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Education:

- Ph.D., Chemistry - The University of California, Davis, CA, 1997-2002
Chemistry, December 2002, Prof. Carlito B. Lebrilla
- M.S., Chemistry - The University of Georgia, Athens, GA, 1992-1994
Chemistry, December 1994, Prof. Jon I. Amster
- B.S., Chemistry - Michigan State University, East Lansing, MI, 1986-1991
Chemistry, June 1991

Industry and professional positions:

- *Facility Director / Group Leader:*
IFOM-IEO Milan. Proteomics.
March 1, 2007-present.
- *Research Assistant Professor:*
Northwestern University, Evanston, IL. Proteomics and small molecules mass spectrometry.
March 1, 2006-2007.
- *Post-doctoral Researcher:*
University of Michigan, Ann Arbor, MI, 2005-2006.
University of Cambridge, Cambridge, UK, 2002-2005
New York University, New York, NY, 2001-2002.
- *Scientist II, R&D:*
Pharmacia, Kalamazoo, MI. Pharmaceuticals mass spectrometry.
1995-1996.
- *Teaching Assistant:*
Department of Biochemistry, The University of Cambridge, UK, 2004-2005.
Department of Chemistry, The University of California - Davis, 1997-1999.
Department of Chemistry, The University of Georgia, 1992-1993.
- *Research Assistant:*
Department of Chemistry, The University of California - Davis, 1999-2001.
Department of Chemistry, The University of Georgia, 1993-1994.
- *Lab Technician:*
MSU Organic Synthesis Laboratory, Michigan State University, East Lansing, MI, 1991.
Organic chemistry synthesis
Department of Plant and Soil Sciences, Michigan State University, East Lansing, MI,
1987-1991. Anaerobic bacteria use for depletion of PCB and PCE in Great Lakes sludge.

Research Experience:

- *Postdoctoral Research:* Department of Chemistry, University of Michigan, August 2005-January 2006 (research advisor: Dr. Kristina Håkansson)
Electron Detachment Dissociation mechanistic studies in FT-ICR-MS.
- *Postdoctoral Research:* Cambridge Centre for Proteomics, Department of Biochemistry, University of Cambridge, UK, 2003-2005 (research advisor: Dr. Kathryn Lilley)
Phosphorylation studies, quantitative proteomics, FT-ICR and LC/q-TOF instrumentation, DiGE gels.

- *Postdoctoral Research*: Skirball Institute, New York University School of Medicine, New York, NY, 2002-2003 (research advisor: Dr. Thomas A. Neubert)
Functional proteomics, phosphorylation, LC/q-TOF instrumentation, cell culture, immunoprecipitation, immunoblot, SDS-PAGE gels.
- *Doctoral Research*: University of California, Davis, CA, 1997-2002 (research advisor: Prof. Carlito B. Lebrilla)
Dissertation: Chiral Studies of amino acids, peptides and pharmaceuticals via Fourier-Transform Ion-Cyclotron Mass Spectrometry
- *Visiting Scientist*: San Francisco State University, San Francisco, CA, 2001 (research advisor: Prof. Scott Gronert)
Study and implementation of an FT-ICR chiral drugs analysis method on an LCQ Ion Trap.
- *Master's Research*: University of Georgia, Athens, GA, 1992-1994 (research advisor: Prof. Jon I. Amster)
Thesis: Design of a Continuous-flow MALDI-TOF-CE Interface.

Professional Associations:

- American Society for Mass Spectrometry
- American Chemical Society

Honors and Awards:

- *NSF Research Experience for Undergraduates Fellowship*: Michigan State University, June 1989 - Sept. 1990.

Publications:

1. Civril, F., Wehenkel, A., Giorgi, F.M., Santaguidda, S., DiFonzo, A., Grigorean, G., Ciccarelli, F.D., Musacchio, A. "Structural analysis of the RZZ complex reveals common ancestry with multisubunit vesicle tethering machinery" *Structure*, 2010, 18(5), 616.
2. Kalli A., Grigorean G., Håkansson K. "Electron Induced dissociation of singly Deprotonated Peptides" *submitted to J. Am. Soc. Spectrom.*
3. Grigorean, G., Cong, X., Lebrilla C. B. "Chiral analyses of Peptides by Ion/Molecule reactions" *Int. J Mass Spectrom.* 2004, 243, 71-77.
4. Jordan, B. A., Fernholz, B. D., Boussac, M., Xu, C., Grigorean, G., Ziff, E. B., Neubert, T.A. "Identification and Verification of Novel Rodent Postsynaptic Density Proteins" *Mol. Cell Proteomics*, 2004, 3, 857-871.
5. Grigorean, G., Gronert, S., Lebrilla C. B. "Enantiomeric excess analysis of amino acids and pharmaceuticals on an LCQ Ion Trap" *Int. J Mass Spectrom.* 2002, 219, 79-87.
6. Grigorean, G., Lebrilla, C., B. "Enantiomeric Analysis of Pharmaceutical Compounds by Ion/Molecule Reactions" *Anal. Chem.* 2001, 73(8), 1684-1691.
7. Ahn, S., Ramirez, J., Grigorean, G., Lebrilla, C. B. "Chiral Recognition in gas-phase cyclodextrin: Amino acid complexes – Is the three point interaction still valid in the gas-phase?" *J. Am. Soc. Spectrom.* 2001, 12(3), 278-287.
8. Grigorean, G., Ramirez, J., Ahn, S., Lebrilla, C. B. "A Mass Spectrometry Method for the Determination of Enantiomeric Excess in Mixtures of D, L-Amino Acids" *Anal. Chem.*, 2000, 72(18), 4275-4281.
9. Ramirez, J., Ahn, S., Grigorean, G., Lebrilla, C. B. "Evidence for the Formation of Gas-Phase Inclusion Complexes with Cyclodextrins and Amino Acids" *J. Am. Chem. Soc.*, 2000, 122(29), 6684-6890.
10. Grigorean, G., Carey, I. R., Amster, I. J. "Studies of exchangeable protons in the matrix assisted laser desorption/ionization process" *Eur. Mass Spec.*, 1996, 2(2-3), 139-143.

