

Curriculum Vitae

CECILIA I. ZURITA LOPEZ, PhD

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PROFILE

Four (4) years' experience in higher education: teaching biochemistry-related courses, undergraduate and graduate student mentoring, thesis advising, and contributing to the success of the Chemistry & Biochemistry Department, College of Natural and Social Sciences, and California State University, Los Angeles. Ten (10) years' experience in community outreach related to STEM events: organizing and presenting workshops in English and Spanish, and working with parents and students of all grade levels. Twelve (12) years' experience in all aspects of academic research including laboratory techniques in biochemistry and molecular biology related to protein arginine methylation and enzyme characterization. Laboratory safety, general management, peer advising/training, presentations, manuscript preparation for publication, and grant writing.

EDUCATION

Ph.D. Biochemistry & Molecular Biology University of California, Los Angeles (UCLA) Thesis: Characterization of Eukaryotic Protein Arginine Methyltransferases: An Emerging Family of Regulatory Enzymes	2011
B.S. Biochemistry, GPA 3.5 California State University, Los Angeles (Cal State LA) Honors Thesis: The Role of Sulfiredoxin on Peroxiredoxins upon H ₂ O ₂ Activation	2004

RESEARCH TRAINING

Postdoctoral Researcher

Epigenetic Protein Changes Using Whispering Gallery Mode Microresonators (Dr. Andrea Armani, USC)	2013-2014
Decoding the Signal Sequence that Governs SRP Co-translational Protein Localization (Dr. Shu-ou Shan, Caltech)	2012-2013
Characterization of Eukaryotic Protein Arginine Methyltransferase 7 (PRMT7) (Dr. Steven Clarke, UCLA)	2011-2012

Undergraduate Researcher

Using Affinity Capillary Electrophoresis to Estimate Binding Constants Between ADP-Glucose Pyrophosphorylase and ATP (Dr. Frank A. Gomez, Cal State LA)	2000-2003
The Release of Vancomycin from Synthesized Fluoroalkyl Modified Poly(ethylene glycol) (Dr. Julia A. Kornfield, Caltech), summer undergraduate research.	2002

OTHER PROFESSIONAL TRAINING

Teaching to Increase Diversity and Equity in STEM (TIDES), Association of American Colleges & Universities (AAC&U), Crown Plaza LAX, Los Angeles, CA.	06/2019
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Teaching Every Student: Practical Tools for STEM Education, 2019 Southern California PKAL Regional Network Meeting, Association of American Colleges & Universities (AAC&U), Shanahan Meeting Center, Harvey Mudd College.	03/2019
Symposium on Los Angeles-Based (LAB) Curriculum, Coordinator: Dr. Beth Hoffman, Special Assistant to the President on LA-Based Curriculum, Cal State LA.	05/2016
Proposal Development Workshop for the National Science Foundation (NSF)'s Major Research Instrumentation (MRI) Program, Quality Education for Minorities (QEM) Network, Linthicum Heights, MD.	08/2015
Faculty Research and Education Development (FRED) Program, Minority Affairs Committee, American Society for Cell Biology (ASCB), Houston, TX.	07/2015
GRIT: CSU Symposium on University Teaching, CSU Institute for Teaching and Learning and the Center for Effective Teaching and Learning (CETL), Cal State LA.	3/2015
New Faculty Mentoring and Grant Writing Workshop, Minority Affairs Committee, American Society for Biochemistry and Molecular Biology (ASBMB), Washington DC.	06/2014

TEACHING EXPERIENCE

Assistant Professor of Biochemistry, Chemistry & Biochemistry Department, California State University, Los Angeles. Courses taught are: 2014-Present

Undergraduate Level Courses:

Life at the Molecular Level, (Biochemistry Lecture CHEM 431A/CHEM 4310), taught 3 times, and in progress (fall 2019) ~170 total students. Includes topics such as noncovalent interactions, thermodynamics, ionic equilibria and an overview of the four major macromolecules: nucleic acids, proteins, carbohydrates and lipids.

