur J Med Res* 1: 439–45.
- (102) **Acute renal failure following cardiac surgery is reverted by administration of Urodilatin (INN: Ularitide).** (1996) Wiebe K, Meyer M, Wahlers T, Zenker D, Schulze F, Michels P, Dalichau H, Mohr FW, Borst H, Forssmann WG. *Eur J Med Res* 1: 259–65.
- (101) **Pituitary adenylate cyclase-activating polypeptide stimulates cardiodilatin/atrial natriuretic peptide (CDD/ANP-(99-126) secretion from cultured neonatal rat myocardiocytes.** (1995) Basler I, Kuhn M, Muller W, Forssmann WG. *Eur J Pharmacol* 291: 335–42.
- (100) **hBD-1: a novel beta-defensin from human plasma.** (1995) Bensch KW, Raida M, Magert HJ, Schulz-Knappe P, Forssmann WG. *FEBS Lett* 368: 331–5.
- (099) **Proteolysis of IGFBNs by cathepsin D in vitro and in cathepsin D-deficient mice.** (1995) Braulke T, Claussen M, Saftig P, Wendland M, Neifer K, Schmidt B, Zapf J, von Figura K, Peters C. *Prog Growth Factor Res* 6: 265–71.
- (098) **Significance of prophylactic urodilatin (INN: ularitide) infusion for the prevention of acute renal failure in patients after heart transplantation.** (1995) Brenner P, Meyer M, Reichenspurner H, Meiser B, Muller R, Mentz P, Schulz-Knappe P, Uberbacher HJ, Kreuzer E, Uberfuhr P, Guder WG, Wenzlaff H, Teschemacher H, Reinart B, Forssmann WG. *Eur J Med Res* 1: 137–43.
- (097) **Amino acid sequence of HSP-1, a major protein of stallion seminal plasma: effect of glycosylation on its heparin- and gelatin-binding capabilities.** (1995) Calvete JJ, Mann K, Schafer W, Sanz L, Reinert M, Nessau S, Raida M, Topfer-Petersen E. *Biochem J* 310: 615–22.
- (096) **Boar spermadhesin PSP-II: location of posttranslational modifications, heterodimer formation with PSP-I glycoforms and effect of dimerization on the ligand-binding capabilities of the subunits.** (1995) Calvete JJ, Mann K, Schafer W, Raida M, Sanz L, Topfer-Petersen E. *FEBS Lett* 365: 179–82.
- (095) **Bronchiolar nonciliated secretory (Clara) cells: source of guanylin in the mammalian lung.** (1995) Cetin Y, Kulaksiz H, Redecker P, Bargsten G, Adermann K, Grube D, Forssmann WG. *Proc Natl Acad Sci U S A* 92: 5925–9.
- (094) **Distribution of rat hepatic steroid 5 alpha-reductase 1 as shown by immunohistochemistry.** (1995) Eicheler W, Seitz J, Steinhoff M, Forssmann WG, Adermann K, Aumuller G. *Exp Clin Endocrinol Diabetes* 103: 105–12.
- (093) **Efficacy of prolonged infusion of urodilatin [ANP-(95-126)] in patients with congestive heart failure.** (1995) Elsner D, Muders F, Muntze A, Kromer EP, Forssmann WG, Riegger GA. *Am Heart J* 129: 766–73.
- (092) **Effects of urodilatin in the rat kidney: comparison with ANF and interaction with vasoactive substances.** (1995) Endlich K, Forssmann WG, Steinhausen M. *Kidney Int* 47: 1558–68.

- (091) Identification by affinity chromatography of boar sperm membrane-associated proteins bound to immobilized porcine zona pellucida. Mapping of the phosphorylethanolamine-binding region of spermadhesin AWN. (1995) Ensslin M, Calvete JJ, Thole HH, Sierralta WD, Adermann K, Sanz L, Topfer-Petersen E. *Biol Chem Hoppe Seyler* 376: 733–8.
- (090) Structure and effects of a kinin potentiating fraction F (AppF) isolated from *Agkistrodon piscivorus piscivorus* venom. (1995) Ferreira LA, Mollring T, Lebrun FL, Raida M, Znottko R, Habermehl GG. *Toxicon* 33: 1313–9.
