

V. Referenzen

- (1999). Chromosome Committee Reports, Mouse Genome Database (MGD), Mouse Genome Informatics, The Jackson Laboratory, Bar Harbor, Maine. **1999**.
- (2000a). "Analysis of the genome sequence of the flowering plant *Arabidopsis thaliana*." Nature **408**(6814): 796-815.
- (2000b). Chromosome Committee Reports, Mouse Genome Database (MGD), Mouse Genome Informatics, The Jackson Laboratory, Bar Harbor, Maine. **2001**.
- Adams, M. D., S. E. Celniker, R. A. Holt, et al. (2000). "The genome sequence of *Drosophila melanogaster*." Science **287**(5461): 2185-95.
- Aebersold, R. H., D. B. Teplow, L. E. Hood, et al. (1986). "Electroblotting onto activated glass. High efficiency preparation of proteins from analytical sodium dodecyl sulfate-polyacrylamide gels for direct sequence analysis." J Biol Chem **261**(9): 4229-38.
- Anderson, L. and J. Seilhamer (1997). "A comparison of selected mRNA and protein abundances in human liver." Electrophoresis **18**(3-4): 533-7.
- Anderson, N. G. and L. Anderson (1982). "The Human Protein Index." Clin Chem **28**(4 Pt 2): 739-48.
- Anderson, N. L. and N. G. Anderson (1998). "Proteome and proteomics: new technologies, new concepts, and new words." Electrophoresis **19**(11): 1853-61.
- Andreadis, A., W. M. Brown and K. S. Kosik (1992). "Structure and novel exons of the human tau gene." Biochemistry **31**(43): 10626-33.
- Appel, R. D., J. R. Vargas, P. M. Palagi, et al. (1997). "Melanie II--a third-generation software package for analysis of two-dimensional electrophoresis images: II. Algorithms." Electrophoresis **18**(15): 2735-48.
- Arnott, D., O. C. KL, K. L. King, et al. (1998). "An integrated approach to proteome analysis: identification of proteins associated with cardiac hypertrophy." Analytical Biochemistry **258**(1): 1-18.
- Avner, P., L. Amar, L. Dandolo, et al. (1988). "Genetic analysis of the mouse using interspecific crosses." Trends Genet **4**(1): 18-23.
- Bahrman, N. and C. Damerval (1989). "Linkage relationships of loci controlling protein amounts in maritime pine (*Pinus pinaster*)." Heredity **63**: 267-274.
- Bauer, D., H. Muller, J. Reich, et al. (1993). "Identification of differentially expressed mRNA species by an improved display technique (DDRT-PCR)." Nucleic Acids Res **21**(18): 4272-80.
- Berggren, K., E. Chernokalskaya, T. H. Steinberg, et al. (2000). "Background-free, high sensitivity staining of proteins in one- and two-dimensional sodium dodecyl sulfate-polyacrylamide gels using a luminescent ruthenium complex [In Process Citation]." Electrophoresis **21**(12): 2509-21.
- Binz, P. A., M. Muller, D. Walther, et al. (1999). "A molecular scanner to automate proteomic research and to display proteome images." Anal Chem **71**(21): 4981-8.
- Bjellqvist, B., B. Basse, E. Olsen, et al. (1994). "Reference points for comparisons of two-dimensional maps of proteins from different human cell types defined in a pH scale where isoelectric points correlate with polypeptide compositions." Electrophoresis **15**(3-4): 529-39.
- Bjellqvist, B., K. Ek, P. G. Righetti, et al. (1982). "Isoelectric focusing in immobilized pH gradients: principle, methodology and some applications." J Biochem Biophys Methods **6**(4): 317-39.
- Bjellqvist, B., G. J. Hughes, C. Pasquali, et al. (1993a). "The focusing positions of polypeptides in immobilized pH gradients can be predicted from their amino acid sequences." Electrophoresis **14**(10): 1023-31.
- Bjellqvist, B., J. C. Sanchez, C. Pasquali, et al. (1993b). "Micropreparative two-dimensional electrophoresis allowing the separation of samples containing milligram amounts of proteins." Electrophoresis **14**(12): 1375-8.
- Blackstock, W. P. and M. P. Weir (1999). "Proteomics: quantitative and physical mapping of cellular proteins." Trends Biotechnol **17**(3): 121-7.
- Blake, J. A., J. T. Eppig, J. E. Richardson, et al. (2000). "The Mouse Genome Database (MGD): expanding genetic and genomic resources for the laboratory mouse. The Mouse Genome Database Group." Nucleic Acids Res **28**(1): 108-11.
- Blomberg, A., L. Blomberg, J. Norbeck, et al. (1995). "Interlaboratory reproducibility of yeast protein patterns analyzed by immobilized pH gradient two-dimensional gel electrophoresis." Electrophoresis **16**(10): 1935-45.
- Boguski, M. S., T. M. Lowe and C. M. Tolstoshev (1993). "dbEST--database for "expressed sequence tags" [letter]." Nat Genet **4**(4): 332-3.

- Botstein, D., R. L. White, M. Skolnick, et al. (1980). "Construction of a genetic linkage map in man using restriction fragment length polymorphisms." *Am J Hum Genet* **32**(3): 314-31.
- Boutell, T., J. I. Garrels, B. R. Franza, et al. (1994). "REF52 on Global Gel Navigator: an internet-accessible two-dimensional gel electrophoresis database." *Electrophoresis* **15**(11): 1487-90.
- Boyd, Y. (1998). "Genetic mapping of the mouse genome." *Methods* **14**(2): 120-34.