Enzyme Kinetics and Metabolism, (Biochemistry Lecture CHEM 431B / CHEM 4310/20), taught once, and in progress (fall 2019) ~75 total students. Includes topics such as how enzymes act as catalysts, measuring rates of enzyme-catalyzed reactions, how food is converted into energy, how plants convert light into energy, and how hormones control storage, synthesis, and breakdown of fat.

Transcription and Translation, (Biochemistry Lecture CHEM 431C / CHEM 4320), taught once, ~25 total students. How nucleotide sequences are interpreted: how proteins read genetic information to choose specific genes for expression, transcribe the information into RNA, and process RNA molecules. Includes topics such as the structure of genetic information, DNA damage and repair, and cellular trafficking.

Introduction to General Biochemistry Techniques, (Biochemistry Laboratory CHEM 432A / CHEM 4311), taught two times, ~24 total students. All steps of protein purification to purify an enzyme and analyze its activity via traditional enzyme kinetic assays. Includes proper use of equipment: pipettes, centrifuges, UV/Vis spectrophotometer, affinity and gel filtration chromatography.

Writing for Chemists, (Laboratory CHEM 3100), taught once, ~10 students. Includes reinforcement of lecture topics such genre, audience, scientific journal organization (abstract, introduction, methods, results, discussion and references); writing conventions, grammar/mechanics, purpose, tenses, moves.

Introduction to Biomolecules: Carbohydrates, Amino Acids, Lipids and Nucleic Acids (Lecture CHEM 280 / CHEM 2300), taught two times, ~85 total students. Includes topics such as the chemistry of life; particles, atoms, and molecules; chemical/functional groups; polarity, H-bonds, solubility and hydrophobic interactions; the building blocks to macromolecules and supramolecular structures; protein function; nucleic acid structure and function.

Molecular Capstone (Lecture CHEM 4890), taught two times, ~30 total students. Students integrate and critically reflect upon concepts and approaches from two or more disciplines within chemistry to address a societal concern in a culminating research paper.

Graduate Level Courses:

Protein Structure and Function (Lecture CHEM 507 / CHEM 5320). Graduate-level course. Taught three times, ~45 total students. Includes analysis of factors that determine native protein structure, stability and biological function. Recent advances in research literature.

NEW Course coming fall 2020: Post-translational Modifications of Proteins (Lecture CHEM 5310). An introduction to the diversity and importance of post-translational modifications (PTMs) as they relate to development, health, and disease. Recent advances in research literature.

Student Research Mentor 2014-Present

Approximately 10 students in research laboratory every year (both undergraduates and master's students)

Master's and Honors Research Thesis Advisor 2014-Present

As chair of the student thesis committee:

Three master's theses in progress

2019-2020

Defended: Seven master's theses, five undergraduate honors theses

2014-Present

As *member* of the student thesis committee:

Approximately twenty-five master's theses, three undergraduate honors theses

2014-Present

Note: Additional laboratory student researchers: five high school students, four undergraduate students and one post-baccalaureate student.

Summer / 1 Term

OTHER ACADEMIC SERVICE

Departmental Level (Chemistry & Biochemistry)

Chemistry and Biochemistry Club, ACS Student Chapter, **Faculty Advisor**

2014-Present

Assessment Committee, **Chair**

2019-Present

Recruitment and Retention Committee, **Chair**

2016-2017

Instructional Affairs Committee, **Chair**

2019-Present

Chemistry & Biochemistry Department / MORE Programs, **Undergraduate Advisor**

2016-Present

Elections Committee and Recruitment and Retention Committee, **Member**

2015-2016

Faculty Meetings, **Recorder**

2014-2015

Graduate Programs Admissions Committee, Elections Committee and Instructional Affairs Committee, **Member**

