

ANDRÁS GUTTMAN, PUBLICATIONS, peer reviewed**1980-1987**

1. L.Bencze, V.Galamb, **A.Guttman**, Gy.Pályi and A.Magini, The Reaction of Aluminum Trichloride with Mixed-Ligand Transition Metal Carbonyls, *Atti. Acad. Nat. Dei. Lincei. Rend. Cl. Sci. Fis. Mat.e. Nat.*, 68 (1980) 437-447.
2. **A.Guttman**, M.Sasvári-Székely, M.Staub and F.Antoni, "In Situ" Detection of Deoxythymidine Kinase Activity on Polyacrylamide Slab Gel, *Izotóptechnika*, 24 (1981) 109-118.
3. **A.Guttman**, L.Fehér and K.Magyar, A Sensitive Filmdetection Method for Quantitative Determination of 3-H Labeled Compounds on Thin-Layer Containing Ion-Exchanger, *Acta Biochim. Biophys. et Acad. Sci. Hung.* 17 (1982) 175-183.
4. M.Sasvári-Székely, M.Staub, **A.Guttman**, V.Törcsvári and F.Antoni, Pyrimidine Salvage Enzymes in Human Tonsil Lymphocytes. I. Separation and Properties of Thymidine Kinase Isoenzymes, *Acta Biochim. et Acad. Sci. Hung.* 20 (1985) 163-172.
5. **A.Guttman**, J.Nagy and K.Magyar, The Metabolism of EGYT-475, a New Antidepressant Agent in Rats, *Pol. J. Pharmacol. Pharm.*, 39 (1987) 123-128.
6. M.Fonyó, **A.Guttman** and K.Magyar, Species Differences in the in vivo Metabolism of EGYT-475, a New Antidepressant Agent, *Pol. J. Pharmacol. Pharm.* 39 (1987) 129-134.

1988

7. **A.Guttman**, A.Paulus, A.S.Cohen, N.Grinberg and B.L.Karger, The Use of Complexing Agents for Selective Separation in High Performance Capillary Electrophoresis: Chiral Resolution via Cyclodextrins Incorporated within Polyacrylamide Gel Columns, *J. Chromatogr.*, 448 (1988) 41-53.
8. A.S.Cohen, D.R.Najarian, A.Paulus, **A.Guttman**, J.A.Smith and B.L.Karger, Rapid Separations and Purification of Oligonucleotides by High Performance Capillary Gel Electrophoresis, *Proc. Natl. Acad. Sci. U.S.A.*, 85 (1988) 9660-9663.
9. **A.Guttman**, A.Paulus, A.S.Cohen, B.L.Karger and H.Rodriguez, W.S.Hancock, High Performance, Capillary Gel Electrophoresis: High Resolution and Micropreparative Applications, *Electrophoresis'88, Proceedings* (Ed.: C.Schafer-Nielsen) VCH, Weinheim, Germany, (1988) pp.151-159.

1989

10. B.L.Karger, A.S.Cohen and **A.Guttman**, Capillary Electrophoresis in the Biological Sciences, *J. Chromatogr.*, 492 (1989) 585-614.
11. R.J.Nelson, A.Paulus, A.S.Cohen, **A.Guttman** and B.L.Karger, Use of Peltier Thermoelectric Devices to Control Column Temperature in High Performance Capillary Electrophoresis, *J. Chromatogr.* 480 (1989) 111-127.

1990

12. **A.Guttman**, A.S.Cohen, D.N.Heiger and B.L.Karger, Analytical and Micropreparative Ultrahigh Resolution of Oligonucleotides by Polyacrylamide Gel High Performance Capillary Electrophoresis, *Analytical Chemistry*, 62 (1990) 137-141.
13. **A.Guttman**, E.Sperling, L.Fehér and K.Magyar, A Sensitive Film Detection Method for the Determination of 3-H Labeled Compounds in Planar Ion-Exchange Chromatography, *J.Planar Chromatography*, 3 (1990) 527-530.

1991

14. **A.Guttman** and N.Cooke, Effect of Temperature on the Separation of DNA Restriction Fragments in Capillary Gel Electrophoresis, *J.Chromatogr.* 559 (1991) 285-294.
15. **A.Guttman** and N.Cooke, Capillary Gel Affinity Electrophoresis. Use of Ethidium Bromide as a Soluble Complexing Agent for the Polyacrylamide Capillary Gel Electrophoresis of DNA Fragments, *Analytical Chemistry*, 63 (1991) 2038-2042.
16. **A.Guttman** and N.Cooke, Denaturing Capillary Gel Electrophoresis, *American Biotechnology Laboratory*, Vol 9, No 4 (1991) 10.

1992

17. K.Ganzler, K.S.Greve, A.S.Cohen, B.L.Karger and **A.Guttman**, N.Cooke, High Performance Capillary Electrophoresis of SDS-protein Complexes Using UV-transparent Polymer Networks, *Analytical Chemistry*, 64 (1992) 2665-2671.
18. **A.Guttman**, Effect of Operation Variables on the Separation of DNA Molecules in Capillary Polyacrylamide Gel Electrophoresis, *Applied and Theoretical Electrophoresis*, 3 (1992) 91-96.
19. **A.Guttman**, R.J.Nelson and N.Cooke, Prediction of Migration Behavior of Oligonucleotides in Capillary Gel Electrophoresis, *J.Chromatogr.*, 593 (1992) 297-303.
20. **A.Guttman**, A. Arai and K. Magyar, Influence of the pH on the Migration Properties of Oligonucleotides in Capillary Gel Electrophoresis, *J. Chromatogr.*, 608 (1992) 175-179.
21. **A.Guttman** B. Wanders and N.Cooke, Enhanced Separation of DNA Restriction Fragments by Capillary Gel Electrophoresis Using Field Strength Gradients, *Analytical Chemistry*, 64 (1992) 2348-2351.

1993

22. **A.Guttman**, J.A.Nolan and N.Cooke, SDS Capillary Gel Electrophoresis of Proteins, *J.Chromatogr.*, 632 (1993) 171-175.
23. **A.Guttman**, J.Horvath and N.Cooke, Influence of Temperature on the Sieving Effect of Different Polymer Matrices in Capillary SDS Gel Electrophoresis of Proteins, *Analytical Chemistry*, 65 (1993) 199-203.
24. **A.Guttman**, P.Shieh and N.Cooke, P/ACE SDS-Capillary Gel Electrophoresis of Proteins, *American Laboratory*, 2 (1993) 21.
25. **A.Guttman**, J.A.Nolan, P.Shieh and N.Cooke, Protein Gel Analysis by Capillary Electrophoresis, *American Biotechnology Laboratory*, Vol 11, No9, (1993) 36-38.

1994

26. **A.Guttman**, P.Shieh, D.Hoang, J.Horvath and N.Cooke, Effect of Operational Variables on the Separation of Proteins by Capillary SDS Gel Electrophoresis, *Electrophoresis*, 15 (1994) 221-224.
27. **A.Guttman** and N.Cooke, Practical Aspects of Chiral Separation of Pharmaceuticals by Capillary Electrophoresis: I. Separation Optimization, *J.Chromatogr.*, 680 (1994) 157-162.
28. P.Shieh, D.Hoang, **A.Guttman** and N.Cooke, Capillary SDS Gel Electrophoresis of Proteins: I. Reproducibility and Stability, *J.Chromatogr.*, 676 (1994) 219-226.
29. **A.Guttman** and N.Cooke, Practical Aspects of Chiral Separation of Pharmaceuticals by Capillary Electrophoresis: II. Quantitation and Detection linearity, *J.Chromatogr.*, 685 (1994) 155-159.
30. **A.Guttman**, P.Shieh, J.Lindahl and N.Cooke, Capillary SDS Gel Electrophoresis of Proteins: II. Automated Ferguson Analysis, *J.Chromatogr.*, 676 (1994) 227-231.
31. K.Benedek and **A.Guttman**, Ultrafast High Performance Capillary SDS Gel Electrophoresis of Proteins, *J.Chromatogr.*, 680 (1994) 375-381.
32. **A.Guttman** and J.A.Nolan, Comparison of the Separation of Proteins by SDS Slab Gel Electrophoresis and Capillary SDS Gel Electrophoresis, *Anal.Biochem.*, 221 (1994) 285-289.
33. M.J. van der Schans, J.Allen, B.Wanders and **A.Guttman**, Effects on Sample Matrix and Injection Plug on DNA Migration in Capillary Gel Electrophoresis, *J.Chromatogr.*, 680 (1994) 511-516.
34. **A.Guttman**, N.Cooke and C.Starr, Capillary Electrophoresis Separation of Oligosaccharides: I. Effect of Operational Variables, *Electrophoresis*, 15 (1994) 1518-1522.
35. C.Starr, S.Striepeke and **A.Guttman**, Fluorophore-Assisted Capillary Electrophoresis for the Analysis of Carbohydrates in Biotechnology and Medicine, *Biomedical Products*, 19 (1994) 24-25.

1995

36. **A.Guttman**, Novel Methods Development Scheme for Capillary Electrophoresis Separation of Enantiomers, *Electrophoresis*, 16 (1995) 1900-1905.
37. **A.Guttman**, On the Separation Mechanism of Capillary SDS Gel Electrophoresis of Proteins, *Electrophoresis*, 16 (1995) 611-616.

38. **A.Guttman**, C.Jurado, S.Brunet and N.Cooke, Rapid Chiral Separation Methods Development Scheme by Cyclodextrin Mediated Capillary Electrophoresis Separation for Acidic and Basic Compounds., *Chirality*, 7 (1995) 409-414.
39. **A.Guttman** and H.E.Schwartz, Artifacts Related to Sample Introduction in Capillary Gel Electrophoresis Effecting Separation Performance and Quantitation, *Analytical Chemistry*, 67 (1995) 2279-2283.
40. **A.Guttman** and C.Starr, Carbohydrate Profiling, Comparison between PAGE and CE, *Electrophoresis*, 16 (1995) 993-997.
41. **A.Guttman** and T.Pritchett, Capillary Gel Electrophoresis Separation of High-mannose Type Oligosaccharides derivatized by 1-aminopyrene-3,6,8-trisulfonic acid *Electrophoresis*, 16 (1995) 1906-1911.
42. A.Aumatell and **A.Guttman**, Ultra Fast Chiral Separation of Basic Drugs by Capillary Electrophoresis., *J.Chromatogr.* 717 (1995) 229-234.
43. **A.Guttman**, A.Aumatell, S.Brunet and N.Cooke, Cyclodextrin Array Chiral Analysis, *American Laboratory*, Vol 27, No 18 (1995) 18-22.

