

5. Literatur

- Alessi, D.R., James, S.R., Downes, C.P., Holmes, A.B., Gaffney, P., Reese, C.B., Cohen, P.** (1997)
Characterization of a 3-phosphoinositid-dependent protein kinase which phosphorylates and activates protein kinase B α .
Current Biology **7**: 261-269
- Alliston, T.N., Maiyar, A.C., Buse, P., Firestone, G.L., Richards, J.S.** (1997)
Follicle Stimulating Hormone-Regulated Expression of Serum/Glucocorticoid-Inducible Kinase in Rat Ovarian Granulosa Cells: A Functional Role for the Sp1 Family in Promoter Activity.
Molecular Endocrinology **11**: 1934-1949
- Alliston, T.N., Gonzalez-Robayna, I.J., Buse, P., Firestone, G.L., Richards, J.S.** (2000)
Expression and Localization of Serum/Glucocorticoid-Induced Kinase in the Rat Ovary: Relation to Follicular Growth and Differentiation.
Endocrinology **141**: 385-395
- Alonso, L., Okada, H., Pasolli, H.A., Wakeham, A., You-Ten, A.I., Mak, T.W., Fuchs, E.** (2005)
Sgk3 links growth factor signaling to maintenance of progenitor cells in the hair follicle.
Journal of Cell Biology **170**: 559-570
- Altmeyer, A., Klampfer, L., Goodman, A.R., Vilcek, J.** (1995)
Promoter Structure and Transcriptional Activation of the Murine TSG-14 Gene Encoding a Tumor Necrosis Factor/Interleukin-1-inducible Pentraxin Protein.
Journal of Biological Chemistry **270**: 25584-25590
- Alvarez de la Rosa, D., Zhang, P., Naray-Feyes-Toth, A., Feyes-Toth, G., Canessa, C.M.** (1999)
The serum and glucocorticoid kinase sgk increases the abundance of epithelial sodium channels in the plasma membrane of *Xenopus* oocytes.
Journal of Biological Chemistry **274**: 37834-37839
- Alvarez de la Rosa, D., Li, H., Canessa, C.M.** (2002)
Effects of aldosterone on biosynthesis, traffic, and functional expression of epithelial sodium channels in A6 cells.
Journal of General Physiology **119**: 427-442

- Alvarez de la Rosa, D., Coric, T., Todorovic, N., Shao, D., Wang, T., Canessa, C.M.** (2003a)
Distribution and regulation of expression of serum- and glucocorticoid-induced kinase-1 in the rat kidney.
Journal of Physiology **551**: 455-466
- Alvarez de la Rosa, D., Canessa, C.M.** (2003b)
Role of SGK in hormonal regulation of epithelial sodium channel in A6 cells.
American Journal of Physiology – Cellular Physiology **284**: C404-C414
- Alvarez de la Rosa, D., Păunescu, T.G., Els, W.J., Helman, S.I., Canessa, C.M.** (2003c)
Mechanisms of Regulation of Epithelial Sodium Channel by SGK1 in A6 cells.
Journal of General Physiology **124**: 395-407
- Alvarez de la Rosa, D., Gimenez, I., Forbush, B., Canessa, C.M.** (2006)
SGK1 activates Na⁺-K⁺-ATPase in amphibian renal epithelial cells.
American Journal of Physiology – Cellular Physiology **290**: C492-C498
- Andres, K.H., von Düring, M., Veh, R.W.** (1999)
Subnuclear Organization of the Rat Habenular Complexes.
Journal of Comparative Neurology **407**: 130-150
- Aoyama, T., Matsui, T., Novikov, M., Park, J., Hemmings, B., Rosenzweig, A.** (2005)
Serum and Glucocorticoid-Responsive Kinase-1 Regulates Cardiomyocyte Survival and Hypertrophic Response.
Circulation **111**: 1652-1659
- Arteaga, M.F., Canessa, C.M.** (2005)
Functional specificity of Sgk1 and Akt1 on ENaC activity.
American Journal of Physiology – Renal Physiology **289**: F90-F96
- Arteaga, M.F., Wang, L., Ravid, T., Hochstrasser, M., Canessa, C.M.** (2006)
An amphipathic helix targets serum and glucocorticoid-induced kinase 1 to the endoplasmic reticulum-associated ubiquitin-conjugation machinery.
Proceedings of the National Academy of Science USA **103**: 11178-11183
- Asher, C., Sinha, I., Garty, H.** (2003)
Characterization of the interactions between Nedd4-2, ENaC, and *sgk-1* using surface plasmon resonance.
Biochimica et Biophysica Acta **1612**: 59-64
- Baltaev, R., Strutz-Seebohm, N., Korniychuk, G., Myssina, S., Lang, F.** (2005)
Regulation of cardiac α -related potassium channel Kv 4.3 by serum- and glucocorticoid-inducible kinase isoforms in *Xenopus* oocytes.
Pflüger's Archive **450**: 26-33
- BelAiba, R.S., Djordjevic, T., Bonello, S., Artunc, F., Lang, F., Hess, J., Görlach, A.** (2006)
The Serum- and Glucocorticoid-Inducible Kinase Sgk-1 Is Involved in Pulmonary Vascular Remodeling.
Circulation **98**: 828-836
- Belova, L., Sharma, S., Brickley, D.R., Nicolarsen, J.R., Patterson, C., Conzen, S.D.** (2006)
Ubiquitin/Proteasome Degradation of Serum and glucocorticoid-Regulated Kinase-1 (SGK-1) is Mediated by the Chaperone-Dependent E3 Ligase Chip.
Biochemical Journal **400**: 235-244

- Bhalla, V., Daidié, D., Li, H., Pao, A.C., LaGrane, L.P., Wang, J., Vandewalle, A., Stockland, J.D., Staub, O., Pearce, D.** (2005)
Serum- and Glucocorticoid-Regulated Kinase 1 Regulates Ubiquitin Ligase Neural Precursor Cell-Expressed, Developmentally Down-Regulated Protein 4-2 by Inducing Interaction with 14-3-3.
Molecular Endocrinology **19**: 3073-3084
- Bell, L.M., Leong, M.L.L., Kim, B., Wang, E., Park, J., Hemmings, B.A., Firestone, G.L.** (2000)
Hyperosmotic Stress Stimulates Promoter Activity and Regulates Cellular Utilization of the Serum- and Glucocorticoid-inducible Kinase (Sgk) by a p38 MAPK-dependent Pathway.
Journal of Biological Chemistry **275**: 25262-25272
- Berger, P., Sirkowski, E.E., Scherer, S.S., Suter, U.** (2004)
Expression analysis of the N-myc downstream-regulated gene 1 indicates that myelinating Schwann cells are the primary target in hereditary motor and sensory neuropathy-Lom.
Neurobiology of Disease **17**: 290-299
- Biondi, R.M., Cheung, P.C., Casamayor, A., Deak, M., Currie, R.A., Alessi, D.R.** (2000)
Identification of a pocket in the PDK1 kinase domain that interacts with PIF and the C-terminal residues of PKA.
EMBO Journal **19**: 979-988
- Biondi, R.M., Kieloch, A., Currie, R.A., Deak, M., Alessi, D.R.** (2001)
The PIF-binding pocket in PDK1 is essential for activation of S6K and SGK, but not PKB.
EMBO Journal **20**: 4380-4390
- Birnboim, H.C., Doly, J.** (1979)
A rapid alkaline extraction procedure for screening recombinant plasmid DNA.
Nucleic Acids Research **7**: 1513-1522
- Bliss, T.V., Lomo, T.** (1973)
Long-lasting potentiation of synaptic transmission in the dentate area of the anaesthetized rabbit following stimulation of the perforant path.
Journal of Physiology **232**: 331-356
- Bliss, T.V., Collingsridge, G.L.** (1993)
A synaptic model of memory: long-term potentiation in the hippocampus.
Nature **361**: 31-39
- Böhmer, C., Henke, G., Schniepp, R., Palmada, M., Rothstein, J.D., Bröer, S., Lang, F.** (2003a)
Regulation of the glutamate transporter EAAT1 by the ubiquitin ligase Nedd4-2 and the serum and glucocorticoid-inducible kinase isoforms SGK1/3 and protein kinase B.
Journal of Neurochemistry **86**: 1181-1188
- Böhmer, C., Okur, F., Setiawan, I., Bröer, S., Lang, F.** (2003b)
Properties and regulation of glutamine transporter SN1 by protein kinases SGK and PKB.
Biochemical and Biophysical Research Communications **306**: 156-162
- Böhmer, C., Wilhelm, V., Palmada, M., Wallisch, S., Henke, G., Brinkmeier, H., Cohen, P., Pieske, B., Lang, F.** (2003c)
Serum and glucocorticoid inducible kinases in the regulation of the cardiac sodium channel SCN5A.
Cardiovascular Research **57**: 1079-1084
- Böhmer, C., Philippin, M., Rajamanickam, J., Mack, A., Bröer, S., Palmada, M., Lang, F.** (2004a)
Stimulation of the EAAT4 glutamate transporter by SGK protein kinase isoforms and PKB.
Biochemical and Biophysical Research Communications **324**: 1242-1248

- Böhmer, C., Embark, H.M., Bauer, A., Palmada, M., Yun, C.H., Weinman, E.J., Endou, H., Cohen, P., Lahme, S., Bichler, K.H., Lang, F. (2004b)**
Stimulation of renal Na⁺ dicarboxylate cotransporter 1 by Na⁺/H⁺ exchanger regulating factor 2, serum and glucocorticoid inducible kinase isoforms, and protein kinase B.
Biochemical and Biophysical Research Communications **313**: 998-1003
- Böhmer, C., Rajamanickam, J., Schniepp, R., Kohler, K., Wulff, P., Kuhl, D., Palmada, M., Lang, F. (2005)**
Regulation of the excitatory amino acid transporter EAAT5 by the serum and glucocorticoid dependent kinases SGK1 and SGK3.
Biochemical and Biophysical Research Communications **329**: 738-742
- Böhmer, C., Palmada, M., Rajamanickam, J., Schniepp, R., Amara, S., Lang, F. (2006)**
Post-translational regulation of EAAT2 function by co-expressed ubiquitin ligase Nedd4-2 is impacted by SGK kinases.
Journal of Neurochemistry **97**: 911-921
- Bogusz, A. M., Brickley, D.R., Pew, T., Conzen, S.D. (2006)**
A novel N-terminal hydrophobic motif mediates constitutive degradation of serum- and glucocorticoid-induced kinase-1 by the ubiquitin-proteasome pathway.
FEBS Journal **273**: 2913-2928
- Bottazzi, B., Garlanda, C., Salvatori, G., Jeannin, P., Manfredi, A., Mantovani, A. (2006)**
Pentraxins as a key component of innate immunity.
Current Opinion in Immunology **18**: 10-15
- Boukroun, S., Fay, M., Zennaro, M.-C., Escoubet, B., Jaisser, F., Blot-Chabaud, M., Farman, N., Courois-Coutry, N. (2002)**
Characterization of Rat NDRG2 (N-Myc Downstream Regulated Gene 2), a Novel Mineralocorticoid-specific Induced Gene.
The Journal of Biological Chemistry **277**: 31506-31515
- Boyd, C., Náráy-Feyes-Tóth, A. (2005)**
Gene regulation of ENaC subunits by serum- and glucocorticoid-inducible kinase-1.
American Journal of Physiology – Renal Physiology **288**: F505-F512
- Bradford, M.M. (1976)**
A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding.
Analytical Biochemistry **72**: 248-254
- Brakemann, P.R., Lanahan, A.A., O'Brien, R., Roche, K., Barnes, C.A., Hunganir, R.L., Worley, P.F. (1997)**
Homer: A protein that selectively binds metabotropic glutamate receptors.
Nature **386**: 284-288
- Brennan, F.E., Fuller, P.J. (2000)**
Rapid upregulation of serum and glucocorticoid-regulated kinase (sgk) gene expression by corticosteroids in vivo.
Molecular and Cellular Endocrinology **166**: 129-136
- Brickley, D.R., Mikosz, C.A., Hagan, C.R., Conzen, S.D. (2002)**
Ubiquitin modification of serum and glucocorticoid-induced protein kinase-1 (SGK-1).
Journal of Biological Chemistry **277**: 43064-43070
- Brunet, A., Bonni, A., Zigmund, M. J., Lin, M.Z., Juo, P., Hu, L.S., Anderson, M.J., Arden, C., Blenis, J. Greenberg, M.E. (1999)**
Akt promotes cell survival by phosphorylating and inhibiting a Forkhead transcription factor.
Cell **96**: 857-868