2014-2015

School Level (College of Natural and Social Science)

Inclusive Excellence, HHMI Grant, **Associate Director**

2018-Present

Radiation Safety Committee, **Member**

2015-Present

Academic Resources Committee (ARC), **Recorder**

2015-2016

NSS Preview Day

2014-2015

University Level

Chicano/a, Latino/a Raza Graduation, Cross Cultural Center, **Keynote Speaker**

06/2016

Chemistry Demonstrations Student, "Cal State LA, Here We Come," EPIC America Reads and Counts Program, **Student Volunteer Coordinator**

2014-Present

Student Policy Committee, Member	2019-Present
Student Workshops, Great Outcomes for East Los Angeles (GO EAST LA) Program, Guest Speaker	02/2016
GO EAST LA Scholarship Committee, Member	2015-2016
Honors Convocation and Commencement, Marshall	2014-2018
Annual Student Symposium on Research, Scholarship and Creative Activities (RSCA) Symposium, Office of Research and Development, Judge	2015-Present
New Faculty Orientation, Center for Effective Teaching and Learning, (CETL), Speaker	09/2015
Raymond E. Garcia Memorial Award, Co-founder (raised approximately \$53,000, as of May 2019).	10/2014

MEMBERSHIPS (PROFESSIONAL ORGANIZATIONS)

Southern California Chapter, American Chemical Society (ACS), American Society for Biochemistry and Molecular Biology (ASBMB), Society for Advancement of Chicanos and Native Americans in Science (SACNAS), American Society for Cell Biology (ASCB), Chicanos/Latinos University Association (CLUA-Cal State LA), Cal State LA Alumni Association.

CONFERENCE PRESENTATIONS

<i>Protein Arginine Methyltransferases: A Springboard for Crosstalk</i> , <u>MORE Programs Research Retreat</u> , California State University, Los Angeles, poster presentation. UCLA Conference Center, Lake Arrowhead, CA.	09/2019
<i>Investigating the Interaction between Arginine 8 Methylation and Serine 10 Phosphorylation in Histone H3</i> , Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ. Invited speaker .	11/2017
<i>Protein Arginine Methyltransferase 7 (PRMT7) Specifically Targets RXR Sites in Arginine Rich Regions: A Springboard for Crosstalk</i> <u>American Society for Cell Biology (ASCB) National Meeting</u> , San Diego, CA.	12/2015
<i>Using whispering gallery mode sensors to detect epigenetic changes in Histone H4</i> <u>MORE Programs Research Retreat</u> , California State University, Los Angeles, oral presentation. UCLA Conference Center, Lake Arrowhead, CA.	09/2013
<i>Formation of ω-N^G-Monomethylarginine as the Sole Product of Human Protein Arginine Methyltransferase 7 (PRMT7): a True Type III Methyltransferase?</i> Zurita-Lopez, C. ; Sandberg, T.; Kelly, R. and Clarke, S.G. <u>Cellular and Molecular Biology (CMB) Retreat</u> , oral presentation. UCLA Conference Center, Lake Arrowhead, CA.	10/2010
<i>Human Protein Arginine Methyltransferase 7 (PRMT7) is not a Type II Methyltransferase.</i> Zurita-Lopez, C. ; Sandberg, T.; Kelly, R. and Clarke, S.G. <u>FASEB Biological Methylation: From DNA to Histones</u> , poster presentation. Carefree, AZ.	06/2010
<i>Formation of ω-N^G-Monomethylarginine as the Sole Product of Human Protein Arginine Methyltransferase 7 (PRMT7): a True Type III Methyltransferase?</i> Zurita-Lopez, C. ; Sandberg, T.; Kelly, R. and Clarke, S.G. <u>ASBMB Experimental Biology Conference</u> , oral and poster presentation. Anaheim, CA.	04/2010
<i>Formation of ω-N^G-Monomethylarginine as the sole product validates Protein Arginine Methyltransferase 7 as the first Type III Methyltransferase</i> , Zurita-Lopez, C. ; Sandberg, T. and Clarke, S.G. <u>Cellular and Molecular Biology (CMB) Retreat</u> , poster presentation. UCLA Conference Center, Lake Arrowhead, CA.	10/2009