- Boyle, A. L., S. G. Ballard and D. C. Ward (1990). "Differential distribution of long and short interspersed element sequences in the mouse genome: chromosome karyotyping by fluorescence in situ hybridization." *Proc Natl Acad Sci U S A* **87**(19): 7757-61.
- Brady, K. P., L. B. Rowe, H. Her, et al. (1997a). "Genetic mapping of 262 loci derived from expressed sequence in a murine interspecific cross using single-strand conformational polymorphism Analysis." *Genome Research*: 1085-93.
- Brady, K. P., L. B. Rowe, H. Her, et al. (1997b). "Genetic mapping of 262 loci derived from expressed sequences in a murine interspecific cross using single-strand conformational polymorphism analysis." *Genome Res* **7**(11): 1085-93.
- Breen, M., L. Deakin, B. Macdonald, et al. (1994). "Towards high resolution maps of the mouse and human genomes--a facility for ordering markers to 0.1 cM resolution. European Backcross Collaborative Group." *Hum Mol Genet* **3**(4): 621-7.
- Briquet-Laugier, V., Y. R. Xia, K. Rooke, et al. (1998). "Mapping of three members of the mouse protein disulfide isomerase family." *Mamm Genome* **9**(2): 176-7.
- Bryda, E. C., J. A. DePari, D. B. Sant'Angelo, et al. (1992). "Multiple sites of crossing over within the Eb recombinational hotspot in the mouse." *Mamm Genome* **2**(2): 123-9.
- Bulfield, G., S. T. Ballard and J. Peters (1987). "An allele at the triose phosphate isomerase, Tpi-1 locus on chromosome 6 recovered from feral mice." *Genet Res* **50**(3): 239-43.
- Burke, D. T., G. F. Carle and M. V. Olson (1987). "Cloning of large segments of exogenous DNA into yeast by means of artificial chromosome vectors." *Science* **236**: 806-812.
- Cargill, M., D. Altshuler, J. Ireland, et al. (1999). "Characterization of single-nucleotide polymorphisms in coding regions of human genes [published erratum appears in Nat Genet 1999 Nov;23(3):373]." *Nat Genet* **22**(3): 231-8.
- Carter, T. C. and D. S. Falconer (1951). "Stocks for detecting linkage in the mouse and the theory of their design." *J. Genet.* **50**: 307-323.
- Celis, J. E., P. Gromov, M. Ostergaard, et al. (1996). "Human 2-D PAGE databases for proteome analysis in health and disease: <http://biobase.dk/cgi-bin/celis>." *FEBS Lett* **398**(2-3): 129-34.
- Celis, J. E., M. Kruhoffer, I. Gromova, et al. (2000). "Gene expression profiling: monitoring transcription and translation products using DNA microarrays and proteomics." *FEBS Lett* **480**(1): 2-16.
- Charlesworth, B. (1994). "The evolution of lethals in the t-haplotype system of the mouse." *Proc R Soc Lond B Biol Sci* **258**(1352): 101-7.
- Charlesworth, B., R. Lande and M. Slatkin (1982). "A Neo-Darwinian commentary on macroevolution." *Evolution* **36**: 474-498.
- Choudhary, M., M. B. Coulthart and R. S. Singh (1992). "A comprehensive study of genic variation in natural populations of *Drosophila melanogaster*. VI. Patterns and processes of genic divergence between *D. melanogaster* and its sibling species, *Drosophila simulans*." *Genetics* **130**(4): 843-53.
- Cook-Deegan, R. M. (1989). "The Alta summit, December 1984." *Genomics* **5**(3): 661-3.
- Copeland, N. G., N. A. Jenkins, D. J. Gilbert, et al. (1993). "A genetic linkage map of the mouse: current applications and future prospects [see comments]." *Science* **262**(5130): 57-66.
- Corbett, J. M., M. J. Dunn, A. Posch, et al. (1994). "Positional reproducibility of protein spots in two-dimensional polyacrylamide gel electrophoresis using immobilised pH gradient isoelectric focusing in the first dimension: an interlaboratory comparison." *Electrophoresis* **15**(8-9): 1205-11.
- Cossu, G., M. Manca, J. R. Strahler, et al. (1986). "Detection of electrophoretically silent mutations by immobilized pH gradients." *J Chromatogr* **361**: 223-9.
- Cox, D. R., M. Burmeister, E. R. Price, et al. (1990). "Radiation hybrid mapping: a somatic cell genetic method for constructing high-resolution maps of mammalian chromosomes." *Science* **250**(4978): 245-50.
- Cox, R. D., N. G. Copeland, N. A. Jenkins, et al. (1991). "Interspersed repetitive element polymerase chain reaction product mapping using a mouse interspecific backcross." *Genomics* **10**(2): 375-84.
- Craig, J. M. and W. A. Bickmore (1994). "The distribution of CpG islands in mammalian chromosomes." *Nat Genet* **7**(3): 376-82.
- Cross, S. H., M. Lee, V. H. Clark, et al. (1997). "The chromosomal distribution of CpG islands in the mouse: evidence for genome scrambling in the rodent lineage." *Genomics* **40**(3): 454-61.

- Damerval, C. (1994). "Quantification of silver-stained proteins resolved by two-dimensional electrophoresis: genetic variability as related to abundance and solubility in two maize lines." Electrophoresis **15**(12): 1573-9.
- Damerval, C., A. Maurice, J. M. Josse, et al. (1994). "Quantitative trait loci underlying gene product variation: a novel perspective for analyzing regulation of genome expression." Genetics **137**(1): 289-301.