- Brunet, A., Park, J., Tran, H., Hu, L.S., Hemmings, B.A., Greenberg, M.E.** (2001)
Protein Kinase SGK Mediates Survival Signals by Phosphorylating the Forkhead Transcription Factor FKHRL1 (FOXO3a).
Molecular and Cellular Biology **21**: 952-965
- Buse, P., Tran, S.H., Luther, E., Phu, P.T., Aponte, G.W., Firestone, G.L.** (1999)
Cell Cycle and Hormonal Control of Nuclear-Cytoplasmic Localization of the Serum- and Glucocorticoid-inducible Protein Kinase, Sgk, in Mammary Tumor Cells.
Journal of Biological Chemistry **274**: 7253-7263
- Busjahn, A., Aydin, A., Uhlmann, R., Krasko, C., Bähring, S., Szelestei, T., Feng, Y., Dahm, S., Sharma, A.M., Luft, F.C., Lang, F.** (2002)
Serum- and Glucocorticoid-Regulated Kinase (SGK1) Gene and Blood Pressure.
Hypertension **40**: 256-260
- Busjahn, A., Luft, F.C.** (2003)
Twin Studies in the Analysis of Minor Physiological Differences Between Individuals.
Cellular Physiology and Biochemistry **13**: 51-58
- Busjahn, A., Seebohm, G., Maier, G., Toliat, M.R., Nürnberg, P., Aydin, A., Luft, F.C., Lang, F.** (2003)
Association of the Serum and Glucocorticoid Regulated Kinase (sgk1) Gene with QT Interval.
Cellular Physiology and Biochemistry **14**: 135-142
- Cameron, H.A., Gould, E.** (1994)
Adult neurogenesis is regulated by adrenal steroids in the dentate gyrus.
Neuroscience **61**: 203-209
- Cameron, H.A., Tanapat, P., Gould, E.** (1998)
Adrenal steroids and N-methyl-D-aspartate receptor activation regulate neurogenesis in the dentate gyrus of adult rats through a common pathway.
Neuroscience **82**: 349-354
- Cameron, H.A., McKay, R.D.** (1999)
Restoring production of hippocampal neurons in old age.
Nature Neuroscience **2**: 894-897
- Casamayor, A., Torrance, P.D., Kobayash, J., Thorner, J., Alessi, D.R.** (1999)
Functional counterparts of mammalian protein kinases PDK1 and SGK in budding yeast.
Current Biology **9**: 186-197
- Chan, D.C.** (2006)
Mitochondrial Fusion and Fission in Mammals.
Annual Reviews in Cell and Developmental Biology **22**: 79-99
- Chirgwin, J.M., Przybyla, A.A., MacDonald, R.J., Rutter, W.J.** (1979)
Isolation of biological active ribonucleic acid from sources enriched in ribonuclease.
Biochemistry **18**: 5294-5299
- Chun, J., Kwon, T., Lee, E., Suh, P.-G., Choi, E.-J., Kang, S.S.** (2002)
The Na⁺/H⁺ exchanger regulatory factor 2 mediates phosphorylation of serum- and glucocorticoid-induced protein kinase 1 by 3-phosphoinositide-dependent protein kinase 1.
Biochemical and Biophysical Research Communications **298**: 207-215
- Chun, J., Kwon, T., Kim, D.J., Park, I., Chung, G., Lee, E.J., Hong, S.K., Chang, S.-I., Kim, H.Y., Kang, S.S.** (2003)
Inhibition of Mitogen-Activated Kinase Kinase Kinase 3 Activity through Phosphorylation by the Serum- and Glucocorticoid-Induced Kinase 1.
Journal of Biochemistry **133**: 103-108

- Chun, J., Kwon, T., Lee, E.J., Kim, C.H., Han, Y.S., Hong, S.-K., Hyun, S., Kang, S.S.** (2004)
14-3-3 Protein Mediates Phosphorylation of Microtubule-associated Protein Tau by Serum- and Glucocorticoid-induced Protein Kinase 1.
Molecules and Cells **18**: 360-368
- Claros, M.G., Vincens, P.** (1996)
Computational method to predict mitochondrially imported proteins and their targeting sequences.
European Journal of Biochemistry **241**: 779-786
- Conrad, C.D., Galea, L.A.M., Kuroda, Y., McEwen, B.S.** (1996)
Chronic stress impairs rat spatial memory on the Y-maze, and this effect is blocked by tianeptine pretreatment.
Behavioural Neuroscience **110**: 1321-1334
- Cordas, E., Náray-Feyes-Tóth, A., Fejes-Tóth, G.** (2007)
Subcellular Location of Serum- and Glucocorticoid-Induced Kinase-1 (SGK1) in Renal and Mammary Cell Lines.
American Journal of Physiology – Cellular Physiology [EPUB AHEAD OF PRINT]
- Coric, T., Hernandez, N., Alvarez de la Rosa, D., Shao, D., Wang, T., Canessa, C.M.** (2004)
Expression of ENaC and serum- and glucocorticoid-induced kinase 1 in the rat intestinal epithelium.
American Journal of Physiology – Gastrointestinal and Liver Physiology **286**: G663-G670
- Cowling, R.T., Birnboim, H.C.** (2000)
Expression of serum- and glucocorticoid-regulated kinase (sgk) mRNA is up-regulated by GM-CSF and other proinflammatory mediators in human granulocytes.
Journal of Leukocyte Biology **67**: 240-248
- Crompton, M.** (1999)
The mitochondrial permeability transition pore and its role in cell death.
Biochemical Journal **341**: 233-249
- Cross, D.A.E., Alessi, D.R., Cohen, P., Andjelkovic, M., Hemmings, B.A.** (1995)
Inhibition of glycogen synthase kinase-3 by insulin mediated by protein kinase B.
Nature **378**: 785-789
- Cubitt, A.B., Heim, R., Adams, S.R., Boyd, A.E., Gross, L.A., Tsien, R.Y.** (1995)
Understanding, improving and using green fluorescent proteins.
Trends in Biochemical Science **20**: 448-455
- Dai, F., Yu, L., He, H., Zhao, Y., Yang, J., Zhang, X., Zhao, S.** (1999)
Cloning and mapping of a novel human serum/glucocorticoid regulated kinase-like gene, SGKL, to chromosome 8q12.3-q13.1.
Genomics **62**: 95-97
- Daniels, W.M.U., Jaffer, A., Engelbrecht, A.H., Russel, V.A., Taljaard, J.J.F.** (1990)
The effect of intrahippocampal injection of kainic acid on corticosterone release in rats.
Neurochemical Research **15**: 495-499
- David, S., Stegenga, S.L., Hu, P., Xiong, G., Kerr, E., Becker, K.B., Venkatapathy, S., Warrington, J.A., Kalb, R.G.** (2005)
Expression of Serum- and Glucocorticoid-Inducible Kinase Is Regulated in an Experience-Dependent Manner and Can Cause Dendritic Growth.
Journal of Neuroscience **25**: 7048-7053
- David, S., Kalb, R.G.** (2005)
Serum/glucocorticoid-inducible kinase can phosphorylate the cyclic AMP response element binding protein, CREB.
FEBS Letters **579**: 1534-1538

- Deak, M., Clifton, A.D., Lucocq, L.M., Alessi, D.R.** (1998)
Mitogen- and stress-activated protein kinase -1 (MSK1) is directly activated by MAPK and SAPK2/p38 and may mediate activation of CREB.
EMBO Journal **17**: 4426-4441
- Debiec, J., LeDoux, J.E., Nader, K.** (2002)
Cellular and systems reconsolidation in the hippocampus.
Neuron **36**: 527-538
- Debonneville, C., Flores, S.Y., Kamynina, E., Plant, P.J., Tauxe, C., Thomas, M.A., Münster, C., Chraïbi, A., Pratt, J.H., Horisberger, J.-D., Pearce, D., Loffing, J., Staub, O.** (2001)
Phosphorylation of Nedd4-2 by Sgk1 regulates epithelial Na⁺ channel cell surface expression.
EMBO Journal **20**: 7052-7059
- De Kloet, E.R., Joels, M., Holsboer, F.** (2005)
Stress and the brain: from adaptation to disease.
Nature Reviews Neuroscience **6**: 463-475
- Delmolino, L.M., Castellot, J.J. Jr.** (1997)
Heparin Suppresses sgk, an Early Response Gene in Proliferating Vascular Smooth Muscle Cells.
Journal of Cellular Physiology **173**: 371-379
- Diakov, A., Korbmacher, C.** (2004)
A Novel Pathway of Epithelial Sodium Channel Activation Involves a Serum- and Glucocorticoid-inducible Kinase Consensus Motif in the C Terminus of the Channel's α -Subunit.
Journal of Biological Chemistry **279**: 38134-38142
- Dieter, M., Palmada, M., Rajamanickam, J., Aydin, A., Busjahn, A., Böhmer, C., Luft, F., Lang, F.** (2004)
Regulation of Glucose Transporter SGLT1 by Ubiquitin Ligase Nedd4-2 and Kinases SGK1, SGK3, and PKB.
Obesity Research **5**: 862-870
- Dijkers, P.F., Medema, R.H., Lammers, J.W., Koenderman, L., Coffey, P.J.** (2000a)
Expression of the pro-apoptotic Bcl-2 family member Bim is regulated by the forkhead transcription factor FKHR-L1.
Current Biology **10**: 1201-1204
- Dijkers, P.F., Medema, R.H., Pals, C., Banerji, L., Thomas, N.S., Lam, E.W., Burgering, B.M., Raaijmakers, J.A., Lammers, J.W., Koenderman, L., Coffey, P.J.** (2000b)
Forkhead transcription factor FKHR-L1 modulates cytokine-dependent transcriptional regulation of p27(KIP1).
Molecular and Cellular Biology **20**: 9138-9148
- Dixit, V.M., Green, S., Sarma, V., Holzman, L.B., Wolf, F.W., O'Rourke, K., Ward, P.A., Prochownik, E.V., Marks, R.M.** (1990)
Tumor necrosis factor- α induction of novel gene products in human endothelial cells including a macrophage-specific chemotaxin.
Journal of Biological Chemistry **265**: 2973-2978
- Driver, P.M., Rauz, S., Walker, E.A., Hewison, M., Kilby, M.D., Stewart, P.M.** (2003)
Characterization of human trophoblast as a mineralocorticoid target tissue.
Molecular Human Reproduction **9**: 793-798
- Du, K., Montminy, M.** (1998)
CREB is a Regulatory Target for the Protein Kinase Akt/PKB.
Journal of Biological Chemistry **273**: 32377-32379

