BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Sergio Encarnación	Head of Proteomics laboratory, Center of Genomic Sciences-University of México.
CURRENT AFFILIATION Center of Sciences Genomics –University of México	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
University of Guerrero, Mexico	B.Sc	1979-1984	Chemistry, and Biology.
University of Morelos, Mexico	M.D.	1986-1989	Parasitology
University of Mexico, Mexico	Ph.D.	1992-1998	Biomedical Sciences.
University of Harvard, Medical School, USA.	PostDoct	1999-2000	Molecular Genetics.

List of five recent publications by the candidate:

Meneses N, Mendoza-Hernández G, Encarnación S. The extracellular proteome of *Rhizobium etli* CE3 in exponential and stationary growth phase. Meneses *.Proteome Sci. 2010 Oct 14;8:51.

Emmanuel Salazar, Javier Díaz, Gabriel Moreno, Gabriel Martínez, Yolanda Mora, Jaime Mora, and Sergio Encarnación. Applied Characterization of NifA-RpoN2 Regulon in *Rhizobium etli* in Free Life and in Symbioses with *Phaseolus vulgaris*. and Environmental Microbiology 2010;76: 4510-4520.

Modeling core metabolism in cancer cells: surveying the topology underlying the Warburg effect.Resendis-Antonio O, Checa A, Encarnación S. PLoS One. 2010 Aug 25;5(8):e12383.

argC Orthologs from Rhizobiales Show Diverse Profiles of Transcriptional Efficiency and Functionality in *Sinorhizobium meliloti*. Díaz R, Vargas-Lagunas C, Villalobos MA, Peralta H, Mora Y, Encarnación S, Girard L, Mora J. J Bacteriol. Epub 2010 Nov 12.

Martínez-Salazar JM, Salazar E, Encarnación S, Ramírez-Romero MA, Rivera J. Role of the extracytoplasmic function sigma factor RpoE4 in oxidative and osmotic stress responses in *Rhizobium etli*. Journal of Bacterioly. 2009;191:4122-32.

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

I have been working on proteomics to understand the global metabolism of the Rhizobium etli (nitrogen fixing bacteria) during the aerobic- and fermentative metabolism, which was the subject of my PhD. For this purpose I was trained at the Frederick Neidhardt laboratory (pioneer on proteomics) for a short period of time. Subsequently, I established the first proteomic laboratory in Mexico which enabled me to publish several works on the field of proteomics. I was both vice-president and founder of the Mexican Proteomics Society in 2005 with the aim of promoting this field in our Mexico. Our first achievement was to organize the 1st

Mexican Symposium of Mass Spectrometry – Cellular and Molecular Proteomics, in parallel with a short theoretical course on the Fundamental of Mass Spectroscopy Applied to Proteomics. As vice-president of the Mexican Proteomic Society (2005 -2007) I organized the 2007 Proteomic Congress in Guanajuato, Mexico. Currently, I am also a President of the Mexican Genomics Society.