- de Vienne, D., J. Burstin, S. Gerber, et al. (1996). "Two-dimensional electrophoresis of proteins as a source of monogenetic and codominant markers for population genetics and mapping the expressed genome." Heredity **76**: 166-177.
- de Vienne, D., A. Leonardi and C. Damerval (1988). "Genetic aspects of variation of protein amounts in maize and pea." Electrophoresis **9**(11): 742-50.
- DeBry, R. W. and M. F. Seldin (1996). "Human/mouse homology relationships." Genomics **33**(3): 337-51.
- Dietrich, W. F., H. Katz, S. E. Lincoln, et al. (1992). "A genetic linkage map of the mouse suitable for typing intraspecific crosses." Genetics **131**: 423-447.
- Dietrich, W. F., J. Miller, R. Steen, et al. (1996). "A comprehensive genetic map of the mouse genome [see comments] [published erratum appears in Nature 1996 May 9;381(6578):172]." Nature **380**(6570): 149-52.
- Dietrich, W. F., J. C. Miller, R. G. Steen, et al. (1994). "A genetic map of the mouse with 4,006 simple sequence length polymorphisms [see comments]." Nature Genetics **7**(2 Spec No): 220-45.
- Dujon, B. (1998). "European Functional Analysis Network (EUROFAN) and the functional analysis of the *Saccharomyces cerevisiae* genome." Electrophoresis **19**(4): 617-24.
- Dulbecco, R. (1986). "A turning point in cancer research: sequencing the human genome." Science **231**(4742): 1055-6.
- Duthel, S. and A. Revol (1993). "Glycan microheterogeneity of alpha 1-antitrypsin in serum and meconium from normal and cystic fibrosis patients by crossed immunoaffinoelectrophoresis with different lectins (Con A, LCA, WGA)." Clin Chim Acta **215**(2): 173-87.
- Elliott, R. W. (1979). "Use of two-dimensional electrophoresis to identify and map new mouse genes." Genetics **91**(2): 295-308.
- Elliott, R. W., K. F. Manly and C. Hohman (1999). "A radiation hybrid map of mouse chromosome 13." Genomics **57**(3): 365-70.
- Engelke, D. R., B. S. Shastri and R. G. Roeder (1983). "Multiple forms of DNA-dependent RNA polymerases in *Xenopus laevis*. Rapid purification and structural and immunological properties." Journal of Biological Chemistry **258**(3): 1921-31.
- Fenn, J. B., M. Mann, C. K. Meng, et al. (1989). "Electrospray ionization for mass spectrometry of large biomolecules." Science **246**(4926): 64-71.
- Figeys, D., G. L. Corthals, B. Gallis, et al. (1999). "Data-dependent modulation of solid-phase extraction capillary electrophoresis for the analysis of complex peptide and phosphopeptide mixtures by tandem mass spectrometry: application to endothelial nitric oxide synthase." Anal Chem **71**(13): 2279-87.
- Garrels, J. I. (1989). "The QUEST system for quantitative analysis of two-dimensional gels." J Biol Chem **264**(9): 5269-82.
- Garrels, J. I. and B. R. Franza, Jr. (1989). "The REF52 protein database. Methods of database construction and analysis using the QUEST system and characterizations of protein patterns from proliferating and quiescent REF52 cells." J Biol Chem **264**(9): 5283-98.
- Garrels, J. I., B. Futcher, R. Kobayashi, et al. (1994). "Protein identifications for a *Saccharomyces cerevisiae* protein database." Electrophoresis **15**(11): 1466-86.
- Gauss, C., M. Kalkum, M. Lowe, et al. (1999). "Analysis of the mouse proteome. (I) Brain proteins: separation by two-dimensional electrophoresis and identification by mass spectrometry and genetic variation." Electrophoresis **20**(3): 575-600.
- Gerber, S., F. Rodolphe, N. bahrman, et al. (1993). "Seed-protein variation in maritime pine (*Pinus pinaster* Ait.) revealed by two-dimensional electrophoresis: genetic determinism and construction of a linkage map." Theor. Appl. Genet. **85**: 521-528.
- Gerstner, A., Z. Csapo, M. Sasvari-Szekely, et al. (2000). "Ulthathin-layer sodium dodecyl sulfate gel electrophoresis of proteins: effects of gel composition and temperature on the separation of sodium dodecyl sulfate-protein complexes." Electrophoresis **21**(5): 834-40.
- Goffeau, A., B. G. Barrell, H. Bussey, et al. (1996). "Life with 6000 genes." Science **274**(5287): 546, 563-7.
- Goldman, D., S. J. O'Brien, S. Lucas-Derse, et al. (1991). "Linkage mapping of human polymorphic proteins identified by two-dimensional electrophoresis." Genomics **11**(4): 875-84.
- Goldman, D. and H. J. Pikus (1986). "Fourteen genetically variant proteins of mouse brain: discovery of two new variants and chromosomal mapping of four loci." Biochem Genet **24**(3-4): 183-94.

- Gorg, A. (1999). "IPG-Dalt of very alkaline proteins." *Methods Mol Biol* **112**: 197-209.
- Gorg, A., C. Obermaier, G. Boguth, et al. (2000). "The current state of two-dimensional electrophoresis with immobilized pH gradients." *Electrophoresis* **21**(6): 1037-53.
- Gorg, A., C. Obermaier, G. Boguth, et al. (1999). "Recent developments in two-dimensional gel electrophoresis with immobilized pH gradients: wide pH gradients up to pH 12, longer separation distances and simplified procedures." *Electrophoresis* **20**(4-5): 712-7.