<i>The Role of Protein Arginine Methyltransferases in Immunological Responses</i> Zurita-Lopez, C. ; Khare, S.; Yang, M.; Mamula, M. and Clarke, S.G. <u>FASEB Biological Methylation: From DNA to Histones</u> , poster presentation. Carefree, AZ	06/2007
<i>Using Affinity Capillary Electrophoresis to Estimate Binding Constants Between ADP-Glucose Pyrophosphorylase and ATP</i> Zurita, C. ; Gomez, F.A.; Borra, M.; Polder, N. and Meyer, C. <u>HPLC 2003</u> , poster presentation. Nice, France.	06/2003
<i>Using Affinity Capillary Electrophoresis in the Determination of Binding Constants for ADP-Glucose Pyrophosphorylase</i> Zurita, C. ; Baumbach, R.; Meyer, C.; and Gomez, F.A <u>Fifteenth Annual California State University Biotechnology Symposium</u> , poster presentation. Pomona, CA.	01/2003
<i>Estimating Binding Constants Between ADP-Glucose Pyrophosphorylase and ATP Using Capillary Electrophoresis</i> Zurita, C. ; Borra, M.; Polder, N.; Meyer, C.; Gomez, F.A. <u>Southern California Conference on Undergraduate Research (SCCUR)</u> , poster presentation. Pasadena, CA.	11/2002
<i>The Release of Vancomycin From Synthesized Fluoroalkyl Modified Poly(ethylene glycol)</i> Zurita, C. ; Lammertink, R.G.; Kornfield, J.; Gomez, F.A. <u>Summer Undergraduate Research Fellow – Minority Undergraduate Research Fellow (SURF-MURF) Program</u> , the Center for the Science and Engineering of Materials (CSEM) Program, oral and poster presentation.	08/2002
<i>Using Affinity Capillary Electrophoresis to Estimate Binding Constants Between ADP-Glucose Pyrophosphorylase and Ligands</i> Kaddis, J.; Zurita, C. ; Borra, M.; Polder, N.; Meyer, C. and Gomez, F.A. <u>Society for Advancement of Chicanos and Native-Americans in Science National Conference (SACNAS)</u> poster presentation. Anaheim, CA.	09/2002
<i>On-Column Ligand Synthesis Coupled to Partial-Filling Affinity Capillary Electrophoresis.</i> Zhang, Y.; Kodama, C.; Zurita, C. and Gomez, F.A. <u>Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy</u> , (PITTCON 2002), poster presentation. New Orleans, LA.	03/2002
<i>Separation of DNA Fragments by Capillary Electrophoresis in Uncoated Silica Columns Using Hydroxypropylmethyl Cellulose as the Sieving Matrix</i> , Villareal, V.; Zurita, C. ; Zhang, Y. and Gomez, F. A. <u>Southern California American Chemical Society Undergraduate Research Conference</u> , poster presentation. Santa Barbara, CA.	04/2001
<i>On-Column Ligand Synthesis Coupled to Partial-Filling Affinity Capillary Electrophoresis</i> , Zhang, Y.; Kodama, C.; Zurita, C. ; and Gomez, F.A. <u>221st American Chemical Society National Meeting</u> , poster presentation. San Diego, CA.	03/2001