- (089) Bronchodilating effects of natriuretic and vasorelaxant peptides compared to salbutamol in asthmatics. (1995) Fluge T, Fabel H, Wagner TO, Schneider B, Forssmann WG. *Regul Pept* 59: 357–70.
- (088) Urodilatin (ularitide, INN): a potent bronchodilator in asthmatic subjects. (1995) Fluge T, Fabel H, Wagner TO, Schneider B, Forssmann WG. *Eur J Clin Invest* 25: 728–36.
- (087) Urodilatin (ularitide, INN): a renal natriuretic peptide. Molecular biology and clinical importance. (1995) Forssmann WG. *Nephron* 69: 211–22.
- (086) Novel (Rp)-cAMPS analogs as tools for inhibition of cAMP-kinase in cell culture. Basal cAMP-kinase activity modulates interleukin-1 beta action. (1995) Gjertsen BT, Mellgren G, Otten A, Maronde E, Genieser HG, Jastorff B, Vintermyr OK, McKnight GS, Doskeland SO. *J Biol Chem* 270: 20599–607.
- (085) GCAP-II: isolation and characterization of the circulating form of human uroguanylin. (1995) Hess R, Kuhn M, Schulz-Knappe P, Raida M, Fuchs M, Klodt J, Adermann K, Kaefer V, Cetin Y, Forssmann WG. *FEBS Lett* 374: 34–8.
- (084) A new human guanylate cyclase-activating peptide (GCAP-II, uroguanylin): precursor cDNA and colonic expression. (1995) Hill O, Cetin Y, Cieslak A, Magert HJ, Forssmann WG. *Biochim Biophys Acta* 1253: 146–9.
- (083) Analysis of the human guanylin gene and the processing and cellular localization of the peptide. (1995) Hill O, Kuhn M, Zucht HD, Cetin Y, Kulaksiz H, Adermann K, Klock G, Reckemmer G, Forssmann WG, Magert HJ. *Proc Natl Acad Sci U S A* 92: 2046–50.
- (082) Release of urodilatin from perfused rat kidney and from cultured neonatal rat kidney cells. (1995) Kirchhoff K, Forssmann WG. *Pflugers Arch* 430: 739–44.
- (081) Circulating and tissue guanylin immunoreactivity in intestinal secretory diarrhoea. (1995) Kuhn M, Kulaksiz H, Cetin Y, Frank M, Nold R, Arnold R, Boker K, Bischoff SC, Manns MP, Forssmann WG. *Eur J Clin Invest* 25: 899–905.
- (080) Treatment of acute renal failure with urodilatin after unrelated bone marrow transplantation in an 18-month-old boy. (1995) Laws HJ, Kropp S, Meyer M, Forssmann WG, Burdach S. *Bone Marrow Transplant* 16: 307–10.
- (079) cDNA sequence and expression pattern of the putative pheromone carrier aphrodisin. (1995) Magert HJ, Hadrys T, Cieslak A, Groger A, Feller S, Forssmann WG. *Proc Natl Acad Sci U S A* 92: 2091–5.
- (078) The effect of NO-donors in bovine and rat pineal cells: stimulation of cGMP and cGMP-independent inhibition of melatonin synthesis. (1995) Maronde E, Middendorff R, Mayer B, Olcese J. *J Neuroendocrinol* 7: 207–14.

- (077) **Structure of human parathyroid hormone 1-37 in solution.** (1995) Marx UC, Austermann S, Bayer P, Adermann K, Ejchart A, Sticht H, Walter S, Schmid FX, Jaenicke R, Forssmann WG, et al. *J Biol Chem* **270**: 15194-202.
- (076) **Urodilatin (pINN: Ularitide) is a new drug for prevention and treatment of postoperative acute renal failure.** (1995) Meyer M, Mentz P, Agrawal B, Schopke K, Forssmann WG. *Drugs of the Future* **20**: 490-498.
- (075) **Urodilatin. Use of a new peptide in intensive care.** (1995) Meyer M, Schulz-Knappe P, Kuse ER, Hummel M, Hetzer R, Pichlmayr R, Forssmann WG. *Anaesthesist* **44**: 81-91.