- Gravel, P., O. Golaz, C. Walzer, et al. (1994). "Analysis of glycoproteins separated by two-dimensional gel electrophoresis using lectin blotting revealed by chemiluminescence." *Anal Biochem* **221**(1): 66-71.
- Gygi, S. P., B. Rist, S. A. Gerber, et al. (1999a). "Quantitative analysis of complex protein mixtures using isotope-coded affinity tags." *Nat Biotechnol* **17**(10): 994-9.
- Gygi, S. P., Y. Rochon, B. R. Franza, et al. (1999b). "Correlation between protein and mRNA abundance in yeast." *Mol Cell Biol* **19**(3): 1720-30.
- Haldane, J. B. S. and C. H. Waddington (1931). "Inbreeding and Linkage." *Genetics* **16**: 357-374.
- Haldi, M. L., C. Strickland, P. Lim, et al. (1996). "A comprehensive large-insert yeast artificial chromosome library for physical mapping of the mouse genome." *Mamm Genome* **7**(10): 767-9.
- Halushka, M. K., J. B. Fan, K. Bentley, et al. (1999). "Patterns of single-nucleotide polymorphisms in candidate genes for blood-pressure homeostasis." *Nat Genet* **22**(3): 239-47.
- Hargrove, J. L. and F. H. Schmidt (1989). "The role of mRNA and protein stability in gene expression." *Faseb J* **3**(12): 2360-70.
- Hattori, M., A. Fujiyama, T. D. Taylor, et al. (2000). "The DNA sequence of human chromosome 21. The chromosome 21 mapping and sequencing consortium [see comments]." *Nature* **405**(6784): 311-9.
- Heukeshoven, J. and R. Dernick (1985). "Characterization of a solvent system for separation of water-insoluble poliovirus proteins by reversed-phase high-performance liquid chromatography." *J Chromatogr* **326**: 91-101.
- Hillenkamp, F. and M. Karas (1990). "Mass spectrometry of peptides and proteins by matrix-assisted ultraviolet laser desorption/ionization." *Methods Enzymol* **193**: 280-95.
- Himmelbauer, H., I. Dunkel, G. W. Otto, et al. (1998a). "Complex probes for high-throughput parallel genetic mapping of genomic mouse BAC clones." *Mammalian Genome* **9**(8): 611-6.
- Himmelbauer, H., N. Wedemeyer, T. Haaf, et al. (1998b). "IRS-PCR-based genetic mapping of the huntingtin interacting protein gene (HIP1) on mouse chromosome 5." *Mammalian Genome* **9**(1): 26-31.
- Hochstrasser, A. C., R. W. James, D. Pometta, et al. (1991). "Preparative isoelectrofocusing and high resolution 2-dimensional gel electrophoresis for concentration and purification of proteins." *Appl Theor Electrophor* **1**(6): 333-7.
- Hochstrasser, D. F., S. Frutiger, N. Paquet, et al. (1992). "Human liver protein map: a reference database established by microsequencing and gel comparison." *Electrophoresis* **13**(12): 992-1001.
- Hoheisel, J. D., G. G. Lennon, G. Zehetner, et al. (1991). "Use of high coverage reference libraries of *Drosophila melanogaster* for relational data analysis. A step towards mapping and sequencing of the genome." *J Mol Biol* **220**(4): 903-14.
- Hooper, N. M., E. H. Karran and A. J. Turner (1997). "Membrane protein secretases." *Biochem J* **321**(Pt 2): 265-79.
- Hunter, K. W., S. D. Ontiveros, M. L. Watson, et al. (1994). "Rapid and efficient construction of yeast artificial chromosome contigs in the mouse genome with interspersed repetitive sequence PCR (IRS-PCR): generation of a 5-cM, > 5 megabase contig on mouse chromosome 1." *Mamm Genome* **5**(10): 597-607.
- Hunter, K. W., L. Riba, L. Schalkwyk, et al. (1996). "Toward the Construction Of Integrated Physical and Genetic Maps Of the Mouse Genome Using Interspersed Repetitive Sequence Pcr (Irs-Pcr) Genomics." *PCR Methods & Applications* **6**(4): 290-299.
- Janke, C., M. Holzer, J. Klose, et al. (1996). "Distribution of isoforms of the microtubule-associated protein tau in grey and white matter areas of human brain: a two-dimensional gelelectrophoretic analysis." *FEBS Lett* **379**(3): 222-6.
- Jungblut, P. R. and R. Seifert (1990). "Analysis by high-resolution two-dimensional electrophoresis of differentiation-dependent alterations in cytosolic protein pattern of HL-60 leukemic cells." *J Biochem Biophys Methods* **21**(1): 47-58.
- Jungblut, P. R., U. Zimny-Arndt, E. Zeindl-Eberhart, et al. (1999). "Proteomics in human disease: cancer, heart and infectious diseases." *Electrophoresis* **20**(10): 2100-10.
- Kaplan, R. D., V. Chapman and F. H. Ruddle (1973). "Electrophoretic variation of alpha-amylase in two inbred strains of *Mus musculus*." *J Hered* **64**(3): 155-7.
- Karas, M. and F. Hillenkamp (1988). "Laser desorption ionization of proteins with molecular masses exceeding 10,000 daltons." *Anal Chem* **60**(20): 2299-301.

- Klose, J. (1975). "Protein mapping by combined isoelectric focusing and electrophoresis of mouse tissues. A novel approach to testing for induced point mutations in mammals." *Humangenetik* **26**(3): 231-43.
- Klose, J. (1982). "Genetic variability of soluble proteins studied by two-dimensional electrophoresis on different inbred mouse strains and on different mouse organs." *J Mol Evol* **18**(5): 315-28.
