

Literaturverzeichnis

Abe K et al (1993). Dissociation of HSP70 and HSC70 heat shock mRNA inductions as an early biochemical marker of ischemic neuronal death. *Neurosci Lett* 149: 165-168.

An G et al (1993). Expression of c-fos and c-jun family genes after focal cerebral ischemia. *Ann Neurol* 33: 457-464.

Anderson G R et al (1989). Retrotransposon-like VL30 elements are efficiently induced in anoxic rat fibroblasts. *J Mol Biol* 205: 765-769.

Anderson G R et al (1993). Anoxia, wound healing, VL30 elements, and the molecular basis of malignant conversion. *Bioessays* 15: 265-272.

Angelastro J M et al (2000). Improved NlaIII digestion of PAGE-purified 102 bp ditags by addition of a single purification step in both the SAGE and microSAGE protocols. *Nucleic Acids Res* 28: E62.

Angelastro J M et al (2000a). Identification of diverse nerve growth factor-regulated genes by Serial Analysis of Gene Expression (SAGE) profiling. *Proc Natl Acad Sci USA* 97: 10424-10429.

Anisimov S V et al (2002). SAGE identification of gene transcripts with profiles unique to pluripotent mouse R1 embryonic stem cells. *Genomics* 79: 169-176.

Anisimov S V et al (2002a). A quantitative and validated SAGE transcriptome reference for adult mouse heart. *Genomics* 80: 213-222.

Arvidsson A et al (2001). Stroke induces widespread changes of gene expression for glial cell line-derived neurotrophic factor family receptors in the adult rat brain. *Neuroscience* 106: 27-41.

Audic S et al (1997). The significance of digital gene expression profiles. *Genome Res* 7: 986-995.

Ay I et al (2001). Intravenous basic fibroblast growth factor (bFGF) decreases DNA fragmentation and prevents downregulation of Bcl-2 expression in the ischemic brain following middle cerebral artery occlusion in rats. *Brain Res Mol Brain Res* 87: 71-80.

Barone F C et al (1997). Tumor necrosis factor-alpha. A mediator of focal ischemic brain injury. *Stroke* 28: 1233-1244.

Bernal J A et al (2002). Human securin interacts with p53 and modulates p53-mediated transcriptional activity and apoptosis. *Nature Genet* 32: 306-311.

Boelaert K et al (2003). A potential role for PTTG / securin in the developing human fetal brain. *FASEB J* 17: 1631-1639.

Bonaldo M F et al (1996). Normalization and subtraction: two approaches to facilitate gene discovery. *Genome Res* 6: 791-806.

Boon K et al (2002). An anatomy of normal and malignant gene expression. *Proc Natl Acad Sci USA* 99: 11287-11292.

