
9. References

- Afanassiev V, Hanemann V and Wolf S, Preparation of DNA and protein micro arrays on glass slides coated with an agarose film. *Nucleic Acids Res.* 2000, 28, e66.
- Alberola TM, Garcia-Martinez J, Antunez O, Viladevall L, Barcelo A, Arino J and Perez-Ortin JE. A new set of DNA macrochips for the yeast *Saccharomyces cerevisiae*: features and uses. *Int. Microbiol.*, 2004, 7(3),199-206.
- Allawi HT and SantaLucia JJ. Thermodynamics and NMR of internal G:T mismatches in DNA. *Biochemistry*, 1997, 36, 10581–10594.
- Bains, W. & Smith, G. A novel method for nucleic acid sequence determination. *J. Theor. Biol.* 1988. 135, 303–307.
- Bancroft DR, O'Brien JK, Guerasimova A and Lehrach H, Simplified handling of high-density genetic filters using rigid plastic laminates, *Nucl. Acids Res.* 1997 25: 4160-4161.
- Bauer O, Janitz M, Guerasimova A, Herwig R, Lehrach H and Radelof U. In: Lorkowski S and Cullen P, Editors, *Analysing Gene Expression: A Handbook of Methods*, Wiley-VCH, Weinheim (2002).
- Bilitewski U, Genrich M, Kadow S & Mersal G. Biochemical analysis with microfluidic systems. *Anal. Bioanal. Chem.* 2003, 377, 556–569.
- Bowtell DD. Options available--from start to finish--for obtaining expression data by microarray. *Nat Genet.* 1999; 21(1 Suppl): 25-32.
- Braasch DA and Corey DR, Locked nucleic acid (LNA): fine-tuning the recognition of DNA and RNA. *Chem Biol* 2001, 8(1), 1–7.
- Braslavsky I, Hebert B, Kartalov E and Quake SR. Sequence information can be obtained from single DNA molecules. *Proc. Natl. Acad. Sci. USA.* 2003,100, 3960–3964.
- Brenner S, Johnson M, Bridgham J, Golda G, Lloyd DH, Johnson D, Luo S, McCurdy S, Foy M, Ewan M, Roth R, George D, Eletr S, Albrecht G, Vermaas E, Williams SR, Moon K, Burcham T, Pallas M, DuBridge RB, Kirchner J, Fearon K, Mao J, Corcoran K. Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays. *Nat Biotechnol.* 2000; 18(6):630-634.

- Broude NE, Sano T, Smith CL and Cantor CR. Enhanced DNA sequencing by hybridization, *Proc Natl Acad Sci U S A*. 1994; 91(8): 3072-3076.
- Cantor, C. R., Mirzabekov, A. & Southern, E. Report on the sequencing by hybridisation workshop. *Genomics*. 1992, 13, 1378–1383
- Cardullo RA, Agrawal S, Flores C, Zamecnik PC, Wolf DE. Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer. *Proc Natl Acad Sci U S A*. 1988; 85(23): 8790-8794.
- Chen JJ, Wu R, Yang PC, Huang JY, Sher YP, Han MH, Kao WC, Lee PJ, Chiu TF, Chang F, Chu YW, Wu CW, Peck K, Profiling expression patterns and isolating differentially expressed genes by cDNA microarray system with colorimetry detection, *Genomics*. 1998, 51, 313–324.
- Church GM & Gilbert W. Genomic sequencing. *Proc. Natl Acad. Sci. USA* 1983, 81, 1991–1995.
- Clark MD, Hennig S, Herwig R, Clifton SW, Marra MA, Lehrach H, Johnson SL, Group tW, WU-GSCnEST Group. An Oligonucleotide Fingerprint Normalized and Expressed Sequence Tag Characterized Zebrafish cDNA Library. *Genome Res*. 2001; 11: 1594-1602.