- Klose, J. (1999a). Fractionated extraction of total tissue proteins from mouse and human for 2-D electrophoresis. *2-D Proteome Analysis Protocols*. A. J. Link. Totowa, New Jersey, Humana Press. **112**: 67-85.
- Klose, J. (1999b). "Genotypes and phenotypes." *Electrophoresis* **20**(4-5): 643-52.
- Klose, J. (1999c). "Large-gel 2-D electrophoresis." *Methods Mol Biol* **112**: 147-72.
- Klose, J. and M. Feller (1981). "Genetic variability of proteins from plasma membranes and cytosols of mouse organs." *Biochem Genet* **19**(9-10): 859-70.
- Klose, J. and U. Kobalz (1995). "Two-dimensional electrophoresis of proteins: an updated protocol and implications for a functional analysis of the genome." *Electrophoresis* **16**(6): 1034-59.
- Kojima, K., J. Gillespie and Y. N. Toari (1970). "A profile of Drosophila species' enzymes assayed by electrophoresis. I. Number of alleles, heterozygosities, and linkage disequilibrium in glucose-metabolizing systems and some other enzymes." *Biochem Genet* **4**(5): 627-37.
- Korenberg, J. R., X. N. Chen, K. L. Devon, et al. (1999). "Mouse molecular cytogenetic resource: 157 BACs link the chromosomal and genetic maps." *Genome Res* **9**(5): 514-23.
- Kosambi, D. D. (1944). "The estimation of map distances from recombination values." *Ann. Eugenics* **12**(172-175).
- Krayev, A. S., D. A. Kramerov, K. G. Skryabin, et al. (1980). "The nucleotide sequence of the ubiquitous repetitive DNA sequence B1 complementary to the most abundant class of mouse fold-back RNA." *Nucleic Acids Res* **8**(6): 1201-15.
- Kukita, A., T. Mukai, T. Miyata, et al. (1988). "The structure of brain-specific rat aldolase C mRNA and the evolution of aldolase isozyme genes." *Eur J Biochem* **171**(3): 471-8.
- Kusumi, K., J. S. Smith, J. A. Segre, et al. (1993). "Construction of a large-insert yeast artificial chromosome library of the mouse genome." *Mamm Genome* **4**(7): 391-2.
- Laemmli, U. K. (1970). "Cleavage of structural proteins during the assembly of the head of bacteriophage T4." *Nature* **227**(259): 680-5.
- Lander, E. S. (1996). "The new genomics: global views of biology [see comments]." *Science* **274**(5287): 536-9.
- Lander, E. S. and D. Botstein (1986). "Strategies for studying heterogeneous genetic traits in humans by using a linkage map of restriction fragment length polymorphisms." *Proc Natl Acad Sci U S A* **83**(19): 7353-7.
- Lander, E. S. and P. Green (1987). "Construction of multilocus genetic linkage maps in humans." *Proc Natl Acad Sci U S A* **84**(8): 2363-7.
- Lander, E. S., P. Green, J. Abrahamson, et al. (1987). "MAPMAKER: an interactive computer package for constructing primary genetic linkage maps of experimental and natural populations." *Genomics* **1**(2): 174-81.
- Leffers, H., K. Dejgaard, B. Honore, et al. (1996). "cDNA expression and human two-dimensional gel protein databases: towards integrating DNA and protein information." *Electrophoresis* **17**(11): 1713-9.
- Lehrach, H., R. Drmanac, J. Hoheisel, et al. (1990). Hybridization Fingerprinting in Genome Mapping and Sequencing. *Genome Analysis Volume 1: Genetic and Physical Mapping*. K. E. Davies and S. Tilghman. Cold Spring Harbor, NY, Cold Spring Harbor Laboratory Press. **1**: 39-81.
- Lennon, G., C. Auffray, M. Polymeropoulos, et al. (1996). "The I.M.A.G.E. Consortium: an integrated molecular analysis of genomes and their expression." *Genomics* **33**(1): 151-2.
- Liang, F., I. Holt, G. Pertea, et al. (2000). "Gene index analysis of the human genome estimates approximately 120,000 genes." *Nat Genet* **25**(2): 239-40.
- Liang, P. and A. B. Pardee (1992). "Differential display of eukaryotic messenger RNA by means of the polymerase chain reaction [see comments]." *Science* **257**(5072): 967-71.
- Lincoln, S. E. and E. S. Lander (1992). "Systematic detection of errors in genetic linkage data." *Genomics* **14**(3): 604-10.
- Litt, M. and R. L. White (1985). "A highly polymorphic locus in human DNA revealed by cosmid-derived probes." *Proc Natl Acad Sci U S A* **82**(18): 6206-10.
- Lockhart, D. J., H. Dong, M. C. Byrne, et al. (1996). "Expression monitoring by hybridization to high-density oligonucleotide arrays [see comments]." *Nat Biotechnol* **14**(13): 1675-80.
- Lopez, M. F., P. Barry, W. B. Sawlisch, et al. (1994). "High resolution 2-D peptide mapping with subsequent analysis of peptides by microsequencing or lectin binding directly from PVDF membrane blots." *Appl Theor Electrophor* **4**(2): 95-102.
- Love, J. M., A. M. Knight, M. A. McAleer, et al. (1990). "Towards construction of a high resolution map of the mouse genome using PCR-analysed microsatellites." *Nucleic Acids Res* **18**(14): 4123-30.