- Bork P et al (1999). Domains in plexins: links to integrins and transcription factors. *Trends Biochem Sci* 24: 261-263.
- Bouck J et al (1999). Comparison of gene indexing databases. *Trends Genet* 15: 159-162.
- Bowtell D D L (1999). Options available – from start to finish – for obtaining expression data by microarray. *Nature Genetics* 21(Suppl): 25-32.
- Bronnum-Hansen H et al (2001). Long-term survival and causes of death after stroke. *Stroke* 32: 2131-2136.
- Carter A T et al (1986). Expression and transmission of a rodent retrovirus-like (VL30) gene family. *J Mol Biol* 188: 105-108.
- Carter A T et al (1988). The genomic DNA organization and evolution of a retrovirus-transmissible family of mouse (VL30)genetic elements. *Biochim Biophys Acta* 951: 130-138.
- Chen B H et al (1998). Characterization of gene expression in resting and activated mast cells. *J Exp Med* 188: 1657-1668.
- Chen J et al (1995). Bcl-2 is expressed in neurons that survive focal ischemia in the rat. *Neuroreport* 6: 394-398.
- Chen J et al (1998). Detection of verotoxigenic Escherichia coli by magnetic capture-hybridization PCR. *Applied and Environmental Microbiology* 64: 147-152.
- Chen J J et al (2000). Generation of longer cDNA fragments from Serial Analysis of Gene Expression tags for gene identification. *Proc Natl Acad Sci USA* 97: 349-353.
- Chen J et al (2002). High-throughput GLGI procedure for converting a large number of Serial Analysis of Gene Expression tag sequences into 3`complementary DNAs. *Genes Chromosomes Cancer* 33: 252-261.
- Chen J et al (2002a). Identifying novel transcripts and novel genes in the human genome by using novel SAGE tags. *Proc Natl Acad Sci USA* 99: 12257-12262.
- Cheval L et al (2002). Large-scale analysis of gene expression: Methods and applications to the kidney. *J Nephrol* 15(Suppl.5): S170-S183.
- Chien W et al (2000). A novel binding factor facilitates nuclear translocation and transcriptional activation function of the Pituitary Tumor-transforming Gene product. *J Biol Chem* 275: 19422-19427.
- Datson N A et al (1999). MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue. *Nucleic Acids Res* 27: 1300-1307.
- Datson N A et al (2001). Expression profile of 30000 genes in rat hippocampus using SAGE. *Hippocampus* 11: 430-444.
- De Keyser J et al (1999). Clinical trials with neuroprotective drugs in acute ischemic stroke: are we doing the right thing? *Trends Neurosci* 22: 535-540.
- De Waard V et al (1999). Serial Analysis of Gene Expression to assess the endothelial cell response to an atherogenic stimulus. *Gene* 226: 1-8.

Del Zoppo G et al (2000). Inflammation and stroke: putative role for cytokines, adhesion molecules and iNOS in brain response to ischemia. *Brain Pathol* 10: 95-112.

Dinel S et al (2005). Reproducibility, bioinformatic analysis and power of the SAGE method to evaluate changes in transcriptome. *Nucleic Acids Res* 33(3): e26.

Dirnagl U et al (1999). Pathobiology of ischemic stroke: an integrated view. *Trends Neurosci* 22: 391-397.

Duesberg P H (1977). Murine leukemia viruses containing an ~30 S RNA subunit of unknown biological activity, in addition to the 38 S subunit of the viral genome. *Virology* 83: 211-216.

Endres M et al (1998). Attenuation of delayed neuronal death after mild focal ischemia in mice by inhibition of the caspase family. *J Cereb Blood Flow Metab* 18: 238-247.

Fieschi J et al (1996). Polymerase chain reaction-based site-directed mutagenesis using magnetic beads. *Anal Biochem* 234: 210-214.

Fisher M et al (2000). An overview of acute stroke therapy: past, present, and future. *Arch Intern Med* 160: 3196-3206.

French N S et al (1997). Structure and functional properties of mouse VL30 retrotransposons. *Biochim Biophys Acta* 1352: 33-47.

Frohman M A (1994). On beyond classic RACE (rapid amplification of cDNA ends). *PCR Methods Appl* 4: S40-58.

Gasche Y et al (1999). Early appearance of activated matrix metalloproteinase-9 after focal cerebral ischemia in mice: a possible role in blood-brain barrier dysfunction. *J Cereb Blood Flow Metab* 19: 1020-1028.

Gavinski S et al (1989). Expression of viral and virus-like elements in DNA repair deficient / immunodeficient "wasted" mice. *J Immunol* 142: 1861-1866.

Gluckman P et al (1992). A role for IGF-1 in the rescue of CNS neurons following hypoxic-ischemic injury. *Biochem Biophys Res Commun* 182: 593-599.

Gunnerson J M et al (2000). Growth and migration markers of rat C6 glioma cells identified by Serial Analysis of Gene Expression. *Glia* 32:146-154.

Gunnerson J M et al (2002). Global analysis of gene expression patterns in developing mouse neocortex using Serial Analysis of Gene Expression. *Mol Cell Neurosci* 19: 560-573.

Gygi S P et al (1999). Correlation between protein and mRNA abundance in yeast. *Mol Cell Biol* 19: 1720-1730.

Hara H et al (1996). Reduced brain edema and infarction volume in mice lacking the neuronal isoform of nitric oxide synthase after transient MCA occlusion. *J Cereb Blood Flow Metab* 16: 605-611.