- Clegg RM. Fluorescence resonance energy transfer. *Curr Opin Biotechnol*. 1995; 6(1): 103-110.
- Costa JM, Ernault P, Olivi M, Gaillon T, Arar K. , Chimeric LNA/DNA probes as a detection system for real-time PCR. *Clin Biochem*. 2004; 37(10): 930-932.
- Cox WG, Beaudet MP, Agnew JY, Ruth JL, Possible sources of dye-related signal correlation bias in two-color DNA microarray assays. *Anal Biochem*. 2004, 331(2): 243-254.
- Craig, A., Nizetic, D., Hoheisel, J. D., Zehetner, G. & Lehrach, H. Ordering of cosmid clones covering the herpes simplex virus type I (HSV-I) genome: a test case for fingerprinting by hybridisation. *Nucleic Acids Res*. 1990. 18, 2653–2660.
- Crocitto LE, Korn D, Kretzner L, Shevchuk T, Blair SL, Wilson TG, Ramin SA, Kawachi MH, Smith SS. Prostate cancer molecular markers GSTP1 and hTERT in expressed prostatic secretions as predictors of biopsy results. *Urology*, 2004, 64, 821–825

- Dahlgren C, Wahlestedt C, Thonberg H, No induction of anti-viral responses in human cell lines HeLa and MCF-7 when transfecting with siRNA or siLNA, *Biochem Biophys Res Commun.* 2006; 341(4): 1211-1217.
- Didenko VV. DNA probes using fluorescence resonance energy transfer (FRET): designs and applications. *Biotechniques.* 2001;31:1106–1116. 1118, 1120–1121.
- Diehl F, Beckmann B, Kellner N, Hauser NC, Diehl S, Hoheisel JD, Manufacturing DNA microarrays from unpurified PCR products, *Nucl. Acids Res.* 2002 30: e79.
- Drmanac R and Crkvenjakov R. 1987. Yugoslav Patent Appl. 570.
- Drmanac R, Labat I, Brukner I & Crkvenjakov R. Sequencing of megabase plus DNA by hybridisation: theory of the method. *Genomics.* 1989, 4, 114–128.
- Drmanac R, Strezoska Z, Labat I, Drmanac S, Crkvenjakov R. Reliable hybridization of oligonucleotides as short as six nucleotides. *DNA Cell Biol.* 1990; 9(7): 527-534.
- Drmanac R, Drmanac S, Labat I, Crkvenjakov R, Vicentric A, and Gemmell A. Sequencing by hybridization: towards an automated sequencing of one million M13 clones arrayed on membranes. *Electrophoresis,* 1992, 13: 566-573.
- Drmanac R, Drmanac S, Baier J, Chui G, Coleman D, Diaz R, Gietzen D, Hou A, Jin H, Ukrainczyk T, Xu C. DNA sequencing by hybridization with arrays of samples or probes. *Methods Mol. Biol.* 2001, 170, 173–179.
- Drmanac S, Stavropoulos NR, Labat I, Vonau J, Hauser B, Soares MB and Drmanac R, Gene-representing cDNA clusters defined by hybridization of 57,419 clones from infant brain libraries with short oligonucleotide probes, *Genomics,* 1996, 37(1), 29-40.
- Drmanac S, Kita D, Labat I, Hauser B, Schmidt C, Burczak JD, Drmanac R. Accurate sequencing by hybridization for DNA diagnostics and individual genomics, *Nat. Biotechnol.* 1998, 16, 54–58.
- Fodor SPA, Rava RP, Huang XC, Pease AC, Holmes CP and Adams CL. Multiplexed biochemical assays with biological chips. *Nature,* 1993, 364, 555–556.
- Franssen-van Hal NL, Vorst O, Kramer E, Hall RD, Keijer J., Factors influencing cDNA microarray hybridization on silylated glass slides. *Anal Biochem.* 2002; 308(1): 5-17.

