

Name: Hui Jerome Ho-lam

Academic qualifications

- 2005.10-2008.9, DPhil, Department of Zoology, University of Oxford
- 2000.9-2005.8, BSc, MPhil, Department of Zoology, The University of Hong Kong

Previous and Present academic positions held

- 2023.8-present, Professor, School of Life Sciences, The Chinese University of Hong Kong
- 2014.7-present, Investigator, State Key Laboratory of Agrobiotechnology, CUHK
- 2013.1-2023.7, Assistant and Associate Professor, The Chinese University of Hong Kong
- 2011.11-2012.11, ERC postdoc, University of Oxford
- 2008.11-2011.11, Postdoctoral Research Associate, University of Manchester

Previous relevant research works

- microRNA, genomics, hormones, evolution, arthropods, invertebrates

Publication records (Total number: 113; * denotes corresponding author, h-index=36)

A1-5. Five publications within last 5 years

1. ^So WL, ^Nong WY, ^Xie Y, Yao MH, Baril T, Qu Z, Haimovitz J, Swale T, Gaitan-Espitia JD, Lau KF, Bendena WG, Kai ZP, Hayward A*, **Hui JHL***. (2022). Myriapod genomes reveal ancestral horizontal gene transfer and hormonal gene loss in millipedes. *Nature Communications*, 13, 3010. (IF=17.6) (Nature index journal)
2. ^Nong WY, ^Yu Y, ^Aase-Remedios M, Xie Y, So WL, Li Y, Wong CF, Baril T, Law ST, Lai SY, Haimovitz J, Swale T, Chen SS, Kai ZP, Sun X, Wu Z, Hayward A, Ferrier DE*, **Hui JHL***. (2022). Genome of the ramshorn snail *Biomphalaria staminea* - an obligate intermediate host of schistosomiasis. *GigaScience*, 11, giac012. (IF=9.2)
3. ^Qu Z, ^Yiu WC, ^Yip HY, ^Nong W, Yu CW, Lee IH, Wong AY, Wong NW, Cheung KM, Chan TF, Lau KF, Zhong S, Chu KH, Tobe SS, Ferrier DEK, Bendena WG, **Hui JHL***. (2020). MicroRNA clusters integrate evolutionary constraints on expression and target affinities: the miR-6/5/4/286/3/309 cluster in *Drosophila* leg development. *Molecular Biology and Evolution*, 37(10), 2955-2965. (IF=16.2)
4. ^Qu Z, ^Nong WY, ^So WL, ^Barton-Owen T, ^Li YQ, Li C, Leung TC, Baril T, Wong AY, Swale T, Hayward A, Chan TF, Hayward A, Ngai SM, **Hui JHL***. (2020). Millipede genomes reveal unique adaptation of genes and microRNAs during myriapod evolution. *PLOS Biology*, 18(9), e3000636. (IF=9.8) (Nature index journal)
5. ^Nong W, ^Cao J, ^Li Y, ^Qu Z, Sun J, Shum CW, Yip HY, Swale T, Qian PY, Qiu JW, Kwan HS, Bendena WG, Tobe SS, Chan TF, Yip KW, Chu KH, Ngai SM, Tsim KY, Holland PWH*, **Hui JHL***. (2020). Jellyfish genomes reveal distinct homeobox gene clusters and conservation of small RNA processing. *Nature Communications*, 11, 3051. (IF=17.6) (Nature index journal)(Evaluated by F1000)