Hashimoto B S et al (1999a). Serial Analysis of Gene Expression in human monocyte-derived dendritic cells. *Blood* 94: 845-852.

- Hashimoto B S et al (1999b). Serial Analysis of Gene Expression in human monocytes and macrophages. *Blood* 94: 837-844.
- Hata R et al (2000). Evolution of brain infarction after transient focal cerebral ischemia in mice. *J Cereb Blood Flow Metab* 20: 937-946.
- Heo J H et al (1999). Matrix metalloproteinases increase very early during experimental focal cerebral ischemia. *J Cereb Blood Flow Metab* 19: 624-633.
- Hillier L D et al (1996). Generation and analysis of 280000 human expressed sequence tags. *Genome Res* 6: 807-828.
- Hogenesch J B et al (2001). A comparison of the Celera and Ensembl predicted gene sets reveals little overlap in novel genes. *Cell* 106: 413-415.
- Hossmann K A (1994). Viability thresholds and the penumbra of focal ischemia. *Ann Neurol* 36: 557-565.
- Hsu C Y et al (1993). Expression of immediate early gene and growth factor mRNAs in a focal cerebral ischemic model in the rat. *Stroke* 24 (suppl I): 78-81.
- Iihara K et al (1994). Ischemia induces the expression of the platelet-derived growth factor-B chain in neurons and brain macrophages in vivo. *J Cereb Blood Flow Metab* 14: 818-824.
- Inoue H et al (1999). Serial Analysis of Gene Expression in a microglial cell line. *Glia* 28: 265-271.
- Isenmann S et al (1998). Differential regulation of bax, bcl-2, and bcl-x proteins in focal cortical ischemia in the rat. *Brain Pathol* 8: 49-62; 62-63.
- Ishikawa H et al (2001). Human pituitary tumor-transforming gene induces angiogenesis. *J Clin Endocr Metab* 86: 867-874.
- Itin A et al (1983). Apparent recombinants between virus-like (VL30) and murine leukemia virus-related sequences in mouse DNA. *J Virol* 47: 178-84.
- Kenzelmann M et al (1999). Substantially enhanced cloning efficiency of SAGE by adding a heating step to the original protocol. *Nucleic Acids Res* 27: 917-918.
- Keshet E et al (1980). Heterogeneity of "virus-like" genes encoding retrovirus-associated 30 S RNA and their organization within the mouse genome. *Cell* 20: 431-9.
- Kinouchi H et al (1993). Induction of 70-kDa heat shock protein and hsp70 mRNA following transient focal cerebral ischemia in the rat. *J Cereb Blood Flow Metab* 13: 105-115.
- Kirschner P B et al (1995). Basic fibroblast growth factor protects against excitotoxicity and chemical hypoxia in both neonatal and adult rats. *J Cereb Blood Flow Metab* 15: 619-623.
- Kovárová M et al (2000). New specificity and yield enhancer of polymerase chain reactions. *Nucleic Acids Res* 28: E70-e70.
- Lal A et al (1999). A public database for gene expression in human cancers. *Cancer Res* 59: 5403-5407.

Lal A et al (2001). Transcriptional response to hypoxia in human tumors. *J Natl Cancer Inst* 93: 1337-1343.

Lash A E et al (2000). SAGEmap: A public gene expression resource. *Genome Research* 10: 1051-1060.

Laudet V C et al (1999). Molecular phylogeny of the ETS gene family. *Oncogene* 18: 1351-1359.

Lawrence M S et al (1996). Overexpression of Bcl-2 with herpes simplex virus vectors protects CNS neurons against neurological insults in vitro and in vivo. *J Neurosci* 16: 486-496.

Lee S et al (2001). The pattern of gene expression in human CD15+ myeloid progenitor cells. *Proc Natl Acad Sci USA* 98: 3340-3345.

Lee S et al (2002). Correct identification of genes from Serial Analysis of Gene Expression taq sequences. *Genomics* 79: 598-602.

Lehrmann E et al (1998). Microglia and macrophages are major sources of locally produced transforming growth factor-beta1 after transient middle cerebral artery occlusion in rats. *Glia* 24: 437-448.