-
- Fu DJ, Tang K, Braun A, Reuter D, Darnhofer-Demar B, Little DP, O'Donnell MJ, Cantor CR and Koster H. Sequencing exons 5 to 8 of the p53 gene by MALDI-TOF mass spectrometry. *Nat Biotechnol.* 1998; 16(4): 381-384.
- Green A, Roopra A, Vaudin M. Direct single stranded sequencing from agarose of polymerase chain reaction products. *Nucleic Acids Res.* 1990, 18, 6163-6164.
- Gruber HJ, Hahn CD, Kada G, Riener CK, Harms GS, Ahrer W, Dax TG, et al. Anomalous fluorescence enhancement of Cy3 and Cy3.5 versus anomalous fluorescence loss of Cy5 and Cy7 upon covalent linking to IgG and noncovalent binding to avidin. *Bioconjug Chem.* 2000. 11:696–704
- Guerasimova A, Ivanov I and Lehrach H, A method of one-step enzyme labelling of short oligonucleotide probes for filter hybridization, *Nucl. Acids Res.* 1999 27: 703-705.
- Guerasimova A, Nyarsik L, Girnus I, Steinfath M, Wruck W, Griffiths H, Herwig R, Wierling C, O'Brien J, Eickhoff H, Lehrach H, Radelof U. New tools for oligonucleotide fingerprinting. *Biotechniques*, 2001, 31(3), 490-495.
- Guerasimova A, Nyarsik L, Liu JP, Schwartz R, Lange M, Lehrach H, Janitz M. Liquid-based hybridization assay with real-time detection in miniaturized array platforms. *Biomol. Eng.*, 2006, 23(1), 35-40.
- Gunderson, K. L., Huang, X. C., Morris, M. S., Lipschutz, R.J., Lockhart, D. J., Chee, M. S., Mutation Detection by Ligation to Complete n-mer DNA Arrays *Genome Res.* 1998, 8, 1142–1153.
- Ha T, Enderle Th, Ogletree DF, Chemla DS, Selvin PR, and Weiss S. Probing the interaction between two single molecules: Fluorescence resonance energy transfer between a single donor and a single acceptor. *PNAS*, 1996; 93: 6264-6268.
- Hauser NC, Vingron M, Scheideler M, Krems B, Hellmuth K, Entian KD and Hoheisel JD. Transcriptional profiling on all open reading frames of *Saccharomyces cerevisiae*. *Yeast.* 1998. 14:1209-1221.
- Herwig R, Poustka AJ, Muller C, Bull C, Lehrach H, O'Brien J. Large-Scale Clustering of cDNA-Fingerprinting Data, *Genome Research*, 1999, 9(11), 1093-1105.

- Herwig R, Schmitt AO, Steinfath M, O'Brien J, Seidel H, Meier-Ewert S, Lehrach H and Radelof U. Information theoretic probe selection for hybridization experiments, *Bioinformatics*, 2000, 16, 890-898.
- Herwig R, Schulz B, Weisshaar B, Hennig S, Steinfath M, Drungowski M, Stahl D, Wruck W, Menze A, O'Brien J, Lehrach H, Radelof U. Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes. *Plant J.* 2002; 32: 845-857.
- Higuchi RG and Ochman H. Production of single-stranded DNA templates by exonuclease digestion following the polymerase chain reaction. *Nucleic Acids Res.* 1989 Jul 25; 17(14): 5865.
- Hoheisel JD, Lennon GG, Zehetner G, Lehrach H. 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.* 1991; 220: 903-914.
- Holloway B, Erdman DD, Durigon EL, Murtagh JJ Jr., An exonuclease-amplification coupled capture technique improves detection of PCR product, *Nucl. Acids Res.* 1993 21: 3905-3606.
- Hong BJ, Sunkara V and Park JW, DNA microarrays on nanoscale-controlled surface, *Nucleic Acids Res* 2005, 33, e106.