1996

44. **A.Guttman**, Fu-Tai,A.Chen and Ramon A. Evangelista, Separation of APTS Labeled Asparagine-Linked Fetuin Glycans by Capillary Gel Electrophoresis, *Electrophoresis*, 17 (1996) 412-417.
45. **A.Guttman**, S.Brunet and N.Cooke, Capillary Electrophoresis Separation of Enantiomers by Cyclodextrin Array Chiral Analysis, *LC.GC*, 14 (1996) 32-42.
46. **A.Guttman**, A.Chen, R.Evangelista and N.Cooke, High Resolution Capillary Gel Electrophoresis of Reducing Oligosaccharides Labeled with 1-Aminopyrene-3,6,8-trisulfonate (APTS), *Anal.Biochem.*, 233 (1996) 234-242
47. **A.Guttman**, S.Brunet and N.Cooke, Capillary Electrophoresis Separation of Enantiomers by Cyclodextrin Array Chiral Analysis, *LCGC International*, 9 (1996) 88-100.
48. **A.Guttman**, Edit Sperling and I.Mazsaroff, Performance and Economics in Micropreparative Capillary Electrophoresis of Oligosaccharides, *J.Liq.Chrom.*, 19 (1996) 1539-1549.
49. **A.Guttman**, Carbohydrate Profiling by Capillary Gel Electrophoresis, *Nature*, 380 (1996) 461-462.
50. **A.Guttman** and S.Herrick, Effect of the Quantity and Linkage Position of Mannose (α 1,2) Residues in Capillary Gel Electrophoresis of High Mannose Type Oligosaccharides, *Anal.Biochem.*, 235 (1996) 236-239.
51. **A.Guttman**, Capillary Electrophoresis Separation of Enantiomers (Reply) *LC.GC*, 14 (1996) 247.
52. R.Evangelista, **A.Guttman** and A.Chen, Acid-Catalyzed Reductive Amination of Reductive Oligosaccharides, *Electrophoresis*, 17 (1996) 347-351.
53. **A.Guttman**, Effect of the Temperature on the Peak Efficiency in Capillary Gel Electrophoresis, *Trends in Anal.Chem.*, 15 (1996) 194-198.
54. **A.Guttman** and E.Szoko, Capillary Gel Electrophoresis Separation of DNA Restriction Fragments in Discontinuous Buffer System, *J.Chromatogr.A*, 744 (1996) 321-324.
55. **A.Guttman**, S.Brunet and N.Cooke, Capillary Electrophoresis Fingerprinting of Carbohydrates in the Biopharmaceutical and Food/Beverage Industry. *LC.GC Magazine* 14 (1996) 788-792.
56. **A.Guttman**, Capillary SDS Gel Electrophoresis of Proteins (review) *Electrophoresis*, 17 (1996) 1333-1341.
57. R.Evangelista, A.Chen and **A.Guttman**, Reductive Amination of N-linked Oligosaccharides Using Organic Acid Catalysts, *J.Chromatogr.A*, 745 (1996) 273-280.

1997

58. **A.Guttman**, Analysis of Monosaccharide Composition by Capillary Electrophoresis *J.Chromatogr.A*, 763 (1997) 271-278.
59. **A.Guttman**, Multistructure Sequencing of N-linked Fetuin Glycans by Capillary Gel Electrophoresis and Enzyme Matrix Digestion, *Electrophoresis*, 18 (1997) 1136-1141.
60. **A.Guttman** and K.J.Ulfelder, Exoglycosidase Matrix Mediated Sequencing of a Complex Glycan Pool by Capillary Electrophoresis, *J.Chromatogr.A*, 781 (1997) 547-554.

61. H.Suzuki, O.Muller, **A.Guttman** and B.L.Karger, Analysis of 1-Aminopyrene-3,6,8-trisulfonate (APTS) Derivatized Oligosaccharides by Capillary Electrophoresis with Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry, *Analytical Chemistry*, 69 (1997) 4554-4559.
62. **A.Guttman**, Rehydratable Polyacrylamide Gels for Capillary Electrophoresis, *J.Liq.Chrom.&Rel.Technol.*, 21 (1998) 1249-1258.
63. M.Bathori, I.Mathu, and **A.Guttman**, Capillary Electrophoresis Analysis of Egdysteroids, *Chromatographia.*, 48 (1997) 145-148.

1998

64. P.Trost and **A.Guttman**, Fiber bundle based scanning detection system for automated DNA sequencing, *Analytical Chemistry*, 70 (1998) 3930-3935.
65. J.Hiebl, M.Blanka, **A.Guttman**, H.Kollmann, K.Leitner, G.Mayrhofer, F.Rovensky and K.Winkler, A Detailed Investigation of the Preparation of 2,7-diaminosuberic Acid and 2,5-diaminoadipic acid Derivatives Using Kolbe Electrolysis, *Tetrahedron*, 54 (1998) 2059-2074.
66. S.Cassel and **A.Guttman**, Membrane Mediated Sample Loading Method for Automated DNA Sequencing, *Electrophoresis*, 19 (1998) 1341-1346.
67. C.Barta, M.Sasvári-Székely and **A.Guttman**, Simultaneous analysis of various mutations on the 21-hydroxylase gene by multi-allele specific amplification (MASA) and capillary gel electrophoresis, *J.Chromatogr.A*, 817 (1998) 281-286.
68. **A.Guttman**, C. Barta, M.Szoke, M.Sasvári-Székely and H.Kalasz, Real time detection of allele specific PCR products by automated ultra-thin layer agarose gel electrophoresis, *J.Chromatogr. A*, 828 (1998) 481-487.
69. **A.Guttman** and K.Ulfelder, Separation of DNA by Capillary Electrophoresis, *Advances in Chromatography*, 38 (1998) 301-341.
70. **A.Guttman**, K.Benedek and H.Kalasz, On the Separation Parameters in DNA Sequencing by Capillary Gel Electrophoresis, *American Laboratory*, Vol 30, No 8 (1998) 63-66.

1999

71. **A.Guttman**, Automated DNA fragment analysis by high performance ultra-thin-layer agarose gel electrophoresis, *LC/GC Magazine*, 17 (1999) 1020-1026.
72. M.Szoke, M.Sasvari-Szekely and **A.Guttman**, Ultra-thin-layer agarose gel electrophoresis. I. Effect of the gel concentration and temperature on the separation of DNA fragments, *J.Chromatogr.A*, 830 (1999) 465-471.
73. M.Szoke, M.Sasvari-Szekely, Cs.Barta and **A.Guttman**, Human dopamine D₄ receptor allele genotyping by ultra thin agarose gel electrophoresis with To-Pro-3 complexation, *Electrophoresis*, 20 (1999) 497-501.
74. **A.Guttman**, Sample stacking during membrane mediated loading in automated DNA sequencing, *Analytical Chemistry*, 71 (1999) 3598-3602.
75. T. Lengyel and **A.Guttman**, Effect of linear polymer additives on the electroosmotic characteristics during agarose gel electrophoresis, *J.Chromatogr. A*, 853 (1999) 511-518.
76. **A.Guttman**, High performance ultra-thin-layer agarose gel electrophoresis, *Trends in Analytical Chemistry*, 18 (1999) 694-702.
77. T. Lengyel, M.Sasvari-Szekely and **A.Guttman**, High throughput genotyping of factor V Leiden mutation by ultra-thin-layer agarose gel electrophoresis, *J.Chromatogr. A*, 853 (1999) 519-525.

2000

78. **A.Guttman**, T.Lengyel, M.Szoke and M.Sasvari-Szekely, Ultra-thin-layer agarose gel electrophoresis, 2. Separation of DNA fragments by composite agarose – linear polymer matrices, *J.Chromatogr. A*, 871 (2000) 289-298.
79. M.Sasvari-Szekely, A.Gerstner, Zs.Ronai, M.Staub and **A.Guttman**, Rapid genotyping of factor V Leiden mutation using single tube bidirectional allele specific amplification and automated ultra-thin-layer agarose gel electrophoresis, *Electrophoresis*, 21 (2000) 816-821.

80. A.Gerstner, Zs.Csapo, M.Sasvari-Szekely and **A.Guttman**, Ultra-thin-layer SDS gel electrophoresis of Proteins. Effects of Gel composition and temperature on the separation of SDS-protein complexes, *Electrophoresis*, 21 (2000) 834-840.
81. Z.Csapo, A.Gerstner, M.Sasvari-Szekely and **A.Guttman**, Automated ultra-thin-layer SDS gel electrophoresis of proteins using non-covalent fluorescent labeling, *Analytical Chemistry*, 72 (2000) 2519-2525.
82. A.Gerstner, M.Sasvari-Szekely, H.Kalasz and **A.Guttman**, Sequencing difficult DNA templates using membrane mediated loading with hot sample application, *BioTechniques*, 28 (2000) 628-630.
83. Z.Ronai, **A.Guttman** and Z.Nemoda, M.Staub, H.Kalasz, M.Sasvari-Szekely, Rapid and Sensitive Genotyping of Dopamine D4 Receptor Tandem Repeats by Automated Ultra-thin-layer Gel Electrophoresis., *Electrophoresis*, 21 (2000) 2058-2061.
84. Z.Ronai and **A.Guttman**, Analytical and Micropreparative Capillary Gel Electrophoresis of DNA Fragments, *American Laboratory*, 32 (2000) 28-31.
85. **A.Guttman**, Z.Ronai, Z.Csapo, A.Gerstner, and M.Sasvari-Szekely, Rapid Analysis of Covalently and Non-covalently Fluorophore Labeled Proteins Using Ultrathin-layer Sodium Dodecylsulfate Gel Electrophoresis, *J.Chromatogr.A*, 894 (2000) 329-335.
86. **A.Guttman** and Z.Ronai, Ultra-thin-layer Gel Electrophoresis of Biopolymers, *Electrophoresis*, 21 (2000) 3952-3964.

2001

87. Z.Ronai, C.Barta, M.Sasvari-Szekely and **A.Guttman**, DNA Analysis on Electrophoretic Microchip: Effect of operational variables, *Electrophoresis*, 22 (2001) 294-299.
88. Z.Ronai, C.Barta, **A.Guttman**, K.Lakatos, J.Gervai, M.Staub and M.Sasvari-Szekely, Genotyping the -521CT Functional Polymorphism in the Promoter Region of the Dopamine D4 Receptor (DRD4) Gene by Agarose Gel Electrophoresis, *Electrophoresis*, 22 (2001) 1102-1105.
89. C.Barta, Z.Ronai, M.Sasvari-Szekely and **A.Guttman**, Rapid single nucleotide polymorphism analysis by primer extension and capillary electrophoresis using polyvinyl pyrrolidone matrix, *Electrophoresis*, 22 (2001) 779-782.
90. M.Theodoropoulou, C.Barta, M.Szoke, **A.Guttman**, M.Staub, T.Niederland, J.Solyom, G.Fekete, M.Sasvari, Prenatal Diagnosis of Steroid 21-hydroxylase Deficiency by Allele Specific Amplification, *Fetal Diagnosis and Therapy*, 16 (2001) 237-240.
91. **A.Guttman**, H.G.Gao, R.Haas, Rapid Quantitative Analysis of Mitochondrial DNA Heteroplasmy in Diabetics by Gel Microchip Electrophoresis, *Clinical Chemistry*, 47 (2001) 1469-1472.
92. C.Barta, Z.Ronai, Z.Nemoda, A.Szekely, E.Kovacs, M.Sasvari-Szekely and **A.Guttman**, Analysis of Dopamine D4 Receptor Gene Polymorphism using Microchip Electrophoresis, *J.Chromatogr.A*. 924 (2001) 285-290.
93. Z.Nemoda, Z.Ronai, A.Szekely, E.Kovacs, S.Shandrick, **A.Guttman** and M.Sasvari-Szekely, High Throughput Genotyping of Repeat Polymorphism in the Regulatory Region of Serotonin Transporter Gene by Gel Microchip Electrophoresis, *Electrophoresis* 22 (2001) 4008-4011.

