
HESI's Role in Translational Science via CITE



Brian R. Berridge, DVM, PhD
GlaxoSmithKline R&D

ILSI Health and
Environmental Sciences
Institute

June 2014

What is CITE?



**Combined Interdisciplinary
and Translational Expertise**

- Inaugurated by a workshop in December, 2012, entitled 'Towards New Science for Public Health'
- Broad sector/discipline participation
- Consensus on value
- Explored mechanisms of collaboration, funding, and training



POLICY



Cyril D. Pettit is Executive Director of the International Life Sciences Institute (ILSI) Health and Environmental Sciences Institute (HESI), a global nonprofit organiza-

From Silos to Multilingual Science

TRANSLATION—THE PROCESS OF MOVING SCIENCE FROM DISCOVERY TO application—has become a mantra of collaborative science initiatives worldwide. It extends from the drug and medical device development arena, to chemical safety, agricultural research, environmental sustainability, and beyond. These efforts are set against a backdrop of complex challenges in the prevention and treatment of emerging and chronic diseases and increasing environmental impacts associated with population growth and industrialization. Undoubtedly, there is a critical need for multidisciplinary scientific initiatives that move research from the pages of a journal to the promotion of public health (1, 2). Basic researchers, clinicians, regulators, industrial scientists, and entrepreneurs are all strongly invested in the “why” and “what” of translational science. But what about the “how”?

www.ScienceTranslationalMedicine.org 12 February 2014 Vol 6 Issue 223 223ed3

“Basic researchers, clinicians, regulators, industrial scientists, and entrepreneurs are all strongly invested in the ‘why’ and ‘what’ of translational science. But what about the ‘how’?”

“...we must do more to enhance the “how” with relevant training, experience, and incentives.”

What's the fit for HESI? It's our Mission



ILSI Health and Environmental
Sciences Institute

Creating Knowledge for a Healthier, Sustainable World

Since 1989, the Health and Environmental Sciences Institute (HESI) has engaged scientists from academia, government, industry, research institutes and NGOs to identify common health and environmental concerns and develop scientific knowledge leading to a healthier, more sustainable world.

Shared Challenges, Shared Solutions

HESI's multi-sector, multidisciplinary stakeholders are passionate about working together to answer pressing scientific questions.

