

Yi Jin LIEW

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EDUCATION

- PhD **Trinity Hall, University of Cambridge, UK (Oct 2008–Dec 2012)**
PI: Dr. Gos Micklem, Department of Genetics
Small RNA studies in *Drosophila melanogaster*, *Stylophora pistillata* and *Symbiodinium* sp.
- BA **Magdalene College, University of Cambridge, UK (Oct 2005– Jun 2008)**
First-Class Honours in Genetics

WORK EXPERIENCE

- May 2013 – **Postdoc in Aranda Lab, King Abdullah University of Science and Technology (KAUST), Saudi Arabia**
– 4+ years
- Investigated the epigenetic adaptation of a coral to ocean acidification
 - Involved in three cnidarian and one dinoflagellate genome projects
 - Designed and maintained an online data portal for reef organisms, <http://reefgenomics.org>
 - Published 11 papers (first author for 4); reviewed 5 papers
 - Provided academic guidance for five PhD students
 - Gave internal seminars, designed and taught two mini-courses (programming basics)

ORAL PRESENTATIONS AT CONFERENCES

- 2017 KAUST Research Conference: Environmental Epigenetics, Thuwal, KSA
- 2016 KAUST Research Conference: International Conference on the Marine Environment of the Red Sea, Thuwal, KSA
- 2016 13th International Coral Reef Symposium, Honolulu, Hawaii, USA
- 2014 3rd Asia-Pacific Coral Reef Symposium, Kenting, Taiwan
- 2012 12th International Coral Reef Symposium, Cairns, Australia

PUBLICATIONS (REVERSE CHRONOLOGY)

Chen JE, Cui G, Wang X, **Liew YJ**, Aranda M. Recent expansion of heat-activated retrotransposons in the coral symbiont *Symbiodinium microadriaticum*. *ISME*, in review.

Voolstra CR, Li Y, **Liew YJ**, Baumgarten S, Zoccola D, et al. Comparative analysis of the genomes of *Stylophora pistillata* and *Acropora digitifera* provides evidence for extensive differences between species of corals. *Sci Rep*, submitted.

Wang X, **Liew YJ**, Li Y, Zoccola D, Tambutte S, et al. Draft genomes of the corallimorpharians *Amplexidiscus fenestrafer* and *Discosoma* sp. *Mol Ecol Resour*, accepted.

Voolstra CR, **GIGA Community of Scientists**, Wörheide G, Lopez JV. Advancing Genomics through the Global Invertebrate Genomics Alliance (GIGA). *Invertebr Syst*. 2017; **31**:1-7.

Liew YJ, Li Y, Baumgarten S, Voolstra CR, Aranda M. Condition-specific RNA editing in the coral symbiont *Symbiodinium microadriaticum*. *PLOS Genet*. 2017; **13**(2):e1006619.

Liew YJ, Aranda M, Voolstra CR. Reefgenomics.Org - a repository for marine genomics data. *Database*. 2016; **2016**:baw152.

Aranda M, Li Y, **Liew YJ**, Baumgarten S, Simakov O, et al. Genomes of coral dinoflagellate symbionts highlight evolutionary adaptations conducive to a symbiotic lifestyle. *Sci Rep*. 2016; **6**:39734.

Bhattacharya D, ..., **Liew YJ**, et al. Comparative genomics explains the evolutionary success of reef-forming corals. *eLife*. 2016; **5**:e13288.

Liew YJ, Ryu T, Aranda M, Ravasi T. miRNA Repertoires of Demosponges *Stylissa carteri* and *Xestospongia testudinaria*. *PLOS ONE*. 2016; **11**(2):e0149080.

Ryu T, Seridi L, Moitinho-Silva L, Oates M, **Liew YJ**, et al. Hologenome analysis of two marine sponges with different microbiomes. *BMC Genomics*. 2016; **17**(1):1.

Baumgarten S, Simakov O, Esherick LY, **Liew YJ**, Lehnert EM, et al. The genome of *Aiptasia*, a sea anemone model for coral symbiosis. *PNAS*. 2015; **112**(38):11893-11898.

Liew YJ, Aranda M. Epigenetic adaptation of corals: A new hope? *Nature Middle East*. 2015; doi:10.1038/nmiddleeast.2015.194

Liew YJ, Aranda M, Carr A, Baumgarten S, Zoccola D, et al. Identification of microRNAs in the coral *Stylophora pistillata*. *PLOS ONE*. 2014; **9**(3):e91101.

Baumgarten S, Bayer T, Aranda M, **Liew YJ**, Carr A, et al. Integrating microRNA and mRNA expression profiling in *Symbiodinium microadriaticum*, a dinoflagellate symbiont of reef-building corals. *BMC Genomics*. 2013; **14**:704

LANGUAGE AND COMPUTING SKILLS

Languages	Fluent in English and Mandarin Proficient in Malay and Cantonese
Computing	Extremely familiar with Windows and UNIX environments Expert in Python Competent in Bash, Perl, R, Visual Basic, HTML and CSS