PANELISTS

• Dr. Paul Pearlman, Policy Advisor, National Cancer Institute, NIH, Science

• Dr. Lucilla Spini, Head of Science Programmes, International Council for Science (ICSU)

• Professor Melanie Welham, Chief Executive, Biotechnology and Biosciences Research Council, UK

• Dr. Hugh Laverty - Head of Scientific Operations within IMI-JU, Innovative Medicines Initiative

• Dr. Monika G MacDevette- Deputy Director, Ecosystems Division, Nairobi, KENYA United Nations Environment Program
Global Cancer Research at the NCI’s Center for Global Health

*Science diplomacy as an avenue to promote novel research...*

June 15, 2017 – HESI Annual Meeting

Follow me @Paul_Pearlman
Center for Global Health

Increasing Global Non-communicable Disease (NCD) Burden

Varmus and Trimble, Science Translational Medicine (2011)

Global Cancer Trends vs. Human Development Index (2008-2030)

- Highest HDI: Breast, lung, colorectal, prostate cancers (over 50%)
- Medium HDI: Add esophagus, stomach, liver
- Low HDI: cervical cancer


Data: Global Burden of Disease Study 2010
[www.healthmetricsandevaluation.org]
Bilateral Co-funding of Cancer Research

U.S.-CHINA RESEARCH PROGRAM

HELPED FUND

108 AWARDS

THAT GENERATED

53 PUBLICATIONS

AND

1 PATENT
Affordable Cancer Technologies Program

Current Project Sites:

- Affordable Cancer Technologies Program
- High Resolution Micro-endoscopy (HRME) for RT Imaging of Cervical Neoplasia
- Oral Cancer Screening on a Smartphone
- GeneXpert HPV DNA Assay
- SERS based HPV Diagnostic
- Molecular Diagnostics on a Smartphone
The International Council for Science: to strengthen international science for the benefit of society

Lucilla Spini, D.Phil.
Head of Science Programmes, ICSU
Science without Borders Panel Discussion
HESI Meeting, Dublin, 15 June 2017
Mission
To strengthen international science for the benefit of all societies

Membership
31 Union members (e.g., IUTOX)
122 National members (e.g., US-NAS, Royal Irish Academy)
22 Associate members (e.g., TWAS)

Global Secretariat: Paris, France
Regional Offices: South Africa, Malaysia and El Salvador

Photo: Unions Meeting, April 2016
The ICSU Family

IRDR
Integrated Research on Disaster Risk

URBAN HEALTH AND WELLBEING
A SYSTEMS APPROACH

WCRP
World Climate Research Programme

IRSC
International Research Council for Science

SCAR
Scientific Committee on Antarctic Research

SCOR
Scientific Committee on Oceanic Research

SOCESTEP
Scientific Committee on Solar-Terrestrial Physics

COSPAR
Committee on Space Research

IUCAF

CODATA

ICSU

WORLD DATA SYSTEM

inasp
research and knowledge at the heart of development

GOOS
Global Ocean Observing System

GTOS
GLOBAL CLIMATE OBSERVING SYSTEM
ICSU and the international science landscape

• With the International Social Science Council (ISSC) – upcoming vote for merger (October 2017)
  http://www.worldsocialscience.org/

• “Science International” with ISSC, TWAS-The World Academy of Science, and IAP-InterAcademy Partnership
  http://www.science-international.org/

• World Science Forum with UNESCO, AAAS, Hungarian Academy, IAP, EASAC, IAP, ISSC, and the Royal Scientific Society of Jordan
  http://worldscienceforum.org/
Further information at
www.icsu.org
Twitter: @icsunews

or by email:
lucilla.spini@icsu.org

Strengthening international science for the benefit of society
Biotechnology and Biological Sciences Research Council (BBSRC)

• Who we are:
  • 1 of 7 publically funded UK Research Councils
  • Largest UK public funder of non-medical bioscience
    ~ £450M annual budget

• What we do:
  • Invest in world-class bioscience research
  • Invest in training and skills for the next generation of bioscientists
  • Drive social and economic impact in industry, policy and public goods
  • Promote public dialogue on bioscience
Why does BBSRC partner and invest internationally?

• To strengthen and maintain the vibrancy of UK bioscience research

• Enable research collaborations tackling major global challenges

• Provide global leadership and influence

• Enable wider impact from BBSRC-funded bioscience research, skills and innovation for public good

• Opportunity to deliver benefit to developing countries and benefit back to the UK
Challenges and opportunities

• Increasing collaboration and competition
  • bottom-up versus top-down; infrastructures; resourcing; UKRI

• Changing trends in R&D investment in life sciences
  • move away from model organisms; data sharing; lack of long-term budget security; skills; interdisciplinary

• Common frameworks for
  • regulation; germplasm/sample sharing; mobility

• Increasing role of industry to adopt new technologies and create economic impact

• Opportunity to deliver benefit
  • how to measure impact/benefit?
Discussion Questions

1. In what ways is scale of your organization (national or international) a benefit to building the impact of the work that you support? In what ways is it a challenge?

2. What are the challenges/benefits of working as a national organization to implement science with global relevance?

3. What are the challenges/benefits of working as an international organization when trying when all health is local?

4. How does your organization identify and prioritize scientific issues and research priorities?

5. What are the biggest hurdles to your organization’s ability to progress its scientific mission? Financial, technical, diplomatic, managerial, topical?

6. Are there particular types of partnerships or collaborative interactions across sectors, regions, countries, institutions that you have found to be most effective in achieving scientific outcomes? Which ones and why?
### Awards and Thank-Yous

- Staff Milestone
- Departing Editor in Chief (in absentia)
- Departing Trustees
- Closing Comments