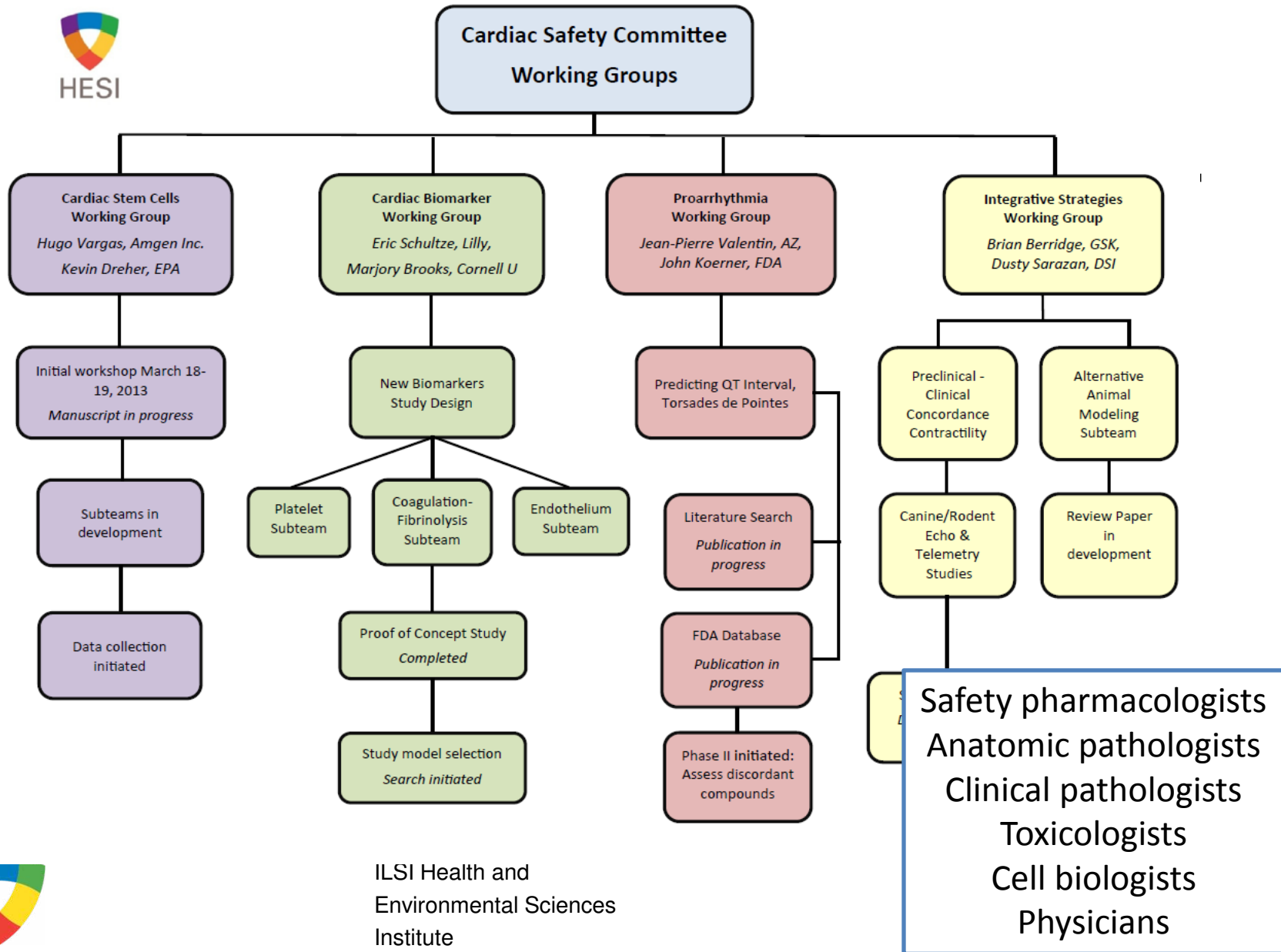
Quick HESI Facts

Non-profit scientific organization
Global reach and involvement
Human and environmental health science focus
25 years of expertise in public-private collaborations



ILSI Health and
Environmental Sciences
Institute

How does that manifest in our committees and working groups?



Committees pushing the envelope- Bridging disciplines in cardio-oncology

SOCIETÀ ITALIANA DI FARMACOLOGIA

Aiom

International Colloquium on Cardio-Oncology

Rome (Italy), March 12-14, 2014
Hotel Columbus - Via della Conciliazione, 33

Organized by
DEPARTMENT OF DRUG SCIENCES AND CLINICAL PHARMACOLOGY
UNIVERSITY CAMPUS BIO-MEDICO OF ROME

Promoted by

FONDAZIONE
INTERNAZIONALE
MENARINI

International **CardiOncology** Society

and with the Patronage of
SIE - Società Italiana di Ematologia

The application for European accreditation
has been granted 11 European CME
credits (ECMEC) by the European
Accreditation Council for Continuing
Medical Education (EACCME)



+



=

Draft 28 May 2014 – Presubmission, Do not cite

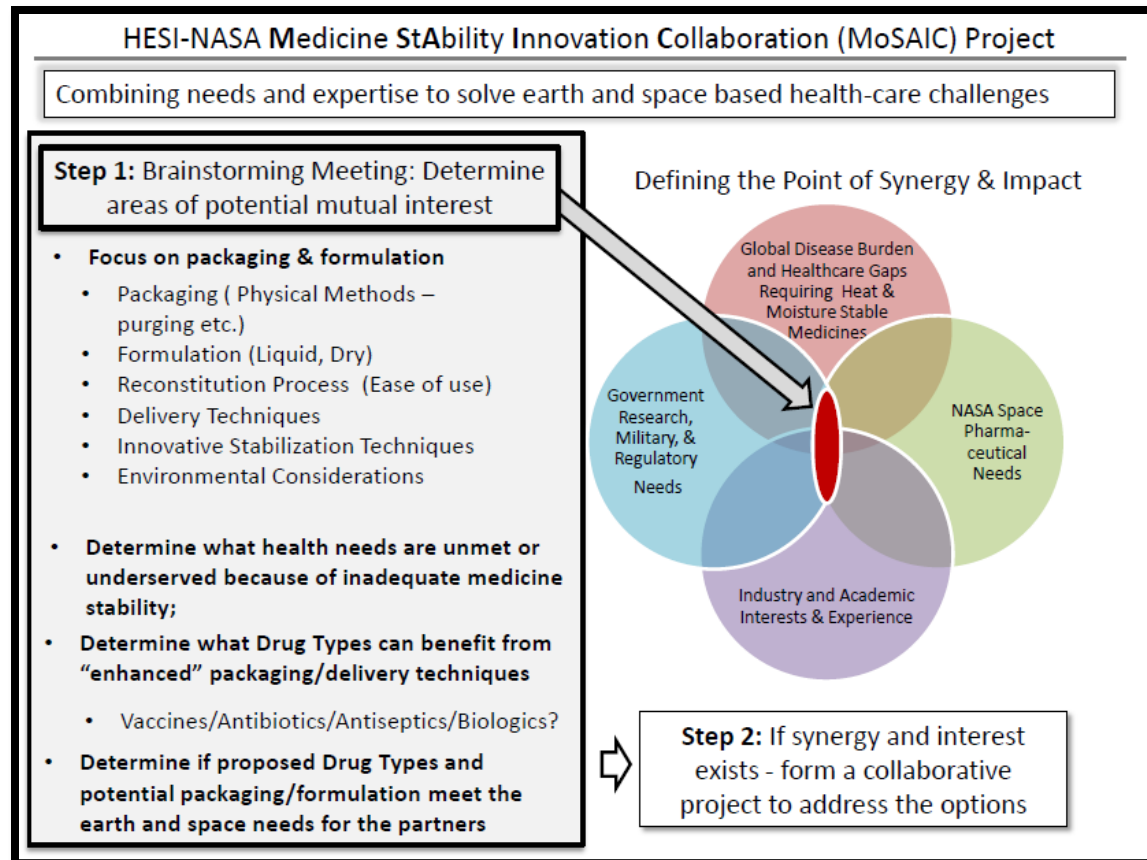
**Opportunities to Meet Clinical Cardio-Oncology Needs with New Approaches to
Nonclinical Safety Assessment**

