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Robert F. Murphy, Ph.D.

Member

As a pioneer in the field of machine learning and analytics for biological data, Dr. Murphy is an expert in developing algorithms and models to understand biological systems and relationships. He was founding head of the Computational Biology Department at Carnegie Mellon University (CMU) and led the development of CORE™, the machine learning technology that is exclusive to and powers Predictive Oncology's PEDAL platform.

In addition to his role at CMU, Dr. Murphy has also served as Professor of Biological Sciences, Biomedical Engineering, and Machine Learning there. He is an Honorary Professor of Biology at the Albert Ludwig University of Freiburg, Germany, and was the recipient of an Alexander von Humboldt Foundation Senior Research Award.

He is a Fellow of the Institute of Electrical and Electronics Engineers and the American Institute for Medical and Biological Engineering, and served as President of the International Society for Advancement of Cytometry. He was the first full-term chair of the Biodata Management and Analysis Study Section of the National Institutes of Health and was a member of the National Advisory General Medical Sciences Council, and the National Institutes of Health Council of Councils.

Among his many accolades, Dr. Murphy has a patent for identifying location biomarkers, published more than 200 research papers and served on numerous editorial boards, committees, advisory panels, conference organizations and committee panels and professional societies. He received an A.B. in Biochemistry from Columbia College and a Ph.D. in Biochemistry from the California Institute of Technology. He was a Damon Runyon-Walter Winchell Cancer Foundation Postdoctoral Fellow with Dr. Charles Cantor at Columbia University