- Hornberg JJ, de Haas RR, Dekker H, Lankelma J., Analysis of Multiple Gene Expression Array Experiments after Repetitive Hybridizations on Nylon Membranes, *BioTechniques* 2002, 33(1), 108-117.
- Howell WM. Detection of DNA hybridization using induced fluorescence resonance energy transfer. *Methods Mol Biol.* 2006; 335: 33-41.
- Howell WM, Jobs M, Brookes AJ. iFRET: an improved fluorescence system for DNA-melting analysis. *Genome Res.* 2002 ; 12(9):1401-1407.
- Howell WM, Jobs M, Gyllensten U, Brookes AJ. Dynamic allele-specific hybridization. A new method for scoring single nucleotide polymorphisms. *Nat Biotechnol.* 1999; 17(1): 87-88.
- Jacobsen N, Bentzen J, Meldgaard M, Jakobsen MH, Fenger M, Kauppinen S, Skouv J. LNA-enhanced detection of single nucleotide polymorphisms in the apolipoprotein E. *Nucleic Acids Res.* 2002, 30. e100.

- Jepsen JS, Sørensen MD, Wengel J. Locked nucleic acid: a potent nucleic acid analog in therapeutics and biotechnology. *Oligonucleotides*. 2004; 14(2):130-146.
- Jiang F & Wang Z. Identification of androgen-responsive genes in the rat ventral prostate by complementary deoxyribonucleic acid subtraction and microarray. *Endocrinology*, 2003, 14, 1257-1265.
- Jobs M, Howell WM, Stromqvist L, Mayr T, Brookes AJ. DASH-2: flexible, low-cost, and high-throughput SNP genotyping by dynamic allele-specific hybridization on membrane arrays. *Genome Res*. 2003;13(5):916-24.
- Ju J, Ruan C, Fuller CW, Glazer AN & Mathies RA. Fluorescence Energy Transfer Dye-Labeled Primers for DNA Sequencing and Analysis. *Proc. Natl. Acad. Sci. USA*. 1995, 92, 4347-4351;
- Karkare S and Bhatnagar D, Promising nucleic acid analogs and mimics: characteristic features and applications of PNA, LNA, and morpholino, *Appl Microbiol Biotechnol*. 2006; 71(5):575-586.
- Kasianowicz JJ, Brandin E, Branton D and Deamer DW. Characterization of individual polynucleotide molecules using a membrane channel. *Proc. Natl. Acad. Sci. USA*. 1996, 93, 13770–13773.
- Khandurina J and Guttman A. Bioanalysis and microfluidic devices. *J. Chromatogr. A*. 2002, 943, 159–183.
- Koshkin A.A., Nielsen P., Meldgaard M., Rajwanshi V.K., Singh S.K., Wengel J. LNA (locked nucleic acid): an RNA mimic forming exceedingly stable LNA:LNA duplexes. *J. Am. Chem. Soc*. 1998;120:13252–13253.
- Koshkin AA, Singh SK, Nielsen P, Rajwanshi VK, Kurnar R, Meldgaard M, Olsen CE, Wengel J. LNA (locked nucleic acids): synthesis of the adenine, cytosine, guanine, 5-methylcytosine, thymine and uracil bicyclonucleoside monomers, oligomerization, and unprecedented nucleic acid recognition. *Tetrahedron*, 1998, 54, 3607–3630.
- Kruglyak L and Nickerson D A. Variation is the spice of life. *Nature Genet*. 2001, 27, 234–236.
- Kurreck J, Wyszko E, Gillen C, Erdmann VA. Design of antisense oligonucleotides stabilized by locked nucleic acids. *Nucleic Acids Res*. 2002, 30, 1911–1918.

-
- Latorra D, Arar K and Hurley JM, Design considerations and effects of LNA in PCR primers. *Mol Cell Probes*. 2003; 17(5): 253-259.
