

BIOGRAPHICAL SKETCH

A. Professional Preparation

Lebanese University, Beirut, Lebanon	Chemistry	B.S., 1972
Lebanese University, Beirut, Lebanon	Chemistry	Ed. D., 1973
Claude-Bernard University, Lyon, France	Chemistry (Analytical)	M.S., 1976 "Tres Honorable"
Claude-Bernard University, Lyon, France	Chemistry (Analytical)	Ph.D. 1978 "Tres Honorable"

B. Appointments

1998-	Professor of Chemistry, Department of Chemistry, Oklahoma State University
1993-1998	Associate Professor of Chemistry, Department of Chemistry, Oklahoma State University.
1988-1993	Assistant Professor of Chemistry, Department of Chemistry, Oklahoma State University.
1985-1988	Research Scientist, Department of Chemical Engineering, Yale University.
1980-1985	Associate Research Scientist, Department of Chemical Engineering, Yale University.
1978-1980	Visiting Assistant Professor, Ecole Centrale de Lyon, Lyon, France.

C. Publications (Total Publications = 155)

Closely Related Publications

- (1) M. Zhang, G.K. Ostrander and Z. El Rassi, "Capillary Electrochromatography With Novel Stationary Phases. IV. Retention Behavior of Glycosphingolipids on Porous and Nonporous Octadecyl-Sulfonated-Silica," *J. Chromatogr. A.*, 887 (2000) 287-297.
- (2) M. Zhang, H.A. Melouk, K. Chenault and Z. El Rassi, "Determination of Cellular Carbohydrates in Peanut Fungal Pathogens and Baker's Yeast by Capillary Electrophoresis and Electrochromatography," *J. Agri. Food Chem.*, 49 (2001) 5265-5269.
- (3) M. Bedair and Z. El Rassi, "Capillary Electrochromatography with Monolithic Stationary Phases. 1.Preparation of Sulfonated Stearyl Acrylate Monoliths and Their Electrochromatographic Characterization with Neutral and Charged Solutes," *Electrophoresis*, 23 (2002) 2938-2948.
- (4) A Ramachandran, M. Zhang, D. Goad, G. Olah, J.R. Malayer and Z. El Rassi, "Capillary Electrophoresis and Fluorescence Studies on Molecular Beacon-Based Variable Length Oligonucleotide Target Discrimination," *Electrophoresis*, 24 (2003) 70-77.
- (5) D. Allen and Z. El Rassi, "Capillary Electrochromatography with Monolithic Silica Column. 1.Preparation of Silica Monoliths Having Surface-Bound Octadecyl Moieties and Their Chromatographic Characterization and Applications to the Separation of Neutral and Charged Species," *Electrophoresis*, 24 (2003) 408-420.

Other Significant Publications

- (1) W. Nashabeh and Z. El Rassi, "Capillary Zone Electrophoresis of Proteins with Hydrophilic Fused-Silica Capillaries," *J. Chromatogr.*, 559 (1991) 367-383.
- (2) W. Nashabeh and Z. El Rassi, "Coupled Fused Silica Capillaries for Rapid Capillary Zone Electrophoresis of Proteins," *J. High Resolut. Chromatogr.*, 15 (1992) 289-292.
- (3) Y. Mechref and Z. El Rassi, "Capillary Enzymophoresis of Nucleic Acid Fragments Using Coupled Capillary Electrophoresis and Capillary Enzyme Microreactors Having Surface-Immobilized RNA-Modifying Enzymes," *Electrophoresis*, 16 (1995) 2164-2171.
- (4) . M. Ju and Z. El Rassi, "Enantioseparations by Capillary Electrophoresis Using Chiral Glycosidic Surfactants. I. Evaluation of Cyclohexyl-pentyl- β -D-maltoside Surfactant," *Electrophoresis*, 20 (1999) 2766-2771.
- (5) T. Tegeler and Z. El Rassi, "On-Column Trace Enrichment by Sequential Frontal and Elution Electrochromatography. II. Enhancement of Sensitivity by Segmented Capillaries with z-Cell Configuration—Application to the Detection of Dilute Samples of Moderately Polar and Nonpolar Pesticides," *J. Chromatogr. A*, 945 (2002) 267-279.

