

BIOGRAPHICAL SKETCH

NAME Carlito B. Lebrilla	POSITION TITLE Professor		
CURRENT AFFILIATION University of California, Davis			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of California, Irvine	B.S.	1977-1981	Chemistry
University of California, Berkeley	PhD	1981-1985	Chemistry
Technical University Berlin, Germany	Postdoc	1985-1987	Chemistry
University of California, Irvine	Postdoc	1987-1988	Chemistry

List of five recent publications by the candidate: (Total 170)

(1) Frontiers in Glycomics: Bioinformatics and Biomarkers in Disease, Packer, N.H.; von der Lieth, C.W.; Aoki-Kinoshita, K.F.; Lebrilla, C.B.; Paulson, J.C.; Raman, R.; Rudd, P.; Sasisekharan, R.; Taniguchi, R.; York, W.S. *Proteomics*, **2007**, in press.

(2) Glycomics analysis of serum: a potential new biomarker for ovarian cancer? Leiserowitz, G.S.; Lebrilla, C.B.; Miyamoto, S.; An, H.J.; Duong, H.; Kirmiz, C.; Li, B.S.; Lam, K.S. *Int. J. Gynecol. Cancer*, **2007**, In Press.

(3) Analysis and Quantitation of Fructooligosaccharides using Matrix-Assisted Laser Desorption/Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Seipert, Richard; Barboza, Mariana; Niñonuevo, Milady; LoCascio, Riccardo; Mills, David; Freeman, Samara; German, J.; Lebrilla, Carlito, *Anal. Chem.* **2007**, in Press.

(4) Daily Variations in Oligosaccharides of Human Milk Determined by Microfluidic Chips and Mass Spectrometry, Niñonuevo, M.R.; Perkins, P.D.; Francis, J.; Lamotte, L.M.; LoCascio, R.G.; Freeman, S.L.; Mills, D.A.; German, J.B.; Grimm, R.; Lebrilla, C.B. *J. Ag. Food. Chem.* **2007**, in Press.

(5) A method for profiling mucin oligosaccharides from gastric biopsies of rhesus monkeys with and without Helicobacter pylori infection, Cooke, C.; An, H.J.; Kim, J.; Solnick, J.; Lebrilla, C.B. *Anal. Chem.* **2007**, in Press.

Please indicate in 200 words or less the reason(s) why you would be a suitable candidate for the HUPO Council elections.

The focus of my group is in posttranslational modifications of proteins and specifically glycosylation. We develop mass spectrometry and chromatography-based methods for determining glycosylation in proteins. This expertise gives me a perspective that may not be readily apparent to the majority of the proteomics community. However, glycosylation as a source of disease markers and as an important posttranslational modification is gaining considerable interest. My scientific expertise also includes glycoproteomics, the development of Fourier transform ion cyclotron resonance mass spectrometry, gas-phase ion-molecule reactions, chiral differentiation of amino acids and pharmaceutical molecules, and bioparticle mass spectrometry. In addition, I have been on the advisory board of several scientific journals and of several societies including the American Society for Mass Spectrometry (Member at large) and the Asilomar mass spectrometry committee. I have also organized or co-organized a number of meetings and have chaired and organized several sessions in large conferences. In short, I have the combination of broad scientific expertise and organizational skills that would be of use to an organization such as HUPO.