Presentations:

1. "FeOx, ZrOx, HfOx and TiOx nano-enhanced MALDI plates for selective capture of phosphorylated and sialylated peptides" (Poster) 58th ASMS Conference on Mass Spectrometry, Salt Lake City, UT, 2010.
2. "TiOx nanostructured coating on MALDI plate for capture of phosphopeptides" (Poster) 57th ASMS Conference on Mass Spectrometry, Philadelphia, PA, 2009.
3. "Biomarker investigation via stable isotope labeling and mass spectrometry for non-small lung cancer serum" (Invited talk) Sixth Annual Conference on Imaging in Oncology - SMI, London, UK, 2009.
4. "MALDI-TOF Mass Spectrometry for Biomolecules – Nano-Chemistry and the Mass spectrometer" (Invited talk) RICHMAC 2007, Fiera Milano Tech, Milan, Italy, 2007.
5. "Anion -electron reactions as a tool for establishing the presence and location of acidic post-translational modifications in singly charged peptides" (Poster) 54th ASMS Conference on Mass Spectrometry, Seattle, WA, 2006.
6. "Peptide sequencing by anion-electron reactions in Fourier transform ion cyclotron resonance mass spectrometry" (Poster) 231st ACS National Meeting, Atlanta, GA, 2006.
7. "Optimisation/Modifications to an FT-ICR mass spectrometer" (Poster) Consortium for Post-Genome Science, Manchester, UK, 2004.
8. "Study of the proteome via mass spectrometry" (Invited talk) Hong Kong University, Hong-Kong, 2004.
9. "Functional proteomics study of Ephrin signaling" (Poster) Symposium on Synaptic Plasticity, Skirball Institute of Biomolecular Medicine, New York, NY, 2003.
10. "Enantiomeric Analysis of Peptides via FT-ICR MS" (Poster) 49th ASMS Conference on Mass Spectrometry, Chicago, IL, 2001.
11. "Enantiomeric analysis of Peptides via FT-ICR MS" (Poster) 3rd North American FT-ICR Conference, Austin, TX, 2001.
12. "Chiral determination of pharmaceutical compounds" (Invited talk) Gas-Phase Ion-Molecule Chemistry Conference, Lake Arrowhead, CA, 2001.
13. "Mass spectrometric studies of enantiomeric mixtures" (Invited talk) Localized Fields Seminar Series, University of California, Davis, CA, 2001.
14. "Quantitative Enantiomeric analysis of drugs via FT-ICR MS" (Poster) 220th National Meeting of the American Chemical Society, Washington DC, 2000.
15. "Development of a general mass spectrometric method for determination of enantiomeric composition" (Invited talk) 48th ASMS Conference on Mass Spectrometry, Long Beach, CA, 2000.
16. "Quantitative enantiomeric analysis of drugs via FT-ICR MS" (Poster) 48th ASMS Conference on Mass Spectrometry, Long Beach, CA, 2000.
17. "A general mass spectrometric method for the rapid determination of enantiomeric excess in mixtures of chiral drugs and amino acids" (Invited talk) Gas-Phase Ion-Molecule Chemistry Conference, Lake Arrowhead, CA, 2000.
18. "Chiral differentiation of Chiral Drugs by Fourier Transform Mass Spectrometry Novel Aspects: Determination of enantiomeric excess in drugs by FT-MS" (Poster) 47th ASMS Conference on Mass Spectrometry, Dallas, TX, 1999.
19. "Progress in the design of a continuous-flow-MALDI interface of a TOF-MS" (Poster) 43rd ASMS Conference on Mass Spectrometry, Atlanta, GA, 1995.
20. "Design of a continuous-flow-MALDI interface" (Bruker – Invited talk) 43rd ASMS Conference on Mass Spectrometry, Atlanta, GA, 1995.
21. "Alternative matrices for Laser Desorption of peptides and neutral molecules" (Poster) 42nd ASMS Conference on Mass Spectrometry, Chicago, IL, 1994.