- Dunn, J.D., Orr, S.E.** (1984)
Differential plasma corticosterone responses to hippocampal stimulation.
Experimental Brain Research **54**: 1-6
- Echaniz-Laguna, A., Degos, B., Bonnet, C., Latour, P., Hamadouche, T., Lévy, N., Leheup, B.** (2007)
NDRG1-linked Charcot-Marie-Tooth disease (CMT4D) with central nervous system involvement.
Neuromuscular Disorders **17**: 163-168
- Eichenbaum, H.** (2001)
The hippocampus and declarative memory: cognitive mechanisms and neural codes.
Behavioral Brain Research **127**: 199-207
- El Mernissi, G., Doucet, A.** (1983)
Short-term effect of aldosterone on renal sodium transport and tubular Na-K-ATPase in the rat.
Pflüger's Archive **339**: 139-146
- Emanuelsson, O., Nielsen, H., Brunak, S., von Heijne, G.** (2000)
Predicting subcellular localization of proteins based on their N-terminal amino acid sequence.
Journal of Molecular Biology **300**: 1005-1016
- Embark, H.M., Böhmer, C., Vallon, V., Luft, F., Lang, F.** (2003)
Regulation of KCNE1-dependent K⁺ current by the serum and glucocorticoid-inducible kinase (SGK) isoforms.
Pflüger's Archive **445**: 601-606
- Embark, H.M., Böhmer, C., Palmada, M., Rajamanickam, J., Wyatt, A.W., Wallisch, S., Capasso, G., Waldegger, P., Seyberth, H.W., Waldegger, S., Lang, F.** (2004a)
Regulation of CLC-Ka/barttin by the ubiquitin ligase Nedd4-2 and the serum- and glucocorticoid-dependent kinases.
Kidney International **66**: 1918-1925
- Embark, H.M., Setiawan, I., Poppendieck, S., van de Graaf, S.F.J., Böhmer, C., Palmada, M., Wieder, T., Gerstberger, R., Cohen, P., Yun, C.C., Bindels, R.J.M., Lang, F.** (2004b)
Regulation of the Epithelial Ca²⁺ Channel TRPV5 by the NHE Regulating Factor NHERF2 and the Serum and Glucocorticoid Inducible Kinase Isoforms SGK1 and SGK3 Expressed in *Xenopus* oocytes.
Cellular Physiology and Biochemistry **14**: 203-212
- Engert, F., Bonhoeffer, T.** (1999)
Dendritic spine changes associated with hippocampal long-term synaptic plasticity.
Nature **399**: 66-70
- Faletti, C.J., Perrotti, N., Taylor, S.I., Blazer-Yost, B.L.** (2002)
sgk: an essential convergence point for peptide and steroid hormone regulation of ENaC-mediated Na⁺ transport.
American Journal of Physiology – Cellular Physiology **282**: C494-C500
- Farjah, M., Roxas, B.P., Geenen, D.L., Danziger, R.S.** (2003)
Dietary Salt Regulates Renal SGK1 Abundance.
Hypertension **41**: 874-878
- Feng, Y., Wang, Q., Wang, Y., Yard, B., Lang, F.** (2005)
SGK1-mediated Fibronectin Formation in Diabetic Nephropathie.
Cellular Physiology and Biochemistry **16**: 237-244

- Fillon, S., Klingel, K., Wärntges, S., Sauter, M., Gabrysch, S., Pestel, S., Tanneur, V., Waldegger, S., Zipfel, A., Viebahn, R., Häussinger, D., Bröer, S., Kandolf, R., Lang, F.** (2002)
Expression of the Serine/Threonine Kinase hSGK1 in Chronic Viral Hepatitis.
Cellular Physiology and Biochemistry **12**: 47-54
- Fischette, C.T., Komisaruk, B.R., Edinger, H.M., Feder, H.H., Siegel, A.** (1980)
Differential fornix ablations and the circadian rhythmicity of adrenal corticosteroid secretion.
Brain Research **195**: 373-387
- Flexner, J.B., Flexner, L.B., Stellar, E.** (1963)
Memory in mice is affected by intracerebral puromycin.
Science **141**: 57-59
- Flores, S.Y., Loffing-Cueni, D., Kamynina, E., Daidié, D., Gerbex, C., Chabanel, S., Dudler, J., Loffing, J., Staub, O.** (2005)
Aldosterone-Induced Serum and Glucocorticoid-Induced Kinase 1 Expression Is Accompanied by Nedd4-2 Phosphorylation and Increased Na Transport in Cortical Collecting Duct Cells.
Journal of the American Society of Nephrology **16**: 2279-2287
- Frey, U., Krug, M., Reymann, K.G., Matthies, H.** (1988)
Anisomycin, an inhibitor of protein synthesis, blocks late phases of LTP phenomena in the hippocampal CA1 region in vitro.
Brain Research **452**: 57-65
- Frey, U., Frey, S., Schollmeier, F., Krug, M.** (1996)
Influence of actinomycin D, a RNA synthesis inhibitor, on long-term potentiation in rat hippocampal neurons in vivo and in vitro.
Journal of Physiology **490**: 703-711
- Friedrich, B., Wärntges, S., Klingel, K., Sauter, M., Kandolf, R., Risler, T., Müller, G.A., Witzgall, R., Kriz, W., Gröne, H.J., Lang, F.** (2002)
Up-Regulation of the Human Serum and Glucocorticoid-Dependent Kinase 1 in Glomerulonephritis.
Kidney and Blood Pressure Research **25**: 303-307
- Friedrich, B., Feng, Y., Cohen, P., Risler, T., Vandevall, A., Bröer, S., Wang, J., Pearce, D., Lang, F.** (2003)
The serine/threonine kinases SGK2 and SGK3 are potent stimulators of the epithelial Na⁺ channel α, β, γ -ENaC.
Pflüger's Archive **445**: 693-696
- Frödin, M., Antal, T.L., Dümmler, B.A., Jensen, C.J., Deak, M., Gammeltoft, S., Biondi, R.M.** (2002)
Phosphoserine/threonine-binding pocket in AGC kinases and PDK1 mediates activation by hydrophobic motif phosphorylation.
EMBO Journal **21**: 5396-5407
- Fujiie, S., Hieshima, K., Izawa, D., Nakayama, D., Fujisawa, R., Ohyanagi, H., Yoshie, O.** (2001)
Proinflammatory cytokines induce liver and activation-regulated chemokine/macrophage inflammatory protein-3 α /CCL20 in mucosal epithelial cells through NF-kappaB.
International Immunology **14**: 147-155
- Gamper, N., Fillon, S., Huber, S.M., Feng, Y., Kobayashi, T., Cohen, P., Lang, F.** (2002a)
IGF-1 up-regulates K⁺ channels via PI3-kinase, PDK1 and SGK1.
Pflüger's Archive **443**: 625-634

- Gamper, N., Fillon, S., Feng, Y., Friedrich, B., Lang, P.A., Henke, G., Huber, S.M., Kobayashi, T., Cohen, P., Lang, F. (2002b)**
K⁺ channel activation by all three isoforms of serum- and glucocorticoid-dependent protein kinase SGK.
Pflüger's Archive **445**: 60-66
- Goelet, P., Castellucci, V.F., Schacher, S., Kandel, E.R. (1986)**
The long and the short of long-term memory – a molecular framework.
Nature **322**: 419-422
- Gonzalez-Robayna, I.J., Alliston, T.N., Buse, P., Firestone, G.L., Richards, J.S. (1999)**
Functional and Subcellular Changes in the A-Kinase-Signaling Pathway: Relation to Aromatase and Sgk Expression during the Transition of Granulosa Cells to Luteal Cells.
Molecular Endocrinology **13** 1318-1335
- Gould, E., McEwen, B.S., Tanapat, P., Galea, L.A.M., Fuchs, E. (1997)**
Neurogenesis in the dentate gyrus of the adult tree shrew is regulated by psychosocial stress and NMDA receptor activation.
Journal of Neuroscience **17**: 2492-2498
- Grahammer, F., Henke, G., Sandu, C., Rexhepaj, R., Hussain, A., Friedrich, B., Risler, T., Metzger, M., Just, L., Skutella, T., Wulff, P., Kuhl, D., Lang, F. (2006a)**
Intestinal function of gene-targeted mice lacking serum- and glucocorticoid-inducible kinase 1
American Journal of Physiology – Gastrointestinal and Liver Physiology **290**: G1114-G1123
- Grahammer, F., Artunc, F., Sandulache, D., Rexhepaj, R., Friedrich, B., Risler, T., McCormick, J.A., Dawson, K., Wang, J., Pearce, D., Wulff, P., Kuhl, D., Lang, F. (2006b)**
Renal function of gene-targeted mice lacking both SGK1 and SGK3.
American Journal of Physiology – Regulatory, Integrative and Comparative Physiology **290**: R945-R950
- Greenawalt, J.W., Schnaitman, C. (1970)**
An appraisal of the use of monoamine oxidase as an enzyme marker for the outer membrane of rat liver mitochondria.
Journal of Cell Biology **46**: 168-173
- Guan, K.L., Dixon, J.E. (1991)**
Eukaryotic proteins expressed in *Escherichia coli*: An improved Thrombin cleavage and purification procedure of fusion proteins with Glutathion S-Transferase.
Analytical Biochemistry **192**: 262-267
- Harada, A., Sekido, N., Akahoshi, T., Wada, T., Mukaida, N., Matsushima, K. (1994)**
Essential involvement of interleukin-8 (IL-8) in acute inflammation.
Journal of Leukocyte Biology **56**: 559-564
- Harant, H., Eldershaw, S.A., Lindley, I.J. (2001)**
Human macrophage inflammatory protein-3alpha/CCL20/LARC/Exodus/SCYA20 is transcriptionally upregulated by tumor necrosis factor-alpha via a non-standard NF-kappaB site.
FEBS Letters **509**: 439-445
- Hatanaka, T., Hatanaka, Y., Setou, M. (2006)**
Regulation of Amino Acid Transporter ATA2 by ubiquitin ligase Nedd4-2.
Journal of Biological Chemistry **281**: 35922-35930
- Hayashi, M., Tapping, R.I., Chao, T.-H., Lo, J.-F., King, C.C., Yang, Y., Lee, J.-D. (2001)**
BMK1 Mediates Growth Factor-induced Cell Proliferation through Direct Cellular Activation of Serum and Glucocorticoid-inducible Kinase.
Journal of Biological Chemistry **276**: 8631-8634

- Hebb, D.O.** (1949)
The Organization of Behaviour: A Neurophysiological Theory.
Wiley, New York
- Helms, M.N., Fejes-Tóth, G., Náray-Fejes-Tóth, A.** (2003)
Hormone-regulated transepithelial Na⁺ transport in mammalian CCD cells requires SGK1 expression.
American Journal of Physiology – Renal Physiology **284**: F480-F487
- Henke, G., Setiawan, I., Böhmer, C., Lang, F.** (2002)
Activation of Na⁺/K⁺-ATPase by the serum- and glucocorticoid-dependent kinase isoforms.
Kidney and Blood Pressure Research **25**: 370-374
- Henke, G., Maier, S., Wallisch, S., Böhmer, C., Lang, F.** (2004)
Regulation of the Voltage Gated K⁺ Channel Kv1.3 by the Ubiquitin Ligase Nedd4-2 and the Serum and Glucocorticoid Inducible Kinase SGK1.
Journal of Cellular Physiology **199**: 194-199
- Henry, P.C., Kanelis, V., O'Brien, C., Kim, B., Gautschi, I., Forman-Kay, J., Schild, L., Rotin, D.** (2003)
Affinity and Specificity of Interaction between Nedd4 Isoforms and Epithelial Na⁺ Channel.
Journal of Biological Chemistry **278**: 20019-20028
- Herman, J.P., Schäfer, M.K., Young, E.A., Thompson, R., Douglass, J., Akil, H., Watson, S.J.** (1989)
Evidence for hippocampal regulation of neuroendocrine neurons of the hypothalamo-pituitary-adrenocortical axis.
Journal of Neuroscience **9**: 3072-3082
- Hertweck, M., Göbel, C., Baumeister, R.** (2004)
C. elegans SGK-1 Is the Critical Component in the Akt/PKB Kinase Complex to Control Stress Response and Life Span.
Developmental Cell **6**: 577-588
- Hess, A.P., Hamilton, A.E., Talbi, S., Dosion, C., Nyegaard, M., Nayak, N., Genbecev-Krtolica, O., Mavrogianis, P., Ferrer, K., Kruessel, J., Fazleabas, A.T., Fisher, S.J., Giudice, L.C.** (2007)
Decidual Stromal Cell Response to Paracrine Signals from the Trophoblast: Amplification of Immune and Angiogenic Modulators.
Biology of Reproduction **76**: 102-117
- Ho, S.N., Hunt, H.D., Horton, R.M., Pullen, J.K., Pease, L.R.** (1989)
Site-directed mutagenesis by overlap extension using the polymerase chain reaction.
Gene **77**: 51-59
- Hollister, R.D., Page, K.J., Hyman, B.T.** (1997)
Distribution of the messenger RNA for the extracellularly regulated kinases 1,2 and 3 in rat brain: Effects of excitotoxic hippocampal lesions.
Neuroscience **79**: 1111-1119
- Holsboer, F.** (2000)
The corticosteroid receptor hypothesis of depression.
Neuropsychopharmacology **23**: 477-501
- Holsboer, F., Barden, N.** (1996)
Antidepressants and hypothalamic-pituitary-adrenocortical regulation.
Endocrinological Reviews **17**: 187-205

