A data driven approach to research in the precision medicine era

Professor Jack London

Thomas Jefferson University and Sidney Kimmel Cancer Center

Jack London, PhD, is a Research Professor of Cancer Biology at Thomas Jefferson University, and Director of Informatics in Jefferson's Sidney Kimmel Cancer Center. He has been engaged for over 40 years in biomedical informatics research and system development in the domains of bioinformatics, medical informatics, and health care information technology. In the 1970's at the University of Pennsylvania's Department of Computer and Information Science, his research focus was in bioinformatics, specifically the computer simulation of biochemical systems. In 1975, a project was awarded the "A.E. Bennett Research Award in Basic Science" from the Society for Biological Psychiatry. Later in Penn's Radiology Department, Dr. London's focus shifted to clinical informatics and the development of a radiology information system and an image archiving and communications system (PACS). In the 1980's his clinical informatics focus became cancer-centric, as at the Fox Chase Cancer Center he worked on hospital information systems development, telemedicine projects, and clinical trials management systems.

Since coming to Thomas Jefferson University in 1994, his focus has been on telemedicine, pathology (tissue banking, molecular diagnostics), clinical trials informatics, and research data analytics (warehousing and data mining). In 1998, a project with Intel Corporation utilizing video conferencing for remote cancer diagnostic consultation was included in the Smithsonian Institution's Permanent Research Collection of Information Technology. A current project integrates clinical, biospecimen, genomic, cancer registry, and experimental data to support researchers in hypothesis generation and cohort definition, including the prediction of patient accrual to proposed clinical trials. For this project Dr. London has developed ontologies for biospecimen, cancer registry, and molecular diagnostic (genomic test) data.

He has served on a number of NIH study sections, cancer center External Advisory Boards, and is a member of the i2b2 Foundation board of advisors and the Cancer Informatics for Cancer Centers (CI4CC) founding organizational leadership. He is also an Associate Editor of the ASCO journal, Cancer Clinical Informatics. Dr. London also is a consultant for TriNetX **Corporation.**

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