- (074) **Detection of immunoreactive atrial and brain natriuretic peptides in the equine atrium.** (1995) Mifune H, Richter R, Forssmann WG. *Anat Embryol* **192**: 117-21.
- (073) **Synthesis, purification and biological activity of (Ser10-phosphatidyl)-urodilatin (phosphourodilatin).** (1995) Mostafavi H, Adermann K, Austermann S, Raida M, Meyer M, Forssmann WG. *Biomed Pept Proteins Nucleic Acids* **1**: 255-60.
- (072) **High-performance liquid chromatographic determination of sulfated peptides in human hemofiltrate using a radioactivity monitor.** (1995) Schepky AG, Schulz-Knappe P, Forssmann WG. *J Chromatogr A* **691**: 255-61.
- (071) **Analysis of rare HLA-DRB1-DQB1 haplotypes in kidney donors and recipients.** (1995) Scherer S, Mytilineos J, Forssmann U, Dunckley H, Trejaut J, Chapman J, Middleton D, Opelz G. *Transplant Proc* **27**: 684-5.
- (070) **In vivo degradation of human fibrinogen A alpha: detection of cleavage sites and release of antithrombotic peptides.** (1995) Standker L, Sillard R, Bensch KW, Ruf A, Raida M, Schulz-Knappe P, Schepky AG, Patscheke H, Forssmann WG. *Biochem Biophys Res Commun* **215**: 896-902.
- (069) **Phosphodiesterase isoenzymes in human ureteral smooth muscle: identification, characterization, and functional effects of various phosphodiesterase inhibitors in vitro.** (1995) Stief CG, Taher A, Truss M, Becker AJ, Schulz-Knappe P, Meyer M, Uckert S, Forssmann WG, Jonas U. *Urol Int* **55**: 183-9.
- (068) **Porcine detrusor cyclic nucleotide phosphodiesterase isoenzymes: characterization and functional effects of various phosphodiesterase inhibitors in vitro.** (1995) Truss MC, Uckert S, Stief CG, Schulz-Knappe P, Hess R, Forssmann WG, Jonas U. *Urology* **45**: 893-901.
- (067) **Cyclic adenosine monophosphate (cAMP) analogs 8-Cl- and 8-NH₂-cAMP induce cell death independently of cAMP kinase-mediated inhibition of the G1/S transition in mammary carcinoma cells (MCF-7).** (1995) Va, Boe R, Brustugun OT, Maronde E, Aakvaag A, Doskeland SO. *Endocrinology* **136**: 2513-20.
- (066) **Localization and coexistence of atrial natriuretic peptide (ANP) and neuropeptide Y (NPY) in vertebrate adrenal chromaffin cells immunoreactive to TH, DBH and PNMT.** (1995) Wolfensberger M, Forssmann WG, Reinecke M. *Cell Tissue Res* **280**: 267-76.
- (065) **Casocidin-I: a casein-alpha s₂ derived peptide exhibits antibacterial activity.** (1995) Zucht HD, Raida M, Adermann K, Magert HJ, Forssmann WG. *FEBS Lett* **372**: 185-8.

- (064) **Localization and structural characterization of an oligosaccharide O-linked to bovine PDC-109. Quantitation of the glycoprotein in seminal plasma and on the surface of ejaculated and capacitated spermatozoa.** (1994) Calvete JJ, Raida M, Sanz L, Wempe F, Scheit KH, Romero A, Topfer-Petersen E. *FEBS Lett* **350**: 203–6.
- (063) **Urodilatin: a new approach for the treatment of therapy-resistant acute renal failure after liver transplantation.** (1994) Cedidi C, Meyer M, Kuse ER, Schulz-Knappe P, Ringe B, Frei U, Pichlmayr R, Forssmann WG. *Eur J Clin Invest* **24**: 632–9.
- (062) **Enterochromaffin cells of the digestive system: cellular source of guanylin, a guanylate cyclase-activating peptide.** (1994) Cetin Y, Kuhn M, Kulaksiz H, Adermann K, Bargsten G, Grube D, Forssmann WG. *Proc Natl Acad Sci U S A* **91**: 2935–9.