- Hong, G., Lockhart, A., Davis, B., Rahmoune, H., Baker, S., Ye, L., Thompson, P., Shou, Y., O'Shaughnessy, K., Ronco, P., Brown, J.** (2003)
PPAR γ activation enhances cell surface ENaC α via upregulation of SGK1 in human collecting duct cells.
FASEB Journal **13**: 1966-1968
- Horisberger, J.D., Diezi, J.** (1983)
Effects of mineralocorticoids on Na⁺ and K⁺ excretion in the adrenalectomized rat.
American Journal of Physiology – Renal Physiology **245**: F89-F99
- Hou, J., Speirs, H.J.L., Seckl, J.R., Brown, R.W.** (2002)
Sgk1 Gene Expression in Kidney and Its Regulation by Aldosterone: Spatio-Temporal Heterogeneity and Quantitative Analysis
Journal of the American Society of Nephrology **13**: 1190-1198
- Hresko, R.C., Mueckler, M.** (2005)
mTOR.RICTOR is the Ser473 kinase for Akt/protein kinase B in 3T3-L1 adipocytes.
Journal of Biological Chemistry **280**: 40406-40416
- Huang, D.Y., Wulff, P., Völkl, H., Loffing, J., Richter, K., Kuhl, D., Lang, F., Vallon, V.** (2004)
Impaired Regulation of Renal K⁺ Elimination in the sgk1-Knockout Mouse.
Journal of the American Society of Nephrology **15**: 885-891
- Humbert, S., Bryson, E.A., Cordelieres, F.P., Connors, N.C., Datta, S.R., Finkbeiner, S., Greenberg, M.E., Saudou, F.** (2002)
The IGF-1/Akt pathway is neuroprotective in Huntington's disease and involves Huntingtin phosphorylation by Akt.
Developmental Cell **2**: 831-837
- Huang, L.J.-S., Wang, L., Ma, Y., Durick, K., Perkins, G., Deerinck, T.J., Ellisman, M.H., Taylor, S.S.** (1999)
NH₂-Terminal Targeting Motifs Direct Dual Specificity A-Kinase-anchoring Protein 1 (D-AKAP1) to Either Mitochondria or Endoplasmic Reticulum.
Journal of Cell Biology **145**: 951-959
- Hunter, D.R., Haworth, R.A., Southard, J.H.** (1976)
Relationship between configuration, function, and permeability in calcium-treated mitochondria.
Journal of Biological Chemistry **251**: 5069-5077
- Hunter, T.** (1995)
Protein kinases and phosphatases: The yin and yang of protein phosphorylation and signaling.
Cell **80**: 225-236
- Ichas, F., Jouaville, L.S., Mazat, J.-P.** (1997)
Mitochondria Are Excitable Organelles Capable of Generating and Conveying Electrical and Calcium Signals.
Cell **89**: 1145-1153
- Ichimura, T., Yamamura, H., Sasamoto, K., Tominaga, Y., Taoka, M., Kakiuchi, K., Shinkawa, T., Takahashi, N., Shimada, S., Isobe, T.** (2005)
14-3-3 proteins modulate the expression of epithelial Na⁺ channels by phosphorylation-dependent interaction with Nedd4-2 ubiquitin ligase.
Journal of Biological Chemistry **280**: 13187-13194
- Imai, S., Okayama, N., Shimizu, M., Itoh, M.** (2003)
Increased intracellular calcium activates serum and glucocorticoid-inducible kinase 1 (SGK1) through a calmodulin-calcium calmodulin dependent kinase kinase pathway in Chinese hamster ovary cells.
Life Sciences **72**: 2199-2209

- Itani, O.A., Liu, K.Z., Cornish, K.L., Campbell, J.R., Thomas, C.P.** (2002)
Glucocorticoids stimulate human sgk1 gene expression by activation of a GRE in its 5'-flanking region.
American Journal of Physiology – Endocrinology and Metabolism **283**: E971-E979
- Imaizumi, K., Tsuda, M., Wanaka, A., Tohyama, M., Takagi, T.** (1994)
Differential expression of sgk mRNA, a member of the Ser/Thr protein kinase gene family, in rat brain brain after CNS injury.
Brain Research – Molecular Brain Research **26**: 189-196
- Jacinto, E., Facchinetti, V., Liu, D., Soto, N., Wei, S., Jung, S.Y., Huang, Q., Qin, J., Su, B.** (2006)
SIN1/MIP1 Maintains rictor-mTOR Complex Integrity and Regulates Akt Phosphorylation and Substrate Specificity.
Cell **127**: 125-137
- Janiak, F., Leber, B., Andrews, D.W.** (1994)
Assembly of Bcl-2 into microsomal and outer mitochondrial membranes.
Journal of Biological Chemistry **269**: 9842-9849
- Johnson, G.V.W., Stoothoff, W.H.** (2004)
Tau phosphorylation in neuronal cell function and dysfunction.
Journal of Cell Science **117**: 5721-5729
- Joosten, L.A., Netea, M.G., Kim, S.H., Yoon, D.Y., Oppers-Walgreen, B., Radstake, T.R., Barrera, P., van de Loo, F.A., Dinarello, C.A., van den Berg, W.B.** (2006)
IL-32, a proinflammatory cytokine in rheumatoid arthritis.
Proceedings of the National Academy of Science USA **103**: 3298-3303
- Kalaydjieva, L., Hallmayer, J., Chandler, D., Savov, A., Nikolova, A., Angelicheva, D., King, R.H., Ishpekova, B., Honeyman, K., Calafell, F., Shmarov, A., Petrova, J., Turnev, I., Hristova, A., Moskov, M., Stancheva, S., Petkova, I., Bittles, A.H., Georgieva, V., Middleton, L., Thomas, P.K.** (1996)
Gene mapping in Gypsies identifies a novel demyelinating neuropathy on chromosome 8q24.
Nature Genetics **14**: 214-217
- Kalaydjieva, L., Gresham, D., Gooding, R., Heather, L., Baas, F., de Jonge, R., Blechschmidt, K., Angelicheva, D., Chandler, D., Worsley, P., Rosenthal, A., King, R.H., Thomas, P.K.** (2000)
N-myc downstream-regulated gene 1 is mutated in hereditary motor and sensory neuropathy-Lom.
American Journal of Human Genetics **67**: 47-58
- Kamynina, E., Debonneville, C., Bens, M., Vandevall, A., Staub, O.** (2001)
A novel mouse Nedd4 protein suppresses the activity of the epithelial Na⁺ channel.
FASEB Journal **15**: 204-214
- Kanaji, S., Iwahashi, J., Kida, Y., Sakaguchi, M., Mihara, K.** (2000)
Characterization of the Signal that Directs Tom20 to the Mitochondrial Outer Membrane.
Journal of Cell Biology **151**: 277-288
- Kauselmann, G.** (1997)
Analyse der Genexpression nach synaptischer Aktivität durch „Differential Display“:
Charakterisierung der aktivitätsregulierten Induktion von Glycerol-3-phosphat Dehydrogenase und vier Serin/Threonin Kinasen.
Dissertation, Fachbereich Biologie der Universität Hamburg
- Kauselmann, G., Weiler, M., Wulff, P., Jessberger, S., Konietzko, U., Scafidi, J., Staubli, U., Bereiter-Hahn, J., Strebhardt, K., Kuhl, D.** (1999)
The polo-like protein kinases Fnk and Snk associate with a Ca(2+)- and integrin-binding protein and are regulated dynamically with synaptic plasticity.
EMBO Journal **18**: 5528-5539

- Kim, J.-S., He, L., Lemasters, J.J.** (2003)
Mitochondrial permeability transition: a common pathway to necrosis and apoptosis.
Biochemical and Biophysical Research Communications **304**: 463-470
- Kim, S.H., Han, S.Y., Azam, T., Yoon, D.Y., Dinarello, C.A.** (2005)
Interleukin-32: a cytokine and inducer of TNF α .
Immunity **22**: 131-142
- Kirchner, F.** (2006)
Expressionsanalyse von neu identifizierten, aktivitätsregulierten Genen im Hippocampus von Mus musculus.
Diplomarbeit, Fachbereich Biologie der Freien Universität Berlin
- Kobayashi, T., Cohen, P.** (1999a)
Activation of serum- and glucocorticoid-regulated protein kinase by agonists that activate phosphatidylinositide 3-kinase is mediated by 3-phosphoinositide-dependent protein kinase-1 (PDK1) and PDK2.
Biochemical Journal **339**: 319-328
- Kobayashi, T., Deak, M., Morrice, N., Cohen, P.** (1999b)
Characterization of the structure and regulation of two novel isoforms of serum- and glucocorticoid-induced protein kinase.
Biochemical Journal **344**: 189-197
- Kosik, K.S., Shimura, H.** (2005)
Phosphorylated tau and the neurodegenerative foldopathies.
Biochimica et Biophysica Acta **1739**: 298-310
- Krikos, A., Laherty, C.D., Dixit, V.M.** (1992)
Transcriptional Activation of the Tumor Necrosis Factor α -Inducible Zinc Finger Protein, A20, Is Mediated by κ B Elements.
Journal of Biological Chemistry **267**: 17971-17976
- Krogh, A., Larsson, B., von Heijne, G., Sonnhammer, E.L.L.** (2001)
Predicting transmembrane protein topology with a hidden Markov model: Application to complete genomes.
Journal of Molecular Biology **305**: 567-580
- Krug, M., Lossner, B., Ott, T.** (1984)
Anisomycin blocks the late phase of long-term potentiation in the dentate gyrus of freely moving rats.
Brain Research Bulletin **13**: 39-42
- Kumar, J.M., Brooks, D.P., Olson, B.A., Laping, N.J.** (1999)
Sgk, a Putative Serine/Threonine Kinase, Is Differentially Expressed in the Kidney of Diabetic Mice and Humans.
Journal of the American Society of Nephrology **10**: 2488-2494
- Kurdistani, S.K., Arizti, P., Reimer, C.L., Sugrue, M.M., Aaronson, S.A., Lee, S.W.** (1998)
Inhibition of tumor cell growth by RTP/rit42 and its responsiveness to p53 and DNA damage.
Cancer Research **58**: 4439-4444
- Kwon, J.H., Keates, S., Simeonidis, S., Grall, F., Libermann, T.A., Keates, A.C.** (2003)
ESE-1, an Enterocyte-specific Ets Transcription Factor, Regulates MIP-3 α Gene Expression in Caco-2 Human Colonic Epithelial Cells.
Journal of Biological Chemistry **278**: 875-884