- Lennon, G.G. and Lehrach, H. Hybridisation analyses of arrayed cDNA libraries. *Trends Genet*. 1991, 7, 314-317.
- Letertre C, Perelle S, Dilasser F, Arar K and Fach P. Evaluation of the performance of LNA and MGB probes in 5'-nuclease PCR assays. *Mol. Cell Probes*, 2003, 17:307-311.
- Livshits MA and Mirzabekov AD, Theoretical analysis of the kinetics of DNA hybridization with gel-immobilized oligonucleotides. *Biophys. J*. 1996, 71, 2795–2801.
- Maier E, Meier-Ewert S, Ahmadi AR, Curtis J, Lehrach H. Application of robotic technology to automated sequence fingerprint analysis by oligonucleotide hybridisation. *J. Biotechnol*. 1994; 35: 191-203.
- Maskos U. and Southern, E.M. Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised in situ. *Nucleic Acids Res.*, 1992, 20, 1679–1684.
- McTigue PM, Peterson RJ, Kahn JD, Sequence-Dependent Thermodynamic Parameters for Locked Nucleic Acid (LNA)-DNA Duplex Formation, *Biochemistry*, 2004, 43 (18), 5388 -5405.
- Meier-Ewert S, Maier E, Ahmadi A, Curtis J and Lehrach H. An automated approach to generating expressed sequence catalogues. *Nature*, 1993, 361, 375–376.
- Meier-Ewert S, Lange J, Gerst H, Herwig R, Schmitt A, Freund J, Elge T, Mott R, Herrmann B, Lehrach H. Comparative gene expression profiling by oligonucleotide fingerprinting. *Nucleic Acids Res*. 1998; 26: 2216-2223.
- Milosavljevic A., DNA sequence recognition by hybridization to short oligomers, *J Comput Biol*. 1995; 2(2): 355-370.
- Milosavljevic A, Zeremski M, Strezoska Z, Grujic D, Dyanov H, Batus S, Salbego D, Paunesku T, Soares MB and Crkvenjakov R. Discovering distinct genes represented in 29,570 clones from infant brain cDNA libraries by applying sequencing by hybridization methodology. *Genome Res*. 1996, 6: 132–141.

- Milosavljevic A, Savkovic S, Crkvenjakov R, Salbego D, Serrato H, Kreuzer H, Gemmell A, Batus S, Grujic D, Carnahan S, Paunesku T, Tepavcevic J., DNA sequence recognition by hybridization to short oligomers: experimental verification of the method on the E. coli genome, *Genomics*, 1996, 37, 77–86.
- Mitra RD, Shendure J, Olejnik J, Olejnik EK and Church GM. Fluorescent in situ sequencing on polymerase colonies. *Anal. Biochem.* 2003, 320, 55–65.
- Nielsen PE, Egholm M, Berg RH and Buchardt O. Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide. *Science*, 1991(254): 1497-1500
- Nikiforov TT, Rendle RB, Kotewicz ML and Rogers YH. The use of phosphorothioate primers and exonuclease hydrolysis for the preparation of single-stranded PCR products and their detection by solid-phase hybridization. *PCR Methods Appl.* 1994, 3, 285–291.
- Obika S, Nanbu D, Hari Y, Andoh JJ, Morio KI, Doi T and Imanishi T, Stability and structural features of the duplexes containing nucleoside analogs with a fixed N-type conformation. 2'-O, 4'-C methylene ribonucleosides. *Tetrahedron Lett* 1998, 39: 5401-5404
- Orum H, Jakobsen MH, Koch T, Vuust J and Borre M B. Detection of the factor V Leiden mutation by direct allele-specific hybridization of PCR amplicons to photo-immobilized locked nucleic acids. *Clin. Chem.* 1999, 45, 1898–1905.
- Orom UA, Kauppinen S, Lund AH. LNA-modified oligonucleotides mediate specific inhibition of microRNA function. *Gene*. 2006;372: 137-141.