- (061) **Does a synthetic peptide containing the leucine-zipper domain of c-myc form an alpha-helical structure in solution?** (1994) Ebnet A, Adermann K, Wolfes H. *FEBS Lett* **337**: 265–8.
- (060) **Immunocytochemical localization of human 5 alpha-reductase 2 with polyclonal antibodies in androgen target and non-target human tissues.** (1994) Eicheler W, Tuohimaa P, Vilja P, Adermann K, Forssmann WG, Aumuller G. *J Histochem Cytochem* **42**: 667–75.
- (059) **Localization of the bronchodilator effect induced by type A natriuretic peptide in asthmatic subjects.** (1994) Fluge T, Fabel H, Wagner TO, Forssmann WG. *Clin Investig* **72**: 772–4.
- (058) **Type A natriuretic peptides exhibit different bronchoprotective effects in rats.** (1994) Fluge T, Hoymann HG, Hohlfeld J, Heinrich U, Fabel H, Wagner TO, Forssmann WG. *Eur J Pharmacol* **271**: 395–402.
- (057) **A method for HLA-DQA typing by the PCR-SSP technique.** (1994) Forssmann U, Mytilineos J, Scherer S, Opelz G. *Transpl Int* **7**: 515–8.
- (056) **Urodilatin: from cardiac hormones to clinical trials.** (1994) Forssmann WG, Meyer M, Schulz-Knappe P. *Exp Nephrol* **2**: 318–23.
- (055) **Healing of tubal anastomoses--microsurgery vs. fibrin gluing: morphologic aspects.** (1994) Gauwerky JF, Klose RP, Forssmann WG. *Zentralbl Gynakol* **116**: 173–8.
- (054) **Hydrosalpinx formation and its regeneration after microsurgical reconstruction--a functional and morphological study on rabbits.** (1994) Gauwerky JF, Forssmann WG, Kurz M, Klose RP, Bastert G. *Hum Reprod* **9**: 2090–102.
- (053) **Urodilatin inhibits sodium reabsorption in the isolated perfused rat kidney.** (1994) Kirchhoff K, Bub A, Marxen P, Forssmann WG. *Exp Nephrol* **2**: 351–7.
- (052) **Radioimmunoassay for circulating human guanylin.** (1994) Kuhn M, Kulaksiz H, Adermann K, Rechkemmer G, Forssmann WG. *FEBS Lett* **341**: 218–22.
- (051) **Segmental differences in the effects of guanylin and Escherichia coli heat-stable enterotoxin on Cl- secretion in human gut.** (1994) Kuhn M, Adermann K, Jahne J, Forssmann WG, Rechkemmer G. *J Physiol* **479**: 433–40.

- (050) **Intrinsic human glomerular mesangial cells can express receptors for IgG complexes (hFc gamma RIII-A) and the associated Fc epsilon RI gamma-chain.** (1994) Radeke HH, Gessner JE, Uciechowski P, Magert HJ, Schmidt RE, Resch K. *J Immunol* **153**: 1281-92.
- (049) **Determination of sulfated peptides by differential iodination.** (1994) Schepky AG, Schmidt AM, Schmidt T, Schulz-Knappe P, Forssmann WG. *Biol Chem Hoppe Seyler* **375**: 201-3.
- (048) **Human hemofiltrate as a source of circulating bioactive peptides: determination of amino acids, peptides and proteins.** (1994) Schepky AG, Bensch KW, Schulz-Knappe P, Forssmann WG. *Biomed Chromatogr* **8**: 90-4.
- (047) **Characterization of cyclic nucleotide phosphodiesterase isoenzymes in the human ureter and their functional role in vitro.** (1994) Taher A, Schulz-Knappe P, Meyer M, Truss M, Forssmann WG, Stief CG, Jonas U. *World J Urol* **12**: 286-91.
- (046) **Involvement of 70-kD heat-shock proteins in peroxisomal import.** (1994) Walton PA, Wendland M, Subramani S, Rachubinski RA, Welch WJ. *J Cell Biol* **125**: 1037-46.