- Kyte, J., Doolittle, R.** (1982)
A simple method for displaying the hydropathic character of a protein.
Journal of Molecular Biology **157**: 105-132
- Lachat, P., Shaw, P., Gebhard, S., van Belzen, N., Chaubert, P., Bosman, F.T.** (2002)
Expression of NDRG1, a differentiation-related gene, in human tissues.
Histochemistry and Cell Biology **118**: 399-408
- Laemmli, U.K.** (1970)
Cleavage of structural proteins during the assembly of the head of bacteriophage T4.
Nature **227**: 680-685
- Lai, E.C., Burks, C., Posakony, J.W.** (1998)
The K box, a conserved 3' UTR sequence motif, negatively regulates accumulation of *Enhancer of split* Complex transcripts.
Development **125**: 4077-4088
- Lambert, K.G., Buckelew, S.K., Staffiso-Sandoz, G., Gaffga, S., Carpenter, W., Fisher, J., Kinsley, C.H.** (1998)
Activity-stress induces atrophy of apical dendrites of hippocampal pyramidal neurons in male rats.
Physiology and Behaviour **65**: 43-49
- Lang, F., Klingel, K., Wagner, C.A., Stegen, C., Wärntges, S., Lanzendörfer, M., Melzig, J., Moschen, I., Steuer, S., Waldegger, S., Sauter, M., Paulmichi, M., Gerke, V., Risler, T., Gamba, G., Capasso, G., Kandolf, R., Hebert, S.C., Massry, S.G., Bröer, S.** (2000)
Deranged transcriptional regulation of cell volume sensitive kinase hSgk1 in diabetic nephropathy.
Proceedings of the National Academy of Science USA **94**: 8157-8162
- Lang, F., Cohen, P.** (2001)
The regulation and physiological roles of serum and glucocorticoid-induced protein kinase.
Science's STKE **1-11**
- Lang, U.E., Wolfer, D.P., Grahammer, F., Strutz-Seebohm, N., Seebohm, G., Lipp, H.-P., McCormick, J.A., Hellweg, R., Dawson, K., Wang, J., Pearce, D., Lang, F.** (2005)
Reduced locomotion in the serum and glucocorticoid inducible kinase 3 knock out mouse.
Behavioural Brain Research **167**: 75-86
- Lee, C.-T., Tyan, S.-W., Ma, Y.L., Tsai, M.-C., Yang, Y.C., Lee, E.H.Y.** (2006)
Serum- and glucocorticoid-inducible kinase (SGK) is a target of the MAPK/ERK signaling pathway that mediates memory formation in rats.
European Journal of Neuroscience **23**: 1311-1320
- Lee, E., Lein, E.S., Firestone, G.L.** (2001)
Tissue-specific expression of the transcriptionally regulated serum and glucocorticoid-inducible protein kinase (Sgk) during mouse embryogenesis.
Mechanisms of Development **103**: 177-181
- Lee, E.H.Y., Hsu, W.L., Ma, Y.L., Lee, P.J., Chao, C.C.** (2003)
Enrichment enhances the expression of sgk, a glucocorticoid-induced gene, and facilitates spatial learning through glutamate AMPA receptor mediation.
European Journal of Neuroscience **18**: 2842-2852
- Leong, M.L.L., Maiyar, A.C., Kim, B., O'Keeffe, B.A., Firestone, G.L.** (2003)
Expression of the Serum- and Glucocorticoid-inducible Protein Kinase, Sgk, Is a Cell Survival Response to Multiple Types of Environmental Stress Stimuli in Mammary Epithelial Cells.
Journal of Biological Chemistry **278**: 5871-5882

- Levenson, J.M., Choi, S., Lee, S.-Y., Cao, Y.A., Ahn, H.J., Worley, K.C., Pizzi, M., Liou, H.-C., Sweatt, J.D.** (2004)
A Bioinformatics Analysis of Memory Consolidation Reveals Involvement of the Transcription Factor c-Rel.
Journal of Neuroscience **24**: 3933-3943
- Liang, X., Peters, K.W., Butterworth, M.B., Frizzell, R.A.** (2006)
14-3-3 Isoforms Are Induced by Aldosterone and Participate in Its Regulation of Epithelial Sodium Channels.
Journal of Biological Chemistry **281**: 16323-16332
- Link, W., Konietzko, U., Kauselmann, G., Krug, M., Schwanke, B., Frey, U., Kuhl, D.** (1995)
Somatodendritic expression of an immediate early gene is regulated by synaptic activity.
Proceedings of the National Academy of Science USA **92**: 5734-5738
- Lippincott-Schwartz, J., Patterson, G.H.** (2003)
Development and use of fluorescent protein markers in living cells.
Science **300**: 87-91
- Lisman, J., Schulman, H., Cline, H.** (2002)
The molecular basis of CaMKII function in synaptic and behavioural memory.
Nature Reviews Neuroscience **3**: 175-190
- Liu, D., Yang, X., Songyang, Z.** (2000)
Identification of CISK, a new member of the SGK kinase family that promotes IL-3-dependent survival.
Current Biology **10**: 1233-1236
- Loffing, J., Zecevic, M., Feraille, E., Kaissling, B., Asher, C., Rossier, B.C., Firestone, G.L., Pierce, D., Verrey, F.** (2001)
Aldosterone induces rapid apical translocation of ENaC in early portion of renal collecting system: possible role of SGK.
American Journal of Physiology – Renal Physiology **276**: F675-F682
- Luine, V., Villegas, M., Martinez, C., McEwen, B.S.** (1994)
Repeated stress causes reversible impairments of spatial memory performance.
Brain Research **639**: 167-170
- Magarinos, A.M., Orchinik, M., McEwen, B.S.** (1998)
Morphological changes in the hippocampal CA3 region induced by non-invasive glucocorticoid administration: A paradox.
Brain Research **809**: 314-318
- Maiyar, A.C., Huang, A.J., Phu, P.T., Cha, H.H., Firestone, G.L.** (1996)
p53 Stimulates Promoter Activity of the *sgk* Serum/Glucocorticoid-inducible Serine/Threonine Protein Kinase Gene in Rodent Mammary Epithelial Cells.
Journal of Biological Chemistry **271**: 12414-12422
- Maiyar, A.C., Phu, P.T., Huang, A.J., Firestone, G.L.** (1997)
Repression of Glucocorticoid Receptor Transactivation and DNA Binding of a Glucocorticoid Response Element within the Serum/Glucocorticoid-Inducible Protein Kinase (*sgk*) Gene Promoter by the p53 Tumor Suppressor Protein.
Molecular Endocrinology **11**: 312-329
- Maiyar, A.C., Leong, M.L.L., Firestone, G.L.** (2003)
Importin- α Mediates the Regulated Nuclear Targeting of Serum- and Glucocorticoid-inducible Protein Kinase (*Sgk*) by Recognition of a Nuclear Localization Signal in the Kinase Central Domain.
Molecular Biology of the Cell **14**: 1221-1239

- Mandel, A.J., Walter, L.F.** (1963)
Plasma corticosteroids: Changes in concentration after stimulation of hippocampus and amygdala.
Science **135**: 1212
- Mao, Xiaosong** (2004)
Funktionelle Analyse der Serum und Glucocorticoid-induzierbaren Kinase 1 (SGK1)
Diplomarbeit, Fachbereich Biochemie der Freien Universität Berlin
- McCormick, J.A., Feng, Y., Dawson, K., Behne, M.J., Yu, B., Wang, J., Wyatt, A.W., Henke, G., Grahammer, F., Mauro, T.M., Lang, F., Pearce, D.** (2004)
Targeted Disruption of the Protein Kinase SGK3/CISK Impairs Postnatal Hair Follicle Development.
Molecular Biology of the Cell **15**: 4278-4288
- Medema, R.H., Kops, G.J., Bos, L., Burgering, B.M.** (2000)
AFX-like Forkhead transcription factors mediate cell-cycle regulation by Ras and PKB through p27^{ki1}.
Nature **404**: 782-787
- Menniti, M., Iuliano, R., Amato, R., Boito, R., Corea, M., Pera, I.L., Gulletta, E., Fuiano, G., Perrotti, N.** (2005)
Serum and glucocorticoid-regulated kinase Sgk1 inhibits insulin-dependent activation of phosphomannomutase 2 in transfected COS-7 cells.
American Journal of Physiology – Cellular Physiology **288**: C148-C155
- Mikosz, C.A., Brickley, D.B., Sharkey, M.S., Moran, T.W., Conzen, S.D.** (2001)
Glucocorticoid Receptor-mediated Protection from Apoptosis Is Associated with Induction of the Serine/Threonine Survival Kinase Gene, *sgk-1*.
Journal of Biological Chemistry **276**: 16649-16654
- Milner, B., Corkin, S., Teuber, H.-L.** (1968)
Further analysis of the hippocampal amnesic syndrome.
Neuropsychologica **6**: 215-234
- Mitoma, J., Ito, A.** (1992)
Mitochondrial targeting signal of rat liver monoamine oxidase B is located at its carboxy terminus.
Journal of Biochemistry (Tokyo) **111**: 20-24
- Mizuno, H., Nishida, E.** (2001)
The ERK MAP kinase pathway mediates induction of SGK (serum- and glucocorticoid-inducible kinase) by growth factors.
Genes to Cells **6**: 261-268
- Moller, S., Croning, M.D.R., Apweiler, R.** (2001)
Evaluation of methods for the prediction of membrane spanning regions.
Bioinformatics **17**: 646-653
- Montaron, M.F., Piazza, P.V., Aourousseau, C., Urani, A., Le Moal, M., Abrous, D.N.** (2003)
Implication of corticosteroid receptors in the regulation of hippocampal structural plasticity.
European Journal of Neuroscience **11**: 1479-1485
- Morgan, J., Cohen, D., Hempstead, J., Curran, T.** (1987)
Mapping patterns of *c-fos* expression in the central nervous system after seizure.
Science **237**: 192-197
- Morris, R.** (1984)
Developments of a water-maze procedure for studying spatial learning in the rat.
Journal of Neuroscience Methods **11**: 47-60

