

LECTURE

Prof Leroy Hood

12.05.2025

📍 LIH Edison
Curie/Pasteur room (3rd floor)
1B rue Thomas Edison
L-1445 Strassen, Lux

🕒 9:00_{am} - 9:45_{am} + Q&A

* Please register by sending an email to: Florence.Henry@lih.lu

Integrating Four Different Paradigms of Healthcare: The Genome Project, The Human Phenome Initiative and Information-Based Peptide Drugs Fueled by Data-Driven and AI-Driven Health

Data-driven health employs a genome and longitudinal phenome analysis for each of many individuals to decipher their individual biological complexities and turn these insights into actionable possibilities to optimize wellness and healthy aging, to avoid disease, to identify biomarkers and candidate drug targets for wellness and prevention and to gain causal insights into wellness and disease. Information-based peptide drug discovery will employ large scale DNA synthesis to generate millions of peptide genes and then use the tools of cell and molecular biology to interrogate them individually through the windows of phenotypic and targeted selection procedures. I will discuss the application and integration of these four different paradigm changes for optimizing individual health through big data and AI, ultimately leading to an N=1 healthcare.



SPEAKER:

Leroy Hood, MD, PhD

CEO, Phenome Health

Chief Innovation Officer
Distinguished Professor
Buck Institute for Research on Aging

Professor and Co-founder
Institute for Systems Biology

HOST:

Ulf Nehrbass

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