Li Y et al (1997). Apoptosis and protein expression after focal cerebral ischemia in rat. *Brain Res* 765: 301-312.

Lin T N et al (1997). Induction of basic fibroblast growth factor (bFGF) expression following focal cerebral ischemia. *Brain Res Mol Brain Res* 49: 255-265.

Lin T N et al (1998). Differential regulation of ciliary neurotrophic factor (CNTF) and CNTF receptor alpha (CNTFR alpha) expression following focal cerebral ischemia. *Brain Res Mol Brain Res* 55: 71-80.

Loddick S A et al (1996). Neuroprotective effects of human recombinant interleukin-1 receptor antagonist in focal cerebral ischaemia in the rat. *J Cereb Blood Flow Metab* 16: 932-940.

Loddick S A et al (1998). Cerebral interleukin-6 is neuroprotective during permanent focal cerebral ischemia in the rat. *J Cereb Blood Flow Metab* 18: 176-179.

MacManus J P et al. (2004). Translation-state analysis of gene expression in mouse brain after focal ischemia. *J Cereb Blood Flow Metab*. 24: 657-67.

Man M Z et al (2000). POWER SAGE: comparing statistical tests for SAGE experiments. *Bioinformatics* 16: 953-959.

Margulies E H et al (2001). Identification and prevention of a GC content bias in SAGE libraries. *Nucleic Acids Res* 29: E60-0.

Martinou J C et al (1994). Overexpression of bcl-2 in transgenic mice protects neurons from naturally occurring cell death and experimental ischemia. *Neuron* 13: 1017-1030.

Mathupala S P et al (2002). "In-gel" purified ditags direct synthesis of highly efficient SAGE libraries. *BMC Genomics* 3: 20.

Matsumura H et al (1999). Transcript profiling in rice (*Oryza sativa L.*) seedlings using serial analysis of gene expression (SAGE). *Plant J* 20: 719-726.

Matsumura H et al (2003). Gene expression analysis of plant host-pathogen interactions by SuperSAGE. PNAS 26: 15718-15723.

Matsumura H et al (2005). SuperSAGE. Cellular Microbiology 7: 11-18.

McCabe C J et al (2003). Expression of pituitary tumour transforming gene (PTTG) and fibroblast growth factor-2 (FGF-2) in human pituitary adenomas: relationships to clinical tumour behaviour. Clin Endocrinol 58: 141-150.

Michiels E M C et al (1999). Genes differentially expressed in medulloblastoma and fetal brain. Physiol Genomics 1: 83-91.

Murray C J L et al (1997). Mortality by cause for eight regions of the world : Global burden of disease study. Lancet 349: 1269-1276.

Neilson L (2000). Molecular phenotype of the human oocyte by PCR-SAGE. Genomics 63: 13-24.

Nilsson M et al (1994). Inducible and cell type-specific expression of VL30 U3 subgroups correlate with their enhancer design. J Virol 68: 276-88.

Nimura T et al (1996). Heme oxygenase-1 (HO-1) protein induction in rat brain following focal ischemia. Brain Res Mol Brain Res 37: 201-208.

Norton J D et al (1988). Temporal and tissue-specific expression of distinct retrovirus-like (VL30) elements during mouse development. Dev Biol 125: 226-228.

Ohta K et al (1995). Plexin: a novel neuronal cell surface molecule that mediates cell adhesion via a homophilic binding mechanism in the presence of calcium ions. Neuron 14: 1189-1199.

Parle-McDermott A et al (2000). Serial analysis of gene expression identifies putative metastasis-associated transcripts in colon tumor cell. Br J Cancer 83: 725-728.

Parmentier-Batteur S et al (2001). Antisense oligodeoxynucleotide to inducible nitric oxide synthase protects against transient focal cerebral ischemia-induced brain injury. J Cereb Blood Flow Metab 21: 15-21.

Pauws E et al (2001). Heterogeneity in polyadenylation cleavage sites in mammalian mRNA sequences: implications for SAGE analysis. Nucleic Acids Res 29: 1690-1694.