- Mukaida, N., Mahe, Y., Matsushima, K.** (1990)
Cooperative Interaction of Nuclear Factor- κ B- and cis-Regulatory Enhancer Binding Protein-like Factor Binding Elements in Activating the Interleukin-8 Gene by Pro-inflammatory Cytokines.
Journal of Biological Chemistry **265**: 21128-21133
- Murray, J.T., Campbell, D.G., Morrice, N., Auld, G.C., Shpiro, N., Marquez, R., Peggie, M., Bain, J., Bloomberg, G.B., Grahammer, F., Lang, F., Wulff, P., Kuhl, D., Cohen, P.** (2004)
Exploitation of KESTREL to identify NDRG family members as physiological substrates for SGK1 and GSK3.
Biochemical Journal **384**: 477-488
- Nader, K.** (2003)
Memory traces unbound.
Trends in Neuroscience **26**: 65-72
- Nagaki, K., Yamamura, H., Shimada, S., Saito, T., Hisanaga, S.-I., Taoka, M., Isobe, T., Ichimura, T.** (2006)
14-3-3 Mediates Phosphorylation-Dependent Inhibition of the Interaction between the Ubiquitin E3 Ligase Nedd4-2 and Epithelial Na⁺ Channels.
Biochemistry **45**: 6733-6740
- Nakamura, N., Ramaswamy, S., Vazquez, F., Signoretti, S., Loda, M., Sellers, W.R.** (2000)
Forkhead transcription factors are critical effectors of cell death and cell cycle arrest downstream of PTEN.
Molecular and Cellular Biology **20**: 8969-8982
- Nakai, K., Horten, P.** (1999)
PSORT: A program for detecting sorting signals in proteins and predicting their subcellular localization.
Trends in Biochemical Sciences **24**: 34-35
- Naray-Fejes-Toth, A., Canessa, C., Cleaveland, E.S., Aldrich, G., Fejes-Toth, G.** (1999)
sgk is an Aldosterone-induced Kinase in the Renal Collecting Duct.
Journal of Biological Chemistry **274**: 16973-16978
- Naray-Fejes-Toth, A., Fejes-Toth, G., Volk, K.A., Stokes, J.B.** (2000)
SGK is a primary glucocorticoid-induced gene in the human.
Journal of Steroid Biochemistry and Molecular Biology **75**: 51-56
- Naray-Fejes-Toth, A., Helms, M.N., Stokes, J.B., Fejes-Toth, G.** (2004)
Regulation of sodium transport in mammalian collecting duct cells by aldosterone-induced kinase: SGK1: structure/function studies.
Molecular and Cellular Endocrinology **217**: 197-202
- Nestler, E.J., Barrot, M., DiLeone, R.J., Eisch, A.J., Gold, S.J., Monteggia, L.M.** (2002)
Neurobiology of depression.
Neuron **34**: 13-25
- Niemann, A., Ruegg, M., La Padula, V., Schenone, A., Suter, U.** (2005)
Ganglioside-induced differentiation associated protein 1 is a regulator of the mitochondrial network: new implications for Charcot-Marie-Tooth disease.
Journal of Cell Biology **170**: 1067-1078
- Nauta, A.J., de Haji, S., Bottazzi, B., Mantovani, A., Borrias, M., Aten, J., Rastaldi, M.P.** (2005)
Human renal epithelial cells produce the long pentraxin PTX3.
Kidney International **67**: 543-553

- Okuda, T., Higashi, Y., Kokame, K., Tanaka, C., Kondoh, H., Miyata, T.** (2004)
Ndr1-Deficient Mice Exhibit a Progressive Demyelinating Disorder of Peripheral Nerves.
Molecular and Cellular Biology **24**: 3949-3956
- Palmada, M., Embark, H.M., Yun, C., Böhmer, C., Lang, F.** (2003)
Molecular requirements for the regulation of the renal outer medullary K⁺ channel ROMK1 by the serum- and glucocorticoid-inducible kinase SGK1.
Biochemical and Biophysical Research Communications **311**: 629-634
- Palmada, M., Dieter, M., Speil, A., Böhmer, C., Mack, A.F., Wagner, H.J., Klingel, K., Kandolf, R., Murer, H., Biber, J., Closs, E.I., Lang, F.** (2004a)
Regulation of intestinal phosphate cotransporter NaPi IIb by ubiquitin ligase Nedd4-2 and by serum- and glucocorticoid-dependent kinase 1.
American Journal of Physiology – Gastrointestinal and Liver Physiology **287**: G143-G150
- Palmada, M., Dieter, M., Böhmer, C., Waldegger, S., Lang, F.** (2004b)
Serum and glucocorticoid inducible kinases functionally regulate CIC-2 channels.
Biochemical and Biophysical Research Communications **321**: 1001-1006
- Palmada, M., Poppendieck, S., Embark, H.M., van de Graaf, S.F.J., Böhmer, C., Bindels, R.J.M., Lang, F.** (2005a)
Requirement of PDZ Domains for the Stimulation of the Epithelial Ca²⁺ Channel TRPV5 by the NHE Regulating Factor NHERF2 and the Serum and Glucocorticoid Inducible Kinase SGK1.
Cellular Physiology and Biochemistry **15**: 175-182
- Palmada, M., Speil, A., Jeyaraj, S., Böhmer, C., Lang, F.** (2005b)
The serine/threonine kinases SGK1, 3 and PKB stimulate the amino acid transporter ASCT2.
Biochemical and Biophysical Research Communications **331**: 272-277
- Palmada, M., Böhmer, C., Akel, A., Rajamanickam, J., Jeyaraj, S., Keller, K., Lang, F.** (2006)
SGK1 Kinase Upregulates GLUT1 Activity and Plasma Membrane Expression.
Diabetes **55**: 421-427
- Park, J., Leong, M.L.L., Buse, P., Maiyar, A.C., Firestone, G.L., Hemmings, B.A.** (1999)
Serum and glucocorticoid-inducible kinase (SGK) is a target of the PI 3-kinase-stimulated signaling pathway.
EMBO Journal **18**: 3024-3033
- Parker, P.J., Parkinson, S.J.** (2001)
AGC protein kinase phosphorylation and protein kinase C.
Biochemical Society Transactions **29**: 860-863
- Penfield, W., Milner, B.** (1958)
Memory deficit produced by bilateral lesions in the hippocampal zone.
Archive of Neurological Psychiatry **79**: 475-497
- Perrotti, N., He, R.A., Phillips, S.A., Haft, C.R., Taylor, S.I.** (2001)
Activation of Serum- and Glucocorticoid-induced Protein Kinase (Sgk) by Cyclic AMP and Insulin.
Journal of Biological Chemistry **276**: 9406-9412
- Plath, N., Ohana, O., Dammermann, B., Errington, M.L., Schmitz, D., Gross, C., Mao, X., Engelsberg, A., Mahlke, C., Welzl, H., Kobalz, U., Stawrakakis, A., Fernandez, E., Waltereit, R., Bick-Sander, A., Therstappen, E., Cooke, S.F., Blanquet, V., Wurst, W., Salmen, B., Bosl, M.R., Lipp, H.P., Grant, S.G., Bliss, T.V., Wolfer, D.P., Kuhl, D.** (2006)
Arc/Arg3.1 is essential for the consolidation of synaptic plasticity and memories.
Neuron **52**: 437-444

- Priault, M., Cartron, P.-F., Camougrand, N., Antonsson, B., Vallette, F.M., Manon, S.** (2002)
Investigation of the role of the C-terminus of Bax and of tc-Bid on Bax interaction with yeast mitochondria.
Cell Death and Differentiation **10**: 1068-1077
- Qian, Z., Gilbert, M.E., Colicos, M.A., Kandel, E.R., Kuhl, D.** (1993)
Tissue-plasminogen activator is induced as an immediate-early gene during seizure, kindling and long-term potentiation.
Nature **361**: 453-457
- Rangone, H., Poizat, G., Troncoso, J., Ross, C.A., MacDonald, M.E., Saudou, F., Humbert, S.** (2004)
The serum- and glucocorticoid-induced kinase SGK inhibits mutant huntingtin-induced toxicity by phosphorylating serine 421 of huntingtin.
European Journal of Neuroscience **19**: 273-279
- Rossi, D.L., Vicari, A.P., Franz-Bacon, K., McClanahan, T.K., Zlotnik, A.** (1997)
Identification through bioinformatics of two new macrophage proinflammatory human chemokines: MIP-3alpha and MIP-3beta.
Journal of Immunology **158**: 1033-1036
- Rozansky, D.J., Wang, J., Doan, N., Purdy, T., Faulk, T., Bhargava, A., Dawson, K., Pearce, D.** (2002)
Hypotonic induction of SGK1 and Na⁺ transport in A6 cells.
American Journal of Physiology – Renal Physiology **283**: F105-F113
- Saffen, D.W., Cole, A.J., Worley, P.F., Christy, B.A., Ryder, K., Baraban, J.M.** (1988)
Convulsant-induced increase in transcription factor messenger RNAs in rat brain.
Proceedings of the National Academy of Science USA **85**: 7795-7799
- Sakoda, H., Gotoh, Y., Katagiri, H., Kurokawa, M., Ono, H., Onishi, Y., Anai, M., Ogihara, T., Fujishiro, M., Fukushima, Y., Abe, M., Shojima, N., Kikuchi, M., Oka, Y., Hirai, H., Asano, T.** (2003)
Differing Roles of Akt and Serum- and Glucocorticoid-regulated Kinase in Glucose Metabolism, DNA Synthesis, and Oncogenic Activity.
Journal of Biological Chemistry **278**: 25802-25807
- Sampath, P., Mazumder, B., Seshadri, V., Fox, P.L.** (2003)
Transcript-Selective Translational Silencing by Gamma Interferon Is Directed by a Novel Structural Element in the Ceruloplasmin mRNA 3' Untranslated Region.
Molecular and Cellular Biology **23**: 1509-1519
- Sandulache, D., Grahammer, F., Artunc, F., Henke, G., Hussain, A., Nasir, O., Mack, A., Friedrich, B., Vallon, V., Wulff, P., Kuhl, D., Palmada, M., Lang, F.** (2006)
Renal Ca²⁺ handling in *sgk1* knockout mice.
Pflüger's Archive **452**: 444-452
- Sapolsky, R.M.** (2000)
Glucocorticoids and Hippocampal Atrophy in Neuropsychiatric Disorders.
Archive of General Psychiatry **57**: 925-935
- Sarbassow, D.D., Guertin, D.A., Ali, S.M., Sabatini, D.M.** (2005)
Phosphorylation and regulation of Akt/PKB by the rictor-mTOR complex.
Science **307**: 1098-1101
- Schoenebeck, B., Bader, V., Zhu, X.R., Schmitz, B., Lübbert, H., Stichel, C.C.** (2005)
Sgk1, a cell survival response in neurodegenerative diseases.
Molecular and Cellular Neuroscience **30**: 249-264

- Scoville, W.B., Milner, B.** (1957)
Loss of recent memory after bilateral hippocampal lesion.
Journal of Neurochemistry **20**: 11-21
- Seeböhm, G., Strutz-Seeböhm, N., Baltaev, R., Korniyuchuk, G., Knirsch, M., Engel, J., Lang, F.** (2005)
Regulation of KCNQ4 Potassium Channel Prepulse Dependence and Current Amplitude by SGK1 in *Xenopus* oocytes.
Cellular Physiology and Biochemistry **16**: 255-262
- Setiawan, I., Henke, G., Feng, Y., Böhmer, C., Vasilets, L.A., Schwarz, W., Lang, F.** (2002)
Stimulation of *Xenopus* oocyte Na⁺,K⁺ATPase by the serum and glucocorticoid-dependent kinase sgk1.
Pflüger's Archive **444**: 426-431
- Shaywitz, A.J., Greenberg, M.E.** (1999)
CREB: A Stimulus-Induced Transcription Factor Activated by A Diverse Array of Extracellular Signals.
Annual Reviews of Biochemistry **69**: 821-861
- Sheline, Y.I., Wang, P.W., Gado, M.H., Cernansky, J.C., Vannier, M.W.** (1996)
Hippocampal atrophy in recurrent major depression.
Proceedings of the National Academy of Sciences USA **93**: 5034-5043
- Sheline, Y.I., Gado, M.H., Kraemer, H.C.** (2003)
Untreated depression and hippocampal volume loss.
American Journal of Psychiatry **160**: 1516-1518
- Shelly, C., Herrera, R.** (2002)
Activation of SGK1 by HGF, Rac1 and integrin-mediated cell adhesion in MDCK cells: PI-3K-dependent and -independent pathways.
Journal of Cell Science **115**: 1985-1993
- Sheng, M., Sala, C.** (2001)
PDZ domains and the organization of supramolecular complexes.
Annual Reviews of Neuroscience **24**: 1-29
- Shenolikar, S., Weinman, E.J.** (2001)
NHERF: Targeting and trafficking membrane proteins.
American Journal of Physiology – Renal Physiology **280**: F389-F395
- Shigaev, A., Asher, C., Latter, H., Garty, H., Reuveny, E.** (2000)
Regulation of sgk by aldosterone and its effects on the epithelial Na⁺ channel.
American Journal of Physiology – Renal Physiology **278**: F613-F619
- Shimono, A., Okuda, T., Kondoh, H.** (1999)
N-myc-dependent repression of Ndr1, a gene identified by direct subtraction of whole mouse embryo cDNAs between wild type and N-myc mutant.
Mechanisms of Development **83**: 39-52
- Shojaiefard, M., Christie, D.L., Lang, F.** (2005)
Stimulation of the creatine transporter SLC6A8 by the protein kinases SGK1 and SGK3.
Biochemical and Biophysical Research Communications **334**: 742-746
- Shumilina, E., Lampert, A., Lupescu, A., Myssina, S., Strutz-Seeböhm, N., Henke, G., Grammer, F., Wulff, P., Kuhl, D., Lang, F.** (2005)
Deranged Kv Channel Regulation in Fibroblasts From Mice Lacking the Serum and Glucocorticoid Inducible Kinase SGK1.
Journal of Cellular Physiology **204**: 87-98

