

Date: October 22, 2020

Name of committee: HUPO External Development Initiative (HEDI)

Name of committee chair: Sudhir Srivastava, National Cancer Institute, National Institutes of Health, USA

Committee objectives:

Objectives of the committee:

- Identifying emerging scientific opportunities, rising public health challenges, or scientific knowledge gaps that merit further research by international funding agencies, non-profit governmental organizations, and foundations, hereafter called Funders.
- Understanding scientific priorities and strategic planning of Funders globally in developing and applying resources (databases, analytic tools, and methodologies) and producing specifications for new resources in support of proteomic research
- If requested, assisting the Funders to address areas of emerging scientific opportunities and public health challenges effectively
- Proactively discussing and providing technical assistance to Funders in the development of proteomic-based initiatives.

Summary of recent accomplishments, current activities, tasks:

HUPO hosted the third HUPO External Development Initiative (HEDI) panel on October 22, 2020. Panelists included members from United States, India, Canada, and United Kingdom. Dr. Sanjeeva Srivastava from India shared his outreach activities with the Funders in India, namely the Department of Technology, Government of India which has funded an Advance proteomic center at the Indian Institute of Technology, Mumbai. He shared his experience on involving funders at the outset of proteomic activities, informing them of strengths and weakness of the technology and impressed them with what proteomic can do in complementing genomic based disease detection. Dr. Eleftherios Diamandis of Canada described the initial difficulties in securing funding on proteomic-based biomarkers for early detection and described the challenges with the proteomics in its current form of not being reproducible and reliable as diagnostic tools. He stressed that the progress is being made to address some of the challenges, and the technology for isolating proteomic-based biomarkers are getting better in throughput and diagnostic performance. Kristin E Burnum-Johnson of USA discussed her involvement in The Human BioMolecular Atlas Program (HuBMAP) funded by the NIH Common Fund and discussed the recommendations made by a recently held workshop on extending the program to include single cell proteomics. Anthony Whetton of UK discussed the CR-UK supported Proteomics Center in Manchester and shared his experience in securing the funding from CR-UK.

Future goals, vision of committee:

Panelists agreed that there is a need for a vigorous campaign from the HUPO leadership to convene an Educational Session during each annual meeting on Proteomics devoted to funders, industrial partners, and community leaders (Advocates) to convey the message on proteomics to general public, health

professionals, policy makers and other relevant stakeholders under the banner “Proteomics Research in Health Matters.”

Financial impacts and/or requests (if appropriate): None at this time

Recommendations to the HUPO Council and Executive Committee:

- Organize Educational Symposium each year for funders, Advocates, and other public health professionals to highlight progress being made in proteomic in Common Language and less technical.
- Nominate members to serve on the HEDI Committee from each region for a two-year term