2002

94. **A.Guttman**, Z.Csapo and D.Robbins, Rapid Two Dimensional Analysis of Proteins by Ultra-thin-layer Gel Electrophoresis, *Proteomics* 2 (2002) 469-474.
95. J.Khandurina and **A.Guttman**, Biochemical Analysis in Microfluidic Devices. Review, *J.Chromatogr.A*. 943 (2002) 159-183.
96. T.Chovan and **A.Guttman**, Microfabricated Devices in Biotechnology and Chemical Processing, *Trends in Biotechnology*, 20 (2002) 116-122.
97. S.Shandrick, Z.Ronai and **A.Guttman**, Ultra-fast Submicroliter PCR with Subsequent Gel Microchip Electrophoresis, *Electrophoresis*, 23 (2002) 591-595.
98. Z.Ronai, **A.Guttman**, Z.Nemoda, J.Gervai and M.Sasvári-Székely, Direct Haplotype Detection of Adjacent Polymorphic Sites in the Regulatory Region of the Dopamine D4 Receptor (DRD4) Gene, *Electrophoresis*, 23 (2002) 1512-1516.

99. J.Khandurina, T.Chovan and **A.Guttman**, Micropreparative Fraction Collection in Microfluidic Devices, *Anal.Chem.* 74 (2002) 1737-1740.
100. J.Khandurina and **A.Guttman**, Microchip based HTS analysis of combinatorial libraries, *Curr. Opin. Chem. Biol.* 6 (2002) 359-366
101. K.Boor, Z.Ronai, Z.Nemoda, P.Gasztner, M.Sasvari-Szekely, **A.Guttman** and H.Kalasz, Noninvasive Genotyping of Dopamine Receptor D4 (DRD4) using Nanograms of DNA from Substance-Dependent Patients. *Curr. Med. Chem.* 9 (2002) 793-797.
102. J.Khandurina, H.S.Chang, B.Wanders and **A.Guttman**, Automated High Throughput RNA Analysis by Capillary Electrophoresis, *BioTechniques*, 32 (2002) 1226-1230.
103. Z.Ronai, M.Sasvari-Szekely and **A.Guttman**, Miniaturized SNP Detection: Quasi-Solid Phase Restriction Fragment Length Polymorphism (RFLP) Analysis, *Nature Genetics (Technical Tips Online)*, 2002, 1: T02678.
104. J.Khandurina, H.S.Chang, B.Wanders, and **A.Guttman**, An Ultra fast Method to Evaluate RNA Quality, *P/ACE Setter*, 6 (2002) 4-5.
105. **A.Guttman**, Zsolt Ronai, Csaba Barta, Yu-Ming Hou, Xun Wang and Steven Briggs, Membrane Mediated Restriction Digestion and Consequent Analysis of DNA Fragments by Ultra-Thin-Layer Gel Electrophoresis, *Electrophoresis* 23 (2002) 1524-1530.
106. J.Khandurina, E.Legg, X.Wang and **A.Guttman**, Rapid automated agarose gel electrophoresis of dsDNA fragments on a commercial DNA sequencer. *BioTechniques*, 33 (2002) 1008-1014.
107. Z.Rónai, M.Sasvári-Székely, T.Chován and **A.Guttman**, The use of electrophoretic microchips for rapid DNA analysis, *Biokémia*, 26 (2002) 26-32.
108. J.Khandurina and **A.Guttman**, Micromachined capillary cross-connector for high precision fraction collection, *J. Chromatogr A*, 979 (2002) 105-113.

2003

109. L.Shi, J.Khandurina, Z.Ronai, BY.Li, W.K.Kwan, X.Wang and **A.Guttman**, Micropreparative capillary gel electrophoresis of DNA: Rapid expressed sequence tag library construction, *Electrophoresis*, 24 (2003) 86-92.
110. M.Berdichevski, J.Khandurina and **A.Guttman**, Microgel Electrophoresis: A Novel Approach for Rapid and Efficient DNA Analysis, *Am.Biotech.Lab.* 21 (2003) 22-23.
111. B.L.Karger and **A.Guttman**, From capillaries to the Genome., *Gen.Prot.Techn.* 3 (2003) 12-16.
112. Z.Ronai, Y.Wang, J.Khandurina, P.Budworth, M. Sasvari Szekely, X.Wang and **A.Guttman**, Transcription factor binding study by capillary zone electrophoretic mobility shift assay, *Electrophoresis*, 24 (2003) 96-100.
113. Z.Ronai, M.Sasvari-Szekely and **A.Guttman**, Miniaturized SNP detection: Quasi-Solid Phase RFLP Analysis, *BioTechniques* 34 (2003) 1172-1173.
114. J.Boros and **A.Guttman**, Genetism: Genes and Society, *Gen.Prot.Techn.* 3 (2003) 6-10.
115. **A.Guttman**, L.Shi, J.Khandurina and X.Wang, Differential Gene Expression Analysis by Micro-Preparative Capillary Gel Electrophoresis, *J.Chromatogr.A.* 1014 (2003) 29-35.
116. M.Guttman, P.Fules and **A.Guttman**, Rapid Analysis of Site-directed Mutagenesis Constructs by Capillary Gel Electrophoresis, *J.Chromatogr.A.* 1014 (2003) 21-27.
117. **A.Guttman** and A.Paulus (Editors) *Electrophoresis*, HPCE 2003, Special Issue 24 (2003) pp311.
118. J.Khandurina and **A.Guttman** Microscale Separation and Analysis, *Curr. Opin. Chem. Biol.* 7 (2003) 595-602.
119. A.Paulus and **A.Guttman**, (Editors) *J.Chromatogr A.*, Vol 1013 and 1014 (2003) pp238 and 231.
120. **A.Guttman**, Gel and Polymer Solution Mediated Separation of Biomolecules by Capillary Electrophoresis (Review), *J.Chrom.Sci.*, 41 (2003) 449-459.
121. **A.Guttman**, J.Khandurina, Z.Ronai and M.Sasvari-Szekely, High Throughput Genotyping by Microchip Electrophoresis, *J.Capillary Electrophoresis*, 8 (2003) 77-80.

2004

122. Z.Ronai, **A.Guttman**, G.Keszler and M.Sasvari-Szekely, Capillary electrophoresis study on DNA-protein complex formation in the polymorphic 5' upstream region of the dopamine D4 receptor (DRD4) gene, *Currents in Medicinal Chemistry*, 11 (2004) 1023-1029.
123. **A.Guttman**, J.Khandurina, P.Budworth, W.Xu, Y.M,Hou and X.Wang, Analysis of combinatorial natural products by HPLC and CE, *LC.GC North America* 22 (2004) 58-67.
124. Z.Ronai, E.Szantai, R.Szmola, Z.Nemoda, A.Szekely, J.Gervai, **A.Guttman** and M.Sasvari-Szekely, A novel A/G SNP in the -615th position of the dopamine D4 receptor promoter region as a source of misgenotyping of the -616 C/G SNP. *American Journal of Medical Genetics Part B (Neuropsychiatric Genetics)*, 126B (2004) 74-78.
125. **A.Guttman**, J.Khandurina, P.Budworth, W.Xu, Y.M,Hou and X.Wang, Analysis of combinatorial natural products by HPLC and CE, *PharmaGenomics* 4 (2004) 32-42.
126. Y.Berdichevsky, J.Khandurina, **A.Guttman** and Y.H.Lo, UV/Ozone modification of Poly(dimethylsiloxane) microfluidics channels, *Sens.Actuators B.*, 97 (2004) 402-408
127. **A.Guttman**, M.Varoglu and J.Khandurina, Multidimensional separations in the pharmaceutical arena. *Drug Discovery Today* 9 (2004) 136-144.
128. A.Koller, J.Khandurina, J.Li, J.Kreps and **A.Guttman**, Structure Analysis of High-Mannose Type Oligosaccharides by uLC/MS and Capillary Electrophoresis, *Electrophoresis*, 25 (2004) 2003-2009.
129. **A.Guttman**, J.Khandurina, P.Budworth, W.Xu, Y.M,Hou and X.Wang, Analysis of combinatorial natural products by HPLC and CE, *LC.GC Europe* 17 (2004) 104-111.
130. J.Boros and **A.Guttman**, Genetizmus: Gének és társadalom (Genetism: Genes and Society), *Magyar Tudomány* 6 (2004) 752-756.
131. J.Khandurina, D.L.Blum and **A.Guttman**, Automated Carbohydrate Profiling by Capillary Electrophoresis: A bioindustrial approach, *Electrophoresis* 25 (2004) 2326-2331.
132. S.Liu, **A.Guttman**, Electrophoresis Microchips for DNA Analysis, *Trends in Anal.Chem.*, 23 (2004) 422-431.
133. **A.Guttman**, Z.Ronai, J.Khandurina, T. Lengyel, M. Sasvari-Szekely, Rapid Analysis of Factor V Leiden Mutation by Membrane Mediated Restriction Digestion and Ultra-Thin Layer Gel Electrophoresis, *Chromatographia*, 60 (2004) S295-S298.
134. **A.Guttman**, The Evolution of Capillary Gel Electrophoresis: From Proteins to DNA Sequencing, *LC.GC North America*, 22 (2004) 896-904.
135. J.Khandurina, **A.Guttman**, Industrial-Scale Carbohydrate Profiling Using High Speed CE with Automated Batch Sampling from a 96 Well Plate, *P/ACE Setter*, 8 (2004) 1-3.
136. J.Khandurina, N.A.Olson, A.A.Anderson, K.A.Gray, **A.Guttman**, Large-scale carbohydrate analysis by capillary array electrophoresis. Part 1. Separation and scale-up, *Electrophoresis* 25 (2004) 3117-3121.
137. J.Khandurina, A.A.Anderson, N.A.Olson, J.Stege, **A.Guttman**, Large-scale carbohydrate analysis by capillary array electrophoresis. Part 2. Data normalization and quantification, *Electrophoresis* 25 (2004) 3122-3127.
138. E.Szantai, A.Szilagyi, **A.Guttman**, M.Sasvari-Szekely, Z.Ronai, Genotyping and haplotyping of the dopamine D4 receptor gene by capillary electrophoresis, *J.Chromatogr.A.* 1053 (2004) 241-245.
139. **A.Guttman** and R.Giese, (Editors) "Bioanalytical Chemistry: Perspectives and Recent Advances" *J.Chromatogr. A.*, 1053 (2004) pp308.
140. J.Boros and **A.Guttman**, Gének, Társadalom és az értelmezés tudománya, *Magyar Tudomány* 9 (2004) 1029-1032.
141. N.A.Olson, J.Khandurina, **A.Guttman**, DNA profiling by Capillary Array Electrophoresis with non-covalent fluorescent labeling, *J.Chromatogr.A.* 1051 (2004) 155-160.
142. **A.Guttman**; Obituary: Professor Csaba Horváth (1930–2004) *Electrophoresis* 25 (2004) 3067.