- (045) **¹H-NMR studies of the natriuretic peptide urodilatin: sequence-specific resonance assignment.** (1994) Weber J, Rosch P, Adermann K, Forssmann WG, Wokaun A. *Biochim Biophys Acta* **1207**: 231-5.
- (044) **Amplification of gene fragments with very high G/C content: c7dGTP and the problem of visualizing the amplification products.** (1994) Weiss J, Zucht HD, Forssmann WG. *PCR Methods Appl* **4**: 124-5.
- (043) **Treatment of acute postoperative renal failure after liver and heart transplantation by urodilatin.** (1993) Cedidi C, Kuse ER, Meyer M, Oldhafer K, Ringe B, Wahlers T, Cremer J, Frei U, Pichlmayr R, Forssmann WG. *Clin Investig* **71**: 435-6.
- (042) **The genetic subtypes of cAMP-dependent protein kinase--functionally different or redundant?** (1993) Doskeland SO, Maronde E, Gjertsen BT. *Biochim Biophys Acta* **1178**: 249-58.
- (041) **Development and application of a urodilatin (CDD/ANP-95-126)-specific radioimmunoassay.** (1993) Drummer C, Fiedler F, Bub A, Kleefeld D, Dimitriades E, Gerzer R, Forssmann WG. *Pflugers Arch* **423**: 372-7.
- (040) **Fibrin glue for anastomosis of the fallopian tube--morphology.** (1993) Gauwerky JF, Kloese RP, Forssmann WG. *Hum Reprod* **8**: 2108-14.
- (039) **Urodilatin, a new therapy to prevent kidney failure after heart transplantation.** (1993) Hummel M, Kuhn M, Bub A, Mann B, Schneider B, von Eickstedt KW, Forssmann WG, Hetzer R. *J Heart Lung Transplant* **12**: 209-17.
- (038) **Membrane topology of the 22 kDa integral peroxisomal membrane protein.** (1993) Kaldi K, Diestelkötter P, Stenbeck G, Auerbach S, Jakle U, Magert HJ, Wieland FT, Just WW. *FEBS Lett* **315**: 217-22.
- (037) **The circulating bioactive form of human guanylin is a high molecular weight peptide (10.3 kDa).** (1993) Kuhn M, Raida M, Adermann K, Schulz-Knappe P, Gerzer R, Heim JM, Forssmann WG. *FEBS Lett* **318**: 205-9.

- (036) **Nucleotide sequence of the rabbit gamma-preprotachykinin I cDNA.** (1993) Magert HJ, Heitland A, Rose M, Forssmann WG. *Biochem Biophys Res Commun* **195**: 128–31.
- (035) **Intracavernous application of SIN-1 in rabbit and man: functional and toxicological results.** (1993) Meyer M, Taher A, Krah H, Staubesand J, Becker AJ, Kircher M, Mayer B, Jonas U, Forssmann WG, Stief CG. *Ann Urol* **27**: 179–82.
- (034) **Impaired coronary dilator responses to substance P and impaired flow-dependent dilator responses in heart transplant patients with graft vasculopathy.** (1993) Mugge A, Heublein B, Kuhn M, Nolte C, Haverich A, Warnecke J, Forssmann WG, Lichtlen PR. *J Am Coll Cardiol* **21**: 163–70.
- (033) **Preparations of Rp-cyclic adenosine 3',5'-phosphorothioate (Rp-cAMPS) can contain biologically active amounts of adenosine.** (1993) Musgrave IF, Genieser HG, Maronde E, Seifert R. *FEBS Lett* **318**: 227–30.
- (032) **Ecto-5'-nucleotidase activity in PC 12 cells is synergistically modulated by nerve growth factor and 8-Bromo-cAMP.** (1993) Richter-Landsberg C, Maronde E, Besser A. *Neurosci Res Comm* **12**: 51–56.
- (031) **A novel 77-residue peptide from porcine brain contains a leucine-zipper motif and is recognized by an antiserum to delta-sleep-inducing peptide.** (1993) Sillard R, Schulz-Knappe P, Vogel P, Raida M, Bensch KW, Forssmann WG, Mutt V. *Eur J Biochem* **216**: 429–36.