B6-10. Five publications beyond 5 years

6. Qu Z, Bendena WG, Siggins KW, Noriega F, Kai ZP, Zang YY, Chan HY, Chan TF, Chu KH, Lam HM, Akam M, Tobe SS, **Hui JHL***. (2017). MicroRNAs participate in regulating the sesquiterpenoid hormonal pathway in *Drosophila* and other arthropods. *Proceedings of the Royal Society of London B*, 284,1869. (IF=6.0)(Nature index journal)
7. Kenny NJ, Sin YW, Hayward A, Paps J, Chu KH, **Hui JHL***. (2015). The phylogenetic utility and functional constraint of microRNA flanking sequences. *Proceedings of the Royal Society of London B*, 282(1803), 2014983. (IF=6.0)(Nature index journal)
8. **Hui JHL**, Marco A, Hunt S, Melling J, Griffiths-Jones S, Ronshaugen M (2013). Structure, evolution and function of the bi-directionally transcribed *iab-4* microRNA locus in insects. *Nucleic Acid Research*, 41(5), pp. 3352-3361. (IF=19.1)
9. **Hui JHL**, McDougall C, Monteiro AS, Holland PWH, Arendt D, Balavoine G, Ferrier DEK (2012). Extensive chordate and annelid macrosynteny reveals ancestral homeobox gene organisation. *Molecular Biology and Evolution*, 29(1), pp. 157-165. (IF=16.2)
10. ^Griffiths-Jones S, ^**Hui JHL**, Marco A, Ronshaugen M (2011). MicroRNA evolution by arm switching. *EMBO Reports*, 12, 172-177. (IF=9.1)(Evaluated by F1000)

Others:

Selected Awards:

2021 - The Faculty Young Researcher Award, CUHK

2014, 2018 - The Faculty Exemplary Teaching Award, CUHK

Reviewer for grants:

BBSRC (UK), CSF (Czech Republic), FWO (Belgium), ISF (Israel), (Macau), NSFC (China), ECF (Hong Kong), RGC (Hong Kong), SNSF (Swiss)

Editorial board members:

Frontiers in Ecology and Evolution, Frontiers in Endocrinology, Frontiers in Genetics, Frontiers in Physiology, Frontiers in Plant Science, International Journal of Molecular Sciences, Journal of the Marine Biological Association of the United Kingdom

Other related publications:

- Law et al (2023). The genome of the deep-sea anemone *Actinernus* sp. contains a mega-array of ANTP-class homeobox genes. *Proceedings of the Royal Society B*, 290, 20231563. (IF=6.0)(Nature index journal)(last and corresponding author)

- Lee et al (2023). Sex-dependent responses to temperature in the common yellow butterfly *Eurema hecabe*. *BMC Biology*, 21, 200. (IF=7.4)(last and corresponding author)

- Xiong et al (2022). Comparative Genomics Reveals Insights into the Divergent Evolution of Astigmatic Mites and Household Pest Adaptations. *Molecular Biology and Evolution*, 39(5), msac097. (IF=16.2)

- Nong et al (2021). Horseshoe crab genomes reveal the evolutionary fates of genes and microRNAs after three rounds (3R) of whole genome duplication. *Communications Biology*, 4, 83. (IF=6.5)(last and corresponding author)

- Vong et al (2021). SOX9-COL9A3-dependent regulation of choroid plexus epithelial polarity governs blood-cerebrospinal fluid barrier integrity. *Proceedings of the National Academy of Sciences*, 118(6). (IF=11.2)

- Lin et al (2021). Formation of artificial chromosomes in *Caenorhabditis elegans* and analyses of their segregation in mitosis, DNA sequence composition and holocentromere organization. *Nucleic Acids Research*. (IF=19.1)

- Nong et al (2020). Chromosomal-level reference genome of the incense tree *Aquilaria sinensis*. *Molecular Ecology Resources*. (IF=8.6)(last and corresponding author)

- Hui JHL (2018). Copepod incompatibilities. *Nature Ecology and Evolution*, 2, 1203-1204. (IF=19.1)(corresponding author)

- Sun et al (2017). Adaptation to deep-sea chemosynthetic environments as revealed by mussel genomes. *Nature Ecology and Evolution*, 1, 0121. (IF=19.1)

- Cheng et al (2015). A developmental hourglass in fungi. *Molecular Biology and Evolution*, 32(6), 1556-1566. (IF=16.2)

- Quah et al (2015). A burst of miRNA innovation in the early evolution of butterflies and moths. *Molecular Biology and Evolution*, 1161-74. (IF=16.2)