2005

143. P.Budworth, J.Khandurina, **A.Guttman**, Combinatorial Natural Products: From Cloning to Analysis, *Currents in Medicinal Chemistry*, 12 (2005) 703-711.
144. **A.Guttman** and A.Rathore, (Editors) "Separation Science: Past, Present and Future" *J.Chromatogr A.*, 1079 (2005) pp 424.
145. E.Szantai, Z.Ronai, A.Szilagyi, M.Sasvari-Szekely, **A.Guttman**, Haplotyping by capillary electrophoresis, *J.Chromatogr A.*, 1079(2005) 41-49.
146. J.Khandurina, **A.Guttman**, High resolution capillary electrophoresis of oligosaccharide structural isomers, *Chromatographia*, 62 (2005) S37-S41.
147. E.Szantai, R.Szmola, M.Sasvari-Szekely, **A.Guttman**, Z.Ronai, The polymorphic nature of the human dopamine D4 receptor gene: A comparative analysis of known variants and a novel 27 bp deletion in the promoter region. *BMC Genetics*, 6 (2005) 39-49.
148. L.Székely and **A.Guttman**, New advances in microchip fabrication for electrochromatography, *Electrophoresis*, 26 (2005) 4590-4604.

2006

149. A.Vegvari and **A.Guttman**, Theoretical and nomenclatural considerations of capillary electrochromatography with monolithic stationary phases, *Electrophoresis* 27 (2006) 716-725.
150. L.Székely and **A.Guttman**, Comparison of various channel fabrication techniques for microchip electrophoresis, *Current Analytical Chemistry*, 2 (2006) 195-201.
151. E.Szantai, Z.Ronai, M.Sasvari-Szekely and **A.Guttman**, Haplotyping of the deoxycytidine kinase gene by multicapillary electrophoresis, *Anal. Biochem.* 352 (2006) 148-150.
152. A.Szilagyi, B.Blasko, G.Fust, M.Sasvari-Szekely, Z.Ronai and **A.Guttman**, Rapid quantification of human complement component c4a and c4b genes by capillary gel electrophoresis, *Electrophoresis* 27 (2006) 1437-1443.
153. V.Amirkhanian, M.Liu, **A.Guttman** and E.Szantai, Cost benefit analysis of a multicapillary electrophoresis system, *American Lab.*, 38 (2006) 26-28.
154. L.Székely and **A.Guttman**, Simple approaches to close the open structure of microfluidic chips and connecting them to the macro-world, *J.Chromatogr B.*, 841 (2006) 123-128.
155. E.Szantai, Z.Ronai, M.Sasvari-Szekely, G.Bonn and **A.Guttman**, Multi-capillary electrophoresis analysis of single nucleotide sequence variations in the deoxycytidine kinase gene, *Clinical Chemistry* 52 (2006) 1756-1762.
156. I. Feuerstein, M.Najam-ul-Haq, M.Rainer, L.Trojer, R.Bakry, N.H Aprilita, G.Stecher, C.W.Huck, G. K. Bonn, H.Klocker, G.Bartsch and **A.Guttman**, Material Enhanced Laser Desorption/Ionization (MELDI) – a new protein profiling tool utilizing specific carrier materials for TOF-MS Analysis, *JASMS*, 17 (2006) 1203-1208.
157. A.Toth-Petroczy, A.Szilagyi, Z.Ronai, M.Sasvari-Szekely, **A.Guttman**, Validation of a tentative microsatellite marker for the dopamine d4 receptor gene by capillary gel electrophoresis *J.Chromatogr A.*, 1130 (2006) 201- 205.
158. A.Monzo, A.Szilagyi, G.K.Bonn and **A.Guttman**, A Lectin Affinity Chromatography with Preparative Liquid Phase IEF and MALDI TOF MS as Tool to Study the Human Serum Glycoproteome, *Mol.Cell.Proteomics*, 5(2006) S100.
159. **A.Guttman**, W.Hempel, M.Kuras, W.S.Hancock, N.Tardieu, A.Jullien, C.Malderez, E.Rajnavolgyi, K.Elesne-Toth, M.Marka, J.Kadas, B.L.Karger, L.Takacs, Biomarker discovery by antibody mediated proteomics, *Mol.Cell.Proteomics*, 5(2006) S86.
160. A.Monzo, **A.Guttman**, Immobilization techniques for mono and oligosaccharide microarrays, *QSAR & Combinatorial Science* 25 (2006) 1033-1038.
161. E.Szantai and **A.Guttman**, Genotyping with microfluidic devices, *Electrophoresis* 27 (2006) 4896-4903.
162. I.Kovacs, J.Kadas, L.Takacs, G.Dibo, **A.Guttman**, Preparation and characterization of small-molecule metabolite libraries covalently attached to macromolecular carriers. *Peptide Science*, 43 (2006) 320.

2007

163. A.Monzo, G.K.Bonn, **A.Guttman**, Lectin immobilization strategies for affinity purification and separation of glycoconjugates, *Trends Anal.Chem.* 26 (2007) 423-432.
164. A.Szilagyi, G.Bonn, **A.Guttman**, Capillary gel electrophoresis analysis of G-quartet forming oligonucleotides used in DNA-protein interaction studies, *J.Chromatogr.A.* 1161 (2007) 15-21.
165. **A.Guttman** and L.Takacs, Biomarker Discovery and Related Topics, *Electrophoresis*, 28 (2007) 4259, Issue 23.
166. S.Spisak, Z.Tulassay, B.Molnar, **A.Guttman**, Protein Microchips in Biomedicine and Biomarker Discovery, *Electrophoresis*, 28 (2007) 4261-4273.
167. H.Zhou, J.Dai, QH.Sheng, RX.Li, CH.Shieh, **A.Guttman**, R.Zeng, A fully automated 2D LC-MS method utilizing online continuous pH and reverse phase gradients for global proteome analysis, *Electrophoresis* 28 (2007) 4311-4319.
168. E.Csanky, P.Olivova, E.Rajnavolgyi, W.Hempel, N.Tardieu, A.Jullien, C.Malderes-Bloes, M.Kuras, M.X.Duval, L.Nagy, B.Scholtz, W.Hancock, B.L.Karger, **A.Guttman**, L.Takacs, Monoclonal antibody proteomics: discovery and pre-validation of chronic obstructive pulmonary disease biomarkers in a single step, *Electrophoresis* 28 (2007) 4401-4406.
169. A.Monzo, G.Bonn, **A.Guttman**, Boronic acid - lectin affinity chromatography (BLAC): 1. Simultaneous glycoprotein binding with selective or combined elution, *Anal.Bioanal.Chem.*, 389 (2007) 2097-2102

2008

170. V.Vukics, B.Hevesi Toth, T.Ringer, K.Ludanyi, A.Kery, G.K.Bonn, **A.Guttman**, Quantitative and qualitative investigation of the main flavonoids in Heartsease (*Viola tricolor L.*), *J.Chrom.Sci.* 46 (2008) 97-101.
171. Z.Rivera, G.Bonn, **A.Guttman**, Stable isotope coded labeling reagents for quantitative proteomics, *Current Organic Chemistry*, 12 (2008) 424-440.
172. V.Vukics, A.Kery, G.K.Bonn, **A.Guttman**, Major flavonoid components of heartsease (*Viola tricolor L.*) and their antioxidant activities, *Anal.Bioanal.Chem.*, 390 (2008) 1917-25.
173. M.Olajos, P.Hajos, G.K.Bonn, **A.Guttman**, Sample preparation for the analysis of complex carbohydrates by multi-capillary gel electrophoresis with LED induced fluorescence detection, *Anal.Chem.*, 80 (2008) 4241-4246.
174. S.Mittermayr, M.Olajos, T.Chovan and **A.Guttman**, Mobility Modeling of Peptides in Capillary Electrophoresis (Review), *Trends in Anal.Chem.*, 27 (2008) 407-417.
175. M.Olajos, T.Chován, S.Mittermayr, T.Kenesei, P.Hajos, I.Molnár, F.Darvas, **A.Guttman**, Artificial neural network modeling of pH dependent structure-mobility relationship for capillary zone electrophoresis of tripeptides, *J.Liq.Chrom.* 31 (2008) 2348 - 2362.
176. V.Vukics, T.Ringer, A.Kery, G.K.Bonn, **A.Guttman**, Analysis of heartsease (*Viola tricolor L.*) flavonoid glycosides by micro liquid chromatography coupled to multiple stage mass spectrometry, *J.Chromatogr.A.* 1206 (2008) 11-20.
177. A.Monzo, M.Olajos, L.De Benedictis, G.K.Bonn, **A.Guttman**, Boronic acid - lectin affinity chromatography (BLAC) 2. Affinity micropartitioning mediated comparative glycosylation profiling, *Anal.Bioanal.Chem.* 392 (2008) 195-201.
178. V.Vukics, A.Kery, **A.Guttman**, Analysis of polar antioxidants in heartsease (*Viola tricolor L.*) and garden pansy (*Viola x wittrockiana Gams.*), *J.Chrom.Sci.* 46 (2008) 823-827.
179. Z.Rivera, G.Bonn, **A.Guttman**, Synthesis of fluorescent isotope coded affinity tag (FCAT) reagent for quantitative proteomics, *Bioorganic Chemistry*, 36 (2008) 299-311.

2009

180. S.Mittermayer, T.Chovan, **A.Guttman**, Two variable semi-empirical and artificial neural network based modeling of peptide mobilities in capillary zone electrophoresis: The effect of temperature and organic modifier concentration, *Electrophoresis*, 30 (2009) 890-896.
181. A.Monzo, E.Sperling, **A.Guttman**, Trypsin immobilization strategies for mass spectrometry based proteomics, *Trends in Anal.Chem.*, 28 (2009) 854-864.

182. **A.Guttman**, Biomarker Discovery and Related Topics, *Electrophoresis*, 30 (2009) 1095, Issue 7.
183. E.Szantai, Z.Elek, **A.Guttman**, M.Sasvari-Szekely, Candidate gene copy number analysis by PCR and multi capillary electrophoresis, *Electrophoresis* 30 (2009) 1098-1101.
184. Z.Rivera-Monroy, G.K.Bonn, **A.Guttman**, Fluorescent Isotope Coded Affinity Tag (FCAT) 2: Peptide labeling and affinity capture, *Electrophoresis* 30 (2009) 1111-1118.
185. B.L.Karger, **A. Guttman**, DNA Sequencing by Capillary Electrophoresis, *Electrophoresis* 30 (2009) S196-S202
186. A.Monzo, T.Rejtar, **A.Guttman**, Optimization of poly(GMA-co-EDMA) monolithic support for trypsin nanoreactor fabrication, *J.Chrom.Science*, 47 (2009) 467-472.
187. S.Spisak, **A.Guttman**, Protein Microarrays in Biomarker Discovery, *Currents in Medicinal Chemistry*, 16 (2009) 2806-2815.