- (030) **Differential effects of two structurally related N6-substituted cAMP analogues on C6 glioma cells.** (1993) Zorn M, Maronde E, Jastorff B, Richter-Landsberg C. *Eur J Cell Biol* **60**: 351–7.
- (029) **Urodilatin: a new peptide with beneficial effects in the postoperative therapy of cardiac transplant recipients.** (1992) Hummel M, Kuhn M, Bub A, Bittner H, Kleefeld D, Marxen P, Schneider B, Hetzer R, Forssmann WG. *Clin Invest* **70**: 674–82.
- (028) **Ultrastructural and immunocytochemical study of the myoendocrine cells of the fish *Hypostomus cordovae*.** (1992) Maldonado C, Forssmann WG, Aoki A. *Anat Embryol* **186**: 557–61.
- (027) **Relaxation of non-contracted smooth muscle by atrial natriuretic peptide.** (1992) Peral de Bruno M, Coviello A, Meyer M, Forssmann WG. *Clin Exp Hypertens A* **14**: 1125–39.
- (026) **Distribution patterns and coexistence of neurohormonal peptides (ANP, BNP, NPY, SP, CGRP, enkephalins) in chromaffin cells and nerve fibers of the anuran adrenal organ.** (1992) Reinecke M, Heym C, Forssmann WG. *Cell Tissue Res* **268**: 247–56.
- (025) **Unhydrolyzable analogues of adenosine 3':5'-monophosphate demonstrating growth inhibition and differentiation in human cancer cells.** (1992) Yokozaki H, Tortora G, Pepe S, Maronde E, Genieser HG, Jastorff B, Cho-Chung YS. *Cancer Res* **52**: 2504–8.
- (024) **Cardiale Peptidhormone: Weitere Nachweise von (CDD/ANP)-ähnlichen Peptides mit segmentspezifischen Antikörpern.** (1991) Christman MP, Rippegather G, Bruhl B, Herbold B, Forssmann WG. *Verh Anat Ges* **84**: 295–7.
- (023) **Cardiac peptides are also regulatory peptides in the autonomic nervous system and in paraneuronal systems.** (1991) Forssmann WG, Magert HJ, Meyer M, Schulz-Knappe P. *J Auton Nerv Syst* **33**: 117–118.

- (022) **Intrinsic pancreatic nerves after mechanical denervation of the extrinsic pancreatic nerves in dogs.** (1991) Huchtebrock HJ, Niebel W, Singer MV, Forssmann WG. *Pancreas* 6: 1–8.
- (021) **Atrial natriuretic peptide-like immunoreactive cells in the guinea pig inner ear.** (1991) Meyer zum Gottesberge AM, Gagelmann M, Forssmann WG. *Hear Res* 56: 86–92.
- (020) **TSH secretion in Cushing's syndrome: relation to glucocorticoid excess, diabetes, goitre, and the 'sick euthyroid syndrome'.** (1990) Benker G, Raida M, Olbricht T, Wagner R, Reinhardt W, Reinwein D. *Clin Endocrinol* 33: 777–86.
- (019) **Demonstration of the storage form of cardiac hormones by the use of segment-specific antibodies against human cardiodilatin/human atrial natriuretic peptide (CDD/hANP).** (1990) Christmann MP, Nokihara K, Feller S, Forssmann WG. *Acta Histochem Suppl* 38: 173–8.
- (018) **Nucleotide sequence of a porcine prepro atrial natriuretic peptide (ANP) cDNA.** (1990) Magert HJ, Appelhans H, Gassen HG, Forssmann WG. *Nucleic Acids Res* 18: 6704.
- (017) **Lokalisation von Cardiodilatin (CDD) im Nebennierenmark.** (1990) Meyer M, Feller S, Gagelmann M, Hock D, Nokihara K, Forssmann WG. *Verh Anat Ges* 83: 429–432.