OTHER SPEAKER INVITATIONS AND SCIENTIFIC PRESENTATIONS

“Investigating the Interaction Between Arginine Methylation and Serine Phosphorylation in Histone H3, two Opposing Modifications?” Epigenomics and Cancer, Keck School of Medicine, University of Southern California (USC).	10/2019
“5 Simple Things You Can Do to Boost Your Academic Success,” Chemistry & Biochemistry Club, Cal State LA.	02/2019
“First Generation Faculty Panel” Mind Matters Initiative, University Library, Cal State LA.	03/2019
“How to ask for Letters of Recommendation,” SACNAS Student Chapter, Cal State LA.	09/2016
“How to Present Scientific Posters,” MORE Programs Summer Workshops, Annual Speaker.	2015-Present
“Exploring the Interaction Between Arginine Methylation and Serine Phosphorylation in Histone H3,” STEM-PLEDGE, University of California, Los Angeles (UCLA).	05/2016
“Life after the PhD,” Panelists: Diana Azurdia, Leyma De Haro, Shandee Dixon, Angelina Hernandez, Nadine Martinez, Monica Moreno, Maura Palacios Mejia, Benjamin Bush and Cecilia Zurita-Lopez, CSU-LSAMP BD, Cal State LA.	04/2015

“The Interaction Between Arginine Methylation and Serine Phosphorylation in Histone H3,” East Los Angeles College (ELAC).	11/2015
“Choosing a Research Mentor and Group,” MORE Programs Summer Workshops, Cal State LA.	08/2014
“Faculty Panel 1: Is a Post Doc Really Necessary?” Postdoctoral Researcher Panel, MORE Programs Retreat, California State University, Los Angeles, UCLA Conference Center, Lake Arrowhead, CA.	09/2013

AWARDS

Emerging Scholar of the Year, Diverse: Issues in Higher Education.	2017
Program for Recognition of Undergraduate Distinction (PROUD) Scholar, California State University Louis Stokes Alliance for Minority Participation (LSAMP).	2014-2015
<i>Best Thematic Poster Award Winner: Genomics and Quantitative Proteomics Theme Meeting, \$250 prize</i> ASBMB Experimental Biology Conference, oral and poster presentation. Anaheim, CA.	05/2010
<i>Best Poster Presentation Winner, \$200 prize.</i> Cellular and Molecular Biology (CMB) Retreat, UCLA Conference Center, Lake Arrowhead, CA.	10/2009

GRANTS

Co-PI, MRI: Acquisition of an MALDI TOF Instrument for of Research and Research training at CSULA, National Science Foundation (NSF), \$206,749	2019-2021
Associate Director, Inclusive Excellence Grant, Howard Hughes Medical Center (HHMI), \$1,000,000	2018-2022
National Institute of General Medical Sciences (NIGMS)	
<ul style="list-style-type: none"> The Crosstalk Between Arginine Methylation and Serine Phosphorylation in Histone H3, SC2 Award, 1SC2GM118202-01, \$428,000. 	2016-2019
<ul style="list-style-type: none"> Diversity Supplement Program. PA-12-149. Re: 3 DP2 OD007391-01S2, \$45,000. 	2013-2014
Research, Scholarship and Creative Activity Mini-Grant, Office of Research and Development, University Awards and Leaves Committee, Cal State LA:	
<ul style="list-style-type: none"> Investigating the Effects of UV light on PRMTs, \$5,000. 	2016-2017
<ul style="list-style-type: none"> Exploring Modifications in PGC-1α: a protein activated by Insulin, \$5,000. 	2015-2016
<ul style="list-style-type: none"> Crosstalk between Methylation and Phosphorylation: Significance in Cellular Signaling, \$5,000. 	2014-2015
National Institutes of Health (NIH)	
<ul style="list-style-type: none"> Ruth L. Kirschstein National Research Service Award (NRSA) Individual Minority Access to Research Careers (MARC) Predoctoral Fellowship, Re: F31GM78761, ~\$180,000. 	2006-2010