2010

188. V.Vukics, **A.Guttman**, Structural characterization of flavonoid glycosides by LC-MS/MS, *Mass Spectrometry Reviews*, 29 (2010) 2806-2815.
189. Z.Szabo, **A.Guttman**, B.L.Karger, Rapid release of N-linked glycans from glycoproteins by pressure cycling technology, *Analytical Chemistry* 82 (2010) 2588-2593.
190. Z.Szabo, **A.Guttman**, T.Rejtar, B.L.Karger, Improved sample preparation method for glycan analysis of glycoproteins by CE-LIF and CE-MS, *Electrophoresis* 31 (2010) 1389-1395.
191. O.A Rahman, M.Sasvari-Szekely, A.Szekely, G.Faludi, **A.Guttman**, Zs.Nemoda, Analysis of a polymorphic microRNA target site in the purinergic receptor P2RX7 gene, *Electrophoresis* 31 (2010) 1790-195.
192. M.Olajos, A.Szekrenyes, D.T.Gjerde, **A Guttman**, Boronic acid - lectin affinity chromatography (BLAC) 3. Temperature dependence of glycoprotein isolation and enrichment, *Anal.Bioanal. Chem.* 397 (2010) 2401-2407.
193. D.Vanderschaeghe, A.Szekrenyes, C.Wenz, M.Gassmann, N.Naik, M.Bynum, H.Yin, J.Delanghe, **A.Guttman**, N.Callewaert, High-throughput profiling of the serum N-glycome on capillary electrophoresis microfluidics systems: toward clinical implementation of GlycoHepatoTest. *Anal Chem.* 82 (2010) 7408-7415.
194. P.Smejkal, A.Szekrenyes, M.Ryvolova, F.Foret, **A.Guttman**, F.Bek, M.Macka, Chip-based CE for rapid separation of APTS derivatized glycans, *Electrophoresis* 31(2010) 3783-3786.
195. J.Bones, S.Mittermayr, N.O'Donoghue, **A.Guttman**, P.Rudd, Ultra performance liquid chromatographic profiling of serum N-glycans for fast and efficient identification of cancer associated alterations in glycosylation, *Anal. Chem.* 82 (2010) 10208-10215.

2011

196. A.Kovacs, E.Sperling, J.Lazar, A.Balogh, J.Kadas, A.Szekrenyes, I.Kurucz, L.Takacs, **A.Guttman**, Fractionation of the human plasma proteome for monoclonal antibody proteomics based biomarker discovery, *Electrophoresis* 32 (2011) 1916-1925. [OTKA]
197. Z.Szabo, **A.Guttman**, J.Bones, B.L.Karger, Rapid High Resolution Characterization of Functionally Important Monoclonal Antibody N-Glycans by Capillary Electrophoresis, *Analytical Chemistry* 83 (2011) 5329-5336.
198. S.Mittermayr, J.Bones, M.Doherty, **A.Guttman**, P.M.Rudd, Multiplexed analytical glycomics: Rapid and confident IgG N-glycan structural elucidation. *Journal of Proteome Research*, 10 (2011) 3820-3829. [OTKA]
199. M.Guergova-Kuras, I.Kurucz, W.Hempel, N.Tardieu, J.Kadas, C.Malderez-Bloes, A.Jullien, Y.Kieffer, M.Hincapie,**A.Guttman**, E.Csanky, S.Cseh, B.L.Karger. L.Takacs, Discovery of lung cancer biomarkers by profiling the plasma proteome with nascent monoclonal antibody libraries, *Molecular and Cellular Proteomics* 10 (2011) M111.010298-1-14. [OTKA]
200. **A.Guttman**, Biomarker discovery and related topics. *Electrophoresis*, 32(2011) 1915, Issue 15.

2012 (IF 30.9)

201. R.Garrido-Medina, A.Puerta¹, Z.Rivera-Monroy, M.de Frutos, **A.Guttman**, J.Carlos Diez-Masa, Analysis of alpha-1-acid glycoprotein isoforms using CE-LIF with fluorescent thiol-derivatization, *Electrophoresis* 33 (2012) 1113-1119. [OTKA]
202. B.Mesko, Sz.Poliska, Z.Szekanecz, Sz.Szamosi, J.Podani, Cs.Varadi, **A.Guttman**, L.Nagy, Peripheral blood gene expression and IgG glycosylation profiles as markers of tocilizumab treatment in rheumatoid arthritis, *The Journal of Rheumatology* 39 (2012) 916-928.
203. S.Mittermayr, **A.Guttman**, Influence of molecular configuration and conformation on the electromigration of oligosaccharides in narrow bore capillaries, *Electrophoresis* 33 (2012) 1000-1007. [OTKA]
204. **A.Guttman**, Bioanalytical Tools for the Characterization of Biologics and Biosimilars, *LC.GC Magazine* 30 (2012) 412-421.
205. M.Keregyarto, T.Kerekes, E.Tsai, V.D.Amirkhanian, **A.Guttman**, Light emitting diode induced fluorescence (LedIF) detection design for a pen-shape cartridge based single capillary electrophoresis system, *Electrophoresis* 33 (2012) 2752-2758. [OTKA]
206. Z.Szabo, **A.Guttman**, J.Bones, R.L.Shand, D.Meh and B.L.Karger, Ultrasensitive capillary electrophoretic analysis of potentially immunogenic carbohydrate residues in biologics: 1. Galactose- α -1,3-Galactose Containing Structures, *Molecular Pharmaceuticals* 9 (2012) 1612-1619.
207. A.Szekrenyes, U.Roth, M.Keregyarto, A.Szekely, I.Kurucz, K.Kowalewski, **A.Guttman**, High throughput monoclonal antibody analysis by multicapillary SDS gel electrophoresis in conjunction with covalent fluorescent labeling, *Anal.Bioanal.Chem* 405 (2012) 1485-1494. [OTKA]
208. Z.Szabo, J.Bones, **A.Guttman**, J.Glick, B.L.Karger, Sialic Acid Speciation using Capillary Electrophoresis: Optimization of Analyte Derivatization and Separation, *Analytical Chemistry* 84 (2012) 7638-7642.

2013

209. J.Szalma, K.Boddi, E.Lempel, A.Fsieroslawska, Z.Szabo, R.Harfo, L.Olasz, A.Takatsy, **A.Guttman**, Proteomic and Scanning Electron Microscopic Analysis of Submandibular Sialoliths, *Clinical Oral Investigations*, 17 (2013) 1709-1717. [OTKA]
210. A.Kovacs, **A.Guttman**, Medicinal Chemistry Meets Proteomics: Fractionation of the Human Plasma Proteome, *Current Medicinal Chemistry* 20 (2013) 483-490. [OTKA]
211. D.Vanderschaeghe, **A.Guttman**, N.Callewaert, High-throughput profiling of the serum N-glycome on capillary electrophoresis microfluidics systems, *Methods Mol Biol.* 919 (2013) 87-96.
212. S.Tummala, M.Titus, L.Wilson, C.Wang, C.Ciatto, D.Foster, Z.Szabo, **A.Guttman**, C.Li, B. Bettencourt, M.Jayaraman, J.Deroot, G.Thill, D.Kocisko, S.Pollard, K.Charisse, S.Kuchimanchi, G.Hinkle, S.Milstein, R.Myers, S.Wu, B.L.Karger, A.Rossomando, RNAi-mediated metabolic engineering: Modulation of fucose content on an anti-CD20 monoclonal antibody using exogenously added siRNA, *Biotech. Prog.*, 29 (2013) 415-424.
213. M.Keregyarto, N.Nemeth, T.Kerekes, Zs.Ronai, **A.Guttman**, Ultrafast haplotyping of putative microRNA-binding sites in the WFS1 gene by multiplex polymerase chain reaction and capillary gel electrophoresis, *J.Chrom. A.* 1286 (2013) 229-234. [OTKA], [LP]
214. Cs.Varadi, S.Mittermayr, A.Szekrenyes, J.Kadas, L.Takacs, I.Kurucz, **A.Guttman**, Analysis of haptoglobin N-glycome alterations in inflammatory and malignant lung diseases by capillary electrophoresis, *Electrophoresis*, 34 (2013) 2287-2294 [OTKA], [LP]
215. S.Mittermayr, J.Bones, **A.Guttman**, Unraveling the Glyco-Puzzle: Glycan Structure Identification by Capillary Electrophoresis. *Anal.Chem.* 85 (2013) 4228-4238 [OTKA], [LP]
216. M.Keregyarto, A.Fekete, Z.Szurmai, J.Kerékgyártó, I.Kurucz, **A.Guttman**, Neoglycoproteins for carbohydrate specific antibody generation 1: Synthesis, analysis and polyclonal antibody response, *Electrophoresis* 34 (2013) 2379-2386 [OTKA], [LP]
217. **A.Guttman**, Capillary electrophoresis in the N-glycosylation analysis of biopharmaceuticals, *Trends in Analytical Chemistry* 48 (2013) 132-143. [LP]

218. N.Nemeth, M.Kerekgyarto, M.Sasvari-Szekely, Z.Ronai, **A.Guttman**, Rapid identification of human SNAP-25 transcript variants by a miniaturized capillary electrophoresis system, *Electrophoresis* 35 (2014) 379-384 [OTKA], [LP]
219. Y.Wang, M.Santos, **A.Guttman**, Comparative core fucosylation analysis of some major therapeutic antibody N-glycans by direct infusion electrospray ionization mass spectrometry and capillary electrophoresis – laser induced fluorescence detection. *Journal of Separation Science* 36 (2013) 2862-2867. [LP]
220. A.Kovacs, Z.Patai, **A.Guttman**, J.Kadas, L.Takacs, I.Kurucz, Fractionation of the human plasma proteome for monoclonal antibody proteomics-based biomarker discovery 2: Antigen identification by dot-blot array screening. *Electrophoresis* (2013) 3064-3071 [OTKA]
221. **A.Guttman**, Analytical Glycomics. *Electrophoresis*, 34 (2013) 2283,
222. G.Jarvas, **A.Guttman**, Modeling of cell sorting and rare cell capture with microfabricated biodevices, *Trends in Biotechnology* 31 (2013) 696-703 [LP]
223. J.Krenkova, A.Szekrenyes, Zs.Keresztesy, F.Foret, **A.Guttman**, Oriented Immobilization of Peptide-N-glycosidase F on a Monolithic Support for Glycosylation Analysis, *J.Chrom, A* 1322 (2013) 54-61 [LP]
224. M.Szigeti, G.Jarvas, **A.Guttman**, Design and modeling of microfluidic cell capture devices, *Chemicke Listy* 107 (2013) S458-S459 [LP]
225. B.Barkaszi, **A.Guttman**, Pathophysiological role of aberrant glycan expression in tumorigenesis and cancer progression, *Chemicke Listy* 107 (2013) S343-345 [LP]
226. B.Donczo L.Kalmar, J.Kerekgyarto, Z.Szurmai, **A.Guttman**, Combinatorial glycomics 1: Synthesis options, *Chemicke Listy* 107 (2013) S353-S354 [LP]
227. M.Racz, L.Takacs, **A.Guttman**, J.Lazar, Removal of abundant proteins to enable global proteome analysis of the human plasma: QC methodology development using immunoglobulin and albumin as markers, *Chemicke Listy* 107 (2013) S428-S429 [LP]
228. **A.Guttman**, Automated N-glycosylation analysis for translational glycomics: quo vadis? *Chemicke Listy* 107 (2013) S308 [LP]
- 2014**
229. B.Adamczyk, T.Tharmalingam, M.Schomberg, A.Szekrenyes, R.M. Kelly, **A.Guttman**, P.M. Rudd, Comparison of fast and effective separation techniques for the elucidation of IgG N-glycans from selected species, *Carbohydrate Research*, 389 (2014) 174-175 [LP]
230. B.Donczo, J.Kerekgyarto, Z.Szurmai, **A.Guttman**, Glycan microarrays: new angles and novel strategies, *Analyst*, 139 (2014) 2650-2657 [OTKA], [LP]
231. L.Hajba, **A.Guttman**, Circulating tumor cell detection and capture using microfluidics devices, *Trends in Analytical Chemistry* 59 (2014) 9-16 [LP]
232. A.Szekely, A.Szekrenyes, M.Kerekgyarto, A.Balogh, J.Kadas, **A.Guttman**, I.Kurucz, L.Takacs, Multi Capillary SDS-Gel Electrophoresis for the Analysis of Fluorescently Labeled mAb preparations: a high throughput quality control process for the production of QuantiPlasma and PlasmaScan mAb libraries, *Electrophoresis* 35 (2014) 2155-2162 [OTKA]
233. Cs.Varadi, C.Lew, **A.Guttman**, Rapid magnetic bead based sample preparation for automated and high throughput N-glycan analysis of therapeutic antibodies, *Anal. Chem.* 86 (2014) 5682-5687. [LP][Bridge]
234. M.Kerekgyarto, **A.Guttman**, Toward the generation of an aminonaphthalene trisulfonate labeled N-glycan database for capillary gel electrophoresis analysis of carbohydrates, *Electrophoresis*, 35 (2014) 2222-2228. [LP]
235. **A.Guttman**, Bioseparations, *Electrophoresis* 35 (2014) 2067.
236. K.Agoston, Gy.Gyemant, L.Kalmar, J.Kerekgyarto, Z.Szurmai, B.Donczo, **A.Guttman**, Synthesis and MALDI-TOF MS analysis of protected oligosaccharide components of N-glycoproteins, *Journal of Carbohydrate Chemistry* 33 (2014) 326-343 [LP]