- Pe'er I, Arbili N, Liu Y, Enck C, Gelfand CA and Shamir R, Advanced computational techniques for re-sequencing DNA with polymerase signaling assay arrays. *Nucleic Acids Res.* 2003, 31(19), 5667–5675.
- Petersen M and Wengel J. LNA: a versatile tool for therapeutics and genomics, *Trends in Biotechnology*, 2003, 21(2), 74-81.
- Poustka A, Pohl T, Barlow DP, Zehetner G, Craig A, Michiels F, Ehrich E, Frischauf AM, Lehrach H.. Molecular approaches to mammalian genetics. *Cold Spring Harb. Symp. Quant. Biol.* 1986, 51, 131–139.

- Poustka AJ, Herwig R, Krause A, Hennig S, Meier-Ewert S, Lehrach H. Toward the Gene Catalogue of Sea Urchin Development: The Construction and Analysis of an Unfertilized Egg cDNA Library Highly Normalized by Oligonucleotide Fingerprinting. *Genomics* 1999; 59(2): 122-133.
- Prince JA, Feuk L, Howell WM, Jobs M, Emahazion T, Blennow K, Brookes AJ. Robust and accurate single nucleotide polymorphism genotyping by dynamic allele-specific hybridization (DASH): design criteria and assay validation. *Genome Research*. 2001, 11(1), 152-162.
- Radelof U, Hennig S, Seranski P, Steinfath M, Ramser J, Reinhardt R, Poustka A, Francis F, Lehrach H. Preselection of shotgun clones by oligonucleotide fingerprinting: an efficient and high throughput strategy to reduce redundancy in large-scale sequencing projects. *Nucleic Acids Res.* 1998; 26(23): 5358-5364.
- Ronaghi M, Uhlen M and Nyren P. A Sequencing Method Based on Real-Time Pyrophosphate. *Science*, 1998, 281, 363-365.
- Roskey MT, Juhasz P, Smirnov IP, Takach EJ, Martin SA and Haff LA. DNA sequencing by delayed extraction-matrix-assisted laser desorption/ionization time of flight mass spectrometry. *Proc. Natl. Acad. Sci. USA.* 1996, 93, 4724-4729.
- SantaLucia JJ. A unified view of polymer, dumbbell, and oligonucleotide DNA nearest-neighbor thermodynamics. *Proc. Natl Acad. Sci. USA*, 1998, 95, 1460–1465.
- Sauer S, Lange BM, Gobom J, Nyarsik L, Seitz H, Lehrach H. Miniaturization in functional genomics and proteomics, *Nat Rev Genet.* 2005; 6(6): 465-476.
- Schena M, Shalon D, Davis RW and Brown PO. Quantitative monitoring of gene expression patterns with a complementary DNA microarray. *Science*, 1995, 270, 467–470.
- Schena M, Shalon D, Heller R, Chai A, Brown PO and Davis RW. Parallel human genome analysis: microarray-based expression monitoring of 1000 genes. *Proc. Natl Acad. Sci. USA*, 1996, 93, 10614–10619.
- Schulz RG and Gryaznov SM. Oligo-2'-fluoro-2'-deoxynucleotide N3'-->P5' phosphoramidates: synthesis and properties. *NAR.* 1996, 24: 2966-2973.
- Selvin PR. The renaissance of fluorescence resonance energy transfer. *Nat Struct Biol.* 2000; 7(9): 730-734.

- Simeonov A. and Nikiforov TT. Single nucleotide polymorphism genotyping using short, fluorescently labeled locked nucleic acid (LNA) probes and fluorescence polarization detection. *Nucleic Acids Res.* 2002. 30:e91.
- Smith LM, Sanders JZ, Kaiser RJ, Hughes P, Dodd C, Connell CR, Heiner C, Kent SB, Hood LE. Fluorescence detection in automated DNA sequence analysis. *Nature.* 1986; 321(6071):674-679.