Pauws E et al (2000). Serial Analysis of Gene Expression as a tool to assess the human thyroid expression profile and to identify novel thyroïdal genes. J Clin Endocrinol Metab 85: 1923-1927.

Peters D G et al (1999). Comprehensive transcript analysis in small quantities of mRNA by SAGE-Lite. Nucleic Acids Res 27: e39.

Pfaffl M W (2001). A new mathematical model for relative quantification in real-time RT-PCR. Nucleic Acids Res 29: 2002-2007.

Pingoud A et al (2001). Structure and function of type II restriction endonucleases. Nucleic Acids Res 29: 3705-3727.

Piquemal D et al (2002). Transcriptome analysis of monocytic leukemia cell differentiation. *Genomics* 80: 361-371.

Polyak K et al (1997). A model for p53 induced apoptosis. *Nature* 389: 300-305.

Powell J (1998). Enhanced concatemer cloning – a modification to the SAGE technique. *Nucleic Acids Res* 26: 3445-3446.

Pritchard C C et al (2001). Project normal: Defining normal variance in mouse gene expression. *Proc Natl Acad Sci USA* 98: 13266-13271.

Read S J et al (2001). Stroke genomics: Approaches to identify, validate, and understand ischemic stroke gene expression. *J Cereb Blood Flow Metab* 21: 755-778.

Robert-Nicoud M et al (2001). Transcriptome of a mouse kidney cortical collecting duct cell line: effects of aldosterone and vasopressin. *Proc Natl Acad Sci USA* 98: 2712-2716.

Ryo A et al (1998). A method for analyzing the qualitative and quantitative aspects of gene expression: a transcriptional profile revealed for HeLa cells. *Nucleic Acids Res* 26: 2586-2592.

Ryo A et al (2000). A modified Serial Analysis of Gene Expression that generates longer sequence tags by nonpalindromic cohesive linker ligation. *Anal Biochem* 277: 162-165.

Ryu B et al (2002). Relationships and differentially expressed genes among pancreatic cancers examined by large-scale Serial Analysis of Gene Expression. *Cancer Res* 62: 819-826.

Saha S et al (2002). Using the transcriptome to annotate the genome. *Nat Biotechnol* 20: 508-512.

Sandberg R (2000). Regional and strain-specific gene expression mapping in the adult mouse brain. *Proc Natl Acad Sci USA* 97: 11038-11043.

Schwarz D A et al. (2002). Identification of differentially expressed genes induced by transient ischemic stroke. *Mol Brain Res* 101: 12-22.

Semkova I et al (1999). Neuroprotection mediated via neurotrophic factors and induction of neurotrophic factors. *Brain Res Brain Res Rev* 30: 176-188.

Shibata M et al (2001). Anti-inflammatory, antithrombotic, and neuroprotective effects of activated protein C in a murine model of focal ischemic stroke. *Circulation* 103: 1799-1805.

Speliotes E K et al (1996). Increased expression of basic fibroblast growth factor (bFGF) following focal cerebral infarction in the rat. *Brain Res Mol Brain Res* 39: 31-42.

Spinella D G et al (1999). Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles. *Nucleic Acids Res* 27: e22.

Song X et al (2002). Retroviral-mediated transmission of a mouse VL30 RNA to human melanoma cells promotes metastasis in an immunodeficient mouse model. *Proc Natl Acad Sci USA* 99: 6269-6273.

Song X et al (2004). Binding of mouse VL30 retrotransposon RNA to PSF protein induces genes repressed by PSF: Effects on steroidogenesis and oncogenesis. *Proc Natl Acad Sci USA* *101*: 612-626.

Song X et al (2005). Roles of PSF protein and VL30 RNA in reversible gene regulation. *Proc Natl Acad Sci USA* *102*: 12189-12193.

Suzuki S et al (1999). Temporal profile and cellular localization of interleukin-6 protein after focal cerebral ischemia in rats. *J Cereb Blood Flow Metab* *19*: 1256-1262.

Tremain N et al (2001). MicroSAGE analysis of 2353 expressed genes in a single cell-derived colony of undifferentiated human mesenchymal stem cells reveals mRNAs of multiple cell lineages. *Stem Cells* *19*: 408-418.