2015

237. G.Jarvas, **A.Guttman**, F.Foret, Numerical modeling in capillary electrophoresis – electrospray mass spectrometry interface design, *Mass Spectrometry Reviews* 34 (2015) 558-559, [LP]
238. G.Jarvas, J.Grymc, F.Foret, **A.Guttman**, Simulation based design of a microfabricated pneumatic electrospray nebulizer, *Electrophoresis*, 36 (2015) 386-392 [LP]
239. Z.Jaczo, E.Pal, R.Denes, A.Somogyi, M.Sasvari-Szekely, **A.Guttman**, Z.Ronai, Rapid Analysis of Colipase Gene Variants by Multicapillary Electrophoresis, *Electrophoresis*, 36 (2015) 1237-1243. [LP][Bridge]
240. C.Varadi, Z.Hollo, S.Poliska, L.Nagy, Z.Szekanecz, A.Vancsa, K.Palatka, **A.Guttman**, Combination of IgG N-glycomics and Corresponding Transcriptomics Data to Identify anti TNF α Treatment Responders in Inflammatory Diseases. *Electrophoresis* 36 (2015) 1330-1335. [LP][Bridge]
241. C.Lew, JL.Gallegos-Perez, B.Fonslow, **A.Guttman**, Rapid level-3 characterization of therapeutic antibodies by capillary electrophoresis electrospray ionization mass spectrometry (CESI-MS), *J.Chrom.Sci.* 53 (2015) 443-449.
242. A.Szekrenyes, J.Partyka, Cs.Varadi, J.Krenkova, F.Foret, **A.Guttman**, Sample preparation for N-glycosylation analysis of therapeutic monoclonal antibodies by capillary electrophoresis, *Methods in Molecular Biology* 1274 (2015) 183-195 [OTKA], [LP]
243. G.Jarvas, M.Szigeti, L.Hajba, P.Furjes, **A.Guttman**, Computational Fluid Dynamics Based Design of a Microfabricated Cell Capture Device, *J.Chrom.Sci.* 53 (2015) 411-416 [LP]
244. M.Guttman, Cs.Varadi, K.K.Lee, **A.Guttman**, Glycoprofiling of HIV gp120 immunogens by capillary electrophoresis and MALDI-MS, *Electrophoresis*, 36 (2015) 1305-1313. [OTKA], [LP]
245. Cs.Varadi, **A.Guttman**, Zs.Hollo, S.Poliska, L.Nagy, Z.Szekanecz, A.Vancsa, K.Palatka, Combination of IgG N-glycomics and corresponding transcriptomics data to identify anti-TNF- α treatment responders in rheumatoid arthritis and inflammatory bowel disease, *Annals of Rheumatic Diseases ARD* (Suppl 2) 74 (2015) 898.
246. G.Jarvas, M.Szigeti, **A.Guttman**, GUcal: An integrated app for glycan structure assignment based on capillary electrophoresis migration times, *Electrophoresis* 36 (2015) 3094–3096.
247. **A.Guttman**, M.Kerekgyarto, G.Jarvas, The effect of separation temperature on structure specific glycan migration in capillary electrophoresis, *Anal.Chem* 87 (2015) 11630-11634.

2016

248. I.Rajta, R.Huszank, A.Szabo, G.Nagy, S.Szilasi, P.Furjes, E.Holczer, Z.Fekete, G.Jarvas, M.Szigeti, L.Hajba, J.Bodnar, **A.Guttman**, Tilted pillar array fabrication by the combination of proton beam writing and soft lithography for microfluidic cell capture: 1. design and feasibility, *Electrophoresis*, 37 (2016) 498-503
249. M.Szigeti, C.Lew, K.Roby, **A.Guttman**, Fully automated sample preparation with ultrafast N-glycosylation analysis of therapeutic antibodies, *JALA* 21 (2016) 281-286
250. M.Kerekgyarto, G.Jarvas, L.Novak, **A.Guttman**, Activation energy associated with the electromigration of oligosaccharides through viscosity modifier and polymeric additive containing background electrolytes. *Electrophoresis* 37 (2016) 573-578
251. A.Szekrenyes, S.S.Park, M.Santos, B.Warren, A.Jones, E.Cosgrave, T.Haxo, S.Pourkaveh, Z.Szabo, Z.Sosic, P.Feng, Cs.Varadi, JB.Falmagne, P.Sejwal, D.Michels, G.Freckleton, M.Hamm, AManuilov, T.Duffy, M.Schwartz, JK.Luo, J.van Dyck, PK.Leung, M.Olajos, B.Moritz, R.Kowle, G.Kai, W.Wenbo, J.Wegstein, **A.Guttman**, Multi-Site N-Glycan Mapping Study 1: CE-LIF, *mAbs* 8 (2016) 56-64.
252. B.Donczo, M.Szigeti, Gy.Ostoros, A.Gacs, J.Tovari, **A.Guttman**, N-glycosylation analysis of formalin fixed paraffin embedded samples by capillary electrophoresis, *Electrophoresis* (2016) In Press, DOI: 10.1002/elps.201500446

253. L.Hajba, **A.Guttman**, Continuous flow biochemical reactors: biocatalysis, bioconversion and bioanalytical applications utilizing immobilized microfluidic enzyme reactors, *J.Flow Chemistry*, 6 (2016) 8-12.
254. M.Szigeti, J.Bodnar, D.Gjerde, Zs.Keresztessy, A.Szekrenyes, A.Guttman, Rapid N-glycan release from glycoproteins by immobilized PNGase F microcolumns, *J.Chromatogr. B* (2016) In Press, DOI: 10.1016/j.jchromb.2016.02.006
255. J.Bodnar, A.Szekrenyes, M.Szigeti, G.Jarvas, J.Krenkova, F.Foret, **A.Guttman**, Enzymatic removal of N-glycans by PNGase F coated magnetic microparticles. *Electrophoresis* 37 (2016) 1264-1269
256. L.Hajba, **A.Guttman**, The use of magnetic nanoparticles in cancer theranostic: Towards handheld diagnostic devices, *Biotechnology Advances* 34 (2016) 354-361.
257. G.Jarvas, M.Kerekgyarto, **A.Guttman**, On the electromigration of charged fluorophore-labeled oligosaccharides in polyethylene oxide solutions. *Electrophoresis* (2016) In Press, DOI: 10.1002/elps.201600183
258. Zs.Kovacs, M.Szarka, M.Szigeti, **A.Guttman**, Separation window dependent multiple injection (SWDMI) for large scale analysis of therapeutic antibody N-glycans, *J. Pharm. Biomed. Analysis*, 128 (2016) 367-370.
259. Zs.Elek, R.Dénes, P.Susanne, A.Somogyi, H.Yowanto, J.Luo, M.Souquet, **A.Guttman**, Zs.Rónai, Multicapillary gel electrophoresis based analysis of genetic variants in the WFS1 gene, *Electrophoresis* (2016) In Press, DOI: 10.1002/elps.201600251
260. L.Hajba, **A.Guttman**, Liquid phase separation methods for N-glycosylation analysis of glycoproteins of biomedical and biopharmaceutical interest. A critical review, *Analytica Chimica Acta* (2016) In Press, DOI: 10.1016/j.aca.2016.08.035

BOOK CHAPTERS

1. **A.Guttman**, Capillary Polyacrylamide Gel Electrophoresis, in "*Capillary Electrophoresis Technology*", Ed.: N.A. Guzman, Marcel Dekker, New York, NY, (1992) pp.715-730.
2. **A.Guttman** and I.Mazsaroff, Economical Performance Analysis in Preparative Capillary Gel Electrophoresis, "*New Approaches in Chromatography'91*", Eds: H.Kalász and L.S.Ettre, Intercongress, Budapest, Hungary, (1992) pp.63-75.
3. **A.Guttman**, Separation of DNA by Capillary Electrophoresis, in "*CRC Handbook of Capillary Electrophoresis: Principles, Methods, and Applications*", Ed. J.P.Landers, CRC Press, Inc., Boca Raton, FL., (1993) pp.129-143.
4. **A.Guttman**, A.S.Cohen, D.N.Heiger, B.L.Karger, Analytical and Micropreparative Ultrahigh resolution of Oligonucleotides by Polyacrylamide Gel High Performance Capillary Electrophoresis in "*Milestones in Analytical Chemistry*", Ed. M.Warner, ACS, Washington, DC, (1994) pp.410-414.
5. **A.Guttman**, Capillary Gel Electrophoresis, in "*Methods in Molecular Biology: Capillary Electrophoresis Protocols*", Ed. K.D.Altria, Humana Press, Clifton, NJ, (1995) pp.157-169.
6. **A.Guttman**, Capillary Gel Electrophoresis of Nucleic Acids and their Fractions in "*Encyclopedia of Analytical Sciences*", Ed. G.Fullerlove, Academic Press, London, UK, (1995) pp.1122-1125.
7. **A.Guttman**, Cyclodextrin Array Chiral Analysis, in "*CRC Handbook of Capillary Electrophoresis: Principles, Methods, and Applications*", 2nd ed., Ed. J.P.Landers, CRC Press, Inc., Boca Raton, FL., (1996) pp.75-100.
8. K.Benedek and **A.Guttman**, High Performance Capillary Electrophoresis: An Overview in "*CRC Handbook of Preparative Chromatography*", Ed. J.K.Swadesh, CRC Press, Inc., Boca Raton, FL. (1997) pp.305-345.
9. **A.Guttman**, Capillary Electrophoresis of 8-Aminopyrene-3,6,8-trisulfonate Labeled Oligosaccharides, in "*Techniques in Glycobiology*", Ed. R.R.Townsend, Marcel Dekker, Inc., New York, NY., (1997) pp.377-389.