COMMUNITY INVOLVEMENT AND OUTREACH

LAUSD Mass Spectrometry Program, Curriculum Development, Advisory Board Member	2018-Present
5 th Grade Culmination Ceremony, City Terrace Elementary School, Keynote Speaker	June 2019
MORE Programs Open House, orientation session for parents of PhD-bound students, (presented in Spanish), Annual Speaker	2017-Present
Jacobo M. Patlán Memorial Scholarship, Advisory Board Member	2014-Present

College Bound Today (CBT), Montebello School District Scholastic Support Program, Schurr High School, Montebello, CA, Volunteer Mentor	2016-2018
LabTV, Discover the people shaping the future of science, medicine and the care of patients. Funded by the National Institutes of Health (NIH), <i>featured</i> .	2014-Present
Power Latina of the Week, a Latina Success Story, The <i>Adelante</i> Movement, <i>featured</i> .	2014-2015
Science Education, Stem Woman on Fire, Thor: The Dark World Ultimate Mentor Adventure. <i>Encouraging girls into STEM fields by partnering them with mentors, featured</i> .	2014-2015

PUBLICATIONS

*denotes student mentee

- Hudnut, A., Lash-Rosenberg, L., Xin, A., *Leal Doblado, J., **Zurita-Lopez, C.I.**, Wang, Q., Armani, A.M. Role of extracellular matrix in the biomechanical behavior of pancreatic tissue” *ACS Biomaterials Science & Engineering*. 2018, 4 (5), 1916-1923.
- Yang, Y., Hadjikyriacou, A., Xia, Z., Gayatri, S., Kim, D., **Zurita-Lopez, C.I.**, *Kelly, R., Guo, A., Li, W., Clarke, S.G., and Bedford, M. PRMT9 is a Type II methyltransferase that methylates the splicing factor SAP145. *Nature Commun*. 2015, 6:6428.
- Feng, Y., Maity, R., Whitelegge, J.P., Hadjikyriacou, A., Li, Z., **Zurita-Lopez C.**, Al-Hadid, Q., Clark, A.T., Bedford, M.T., Masson, J.Y., Clarke, S.G. Mammalian protein arginine methyltransferase 7 (PRMT7) specifically targets RXR sites in lysine- and arginine-rich regions. *J Biol Chem*. 2013, 288(52), 37010-25.
- Yang, M.L., Gee, A.J., Gee, R.J., **Zurita-Lopez, C.I.**, Khare, S., Clarke, S.G., and Mamula, M.J. Lupus autoimmunity altered by cellular methylation metabolism. *Autoimmunity*. 2013, 46(1), 21-31.
- Young, B.D., Weiss, D.I., **Zurita-Lopez, C.I.**, Webb, K.J., Clarke, S.G., and McBride, A.E. Identification of Methylated Proteins in the Yeast Small Ribosomal Subunit: A Role for SPOUT Methyltransferases in Protein Arginine Methylation. *Biochemistry*. 2012, 51(25), 5091-5104.
- Zurita-Lopez, C.I.**, *Sandberg, T., *Kelly, R., and Clarke, S.G. Human protein arginine methyltransferase 7 (PRMT7) is a type III enzyme forming ω -N^G-monomethylated arginine residues. *J. Biol. Chem*. 2012, 287(11), 7859-7870.
- Webb, K.J. Al-Hadid, Q. **Zurita-Lopez, C.I.**, Young, B.D., Lipson, R.S., and Clarke, S.G. The Ribosomal L1 Protuberance in Yeast is Methylated on a Lysine Residue Catalyzed by a Seven-Beta Strand Methyltransferase. *J. Biol. Chem*. 2011, 286(21), 18405-18413.
- Rust, H.L., **Zurita-Lopez, C.I.**, Clarke, S.G. and Thompson, P.R. Mechanistic studies on the Transcriptional Coactivator Protein Arginine Methyltransferase 1. *Biochem*. 2011, 50(16), 3332-3345.
- Butler, J.S., **Zurita-Lopez, C.I.**, Clarke, S.G., Bedford, M.T. and Dent, S.Y.R. Protein Arginine Methyltransferase 1 (PRMT1) Methylates Ash2L, A Shared Component of Mammalian Histone H3K4 Methyltransferase Complexes. *J. Biol. Chem*. 2011, 286(14), 12234-12244.
- Webb, K.J., **Zurita-Lopez, C.I.**, Al-Hadid, Q., Laganowsky, A., Young, B.D., Lipson, R.S., Souda, P., Whitelegge, J.P. and Clarke, S.G. Yeast large subunit ribosomal protein Rpl3 contains a 3-methylhistidine residue whose modification is dependent upon the YIL110W methyltransferase. *J. Biol. Chem*. 2010, 285(48), 37598-37606.
- Fisk, J.C., **Zurita-Lopez, C.I.**, Sayegh, J., Tomasello, D.L., Clarke, S.G. and Read, L.K. TbPRMT6 is a Type I protein arginine methyltransferase that contributes to cytokinesis in *Trypanosoma brucei*. *Eukaryotic Cell* 2010, 9(6), 866-877.