- Maier, E., D. R. Bancroft and H. Lehrach (1997). Large-Scale Library Characterization. Automation Technologies for Genome Characterization. T. J. Beugelsdijk, John Wiley & Sons, Inc.: 65-88.
- Manly, K. F. (1993). "A Macintosh program for storage and analysis of experimental genetic mapping data." Mamm Genome **4**(6): 303-13.
- Mann, M. and M. Wilm (1994). "Error-tolerant identification of peptides in sequence databases by peptide sequence tags." Anal Chem **66**(24): 4390-9.
- Maxam, A. M. and W. Gilbert (1977). "A new method for sequencing DNA." Proc Natl Acad Sci U S A **74**(2): 560-4.
- Mayr, E. (1982). Process of speciation in animals. Mechanisms of Speciation. C. Baroigozzi. Lissabon, New York: 1-20.
- McCarthy, L., K. Hunter, L. Schalkwyk, et al. (1995). "Efficient high-resolution genetic mapping of mouse interspersed repetitive sequence PCR products, toward integrated genetic and physical mapping of the mouse genome." Proc Natl Acad Sci U S A **92**(12): 5302-6.
- McCarthy, L. C. (1995). New Approaches to Genome Mapping in Model Organisms. Department of Genetics and Biometry. London, University of London.
- McCarthy, L. C., J. Terrett, M. E. Davis, et al. (1997). "A first-generation whole genome-radiation hybrid map spanning the mouse genome." Genome Res **7**(12): 1153-61.
- Montagutelli, X., R. Turner and J. H. Nadeau (1996). "Epistatic control of non-Mendelian inheritance in mouse interspecific crosses." Genetics **143**(4): 1739-52.
- Morgan, T. H. and E. Cattell (1912). "Data for the study of sex-linked inheritance in *Drosophila*." J. Exp. Zool. **13**: 79-101.
- Morten, N. (1955). "Sequential tests for the detection of linkage." Am. J. Hum. Genet. **7**: 277-318.
- Mullis, K., F. Faloon, S. Scharf, et al. (1986). "Specific enzymatic amplification of DNA in vitro: the polymerase chain reaction." Cold Spring Harb Symp Quant Biol **51**(Pt 1): 263-73.
- Narang, S. A., R. Brousseau, H. M. Hsiung, et al. (1980). "Chemical synthesis of deoxyoligonucleotides by the modified triester method." Methods Enzymol **65**(1): 610-20.
- Nathans, D. and H. O. Smith (1975). "Restriction endonucleases in the analysis and restructuring of dna molecules." Annu Rev Biochem **44**: 273-93.
- Nesbitt, M. N., B. Bakay, M. B. Gardner, et al. (1979). "Isoenzyme pattern of HPRT in murine erythrocytes: control by an autosomal locus." Biochem Genet **17**(9-10): 957-64.
- Neubauer, G., A. King, J. Rappsilber, et al. (1998). "Mass spectrometry and EST-database searching allows characterization of the multi-protein spliceosome complex [see comments]." Nat Genet **20**(1): 46-50.
- Neuhoff, V., N. Arold, D. Taube, et al. (1988). "Improved staining of proteins in polyacrylamide gels including isoelectric focusing gels with clear background at nanogram sensitivity using Coomassie Brilliant Blue G-250 and R-250." Electrophoresis **9**(6): 255-62.
- Neuhoff, V., R. Stamm, I. Pardowitz, et al. (1990). "Essential problems in quantification of proteins following colloidal staining with coomassie brilliant blue dyes in polyacrylamide gels, and their solution." Electrophoresis **11**(2): 101-17.
- Neumann, P. E. (1990). "Two-locus linkage analysis using recombinant inbred strains and Bayes' theorem." Genetics **126**(1): 277-84.
- Neumann, P. E. (1991). "Three-locus linkage analysis using recombinant inbred strains and Bayes' theorem." Genetics **128**(3): 631-8.
- Nichols, E. A. and F. H. Ruddle (1973). "A review of enzyme polymorphism, linkage and electrophoretic conditions for mouse and somatic cell hybrids in starch gels." J Histochem Cytochem **21**(12): 1066-81.
- Nock, C., C. Gauss, L. C. Schalkwyk, et al. (1999). "Technology development at the interface of proteome research and genomics: mapping nonpolymorphic proteins on the physical map of mouse chromosomes." Electrophoresis **20**(4-5): 1027-32.
- Noel, D., K. Nikaido and G. F. Ames (1979). "A single amino acid substitution in a histidine-transport protein drastically alters its mobility in sodium dodecyl sulfate-polyacrylamide gel electrophoresis." Biochemistry **18**(19): 4159-65.
- Nowak, R. (1995). "Entering the postgenome era [news; comment]." Science **270**(5235): 368-9, 371.
- Nusbaum, C., D. K. Slonim, K. L. Harris, et al. (1999). "A YAC-based physical map of the mouse genome." Nat Genet **22**(4): 388-93.
- O'Farrell, P. H. (1975). "High resolution two-dimensional electrophoresis of proteins." J Biol Chem **250**(10): 4007-21.
- Ohno, K., I. Yuasa, S. Akaboshi, et al. (1992). "The carbohydrate deficient glycoprotein syndrome in three Japanese children." Brain Dev **14**(1): 30-5.
- Ott, J. and H. Donis-Keller (1994). "Statistical methods in genetic mapping." Genomics **22**(2): 496-7.

- Packer, N. H. and M. J. Harrison (1998). "Glycobiology and proteomics: is mass spectrometry the Holy Grail?" Electrophoresis **19**(11): 1872-82.
