
BIOGRAPHICAL SKETCH

NAME Gilbert S. Omenn, M.D., Ph.D.	POSITION TITLE Professor of Internal Medicine, Human Genetics, Public Health, and Computational Medicine & Bioinformatics		
CURRENT AFFILIATION University of Michigan, Ann Arbor, MI, 48109-2218			
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
Princeton University, Princeton, NJ	A.B.	1961	Biology
Harvard Medical School, Boston, MA	M.D.	1965	Medicine
Massachusetts General Hospital, Boston, MA		1967	Int Medicine residency
University of Washington, Seattle, WA	Ph.D.	1972	Human Genetics/ Medical Genetics Fellowship

List of five recent publications by the candidate:

Menon R, Omenn GS. Proteomic characterization of novel alternative splice variant proteins in human epidermal growth factor receptor 2/neu-induced breast cancers. *Cancer Res* 2010; 70 (9):3440-3449. PMID: 20388783.

Omenn GS, Yocum AK, Menon R. Alternative splice variants, a new class of protein cancer biomarker candidates: findings in pancreatic cancer and breast cancer with systems biology implications. *Disease Markers* 2010;28(4):241-251. PMID: 20534909.

Sartor MA, Mahavisno V, Keshamouni VG, Cavalcoli J, Wright Z, Karnovsky A, Kuick R, Jagadish HV, Mirel B, Weymouth T, Athey B, Omenn GS. ConceptGen: a gene set enrichment and gene set relation mapping tool. *Bioinformatics* 2010; 26:456-463. PMID: 20007254.

Omenn GS. Bioinformatics and systems biology of cancers. In Ruddon R (ed), *Progress in Molecular Biology and Translational Science* 2010; 95:377-386.

Omenn GS. Data management and data integration in the HUPO Plasma Proteome Project. In Hamacher M, Stephan C, Eisenacher M (eds), *Data Mining in Proteomics: From Standards to Applications*. *Methods Mol Biol* 2011;696:247-257. PMID: 20163952.

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

Gil Omenn has been an active member of HUPO from its inception. He was elected to the HUPO Council in 2002 and appointed Chair of the HUPO Plasma Proteome Project (HPPP). With Ruedi Aebersold, Young-Ki Paik, and Mark Baker as co-chairs, he has led the HPPP. He was elected as Chair of HUPO Initiatives in 2008 and has served in the leadership of the Human Proteome Project working group. He has stimulated cross-initiative analyses. He has participated in multiple national and international meetings and all HUPO congresses. He is serving (2010-2012) as president of the U.S. HUPO and member of the organizing committee for the HUPO Congress in Boston 2012.

He has pursued research in protein structure and function for five decades, including immunochemistry, protein modifications, genetic modifications, and cancer biomarkers. His recent work focuses on alternative splice variants as a new class of protein biomarker candidates, based on MS/MS peptide sequences and a novel database of all potential translation products, plus confirmation via qRT-PCR of mRNA. He has now combined proteomics with computational predictions of structural and functional differences between protein isoforms, which should be applicable to post-translational modifications and to polymorphisms, as well.

He has broad experience in science policy and health policy. He served as President of the American Association for the Advancement of Science (AAAS) and is a member of the Institute of Medicine of the U.S. National Academy of Sciences.