- (016) **Targeting of a lysosomal membrane protein: a tyrosine-containing endocytosis signal in the cytoplasmic tail of lysosomal acid phosphatase is necessary and sufficient for targeting to lysosomes.** (1990) Peters C, Braun M, Weber B, Wendland M, Schmidt B, Pohlmann R, Waheed A, von Figura K. *EMBO J* 9: 3497–506.
- (015) **Effects of ANP-(95–126) in dogs before and after induction of heart failure.** (1990) Riegger GA, Elsner D, Forssmann WG, Kromer EP. *Am J Physiol* 259: H1643–8.
- (014) **Urodilatin, a natriuretic factor from kidneys, can modify renal and cardiovascular function in men.** (1990) Saxenhofer H, Raselli A, Weidmann P, Forssmann WG, Bub A, Ferrari P, Shaw SG. *Am J Physiol* 259: F832–8.
- (013) **Endogenous natriuretic peptides: effect on collecting duct function in rat kidney.** (1990) Schulz-Knappe P, Honrath U, Forssmann WG, Sonnenberg H. *Am J Physiol* 259: F415–8.
- (012) **Atrial myoendocrine cells (cardiodilatin/atrial natriuretic polypeptide-containing myocardiocytes) are target cells for estradiol.** (1989) Back H, Forssmann WG, Stumpf WE. *Cell Tissue Res* 255: 673–4.
- (011) **The effects of dansylation on the pH dependence of SO₄²⁻ and Cl⁻ equilibrium exchange and on the H⁺/SO₄²⁻ cotransport across the red blood cell membrane.** (1989) Berghout A, Raida M, Legrum B, Passow H. *Biochim Biophys Acta* 986: 75–82.
- (010) **Phosphorylation and dephosphorylation of the natriuretic peptide urodilatin (CDD-/ANP-95–126) and the effect on biological activity.** (1989) Dorner T, Gagelmann M, Feller S, Herbst F, Forssmann WG. *Biochem Biophys Res Commun* 163: 830–5.
- (009) **Separation of synthetic cardiodilatin/atrial natriuretic factor and related peptides by reversed-phase high-performance liquid chromatography.** (1989) Dorner T, Gagelmann M, Hock D, Herbst F, Forssmann WG. *J Chromatogr* 490: 411–7.

- (008) **Urodilatin: a newly described member of the ANP family.** (1989) Feller SM, Gagelmann M, Forssmann WG. *Trends Pharmacol Sci* **10**: 93–4.
- (007) **The endocrine heart.** (1989) Forssmann WG. *Prog Clin Biol Res* **295**: 401–17.
- (006) **The heart is the center of a new endocrine, paracrine, and neuroendocrine system.** (1989) Forssmann WG, Nokihara K, Gagelmann M, Hock D, Feller S, Schulz–Knappe P, Herbst F. *Arch Histol Cytol* **52**: 293–315.
- (005) **Fibrin glue anastomoses of the uterine tube using various experimental conditions.** (1989) Gauwerky JF, Reinecke M, Forssmann WG. *Arch Gynecol Obstet* **245**: 419–24.
- (004) **Effects of superior mesenteric and coeliac ganglionectomy on peptide-producing cells of the small intestinal mucosa in the Hanford mini pig. II. Immunohistochemical study.** (1989) Holle GE, Forssmann WG, Rehfeld JF, Holle F. *J Auton Nerv Syst* **26**: 147–56.
- (003) **Anion transport systems in the mouse erythrocyte: kinetic studies in situ and after expression of mouse erythroid band 3 protein in oocytes of *Xenopus laevis*.** (1989) Passow H, Raida M, Wendel J, Legrum B, Bartel D, Lepke S, Furuto–Kato S. *Biochem Soc Trans* **17**: 812–5.
- (002) **Mannose 6–phosphate specific receptors: structure and function.** (1989) Pohlmann R, Nagel G, Hille A, Wendland M, Waheed A, Braulke T, von Figura K. *Biochem Soc Trans* **17**: 15–16.
- (001) **Degradation of porcine brain natriuretic peptide (pBNP–26) by endoprotease–24.11 from kidney cortical membranes.** (1989) Vogt–Schaden M, Gagelmann M, Hock D, Herbst F, Forssmann WG. *Biochem Biophys Res Commun* **161**: 1177–83.