Strengthening and Sustaining Partnerships

Professor Steven Edwards
Professor of Biochemistry
Principle Fellow of the Higher Education Academy
Liverpool’s approach to Partnerships
Current TNE arrangements
Links with Thailand
Broader benefits of TNE
Power by Partnerships

- Research contract work with 1,300 organisations
- £68 million Materials Innovation Factory
- £15 million Sensor City
- Virtual Engineering Centre in Liverpool and London
- Award-winning collaboration with Tate Liverpool.
We are global

- London campus opened 2013
- Xi’an Jiaotong-Liverpool University opened 2006

UK’s leading international provider of fully online postgraduate education

Partnership with Singapore Institute of Technology established in 2013
2,693 Collaborating Institutions
8,078 Co-authored Publications
TNE with Thailand

• 2008 Visit to several Universities in Bangkok area
• 2009 Re-visited selected HEIs
• 2010 onwards continuing developments
Field/environmental facilities and resources
Many shared research interests
Human diseases
Infectious diseases
Virology
Sustainable foods
Opportunities for students and staff

• Student and staff exchanges
• Research collaborations

First masters students spent 6-week placement in BIOTECC in 2010
TNE with Thailand

- 2009 MoU BIOTEC
Partnerships in Thailand

• 2010 MoU Chulalongkorn
  – developed joint PhD in Biotechnology and Biomedical Sciences, Faculty of Medicine

• 2010 MoU and jointly funded PhD programme with Mahidol

• 2015 MoU with Chiang Mai and Khon Kaen
Partnership with Chulalongkorn

• Joint PhD in Biotechnology and Biomedical Sciences (first student completed in 2016)
• Dual PhD in Biotechnology, Bioinformatics (started 2018)
• Active student exchange
  – 20x 4\textsuperscript{th} year MBiolSci students spend 30-credit research module at Chulalongkorn
  – No tuition fee charges for Chula students at UoL
UoL students in Thailand

6 Weeks (30 UoL) credits

6 months (60 UoL credits)

Entire 4\textsuperscript{th} year of MBiolSci (on-line modules for 30 credits)
Time abroad develops cultural awareness and employability skills—GLOBAL GRADUATES
Staff Exchanges/teaching

• Bioinformatics workshops
• Professional Skills/Communication workshops
• Research exchanges
• Medical student exchanges
Grants

- Grand Challenges Research Funding
- Newton Funding
- Institutional Links
- Researcher Links

Role of innate immune responses in the pathogenesis of opisthorchiasis and development of cholangiocarcinoma (bile duct cancer) in rural communities in Thailand

Paper devices coupled with portable mass spectrometry for on-site and rapid detection of contaminants in the food industry

Rapid diagnostics and control strategies for enteric bacterial pathogens in backyard and commercial production in Thailand & Philippines

Fasciola hepatica: investigating fatal phenotypes of RNA silenced growth factors
Distribution and Genetic Profiles of *Campylobacter* in Commercial Broiler Production from Breeder to Slaughter Thailand

Sakeporn Prachanitsera, Patcharat Charununtikorn, Suthida Muangnoidchoo, Luck Hanka, Nathaporn Totchawal, Prempree Chaveepras, Pravut Tulempong, Nipa Chokesajawatee, Nicola Williams, Tom Humphrey.

Variations of Mammalian Cochlear Shape in Relation to Hearing Frequency and Skull Size

THANAKUL WANNAPRASERT¹ AND NATHAN JEFFERY²*

Killing of *Escherichia coli* by Crohn's Disease

Monocyte–derived Macrophages as Sensitizer Enhancement by Hydroxychloroquine

Paul K. Flanagan, MBBS, Direkrit Chiewchongkol, PhD, H Steven W. Edwards, PhD, Abdullah Alsowied, MRes, Jack Sreedhar Subramanian, MD, Jonathan M. Rhodes, MD, BA

Inflammatory Bowel Diseases, Volume 21, Issue 7, 1 July 2021
https://doi.org/10.1097/MIB.000000000000387

Immunity, Inflammation and Disease

ORIGINAL RESEARCH

Differential changes in gene expression in human neutrophils following TNF-α stimulation: Up-regulation of anti-apoptotic proteins and down-regulation of proteins involved in death receptor signaling

Journal of Proteome Research

ics Identifies Underlying Inflammatory Pathology in Rheumatoid Arthritis Synovial Joints

snake Venom Metalloproteinases and Their Peptide Inhibitors from Myanmar Russell’s Viper Venom

Khin Than Yee ¹, Morgan Pitts ², Pumipat Tongyoo ¹, Ponlapat Rojnuckarin ¹,²* and Mark C. Wilkinson ²,³*

¹ Faculty of Medicine, Chulalongkorn University, Bangkok 10330, Thailand; khinthanyee@gmail.com (K.T.Y); kpspitts@ku.ac.th (P.T.)
² Institute of Integrative Biology, University of Liverpool, Liverpool L69 7ZB, UK; mpitts@hotmail.co.uk
³ Correspondence: rojnuckarinp@gmail.com (P.R.); Mwilks@liverpool.ac.uk (M.C.W); Tel.: ++66-2-256-4364 (P.R.); +44-151-795-4164 (M.C.W)
What next?

• Chulalongkorn and Liverpool now a ‘deep” partnership
• Mutual benefits: students, staff, research, qualifications
• New developments in:
  – Chemistry, Marine Sciences, Architecture
• Developing deeper partnership with Khon Kaen University
Summary

• Consider mutual strengths and benefits
• Think of wider benefits (other than TNE)
• Develop a **Partnership** that has broad benefits to staff and students