10. H.E.Schwartz **A.Guttman** and A.Vinters, Separation of Proteins by Capillary Electrophoresis, in "*Capillary Electrophoresis, Theory and Practice*", 2nd ed. Ed: P.Camilleri, CRC Press, Boca Raton, FL (1998) pp.363-397.
11. **A.Guttman** and H.E.Schwartz, Separation of DNA by Capillary Electrophoresis, in "*Capillary Electrophoresis, Theory and Practice*", 2nd ed. Ed: P.Camilleri, CRC Press, Boca Raton, FL (1998) pp.397-441.
12. P.Shieh N.Cooke and **A.Guttman**, Capillary Gel Electrophoresis, in "*High Performance Capillary Electrophoresis*", Ed: M.G.Khaledi, John Wiley & Sons, Inc., New York, NY (1998) pp.185-218.
13. **A.Guttman** and K.Ulfelder, Separation of DNA by Capillary Electrophoresis, in "*Advances in Chromatography*", Vol 38, Eds: P.Brown and E.Grushka, Marcel Dekker, New York, NY (1998) pp.301-340.
14. **A.Guttman**, P.Shieh and B.L.Karger, Capillary SDS Gel Electrophoresis of Proteins, in "*Gel Electrophoresis of Proteins: A Practical Approach*" 3rd ed. Ed: B.D.Hames, Oxford University Press, Oxford, UK, (1998) pp.105-126.
15. **A.Guttman** and N.Roos, Application of Cyclodextrins in Molecular Biology in "*The Encyclopedia of Molecular Biology*" Ed: T.E.Creighton, John Wiley & Sons, New York, NY (1999) Vol. 1, pp.597-599.
16. **A.Guttman**, Cs.Barta, A.Gerstner, M.Sasvari-Szekely and H.Kalasz, Ultrathin-layer Gel Electrophoresis (Ed. J.Cases), "*Dekker Encyclopedia of Chromatography*", Marcel Dekker, New York, NY (2000) pp.861-864.
17. **A.Guttman**, Electric Field Mediated Separation of Biopolymers on Planar Glass microchips (Ed.Sz.Nyiredy), "*Planar Chromatography 2000, Proceedings*" Pub.Res.Inst.Med.Plants, Budakalász, Hungary (2000) pp.47-56.
18. **A.Guttman**, Electric Field Mediated Separation of DNA Fragments on Planar Gel Microchips, in "*Integrated Microfabricated BioDevices: Advanced Technologies for Genomics, Drug Discovery, Bioanalysis, and Clinical Diagnostics*" (Editors: M.Heller and A.Guttman) Marcel Dekker, New York, NY (2001) pp.165-182.
19. T. Chovan and **A.Guttman**, Microfabricated Reactor Technology in "*Integrated Microfabricated BioDevices: Advanced Technologies for Genomics, Drug Discovery, Bioanalysis, and Clinical Diagnostics*" (Editors: M.Heller and A.Guttman) Marcel Dekker, New York, NY (2001) pp.351-370.
20. **A.Guttman**, Integrated Microfabricated Device Technologies Chromatography, in "*A Century of Discovery 1900-2000. The bridge to the Sciences/Technology*" (Eds: C.W.Gehrke, R.L.Wixom, E.Bayer.) Elsevier Science, Amsterdam, The Netherlands (2001) pp.200-205.
21. J.Khandurina and **A.Guttman**, High precision micropreparative separation system based on plastic microfluidics module-capillary coupling, in "*Micro Total Analysis Systems 2002*", (Eds: Y.Baba, S.Shoji, A.van den Berg), Kluwer Academic Publishers, Dordrecht, The Netherlands (2002), pp 251-253.
22. **A.Guttman**, DNA Sequencing: From Capillaries To Microchips, in "*Emerging Technologies in Protein and Genomic Material Analysis*" (Eds: G.Marko-Varga and P.Oroszlan) Elsevier Science, Amsterdam, The Netherlands, J.Chromatogr.Library. 68 (2003) 11-20.
23. **A.Guttman**, Capillary Gel Electrophoresis, in "*Electrokinetic Phenomena: Principles and Applications in Analytical Chemistry and Microchip Technology*", (Eds. A.S.Rathore and A.Guttman), Marcel Dekker, New York, NY (2003) pp 69-108.
24. **A.Guttman** and J.Khandurina, Microfabricated Bioanalytical Devices, in "*Chromatography, 6th Edition*" (Ed. Heftmann,E) Elsevier Science, Amsterdam, The Netherlands, (2004) pp 431-467.
25. J.Khandurina, T.Zhu and **A.Guttman**, Microchip based HTS analysis of combinatorial libraries in "*Chemical Genomics*" (Eds. F.Darvas, A.Guttman and F.Dorman), Marcel Dekker, New York, NY (2004) pp 101-136.
26. **A.Guttman**, Electrophoresis Microchips in Modern Bioanalytical Chemistry (Elektroforézis mikroszepek alkalmazása a modern bioanalitikában) (Ed. L.Szepesy), Budapest, 2006.

27. E.Szantai and **A.Guttman**, Capillary Electrophoresis of Nucleic Acids, in "*CRC Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques*", 3rd ed., Ed. J.P.Landers, CRC Press, Inc., Boca Raton, FL., (2007) pp 227-250.
28. P.Budworth, J.Khandurina, **A.Guttman**, Combinatorial Natural Products: From Cloning to Analysis in "*Frontiers in Medicinal Chemistry*" (Volume 4), Bentham Science Publishers, Oak Park, IL (2009) pp 237-247.
29. V.Vukics and **A.Guttman**, Analysis of flavonoid glycosides in heartsease (*Viola tricolor* L.) Flavonoids: Biosynthesis, Biological Effects and Dietary Sources, Nova Science Publishers, Hauppauge, NY (2011). Submitted.
30. S.Spisak and **A.Guttman**, From chemical genomics to chemical proteomics: the power of microarray technology, "*Chemical Genomics and Proteomics*" (Eds. F.Darvas, A.Guttman and F.Dorman), Taylor & Francis, New York, NY (2011) pp 82-121.
31. P.G. Righetti and **A.Guttman** (July 2012) *Capillary Electrophoresis*. In: *eLS 2012*, John Wiley & Sons Ltd: Chichester <http://www.els.net/> [DOI: 10.1002/9780470015902.a0002680.pub2]
32. R.Garrido-Medina, A.Puerta, C.Pelaez-Lorenzo, Z.Rivera-Monroy, **A.Guttman**, J.Carlos Diez-Masa, M.de Frutos, Capillary Electrophoresis with Laser-Induced Fluorescence Detection of Proteins from Two Types of Complex Sample Matrices: Food and Biological Fluids, *Methods in Molecular Biology*, (eds N.Volpi and F.Maccari), Springer Protocols, Humana Press, vol. 984 (2013) pp 207-225.
33. M.Kerekgyarto, **A.Guttman**, Capillary Gel Electrophoresis, in *Analytical Separation Sciences*, (J. Anderson, A. Berthod, V. Pino, A. Stalcup, eds.), Wiley, Weinheim, Germany Vol 2 (2015) 555-580.
34. L.Kalmar; J.Kerekgyarto, Z.Szurmai, **A.Guttman**, M.Bojstrup, K.Agoston Phenyl 2-O-acetyl-3-O-allyl-4-O-benzyl-1-thio- β -D-glucoopyranoside, a versatile, orthogonally protected building block in *Carbohydrate Chemistry: Proven Synthetic Methods*, vol 3, Chapter 24, CRC Press, Boca Raton, FL, (2014) In Press.
35. M.Szigeti, A.Guttman, *High throughput glycan and glycopeptide analysis*, *Methods in Molecular Biology*, (ed M.Wuhrer), Springer Protocols, Humana Press

BOOKS

1. H.E.Schwartz and **A.Guttman**, *Separation of DNA by Capillary Electrophoresis* B.I.I. Primer #607397, Fullerton CA, (1995) 95 pages.
2. M.Heller and **A.Guttman** (Editors) "*Integrated Microfabricated BioDevices: Advanced Technologies for Genomics, Drug Discovery, Bioanalysis, and Clinical Diagnostics*", Marcel Dekker, New York, NY (2001) 456 pages.
3. A.S.Rathore and **A.Guttman** (Editors) "*Electrokinetic Phenomena: Principles and Applications in Analytical Chemistry and Microchip Technology*", Marcel Dekker, New York, NY (2003) 476 pages
4. F.Darvas, **A.Guttman** and G.Dorman (Editors) "*Chemical Genomics*", Marcel Dekker, New York, NY (2004) 352 pages.
5. F.Darvas, **A.Guttman** and G.Dorman (Editors) "*Chemical Genomics and Proteomics*", CRC Press, Taylor and Francis, New York, NY (2012) 240 pages.
6. **A.Guttman**, "*Capillary Gel Electrophoresis and Related Microseparation Techniques*" Elsevier (2012) In Preparation.

PUBLICATIONS – other, educational, popular.

1. **A.Guttman**, P.Shieh and N.Cooke: P/ACE SDS-Capillary Gel Electrophoresis of Proteins, *Beckman Technical Information Bulletin* #DS-827 (1992).
2. **A.Guttman**: Capillary Polyacrylamide Gel Electrophoresis, *Lombik és Reaktor*, 1 (1993) 14-15.
3. **A.Guttman**: Right and Left Handed Molecules, *Lombik és Reaktor*, 3 (1993) 31-32.
4. G.Dobos and **A.Guttman**, The Golden Age of the Biotechnology: Foams, *Lombik és Reaktor*, 4 (1994) 7-8.