- Slagsvold, T., Marchese, A., Brech, A., Stenmark, H.** (2006)
CISK attenuates degradation of the chemokine receptor CXCR4 via the ubiquitin ligase AIP4.
EMBO Journal **25**: 3738-3749
- Snyder, P.M., Olson, D.R., Thomas, B.C.** (2002)
Serum and Glucocorticoid-regulated Kinase Modulates Nedd4-2-mediated Inhibition of the Epithelial Na⁺ Channel.
Journal of Biological Chemistry **277**: 5-8
- Snyder, P.M., Steines, J.C., Olson, D.R.** (2004)
Relative Contribution of Nedd4 and Nedd4-2 to ENaC Regulation in Epithelia Determined by RNA Interference.
Journal of Biological Chemistry **279**: 5042-5046
- Snyder, P.M., Olson, D.R., Kabra, R., Zhou, R., Steines, J.C.** (2004)
cAMP and Serum and Glucocorticoid-inducible Kinase (SGK) Regulate the Epithelial Na⁺ Channel through Convergent Phosphorylation of Nedd4-2.
Journal of Biological Chemistry **279**: 45753-45758
- Soderling, T.R., Derkach, V.A.** (2000)
Postsynaptic protein phosphorylation and LTP.
Trends in Neuroscience **23**: 75-80
- Sorkina, T., Miranda, M., Dionne, K.R., Hoover, B.R., Zahniser, N.R., Sorkin, A.** (2006)
RNA interference screen reveals an essential role of Nedd4-2 in dopamine transporter ubiquitination and endocytosis.
Journal of Neuroscience **26**: 8195-8205
- Sousa, N., Lukoyanov, N.V., Madeira, M.D., Almeida, O.F.X., Paula-Barbosa, M.M.** (2000)
Reorganization of the morphology of hippocampal neurites and synapses after stress-induced damage correlates with behavioural improvement.
Neuroscience **97**: 253-266.
- Squire, L.R., Knowlton, B., Musen, G.** (1993)
The Structure and Organization of Memory.
Annual Reviews of Psychology **44**: 453-495
- Starkman, M.N., Gebarsky, S.S., Berent, S., Schteingart, D.E.** (1992)
Hippocampal formation volume, memory dysfunction, and cortisol levels in patients with Cushing's syndrome.
Biological Psychiatry **32**: 756-765
- Staub, O., Gautschi, I., Ishikawa, T., Breitschopf, K., Ciechanover, A., Schild, L., Rotin, D.** (1997)
Regulation of stability and function of the epithelial Na⁺ channel (ENaC) by ubiquitination.
EMBO Journal **16**: 6325-6336
- Stein, S., Thomas, E.K., Herzog, B., Westfall, M.D., Rocheleau, J.V., Jackson II, R.S., Wang, M., Liang, P.** (2004)
NDRG1 Is Necessary for p53-dependent Apoptosis.
Journal of Biological Chemistry **279**: 48930-48940
- Stichel, C.C., Schoenebeck, B., Foguet, M., Siebertz, B., Bader, V., Zhu, X.R., Lübbert, H.** (2005)
sgk1, a member of an RNA cluster associated with cell death in a model of Parkinson's disease.
European Journal of Neuroscience **21**: 301-316
- Stokoe, D., Stephens, L.R., Copeland, T., Gaffney, P.R., Reese, C.B., Painter, G.F., Holmes, A.B., McCormick, F., Hawkins, P.T.** (1997)
Dual role of phosphatidylinositol-3,4,5-triphosphate in the activation of protein kinase B.
Science **277**: 567-570

- Strieter, R.M., Kunkel, S.L., Showell, H.J., Remick, D.G., Phan, S.H., Ward, P.A., Marks, R.M.** (1989)
Endothelial cell gene expression of a neutrophil chemotactic factor by TNF-alpha, LPS, and IL-1 beta.
Science **243**: 1467-1469
- Strutz-Seebohm, N., Seebohm, G., Shumilina, E., Mack, A.F., Wagner, H.-J., Lampert, A., Grammer, F., Henke, G., Just, L., Skutella, T., Hollmann, M., Lang, F.** (2005a)
Glucocorticoid adrenal steroids and glucocorticoid-inducible kinase isoforms in the regulation of GluR6 expression.
Journal of Physiology **565**: 391-400
- Strutz-Seebohm, N., Seebohm, G., Mack, A.F., Wagner, H.-J., Just, L., Skutella, T., Lang, U.E., Henke, G., Striegel, M., Hollmann, M., Rouach, N., Nicoll, R.A., McCormick, J.A., Wang, J., Pearce, D., Lang, F.** (2005b)
Regulation of GluR1 abundance in murine hippocampal neurones by serum- and glucocorticoid-inducible kinase 3.
Journal of Physiology **565**: 381-390
- Strutz-Seebohm, N., Seebohm, G., Korniyuchuk, G., Baltaev, R., Ureche, O., Striegel, M., Lang, F.** (2006)
Additive regulation of GluR1 by stargazin and serum- and glucocorticoid-inducible kinase isoform GluR3.
Pflüger's Archive **452**: 276-282
- Summa, V., Mordisini, D., Roger, F., Bens, M., Martin, P.Y., Vandewalle, P.A., Verrey, F., Feraille, F.** (2001)
Short term effect of aldosterone on Na,K-ATPase cell surface expression in kidney collecting duct cells.
Journal of Biological Chemistry **276**: 47087-47093
- Sun, Y., Taniguchi, R., Tanoue, D., Yamaji, T., Takemata, H., Mori, K., Fujita, T., Kawasaki, T., Kozutsumi, Y.** (2000)
Sli2 (Ypk1), a homologue of mammalian protein kinase SGK, is a downstream kinase in the sphingolipid-mediated signaling pathway of yeast.
Molecular and Cellular Biology **20**: 4411-4419
- Sunanda Rao, B.S.S., Raju T.R.** (2000)
Chronic restraint stress impairs acquisition and retention of spatial memory tasks in rats.
Current Science **79**: 14581-11584
- Tessier, M., Woodgett, J.R.** (2006)
Role of the Phox Homology Domain and Phosphorylation in Activation of Serum and Glucocorticoid-regulated Kinase-3.
Journal of Biological Chemistry **281**: 23978-23989
- Thomas, C.P., Campbell, J.R., Wright, P.J., Husted, R.F.** (2004)
cAMP-stimulated Na⁺ transport in H441 distal lung epithelial cells: role of PKA, phosphatidylinositol 3-kinase, and sgk1.
American Journal of Physiology – Lung Cellular and Molecular Physiology **287**: L843-L851
- Toni, N., Buchs, P.A., Nikonenko, I., Bron, C.R., Müller, D.** (1999)
LTP promotes formation of multiple spine synapses between a single axon terminal and a dendrite.
Nature **402**: 421-425
- Trochen, N., Ganapathipillai, S., Ferrari, P., Frey, B.M., Frey, F.J.** (2004)
Low prevalence of nonconservative mutations of serum and glucocorticoid-regulated kinase (SGK1) gene in hypertensive and renal patients.
Nephrology Dialysis Transplantation **19**: 2499-2504

- Tsai, K.J., Chen, S.K., Ma, Y.L., Hsu, W.L., Lee, E.H.Y.** (2002)
sgk, a primary glucocorticoid-induced gene, facilitates memory consolidation of spatial learning rats.
Proceedings of the National Academy of Science USA **99**: 3990-3995
- Tsui, C., Copeland, N.G., Gilbert, D.J., Jenkins, N.A., Barnes, C.A., Worley, P.F.** (1996)
Narp, a novel member of the pentraxin family, promotes neurite outgrowth and is dynamically regulated by neuronal activity.
Journal of Neuroscience **16**: 2463-2478
- Ullrich, S., Berchtold, S., Ranta, F., Seebohm, G., Henke, G., Lupescu, A., Mack, A.F., Chao, C.M., Su, J., Nitschke, R., Alexander, D., Friedrich, B., Wulff, P., Kuhl, D., Lang, F.** (2005)
Serum- and glucocorticoid-inducible kinase 1 (SGK1) mediates glucocorticoid-induced inhibition of insulin secretion.
Diabetes **54**: 1090-1099
- Uren, R.T., Dewson, G., Bonzon, C., Lithgow, T., Newmeyer, D.D., Kluck, R.M.** (2005)
Mitochondrial release of pro-apoptotic proteins: electrostatic interactions can hold cytochrome c but not Smac/DIABLO to mitochondrial membranes.
Journal of Biological Chemistry **280**: 2266-2274
- Vallon, V., Wyatt, A.W., Klingel, K., Huang, D.Y., Hussain, A., Berchtold, S., Friedrich, B., Grammer, F., BelAiba, R.S., Görlach, A., Wulff, P., Daut, J., Dalton, N.D., Ross Jr., J., Flögel, U., Schrader, J., Osswald, H., Kandolf, R., Kuhl, D., Lang, F.** (2006)
SGK1-dependent cardiac CTGF formation and fibrosis following DOCA treatment.
Journal of Molecular Medicine **84**: 396-404
- Vanhaesebroeck, B., Alessi, D.R.** (2000)
The PI3K-PDK1 connection: more than just a road to PKB.
Biochemical Journal **346**: 561-576
- van Belzen, N., Dinjens, W.N., Diesveld, M.P., Groen, N.A., van der Made, A.C., Nozawa, Y., Vliestra, R., Trapman, J., Bosman, F.T.** (1997)
A novel gene which is up-regulated during colon epithelial cell differentiation and down-regulated in colorectal neoplasms.
Laboratory Investigation **77**: 85-92
- Van Schaffingen, E., Jaeken, J.** (1995)
Phosphomannomutase deficiency is a cause of carbohydrate-deficient glycoprotein syndrome type I.
FEBS Letters **377**: 318-320
- Varani, S., Elvin, J.A., Yan, C., DeMayo, J., DeMayo, F., Horton, H.F., Byrne, M.C., Matzuk, M.M.** (2002)
Knockout of Pentraxin 3, a Downstream Target of Growth Differentiation Factor-9, Causes Female Subfertility.
Molecular Endocrinology **16**: 1154-1167
- Verrey, F., Kraehenbuhl, J.P., Rossier, B.C.** (1989)
Aldosterone induces a rapid increase in the rate of Na,K-ATPase gene transcription in cultured kidney cells.
Molecular Endocrinology **3**: 1369-1376
- Verry, F., Summa, V., Heitzmann, D., Mordasini, D., Vandewalle, A., Féraillé, E., Zecevic, M.** (2003)
Short-Term Aldosterone Action on Na,K-ATPase Surface Expression. Role of Aldosterone-Induced SGK1?
Annals of the New York Academy of Sciences **986**: 554-561