- Packer, N. H., M. A. Lawson, D. R. Jardine, et al. (1998). "Analyzing glycoproteins separated by two-dimensional gel electrophoresis." Electrophoresis **19**(6): 981-8.
- Packer, N. H., A. Pawlak, W. C. Kett, et al. (1997). "Proteome analysis of glycoforms: a review of strategies for the microcharacterisation of glycoproteins separated by two-dimensional polyacrylamide gel electrophoresis." Electrophoresis **18**(3-4): 452-60.
- Pappin, D. J. (1997). "Peptide mass fingerprinting using MALDI-TOF mass spectrometry." Methods Mol Biol **64**: 165-73.
- Patton, W. F. (2000). "A thousand points of light: the application of fluorescence detection technologies to two-dimensional gel electrophoresis and proteomics." Electrophoresis **21**(6): 1123-44.
- Perrot, M., F. Sagliocco, T. Mini, et al. (1999). "Two-dimensional gel protein database of *Saccharomyces cerevisiae* (update 1999)." Electrophoresis **20**(11): 2280-98.
- Pickford, I. (1989). London, Imperial Cancer Research Fund.
- Pilz, A., J. Fountain, J. Peters, et al. (1993). "Linkage mapping of the Aldo-2, Pax-5, Ambp, and D4h9S3E loci on mouse chromosome 4 in the region of homology with human chromosome 9." Genomics **18**(3): 705-8.
- Randerson, S. (1973). "Linkage of two loci in the deer mouse." J Hered **64**(6): 371-2.
- Reeves, R. H., M. R. Crowley, W. S. Moseley, et al. (1991). "Comparison of interspecific to intersubspecific backcrosses demonstrates species and sex differences in recombination frequency on mouse chromosome 16." Mamm Genome **1**(3): 158-64.
- Rhodes, M., R. Straw, S. Fernando, et al. (1998). "A high-resolution microsatellite map of the mouse genome." Genome Res **8**(5): 531-42.
- Rigaut, G., A. Shevchenko, B. Rutz, et al. (1999). "A generic protein purification method for protein complex characterization and proteome exploration." Nat Biotechnol **17**(10): 1030-2.
- Roemer, I., W. Reik, W. Dean, et al. (1997). "Epigenetic inheritance in the mouse." Curr Biol **7**(4): 277-80.
- Sambrook, J., E. F. Fritschand T. Maniatis (1989). Molecular Cloning. Cold Spring Harbor, Cold Spring Harbor Laboratory Press.
- Sanchez, J. C., R. D. Appel, O. Golaz, et al. (1995). "Inside SWISS-2DPAGE database." Electrophoresis **16**(7): 1131-51.
- Sanger, F. and A. R. Coulson (1975). "A rapid method for determining sequences in DNA by primed synthesis with DNA polymerase." J Mol Biol **94**(3): 441-8.
- Sarto, C., S. Frutiger, F. Cappellano, et al. (1999). "Modified expression of plasma glutathione peroxidase and manganese superoxide dismutase in human renal cell carcinoma." Electrophoresis **20**(17): 3458-66.
- Sarto, C., A. Marocchi, J. C. Sanchez, et al. (1997). "Renal cell carcinoma and normal kidney protein expression." Electrophoresis **18**(3-4): 599-604.
- Schalkwyk, L. C., M. Jung, A. Daser, et al. (1999). "Panel of microsatellite markers for whole-genome scans and radiation hybrid mapping and a mouse family tree." Genome Res **9**(9): 878-87.
- Schalkwyk, L. C., M. Weiher, M. Kirby, et al. (1998). "Refined radiation hybrid map of mouse chromosome 17." Mamm Genome **9**(10): 807-11.
- Schena, M., D. Shalon, R. W. Davis, et al. (1995). "Quantitative monitoring of gene expression patterns with a complementary DNA microarray [see comments]." Science **270**(5235): 467-70.
- Schimenti, J. (2000). "Segregation distortion of mouse t haplotypes the molecular basis emerges." Trends Genet **16**(6): 240-3.
- Scriver, C. R. and P. J. Waters (1999). "Monogenic traits are not simple: lessons from phenylketonuria." Trends Genet **15**(7): 267-72.
- Segre, J. A., J. L. Nemhauser, B. A. Taylor, et al. (1995). "Positional cloning of the nude locus: genetic, physical, and transcription maps of the region and mutations in the mouse and rat." Genomics **28**(3): 549-59.
- Seldin, M. F., T. A. Howard and P. D'Eustachio (1989). "Comparison of linkage maps of mouse chromosome 12 derived from laboratory strain intraspecific and *Mus spretus* interspecific backcrosses." Genomics **5**(1): 24-8.
- Shevchenko, A., O. N. Jensen, A. V. Podtelejnikov, et al. (1996a). "Linking genome and proteome by mass spectrometry: large-scale identification of yeast proteins from two dimensional gels." Proc Natl Acad Sci U S A **93**(25): 14440-5.
- Shevchenko, A., M. Wilm, O. Vorm, et al. (1996b). "Mass spectrometric sequencing of proteins silver-stained polyacrylamide gels." Anal Chem **68**(5): 850-8.

- Silver, J. (1985). "Confidence limits for estimates of gene linkage based on analysis of recombinant inbred strains." *J Hered* **76**(6): 436-40.
- Silver, J. and C. E. Buckler (1986). "Statistical considerations for linkage analysis using recombinant inbred strains and backcrosses." *Proc Natl Acad Sci U S A* **83**(5): 1423-7.
- Silver, L. M. (1995). *Mouse Genetics Concepts and Applications*. New York Oxford, Oxford University Press.