5. **A.Guttman:** Recognizing Barry L. Karger, *LC.GC Magazine*, 17 (1999) 992.
6. **A.Guttman** and I.Molnár: Csaba Horváth Turns Seventy, *LC.GC Magazine*, 13 (2000) 384-386.
7. **A.Guttman:** Happy Birthday to Csaba Horváth, *American Laboratory*, 32 (2000) 6-10.
8. H.Kalasz and **A.Guttman:** Horváth Csaba Professor 70 éves (Prof. Csaba Horváth is 70 years old), *Magyar Kémikusok Lapja*, 10 (2000) 365-366.
9. **A.Guttman:** Prof. Csaba Horváth, the creator of HPLC is seventy (Horváth Csaba Professor, a HPLC megalkotója hetvenéves), *Lombik és Reaktor* 3 (2000) 33-36.
10. A.Paulus and **A.Guttman**, HPCE 2002: 15th International Symposium on Microscale Separations and Analysis, *Retention Times*, 9/2 (2002) 2-3.
11. **A.Guttman**, Microchip based HTS analysis of small molecule combinatorial libraries, *CGX NewsLetter* Fall-Winter (2002) 9-11.
12. **A.Guttman**, APCE 2002, Shanghai, China, *Retention Times* 9 (2002) 12-13.
13. A.Paulus and **A.Guttman**, Foreword, HPCE 2004, *J.Chromatogr.A*, 1013 (2003) 1-2.
14. **A.Guttman**, Professor Csaba Horváth (1930 – 2004), *Electrophoresis* 25 (2004) 3067-3068.
15. **A.Guttman** and Cs.Horváth, Barry: Recognition, recent events and philosophy, *J.Chromatogr.A*, 1053 (2004) 1-2.
16. **A.Guttman**, A photographic history of Professor Csaba Horváth, *J.Chromatogr.A*, 1079 (2005) N1-N8.
17. **A.Guttman** and A.Rathore, "Separation Science: Past, Present and Future" Preface, *J.Chromatogr.A*, 1079 (2005) 1-2.
18. H.Kalasz and **A.Guttman**, MKE-MFT Joint Scientific meeting (MKE-MFT együttes tudományos ülés), *Hungarian Chemical Journal*, 61 (2006) 33-34.
19. L.Takacs and **A.Guttman**, How can biotechnology be successful? (Hogyan lehet sikeres a Biotechnologia) *Magyar Hirlap*, 2006 Jan 19. p26.
20. **A.Guttman**, HPLC 2006 and the legacy of Professor Csaba Horvath, *J.Sep.Sci.* 29 (2006) 2698-2699.
21. **A.Guttman**, HPLC 2006 és Horváth Csaba szellemi öröksége, *Magyar Kémikusok Lapja* 63 (2008) 14.
22. **A.Guttman**, Professor Barry L. Karger turns seventy, *Electrophoresis* 30 (2009) 1096-1097.
23. **A.Guttman**, Csaba Horváth Memorial Lectureship, *Magyar Kémikusok Lapja* 65 (2010) 173.
24. **A.Guttman**, Norberto Guzman, Ph.D., M.Sc. – Happy 65th Birthday, *Electrophoresis* 34 (2013) 2284–2286.
25. **A.Guttman** and G.D. El Rassi, Ziad El Rassi – Happy 65th Birthday, *Electrophoresis* 35 (2014) 2068.
26. M.Szigeti, J.Bodnar, G.Jarvas, L.Hajba, Gy.Patakine Ostoros, A.Guttman, Transzlációs glikomika: Diagnosztikai és biotechnológiai alkalmazások; Az MTA PE Transzlációs Glikomika Kutatócsoport bemutatkozása, *Magyar Kémikusok Lapja*, 70 (2015) 125-127.
27. B.Dönczö, J.Bodnár, M.Szigeti, G.Járvás, L.Hajba, **A.Guttman**, Glikomika a modern orvostudományban: Transzlációs aspektusok, *IME* 16 (2015) 24-28.

GRANTS, FELLOWSHIPS

1. Tét Hungarian – US Intergovernmental S and T Cooperation Program, JF.No. 654-96 (1997-2000), Activation of deoxycytidine kinase, pool sizes and their relation to the efficiency of chemotherapy.
2. NIH#1R43CA80569-1 (1996) High Performance Proteome Analyzer for Cancer Diagnostics.
3. FKFP 0658/1999 (1999-2000), Investigation of the polymorphic dopamine D4 receptor by SNP analysis.
4. ETT 30/2000 (2000-2002) Investigation of medically important SNPs and length polymorphism, using non-invasive DNA sampling.
5. [OTKA] T 035203 (2001-2004) Diagnostic and therapeutic relations of enzymes in purine and pyrimidine metabolism.
6. Tét Hungarian – US Intergovernmental S and T Cooperation Program (2001-2002)

7. Applications of high throughput electrophoretic technology for investigation of polymorphic genes related to the monoamine neurotransmitter system. US-Hungarian mobility grant. *MAKA64-MO (2002)*.
8. Tét Hungarian – US Intergovernmental S and T Cooperation Program (2002-2003)
9. NKFP 1A/0008/2002 (2002-2005) Nature and nurture: Genetic and psychological risk factors for childhood attention deficit/hyperactivity disorder and juvenile drug addiction, their relations and treatment.
10. Tét Hungarian – US Intergovernmental S and T Cooperation Program (2003-2004)
11. Biotechnology (2002-2005) Application of DNA chip technology in psychogenetic research.
12. Marie Curie Chair of the European Commission (2004-2007) #006733
13. Szent-Gyorgyi Albert Professorship of the Hungarian Ministry of Education (2004-2005)
14. GenAu Grant of the Austrian Ministry of Science, Culture and Education (2005-2006)
15. Health Information Technologies Tirol, Austria (2006-2008), Project # HITT-38-HLBS
16. Austrian Academic Exchange Service (2006-2007) Project support # 05/2005
17. Spanish-Austrian Academic Exchange Service (2007-2008) Project # ES 07/2007
18. STREP grant of the European Commission (2007-2009) Project # PL 037730
19. Hungarian-Austrian Academic Exchange Service (20067-2009) Project support # HU 06/2007
20. Tirolean Science Foundation (Tiroler Wissenschaftsfonds)(2006-2007) Project # 2252007
21. Pilot Study Grant of the Austrian Ministry of Science, Culture and Education (2007-2008)
22. Czech-Austrian Academic Exchange Service (2008) Project support # 06/2008
23. Tirolean Future Foundation support for Analytical Systems Biology Professorship (2008) # 88/1997
24. OTKA Research Grant, Hungary, (2010-2013) # K 681839
25. Fulbright Professorship of the US State Department (Czech Republic 2012-2013) 48421907
26. Momentum-3 Research Grant (2013-2017) # LP2012-42/2012
27. Stiftung Aktion Österreich-Ungarn (2014) #89öu2
28. French-Hungarian TET12FR2 (2015) #CEA3390F
29. OTKA Research Grant, Hungary, (2015-2019) # K 116263

PATENTS

1. **A.Guttman**, US patent # 5,213,669 (issued: 05-25-1993) Capillary Column Containing a Dynamically Cross-linked Composition and Method of Use.
2. **A.Guttman**, US patent # 5,296,116 (issued: 03-22-1994) Capillary Electrophoresis Using Time-Varying Field Strength.
3. **A.Guttman**, US patent # 5,332,481 (issued: 07-26-1994) Capillary Electrophoresis Using Replaceable Gels.
4. **A.Guttman**, C.H.Shieh, B.L.Karger, S.L.Pentoney, K.Konrad ,S.Rampal and K.Ganzler, US patent #5,370,777 (issued: 12-6-1994) Capillary Column Containing Removable Separation Gel Composition and Method of Use.
5. **A.Guttman**, US patent # 5,421,980 (issued: 06-06-1995) Capillary Electrophoresis Using Replaceable Polymers.
6. **A.Guttman**, US patent # 5,503,722 (issued: 04-02-1996) Rehydratable Gels for Capillary Electrophoresis.
7. **A.Guttman**, N.Cooke, US patent # 5,662,787 (issued: 09-02-1997) Device for Profiling Oligosaccharides Released from Glycoproteins.
8. **A.Guttman**, N.Cooke, US patent #5,964,999 (issued: 19-12-1999) Methods for Profiling Oligosaccharides Released from Glycoproteins
9. **A.Guttman**, European patent # EP00497480A1 (issued: 08-05-1992) Capillary electrophoresis using replaceable gels
10. **A.Guttman**, L.Takács, US patent #6,277,259 (issued: 08-21-01) High performance multidimensional proteome analyzer

11. F.Darvas, **A.Guttman**, Hungarian Patent #220531 (issued: 01-09-2002) Procedure for rapid biological screening of small molecules (Eljárás vegyületek gyors biológiai tesztelésére)
12. **A.Guttman**, US patent #US RE37,606 E (issued: 03-26-2002) Capillary electrophoresis using replaceable gels
13. F.Darvas, **A.Guttman**, L.Kovacs and G.Sagi, Hungarian Patent #221002 (issued: 10-16-2002) Novel laser dyes, their manufacturing process and applications (Új lézerfestékek, eljárás azok előállítására és alkalmazására)
14. **A.Guttman**, US patent #US RE37,941 E (issued: 12-31-2002) Capillary electrophoresis using replaceable gels
15. **A.Guttman**, Z.Ronai and Cs.Barta, US patent # 6,998,251 (issued: 02-14-2006) Nanoporous membrane reactor for miniaturized reactions and enhanced reaction kinetics
16. V.Amirkhanian, M.S.Liu, **A.Guttman**, Method and apparatus for high speed carbohydrate analysis Patent #8,163,162 B1 (Issued Apr 24, 2012).
17. **A.Guttman**, L.Takács, Expression profiling platform technology, #EP 1 802 981 B1 (Sep 18, 2008).
18. L.Takacs, **A.Guttman**, W.S.Hancock, B.L.Karger, M.Duval, P.Berna, Biomarker discovery platform, IL (1NOV2011) #177239
19. L.Takacs, **A.Guttman**, W.S.Hancock, B.L.Karger, M.Duval, P.Berna, US patent # 8,512,959 (issued 08-20-2013) Biomarker discovery platform
20. **A.Guttman**, L.Takács, WO/2006/043179, Expression profiling technology platform Australian patent #2005297168 (31JAN2013).
21. L.Takacs, L.Kadas, **A.Guttman**, Multi-immunoaffinity based antigen identification, European Patent # 08 750051.8 (issued 03-22-2011).
22. L.Takacs, **A.Guttman**, W.S.Hancock, B.L.Karger, M.Duval, P.Berna, Biomarker discovery platform CA 2 555 699 (Issued Oct 15, 2013). #2005211790
23. L.Takacs, **A.Guttman**, W.S.Hancock, B.L.Karger, M.Duval, P.Berna, Biomarker discovery platform 99 (Issued Aug 5, 2010) AU #2005211790.

Published Patent Applications:

1. **A.Guttman**, L.Shi, X.Wang, WO2002059564, Multicapillary fraction collection system and method.
2. **A.Guttman**, B.Wanders, P.Alei, US2003012117 and WO2002056004, Thin film electrophoresis apparatus and method.
3. J.Paszkowski, **A.Guttman**, X.Wang, US2003078045 and WO 2003078045, Microcapillary hybridization chambers containing probes for detection of nucleic acids.
4. L.Takacs, **A.Guttman**, M.Kuras, WO/2007/012982 Normalization of complex analyte mixtures (2007).
5. **A.Guttman**, L.Takács, Expression profiling technology platform #US 2011 0077164 A1 (published 03-31-2011).
6. Cs.Varadi, C.Lew, **A.Guttman**, Glycan sample preparation, US Provisional Application #140261.16600, ABS-0166.
7. Andras Guttman, Gabor Jarvas, Marton Szigeti, Hungarian Patent Application #P1500200. Capillary electrophoresis combined with mass spectrometry (2015)
8. Andras Guttman, Csaba Varadi, Marton Szigeti, Clarence Lew, Glycan sample preparation, PCT/IB2015/053052 (filed on April 27, 2015),
9. Phynexus
10. Marton Szigeti, Andras Guttman, Single vial manual magnetic stand and/or holder, United States provisional patent application, Serial number: 62/342,651; filing date: May 27, 2016.