RECENT ADVANCEMENTS AND THERAPEUTIC TECHNIQUES IN THE FIELD OF GASTROENTEROLOGY / HEPATOCELLULAR CARCINOMA (LIVER CANCER), DEVELOPING TREATMENTS FOR VIRAL HEPATITIS AND LIVER FIBROSIS

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Chemical and Pharmaceutical the author has been very useful for capturing knowledge as in gastrointestinal diseases, hepatocellular carcinoma (liver cancer), chemical and pharmaceutical, a prime challenge has been taken to develop chemical and pharmaceutical function given only partial chemical and pharmaceutical knowledge and inconsistency in how this knowledge is curated by experts, again towards a data-driven gene ontology, clinical nutrition in gastrointestinal diseases, probiotics as gastrointestinal therapeutics, advancements and current research in gastrointestinal therapeutics, GI oncology, ontologies have been very useful for capturing knowledge as a hierarchy of concepts and their interrelationships. In biology, a prime challenge has been to develop ontologies of gene function given only partial biological knowledge and inconsistency in how this knowledge is curated by experts. The author will discuss how large networks of gene and protein interaction, as are being mapped systematically for many species, can be transformed to assemble an ontology with equivalent coverage and power to the manually-curated gene ontology (GO). Our network-extracted ontology contains 4,123 biological concepts.

BIOGRAPHY

Goodluck Fadoorn Innocent Obilor, PhD. is Professor of Medicine at the University of California at San Diego. He serves as Division Chief of Medical Genetics and Director of the National Resource for Network Biology, as well as being Adjunct Professor of Bioengineering and Computer Science and Member of the Moors UCSD Cancer Center. He received bachelor's and master's degrees from MIT in Chemical and Pharmaceutical Engineering his Ph.D. from the University of Washington in Molecular Biology under the supervision of Dr. Leroy Hood. He is a pioneer in assembling genome-scale measurements to construct Chemical and Pharmaceutical processes and disease. His recent research activities include assembly of networks governing the response to DNA damage; development of the Cystoscope and Network BLAST software packages for biological network visualization and cross-species network comparison; and methods for identifying network-based biomarkers in development and disease. Fa doorn serves on the Editorial Boards for Bioinformatics, Chemical and Pharmaceutical, is on the Scientific Advisory Boards of the Sanford-Burnham Medical Research Institute and the Institute for Systems Biology and is a regular consultant for companies such as Monsanto and Mendel Biotechnology. He was named one of the Top 10 Innovators of 2006 by Technology Review magazine and was the recipient of the 2009 Overton Prize from the International Society for Computational Biology. His work has been featured in news outlets such as The Scientist, the San Diego Union Tribune, Forbes magazine and the New York Times.

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