Berridge¹, B. R. , Pettit, S². and Sarazan³, R. D.

Interesting Conversations

NASA Human Health Challenges

- Markers of health, disease and therapy
- In-flight bio-sample analysis
- Non-invasive imaging
- Drug delivery
- PK capabilities
- **Drug stability**
- Cell/tissue/animal models
- Sterilization systems



Interesting Partnership Opportunities

- Home
- About us
- Our work with communities
- For your health
- Our medicines & products
- Research & development
- Your GSK career
- Media & news
- Responsibility
- Integrity in Action
- Our blog
- Contact us

Advanced search

GO

- Healthcare Professionals
- GSK Worldwide
- Site map



 United States

Media & news

Press release archive

Press kits

Infographics

Media contacts

Home > Media & News > [Press release archive](#)

This press release is intended for business journalists and analysts/investors. Please note that this release may not have been issued in every market in which GSK operates.

GlaxoSmithKline (GSK) and McLaren Group announce innovative strategic partnership

Issued: Thursday 15 September 2011, London UK

GlaxoSmithKline (GSK) today announced that it has formed a long term strategic partnership with McLaren Group. The partnership, which will run initially until 2016, brings together two UK companies focused on innovation and high-tech research.



Not a HESI effort; used as an example

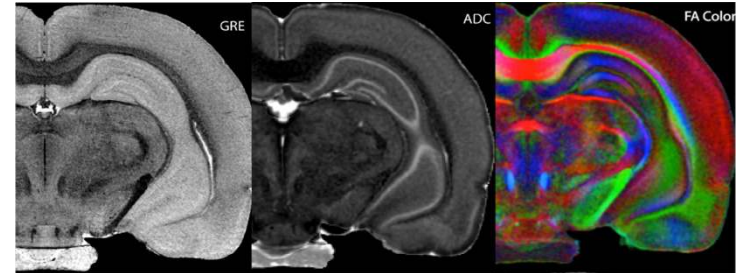
Potential for Re-inventing Approaches to Health and Therapeutics



3D Tissue printing



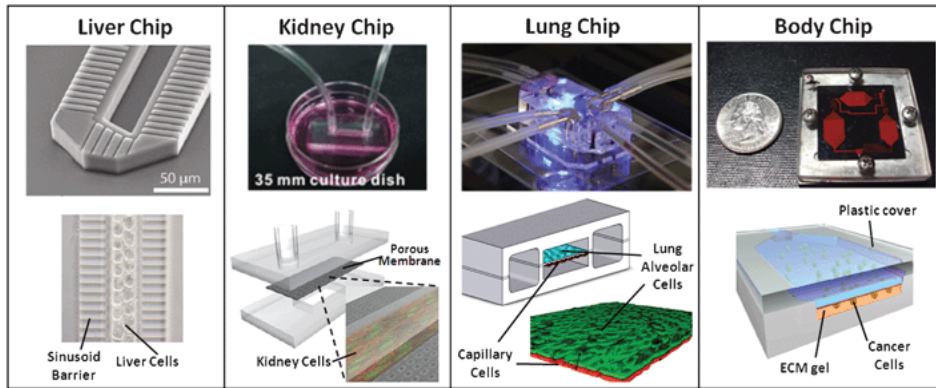
Miniaturization



Advanced Imaging



Biomonitoring



Novel testing platforms



Realizing the Potential

- Technology is not a limitation!
- Recognizing opportunity is not a limitation!
- Putting the two together is a challenge
- Requires intent, expertise and resource
- HESI uniquely positioned to facilitate