- Southern EM. 1988. U.K. Patent Appl. GB8810400.
- Southern EM, Maskos U and Elder JK. Analyzing and comparing nucleic acid sequences by hybridization to arrays of oligonucleotides: Evaluation using experimental models. *Genomics.* 1992, 13, 1008–1017.
- Southern EM, Case-Green SC, Elder JK, Johnson M, Mir KU, Wang L, Williams JC, Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids. *Nucleic Acids Res,* 1994, 22, 1368-1373.
- Stahl W. What is the future of high throughput screening?. *J Biomol Screening.* 1999, 4 117–118.
- Stillman BA and Tonkinson JL. Expression Microarray Hybridization Kinetics Depend on Length of the Immobilized DNA but Are Independent of Immobilization Substrate. *Anal. Biochem.,* 2001, 295(2), 149-157.
- Takakusa, H.; Kikuchi, K.; Urano, Y.; Sakamoto, S.; Yamaguchi, K.; Nagano, T. Design and Synthesis of an Enzyme-Cleavable Sensor Molecule for Phosphodiesterase Activity Based on Fluorescence Resonance Energy Transfer. *J. Am. Chem. Soc.* 2002, 124, 1653-1657.
- Ulf B. Gyllensten and Henry A. Erlich, Generation of Single-Stranded DNA by the Polymerase Chain Reaction and Its Application to Direct Sequencing of the HLA-DQA Locus, *PNAS* 1988 85: 7652-7656.
- Van Aerschot A, Verheggen I, Hendrix C and Herdewijn P. 1,5-Anhydrohexitol nucleic acids, a new promising antisense construct. *Angew Chem Int Ed* 1995, 34: 1338–1339.
- Van Oss CJ, Good RJ, Chaudhury MK. Mechanism of DNA (Southern) and protein (Western) blotting on cellulose nitrate and other membranes. *J. Chromatogr.* 1987, 391, 53–65.

- van 't Veer LJ, Dai H, van de Vijver MJ, He YD, Hart AA, Mao M, Peterse HL, van der Kooy K, Marton MJ, Witteveen AT, Schreiber GJ, Kerkhoven RM, Roberts C, Linsley PS, Bernardis R, Friend SH.. Gene expression profiling predicts clinical outcome of breast cancer. 1: *Nature*. 2002; 415(6871): 530-536.
- Vollrath D & Davis RW. Resolution of DNA molecules greater than 5 megabases by contour-clamped homogeneous electric fields. *Nucl. Acid Res.* 1987, 15, 7865–7876.
- Wang D, Urisman A, Liu YT, Springer M, Ksiazek TG, Erdman DD, Mardis ER, Hickenbotham M, Magrini V, Eldred J, Latreille JP, Wilson RK, Ganem D, DeRisi JL. Viral discovery and sequence recovery using DNA microarrays. *PLoS Biol.* 2003, 1, 257–260.
- Wengel J, Synthesis of 3'-C- and 4'-C-branched oligonucleotides and the development of locked nucleic acid (LNA). *Acc. Chem. Res.* 1998, 32, 301–310.
- Willse A, Straub TM, Wunschel SC, Small JA, Call DR, Daly DS, Chandler DP. Quantitative oligonucleotide microarray fingerprinting of *Salmonella enterica* isolates, *Nucl. Acids Res.* 2004. 32: 1848-1856.
- Wittwer CT, Herrmann MG, Moss AA, Rasmussen RP. Continuous fluorescence monitoring of rapid cycle DNA amplification. *Biotechniques.* 1997; 22(1):130-1, 134-138.
- Yoshihiro Takeda, Fumitaka Mafuné and Tamotsu Kondow. Self-organization of histone-jointed three-dimensional DNA network. *Materials Science and Engineering: C.* 2004, 24(6-8), 769-773.