

Strengthening and Sustaining Partnerships

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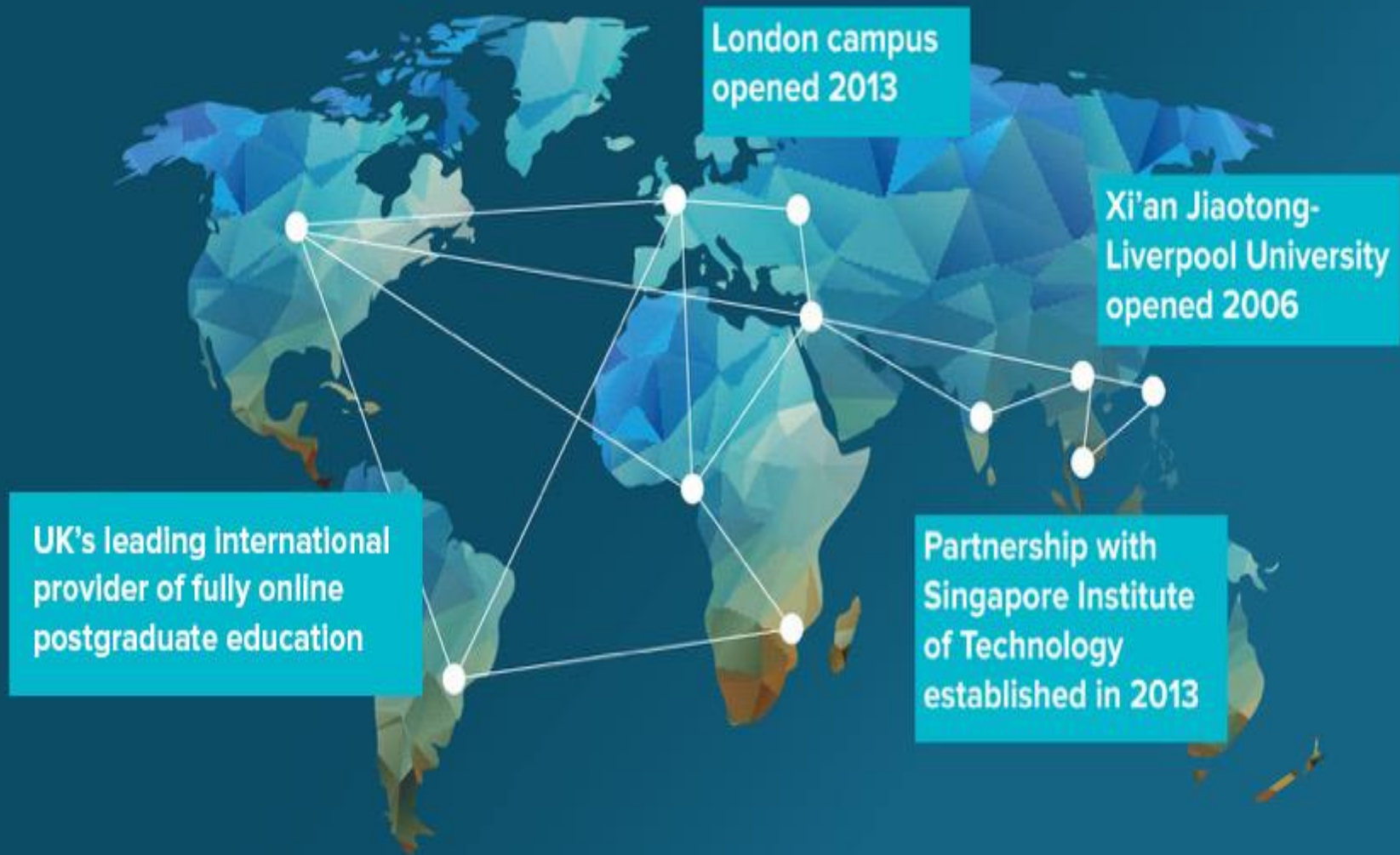
Liverpool's approach to Partnerships
Current TNE arrangements
Links with Thailand
Broader benefits of TNE



Powered 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





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2,693 Collaborating Institutions
8,078 Co-authored Publications

North
America
491

Europe
1308

Middle
East
118

Asia
Pacific
586

Africa
109

South
America
109

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 BIOTEC in 2010



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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 4th 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 4th year of MBiolSci
(on-line modules for 30 credits)





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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

Sakaoporn Prachantasena, Petcharatt Charununtakorn, Suthida Muangnoicharoen, Luck Hankla, Natthaporn Techawal, Prapansak Chaveerach, Pravate Tuitemwong, Nipa Chokesajjawatee, Nicola Williams, Tom Humphrey,

Tar: Tropical Natural History 15(1): 41-54, April 2015

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

THANAKUL WANNAPRASERT¹ AND NATHAN JEFFERY^{2,*}

Killing of *Escherichia coli* by Crohn's Disease Monocyte-derived Macrophages and Enhancement by Hydroxychloroquine

Paul K. Flanagan, MBBS, Direkrit Chiewchengchol, PhD, H. Steven W. Edwards, PhD, Abdullah Alswied, MRes, Jack Sreedhar Subramanian, MD, Jonathan M. Rhodes, MD, Balakrishna Sreedhar Subramanian, MD

Inflammatory Bowel Diseases, Volume 21, Issue 7, 1 July 2015
<https://doi.org/10.1097/MIB.0000000000000387>

Immunity, Inflammation and Disease

Open Access

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



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Identifies Underlying Inflammatory Pathology in Rheumatoid Arthritis Synovial Joints



toxins



Article

Snake Venom Metalloproteinases and Their Peptide Inhibitors from Myanmar Russell's Viper Venom

Khin Than Yee¹, Morgan Pitts², Pumipat Tongyoo¹, Ponlapat Rojnuckarin^{1,*} and Mark C. Wilkinson^{2,*}

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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