- Lakowski, T.M., **Zurita-Lopez, C.I.**, Clarke, S.G. and Frankel, A. Approaches to measuring the activities of protein arginine N-methyltransferases. *Anal Biochem* 2009, 397(1), 1-11.
- Fisk, J.C., Sayegh J., **Zurita-Lopez, C.I.**, Menon, S.; Presnyak, V., Clarke, S.G. and Read, L.K. A type III protein arginine methyltransferase from the protozoan parasite *Trypanosoma brucei*. *J Biol Chem* 2009, 284(17), 11590-600.
- McBride, A.E., **Zurita-Lopez, C.I.**, Regis, A., Blum, E.; Conboy, A., Elf, S. and Clarke, S. Protein Arginine Methylation in *Candida Albicans*: Role in Nuclear Transport. *Euk Cell* 2007, 6(7), 1119-1129.
- Yao X., Li X., Toledo, F., **Zurita-Lopez, C.**, Gutova, M., Momand, J. and Zhou, F. Subattomole oligonucleotide and p53 cDNA determinations via a high-resolution surface plasmon resonance combined with oligonucleotide-capped gold nanoparticle signal amplification. *Anal Biochem* 2006, 354(2), 220-8.
- Kaddis, J., **Zurita, C.**, Moran, J., Borra, M.; Polder, N., Meyer, C.R. and Gomez, F.A. Estimation of Binding Constants for the Substrate and Activator of *Rhodobacter sphaeroides* adenosine 5'-diphosphate-glucose pyrophosphorylase using affinity capillary electrophoresis, *Anal Biochem* 2004, 327(2), 252-260.
- Villareal, V., Zhang, Y., **Zurita, C.**, Moran, J., Silva, I. and Gomez, F.A. Separation of DNA by Capillary Electrophoresis in Uncoated Silica Columns Using Hydroxypropylmethyl Cellulose as the Sieving Matrix, *Anall Lett* 2003, 36(2), 451-463.
- Villareal, V., Kaddis, J., Azad, M., **Zurita, C.**, Silva, I., Hernandez, L., Rudolph, M., Moran, J. and Gomez, F.A. Partial-filling Affinity Capillary Electrophoresis, *Anal Bioanal Chem* 2003, 376(6), 822-831.
- Zhang, Y., Kaddis, J., Silverio, C., **Zurita, C.**, and Gomez, F.A. On-column Enzyme-Catalyzed Microreactions Using Capillary Electrophoresis: Quantitative Studies, *J Cap Elec Micro Tech* 2002, 7(1&2), 1-9.
- Zhang, Y., Kodama, C., **Zurita, C.**, and Gomez, F.A. On-Column Ligand Synthesis Coupled to Partial-Filling Affinity Capillary Electrophoresis to Estimate Binding Constants of Ligands to a Receptor, *J Chrom A* 2001, 928, 233-241.