Trendelenburg G et al (2002). Serial analysis of gene expression identifies Metallothionein-II as major neuroprotective gene in mouse focal cerebral ischemia. *J Neurosci* *22*: 5879-5888.

Van den Berg A et al (1999). Serial Analysis of Gene Expression: rapid RT-PCR analysis of unknown SAGE tags. *Nucleic Acids Res* *27*: e17.

Van Lookeren Campagne M et al (1999). Evidence for a protective role of metallothionein-1 in focal cerebral ischemia. *Proc Natl Acad Sci USA* *96*: 12870-12875.

Velculescu VE et al (1995). Serial Analysis of Gene Expression. *Science* *270*: 484-487.

Velculescu VE et al (1999). Analysis of human transcriptomes. *Nat Genet* *23*: 387-388.

Vilain C et al (2003). Small amplified RNA-SAGE: an alternative approach to study transcriptome from limiting amount of mRNA. *Nucleic Acids Res* *31*(6): e24.

Virlon B et al (1999). Serial microanalysis of renal transcriptomes. *Proc Natl Acad Sci USA* *96*: 15268-15291.

Wang A et al (1999). Rapid analysis of gene expression (RAGE) facilitates universal expression profiling. *Nucleic Acids Res* *27*: 4609-4618.

Wang D G et al (1998). Large-scale identification, mapping, and genotyping of single-nucleotide polymorphisms in the human genome. *Science* *280*: 1077-1082.

Wang S M et al (1998). A strategy for genome-wide gene analysis: Integrated procedure for gene identification. *Proc Natl Acad Sci USA* *95*: 11909-11914.

Wang S M et al (2000). Screening poly(dA/dT)-cDNAs for gene identification. *Proc Natl Acad Sci USA* *97*: 4162-4167.

Wang X K et al (1995). Discovery of adrenomedullin in rat ischemic cortex and evidence for its role in exacerbating focal brain ischemic damage. *Proc Natl Acad Sci USA* *92*: 11480-11484.

Watanabe T et al (2004). Postischemic intraventricular administration of FGF-2 expressing adenoviral vectors improves neurologic outcome and reduces infarct volume after transient focal cerebral ischemia in rats. *J Cereb Blood Flow Metab* *24*: 1205-1213.

Yang G Y et al (1998). Inhibition of TNFalpha attenuates infarct volume and ICAM-1 expression in ischemic mouse brain. *Neuroreport* 9: 2131-2134.

Yaspo M L et al (1998). Cloning of a novel human putative type Ia integral membrane protein mapping to 21q22.3. *Genomics* 49: 133-136.

Ye S Q et al (2000). MiniSAGE: Gene expression profiling using Serial Analysis of Gene Expression from 1 μ g Total RNA. *Anal Biochem* 287: 144-152.

Yuguchi T et al (1997). Expression of growth inhibitory factor mRNA after focal ischemia in rat brain. *J Cereb Blood Flow Metab* 17: 745-752.

Zhai Q H et al (1997). Gene expression of IL-10 in relationship to TNF-alpha, IL-1 beta and IL-2 in the rat brain - following middle cerebral artery occlusion. *J Neurol Sci* 152: 119-124.

Zhang K et al (2000). Stanniocalcin: A molecular guard of neurons during cerebral ischemia. *Proc Natl Acad Sci USA* 97: 3637-3642.

Zhang L et al (1997). Gene expression profiles in normal and in cancer cells. *Science* 276: 1268-1272.

Zhang X et al (1999). Structure, expression, and function of human pituitary tumor transforming gene (PTTG). *Mol Endocrinol* 13: 156-166.

Zhang Z et al (1998). Cerebral vessels express interleukin 1 beta after focal cerebral ischemia. *Brain Res* 784: 210-217.

Zhou G et al (2001). The pattern of gene expression in human CD34+ stem / progenitor cells. *Proc Natl Acad Sci USA* 98: 13966-13971.

Zou H et al (1999). Identification of a vertebrate sister-chromatid separation inhibitor involved in transformation and tumorigenesis. *Science* 285: 418-422.