- Silver, L. M., J. Uman, J. Danska, et al. (1983). "A diversified set of testicular cell proteins specified by genes within the mouse t complex." *Cell* **35**(1): 35-45.
- Singh, R. S. (1989). "Population genetics and evolution of species related to *Drosophila melanogaster*." *Annu Rev Genet* **23**: 425-53.
- Smith, D. W. and T. Friedmann (2000). "Characterization of the dopamine defect in primary cultures of dopaminergic neurons from hypoxanthine phosphoribosyltransferase knockout mice." *Mol Ther* **1**(5 Pt 1): 486-91.
- Spicer, G. S. (1988). "Molecular evolution among some *Drosophila* species groups as indicated by two-dimensional electrophoresis." *J Mol Evol* **27**(3): 250-60.
- Stawinski, J., T. Hozumi, S. A. Narang, et al. (1977). "Arylsulfonyltetrazaoles, new coupling reagents and further improvements in the triester method for the synthesis of deoxyribooligonucleotides." *Nucleic Acids Res* **4**(2): 353-71.
- Tauber, C. A., M. J. Tauber and J. R. Nechols (1977). "Two genes control seasonal isolation in sibling species." *Science* **197**: 592-593.
- Taylor, J., N. L. Anderson, A. E. Scandora, Jr., et al. (1982). "Design and implementation of a prototype Human Protein Index." *Clin Chem* **28**(4 Pt 2): 861-6.
- Tew, K. D., A. Monks, L. Barone, et al. (1996). "Glutathione-associated enzymes in the human cell lines of the National Cancer Institute Drug Screening Program." *Mol Pharmacol* **50**(1): 149-59.
- Torres-Jimenez, R., F. Mateos-Anton, J. Arcas-Martinez, et al. (1998). "[Physiopathology of neurological signs of hypoxanthine-guanine phosphoribosyltransferase deficiency]." *Rev Neurol* **27**(160): 1050-4.
- Touzet, P., C. Morin, C. Damerval, et al. (1995). "Characterizing allelic proteins for genome mapping in maize." *Electrophoresis* **16**(7): 1289-94.
- Valdes, I., A. Pitarch, C. Gil, et al. (2000). "Novel procedure for the identification of proteins by mass fingerprinting combining two-dimensional electrophoresis with fluorescent SYPRO red staining." *J Mass Spectrom* **35**(6): 672-82.
- Van Etten, W. J., R. G. Steen, H. Nguyen, et al. (1999). "Radiation hybrid map of the mouse genome." *Nat Genet* **22**(4): 384-7.
- Velculescu, V. E., L. Zhang, B. Vogelstein, et al. (1995). "Serial analysis of gene expression [see comments]." *Science* **270**(5235): 484-7.
- Venta, P. J., J. C. Montgomery, D. Hewett-Emmett, et al. (1985). "Structure and exon to protein domain relationships of the mouse carbonic anhydrase II gene." *J Biol Chem* **260**(22): 12130-5.
- Wess, J. (1997). "G-protein-coupled receptors: molecular mechanisms involved in receptor activation and selectivity of G-protein recognition." *Faseb J* **11**(5): 346-54.
- Whitney, J. B., R. R. Cobb, R. A. Popp, et al. (1985). "Detection of neutral amino acid substitutions in proteins." *Proc Natl Acad Sci U S A* **82**(22): 7646-50.
- Wildgruber, R., A. Harder, C. Obermaier, et al. (2000). "Towards higher resolution: two-dimensional electrophoresis of *Saccharomyces cerevisiae* proteins using overlapping narrow immobilized pH gradients [In Process Citation]." *Electrophoresis* **21**(13): 2610-6.
- Wilkins, M. R., J. C. Sanchez, A. A. Gooley, et al. (1996a). "Progress with proteome projects: why all proteins expressed by a genome should be identified and how to do it." *Biotechnol Genet Eng Rev* **13**: 19-50.
- Wilkins, M. R., J. C. Sanchez, K. L. Williams, et al. (1996b). "Current challenges and future applications for protein maps and post-translational vector maps in proteome projects." *Electrophoresis* **17**(5): 830-8.
- Xia, Y., C. L. Welch, C. H. Warden, et al. (1996). "Assignment of the mouse ataxia-telangiectasia gene (*Atm*) to mouse chromosome 9." *Mamm Genome* **7**(7): 554-5.
- Yamada, J., T. Furihata, N. Iida, et al. (1997). "Molecular cloning and expression of cDNAs encoding rat brain and liver cytosolic long-chain acyl-CoA hydrolases." *Biochem Biophys Res Commun* **232**(1): 198-203.
- Yamashita, K., H. Ideo, T. Ohkura, et al. (1993). "Sugar chains of serum transferrin from patients with carbohydrate deficient glycoprotein syndrome. Evidence of asparagine-N-linked oligosaccharide transfer deficiency." *J Biol Chem* **268**(8): 5783-9.
- Yan, J. X., J. C. Sanchez, L. Tonella, et al. (1999). "Studies of quantitative analysis of protein expression in *Saccharomyces cerevisiae*." *Electrophoresis* **20**(4-5): 738-42.

- Yates, J. R. d., S. Speicher, P. R. Griffin, et al. (1993). "Peptide mass maps: a highly informative approach to protein identification." Anal Biochem **214**(2): 397-408.
- Zeng, L. W. and R. S. Singh (1993). "A combined classical genetic and high resolution two-dimensional electrophoretic approach to the assessment of the number of genes affecting hybrid male sterility in *Drosophila simulans* and *Drosophila sechellia*." Genetics **135**(1): 135-47.