- Vik, T.A., Ryder, J.W.** (1997)
Identification of serine 380 as the major site of autophosphorylation of Xenopus pp90rsk.
Biochemical and Biophysical Research Communications **235**: 398-402
- Virbasius, J.V., Song, X., Pomerleau, D.P., Zhan, Y., Zhou, G.W., Czech, M.P.** (2001)
Activation of the AKT-related cytokine-independent survival kinase requires interaction of its plox domain with endosomal phosphatidylinositol 3-phosphate.
Proceedings of the National Academy of Science USA **98**:12908-12913
- von Herten, L.S.J., Giese, K.P.** (2005)
Memory Reconsolidation Engages Only a Subset of Immediate-Early Genes Induced during Consolidation.
Journal of Neuroscience **25**: 1935-1942
- Vuagniaux, G., Vallet, V., Fowler Jaeger, N., Hummler, E., Rossier, B.C.** (2002)
Synergistic Activation of ENaC by Three Membrane-bound Channel-activating Serin Proteases (mCAP1, mCAP2, and mCAP3) and Serum- and Glucocorticoid-regulated Kinase (Sgk1) in *Xenopus* Oocytes.
Journal of General Physiology **120**: 191-201
- Wade, J.B., Stanton, B.A., Field, M.J., Kashgarian, M., Giebisch, G.** (1990)
Morphological and physiological response to aldosterone: time course and dependence.
American Journal of Physiology – Renal Physiology **259**: F88-F94
- Wade, J.B., Liu, J., Coleman, R.A., Cunningham, R., Steplock, D.A., Lee-Kwon, W., Pallone, T.L., Shenolikar, S., Weinman, E.J.** (2003)
Localization and interaction of NHERF isoforms in the renal proximal tubule of the mouse.
American Journal of Physiology – Cellular Physiology **285**: C1494-C1503
- Wärntges, S., Friedrich, B., Henke, G., Duranton, C., Lang, P.A., Waldegger, S., Meyermann, R., Kuhl, D., Speckmann, E.J., Obermüller, N., Witzgall, R., Mack, A.F., Wagner, H.J., Wagner, C.A., Bröer, S., Lang, F.** (2002a)
Cerebral localization and regulation of the cell volume-sensitive serum- and glucocorticoid-dependent kinase SGK1
Pflüger's Archive **443**: 617-624
- Wärntges, S., Klingel, K., Weigert, C., Fillon, S., Buck, M., Schleicher, E., Rodemann, H.P., Knabbe, C., Kandolf, R., Lang, F.** (2002b)
Excessive Transcription of the Human Serum and Glucocorticoid Dependent Kinase hSGK1 in Lung Fibrosis.
Cellular Physiology and Biochemistry **12**: 135-142
- Wagner, C.A., Broer, A., Albers, A., Gamper, N., Lang, F., Broer, S.** (2000)
The heterodimeric amino acid transporter 4F2hc/LAT1 is associated in *Xenopus* oocytes with a non-selective cation channel is regulated by the serine/threonine kinase sgk-1.
Journal of Physiology **526**: 35-46
- Wagner, C.A., Ott, M., Klingel, K., Beck, S., Melzig, J., Friedrich, B., Wild, K.N., Broer, S., Moschen, I., Albers, A., Waldegger, S., Tummler, B., Egan, M.E., Geibel, J.P., Kandolf, R., Lang, F.** (2001)
Effects of the serine/threonine kinase SGK1 on the epithelial Na(+) channel and CFTR: implications for cystic fibrosis.
Cellular Physiology and Biochemistry **11**: 209-218
- Waldegger, S., Barth, P., Raber, G., Lang, F.** (1997)
Cloning and characterization of a putative human serine/threonine protein kinase transcriptionally modified during anisotonic and isotonic alterations of cell volume.
Proceedings of the National Academy of Science USA **94**: 4440-4445

- Waldegger, S., Klingel, K., Barth, P., Sauter, M., Lanzendörfer, M., Kandolf, R., Lang, F.** (1999)
h-sgk Serin-Threonine protein kinase gene as early transcriptional target of target of TGF- β in human intestine.
Gastroenterology **116**: 1081-1088
- Waldegger, S., Gabrysch, S., Barth, P., Fillon, S., Lang, F.** (2000)
h-sgk serine-threonine protein kinase as transcriptional target of p38/MAP kinase pathway in HepG2 human hepatoma cells.
Cellular Physiology and Biochemistry **10**: 203-208
- Wang, D., Sun, H., Lang, F., Yun, C.C.** (2005)
Activation of NHE3 by dexamethasone requires phosphorylation of NHE3 at Ser663 by SGK1.
American Journal of Physiology – Cellular Physiology **289**: C802-C810
- Wang, G.-X., McCrudden, C., Dai, Y.-P., Horowitz, B., Hume, J.R., Yamboliev, I.A.** (2004)
Hypotonic activation of volume-sensitive outwardly rectifying chloride channels in cultured PSMCs is modulated by SGK.
American Journal of Physiology – Heart and Circulation Physiology **287**: H533-H544
- Watanabe, Y., Gould, E., McEwen, B.S.** (1992)
Stress induces atrophy of apical dendrites of the hippocampal CA3 pyramidal neurons.
Hippocampus **2**: 431-436
- Webster, M.K., Goya, L., Ge, Y., Maiyar, A.C., Firestone, G.L.** (1993a)
Characterization of sgk, a novel member of the Serine/Threonine protein kinase gene family which is transcriptionally induced by glucocorticoids and serum.
Molecular and Cellular Biology **13**: 2031-2040
- Webster, M.K., Goya, L., Firestone, G.L.** (1993b)
Immediate-early transcriptional regulation and rapid mRNA turnover of a putative serine/threonine protein kinase.
Journal of Biological Chemistry **286**: 11482-11485
- Whitlock, J.R., Heynen, A.J., Shuler, M.G., Bear, M.F.** (2006)
Learning Induces Long-Term Potentiation in the Hippocampus.
Science **313**: 1093-1097
- Widmann, C., Gibson, S., Jarpe, B., Johnson, G.L.** (1999)
Mitogen-Activated Protein Kinase: Conservation of a Three-Kinase Module From Yeast to Human.
Physiological Reviews **79**: 143-180
- Woolley, C.S., Gould, E., McEwen, B.S.** (1990)
Exposure to excess glucocorticoids alters dendritic morphology of adult hippocampal pyramidal neurons.
Brain Research **531**: 225-231
- Wulff, P., Vallon, V., Huang, D.Y., Volkl, H., Yu, F., Richter, K., Jansen, M., Schlunz, M., Klingel, K., Loffing, J., Kauselmann, G., Bosl, M.R., Lang, F., Kuhl, D.** (2002)
Impaired renal Na(+) retention in the sgk1-knockout mouse.
Journal of Clinical Investigations **110**: 1263-1268
- Wyatt, A.W., Hussain, A., Amann, K., Klingel, K., Kandolf, R., Artunc, F., Grahammer, F., Huang, D.Y., Vallon, V., Kuhl, D., Lang, F.** (2006)
DOCA-induced Phosphorylation of Glycogen Synthase Kinase 3 β .
Cellular Physiology and Biochemistry **17**: 137-144

- Xing, Y., Liu, D., Zhang, R., Joachimiak, A., Songyang, Z., Xu, W.** (2004)
Structural Basis of Membrane Targeting by the Phox Homology Domain of Cytokine-independent Survival Kinase (CISK-PX).
Journal of Biological Chemistry **279**: 30662-30669
- Xu, J., Liu, D., Gill, G., Zhou, S.** (2001)
Regulation of cytokine-independent survival kinase (CISK) by the Phox homology domain and phosphoinositides.
Journal of Cell Biology **154**: 699-705
- Yamagata, K., Andreasson, K.I., Kaufmann, W.E., Barnes, C.A., Worley, P.F.** (1993)
Expression of a mitogen-inducible cyclooxygenase in brain neurons: Regulation by synaptic activity and glucocorticoids.
Neuron **11**: 371-386
- Yamagata, K., Kaufmann, W.E., Lanahan, A., Papapavlou, M., Barnes, C.A., Worley, P.F.** (1994)
Egr3/Pilot, a zinc-finger transcription factor, is rapidly regulated by activity in brain neurons and colocalizes with Egr1/Zif268.
Learning and Memory **1**: 140-152
- Yang, Y.C., Lin, C.H., Lee, E.H.Y.** (2006)
Serum- and Glucocorticoid-Inducible Kinase 1 (SGK1) Increases Neurite Formation through Microtubule Depolymerization by SGK1 and by SGK1 Phosphorylation of Tau.
Molecular and Cellular Biology **26**: 8357-8370
- Young, J.C., Agashe, V.R., Siegers, K., Hartl, F.U.** (2004)
Pathways of Chaperone-Mediated Protein Folding in the Cytosol.
Nature Reviews Molecular Cell Biology **5**: 781-791
- Yoo, D., Kim, B.Y., Campo, C., Nance, L., King, A., Maouyo, D., Welling, P.A.** (2003)
Cell Surface Expression of the ROMK (Kir1.1) Channel Is Regulated by the Aldosterone-induced Kinase, SGK-1, and Protein Kinase A
Journal of Biological Chemistry **278**: 23066-23075
- You, H., Jang, Y., You-Ten, A.I., Okada, H., Liepa, J., Wakeham, A., Zaugg, K., Mak, T.W.** (2004)
p53-dependent inhibition of FKHRL1 in response to DNA damage through protein kinase SGK1.
Proceedings of the National Academy of Science USA **101**: 14057-14062
- Yun, C.C., Palmada, M., Embark, H.M., Fedorenko, O., Feng, Y., Henke, G., Setiawan, I., Böhmer, C., Weinman, E.J., Sandrasagra, S., Korbmacher, C., Cohen, P., Pearce, D., Lang, F.** (2002a)
The Serum and Glucocorticoid-Inducible Kinase SGK1 and the Na⁺/H⁺ Exchange Regulating Factor NHERF2 Synergize to Stimulate the Renal Outer Medullary K⁺ Channel ROMK1.
Journal of the American Society of Nephrology **13**: 2823-2830
- Yun, C.C., Chen, Y., Lang, F.** (2002b)
Glucocorticoid Activation of Na⁺/H⁺ Exchanger Isoform 3 Revisited.
Journal of Biological Chemistry **277**: 7676-7683
- Zecevic, M., Heitzmann, D., Camargo, S.M.R., Verrey, F.** (2004)
SGK1 increases Na,K-ATP cell-surface expression and function in *Xenopus laevis* oocytes.
Pflüger's Archive **448**: 29-35
- Zhang, B.-H., Tang, E.D., Zhu, T., Greenberg, M.E., Vojtek, A.B., Guan, K.L.** (2001)
Serum- and Glucocorticoid-inducible Kinase SGK Phosphorylates and Negatively Regulates B-Raf.
Journal of Biological Chemistry **276**: 31620-31626

Zhang, L., Cui, R., Cheng, X., Du, J. (2005)

Antiapoptotic Effect of Serum and Glucocorticoid-Inducible Protein Kinase Is Mediated by Novel Mechanism Activating I κ B Kinase.

Cancer Research **65**: 457-464

Zhuo, R., Snyder, P.M. (2005)

Nedd4-2 Phosphorylation Induces Serum and Glucocorticoid-regulated Kinase (SGK) Ubiquitination and Degradation.

Journal of Biological Chemistry **280**: 4518-45

Zhou, R.-H., Kokame, K., Tsukamoto, Y., Yutani, C., Kato, H., Miyata, T. (2001)

Characterization of the Human NDRG Gene Family: A Newly Identified Member, NDRG4, Is Specifically Expressed in Brain and Heart.

Genomics **73**: 86-97

Zobel, A.W., Yassouridis, A., Frieboes, R.M., Holsboer, F. (1999)

Cortisol response to the combined dexamethasone CRH test predicts medium-term outcome in patients with remitted depression.

American Journal of Psychiatry **156**: 949-951