

Cross-disciplinary research collaborations, FOM

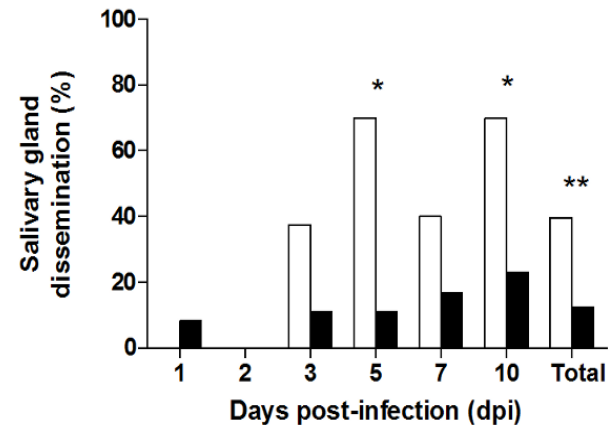
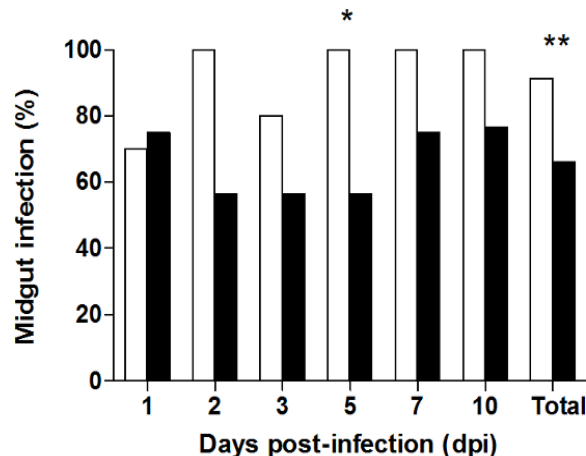


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Laboratory work: chikungunya virus in *Ae. albopictus* mosquitoes

Genotypic and Phenotypic Characterization of Chikungunya Virus of Different Genotypes from Malaysia

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East African (□) more adapted to *Ae. albopictus* than Asian strain (■). May explain greater spread of East African CHIKV in rural areas in 2008-2010.

Case report

Tropical Biomedicine 27(2): 343–347 (2010)

Research Note

Chikungunya virus-associated death in Malaysia

Sam, I-C.^{1*}, Kamarulzaman, A.², Ong, G.S.Y.³, Veriah, R.S.², Ponnampalavanar, S.², Chan, Y.F.¹ and AbuBakar, S.¹

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Laboratory data

Bacteremia in patients with febrile neutropenia after chemotherapy at a university medical center in Malaysia

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Table 3 Antibiotic susceptibilities of the most frequently isolated Gram-negative organisms (*Escherichia coli*, *Klebsiella* species, *Enterobacter* species and *Pseudomonas aeruginosa*)

Antibiotic	No. susceptible (%)				
	<i>E. coli</i> (n = 16)	<i>Klebsiella</i> spp (n = 11)	<i>Enterobacter</i> spp (n = 5)	<i>P. aeruginosa</i> (n = 4)	Total (n = 36)
Amoxicillin–clavulanate	9 (56.3%)	9 (81.8%)	1 (20%)	0	19 (52.8%)
Cefepime	14 (87.5%)	10 (90.9%)	4 (80%)	3 (75%)	31 (86.1%)
Ceftazidime	14 (87.5%)	10 (90.9%)	4 (80%)	3 (75%)	31 (86.1%)
Imipenem	16 (100%)	11 (100%)	4 (80%)	3 (75%)	34 (94.4%)
Meropenem	16 (100%)	11 (100%)	4 (80%)	3 (75%)	34 (94.4%)
Piperacillin–tazobactam	16 (100%)	9 (81.8%)	4 (80%)	3 (75%)	32 (88.9%)
Ciprofloxacin	6 (37.5%)	9 (81.8%)	5 (100%)	4 (100%)	24 (66.7%)
Amikacin	15 (93.8%)	11 (100%)	5 (100%)	4 (100%)	35 (97.2%)
Gentamicin	12 (75%)	11 (100%)	5 (100%)	4 (100%)	32 (88.9%)
Netilmicin	14 (87.5%)	11 (100%)	5 (100%)	4 (100%)	34 (94.4%)

Seroprevalence Survey of Chikungunya Virus in Bagan Panchor, Malaysia

Said Mas Ayu, Li Rong Lai, Yoke Fui Chin, Ahmad Azim, Noor Nephthalin Asiah Ayob, and I-Ching Sam*

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Field work

Clinical/health economics research

- Investigator-initiated proposal to Sanofi:
“Prospective study of influenza virus infection,
and clinical and socioeconomic costs in
hospitalised children in KL, Malaysia” – with
Anna-Marie Nathan & Jessie de Bruyne
(Paeds), Wong Li Ping (SPM)

HFMD: A step closer

Tropical Biomedicine 33(2): 238–245 (2016)

Diagnosis of human enterovirus A71 infection in Malaysia using a commercial IgM-capture enzyme-linked immunosorbent assay and an IgM-colloidal gold immunochromatographic assay

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Cyclical Patterns of Hand, Foot and Mouth Disease Caused by Enterovirus A71 in Malaysia

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PLOS Neglected Tropical Diseases | DOI:10.1371/journal.pntd.0004562 March 24, 2016



Risk Factors for Enterovirus A71 Seropositivity in Rural Indigenous Populations in West Malaysia

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PLOS ONE | DOI:10.1371/journal.pone.0148767 February 11, 2016



RESEARCH ARTICLE

Immunodominant IgM and IgG Epitopes Recognized by Antibodies Induced in Enterovirus A71-Associated Hand, Foot and Mouth Disease Patients

Kam Leng Aw-Yong¹, I-Ching Sam¹, Mia Tuang Koh², Yoke Fun Chan^{1*}

PLOS ONE | DOI:10.1371/journal.pone.0165659 November 2, 2016

New collaborations

- Defense Threat Reduction Agency, USA: “Etiology of severe acute respiratory infections in KL” – with Pang YK (Resp Med), Sasheela & Sharifah (ID), Shahnaz (ICU)
- Wellcome Trust/Newton Fund-MRC Collaborative Award: “Genetic approaches to reducing vector competence of *Aedes aegypti* for chikungunya virus” – with Indra & Wan Yusoff (Parasitology)

Suggestions for successful collaborations

1. Right collaborator, right project? Don't be afraid to say no!
2. Clarify roles, credit (authorship), IP
3. Be open and share
4. Communicate
5. Acknowledge/credit collaborators
6. Stick with good collaborators

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- **Medical Microbiology, UM**
 - Chan Yoke Fun, most of the other lecturers
 - Diagnostic virology lab, UMMC



- **University Malaya**
 - **Parasitology** – Indra Vythilingam, Wan Yusoff, Romano Ngui, Yvonne Lim
 - **Paediatrics** - Jessie de Bruyne, Anna-Marie Nathan
 - **Social & Preventive Medicine** – Wong Li Ping, Mas Ayu Said
 - **Pharmacy** - Samsinah Hussain
 - **Medicine** – Sanjiv Mahadeva, Gan Gin Gin, Pang Yong Kek, Adeeba Kamarulzaman, Sasheela Ponnampalavanar, Sharifah Faridah
 - **ICU** – Shahnaz Hassan, Vineya Rai
- **University of Tartu, Estonia** – Andres Merits
- **Pirbright Institute** – Luke Alphey
- **WHO Collaborating Centre for Influenza, Melbourne** - Ian Barr, Aeron Hurt
- **Duke-NUS** - Gavin Smith