D. Synergistic Activities

- (1) Scientific Committees and Editorial Activities: Member of the Scientific Committee of the Frederick Conference on Capillary Electrophoresis (1991-present); Member of the Organizing Committee of the International Symposium on Capillary Electrophoresis for Asia Pacific (1995-1996); Associate Editor of the Journal ELECTROPHORESIS, (1993-1997); Guest Editor, Journal of Chromatography (1996-1997); Deputy Editor of the Journal ELECTROPHORESIS (1998); Senior Deputy Editor of the Journal ELECTROPHORESIS (1999-present); Member of the Editorial Boards of: Journal of Liquid Chromatography & Related Technologies; Journal of Chromatography; Journal of Microcolumn Separation; Journal of Capillary Electrophoresis; Member of NIH Biophysical Chemistry review panel.
- (2) Invited Lectures: In the past 15 years, the P.I. delivered 144 presentations including 81 invited lectures with ca. \$91,000 in travel grants and awards.
- (3) Book Editing: The PI has edited: (i) One book entitled "Carbohydrate Analysis: High Performance Liquid Chromatography and Capillary Electrophoresis", Elsevier, Amsterdam, 1995; (ii) One book entitled "Carbohydrate Analysis by Modern Chromatography and Electrophoresis", Elsevier, Amsterdam, 2002; (iii) 24 Paper Symposia for the Journal ELECTROPHORESIS; (iv) A Thematic Issue of the Journal of Chromatography A on "Selectivity and Optimization in Capillary Electrophoresis." vol. 790, 1997.
- (4) Book Authored: The PI has authored a primer entitled "High Performance Capillary Electrophoresis of Carbohydrates", Beckman Instruments, Inc., Fullerton, CA, 1996.
- (5) International Visibility: Visiting Professor (series of lectures), Institute of Analytical Chemistry and Radiochemistry, Leopold-Franzens University of Innsbruck, June 2001; Member of Thesis Examining Committee of the Ph.D. candidate J.C.M. Waterval, Thesis entitled: "Strategies for the Bioanalysis of Therapeutically Active Peptides," Utrecht Univ., The Netherlands, Nov. 27, 2000.

E. Collaborators and Other Activities

(i) Collaborators:

Dr. Patricia Rayas-Duarte, Department of Biochemistry and Molecular Biology, OSU
Dr. Hassan Melouk, Department of Entomology and Plant Pathology, OSU
Dr. Jerry Malayer, Department of Physiological Sciences, Veterinary Medicine, OSU
Dr. Nicholas Kotov, Department of Chemistry, OSU/Michigan University.

(ii) Graduate and Postdoctoral Advisors:

Graduate: Professor Emeritus Maurice Porthault, Lyon France
Postdoctoral: Professor Csaba Horvath, Yale University, New Haven, CT

(iii) Thesis Advisor and Postgraduate-Scholar Sponsor

Ph.D. Thesis Advisor for:

Maria Bacolod– Neurogen Corp., Brandford, CT
Wassim Nashabeh – Genentech Inc., South San Francisco, CA
Jim Yu – Glaxo-SmithKline, King of Prussia, PA
Tim Smith – Southeastern Oklahoma State University, Durant, OK
Yehia Mechref – Indiana University, Bloomington, IN
Changming Yang – Neogenesis Pharmaceuticals, Inc., Cambridge, MA
Arron Karcher – Halliburton, Duncan, OK
Tony Tegeler –Indiana University, Bloomington, IN
William Wall – CRC & Associates Inc., Tulsa, OK
Darin Allen – SASOL, Austin, TX

Total Graduate Students Advised: 16 (10 Ph. D. and 6 M.S.). Total Undergraduate Students Advised: 6;
Visiting Scholars and Postdoctoral Fellows: 3