

**Recent Publications of Edgar Arriaga (Department of
Chemistry, University of Minnesota) and Co-workers**

Duffy, C. F.; Gafoor, S.; Richards, D. F.; Admadzadeh, H.; O'Kennedy, R.; Arriaga, E. A. "Determination of Properties of Individual Liposomes by Capillary Electrophoresis with Post-Column Laser-Induced Fluorescence Detection", *Anal. Chem.* 73, 1855-61 (2001).

Strack, A.; Duffy, C. F.; Malvey, M.; Arriaga, E. A. "Individual Mitochondrion Characterization: A Comparison of Classical Assays to Capillary Electrophoresis with Laser-Induced Fluorescence Detection", *Anal. Biochem.* 294, 141-7 (2001).

Boulat, O.; McLaren, D. G.; Arriaga, E. A.; Chen, D. D. Y. "Separation of Free Amino Acids in Human Plasma by Capillary Electrophoresis with Laser Induced Fluorescence: Potential for Emergency Diagnosis of Inborn Errors of Metabolism", *J. Chromatogr., B: Biomed. Sci. Appl.* 754, 217-28 (2001).

Duffy, C. F.; Malvey, M.; O'Kennedy, R.; Arriaga, E. A. "Determination of Electrophoretic Mobility Distributions through the Analysis of Individual Mitochondrial Events by Capillary Electrophoresis with Laser-Induced Fluorescence Detection", Accepted in *Anal. Chem.* in October 2001.

Anderson, A.; Gergen, J.; Arriaga, E. A. "Detection of Doxorubicin Metabolites in Cell Extracts and in Single Cells by Capillary Electrophoresis with Laser-Induced Fluorescence Detection". Submitted to *Journal of Chromatography B* in August 2001.

Krylov, S. N.; Arriaga, E. A.; Chan, N. W. C.; Dovichi, N. J.; Palcic, M. M. "Metabolic Cytometry: Monitoring Oligosaccharide Biosynthesis in Single cells by Capillary Electrophoresis", *Anal. Biochem.* 283 (2), 133-5 (2000).

Craig, D. B.; Arriaga, E.; Wong, J. C. Y.; Lu, H.; Dovichi, N. J. "Studies on Single Alkaline Phosphatase Molecules: Reaction Rate and Activation Energy of a Reaction Catalyzed by a Single Molecule and the Effect of Thermal Denaturation--The Death of an Enzyme", *J. Am. Chem. Soc.* 118 (22), 5245 -53 (1996).

Lee, I-H; Pinto, D.; Arriaga, E. A.; Dovichi, N. J. "Picomolar Analysis of Proteins Using Electrophoretically Mediated Microanalysis and Capillary Electrophoresis with Laser Induced Fluorescence Detection", *Anal. Chem.* 70, 4546-8 (1998).

Ocvirk, G.; Salimi-Moosavi, H.; Szarka, R. J.; Arriaga, E. A.; Andersson, P. E.; Smith, R.; Dovichi, N. J.; Harrison, D. J. "Single Cell Enzymatic Analysis on a Microchip: Lysing of Single Cells and Identification of Their β -galactosidase Activity", *Proceedings of Third Conference on Micro-total Analysis System, Banff, Alberta, Canada* (1998).