

External Competitive Research Grants from Research Grant Council - as **Principal Investigator**

Funding type	Project Title	Amount	Award year (Duration)
UGC Area of Excellence Scheme (AoE)	Ecological risk assessment models for predicting critical effects levels (AoE Centre for Marine Environmental Research and Innovative Technology, MERIT)	800,000 [#]	2008/2009 (2008-2013)
RGC-GRF	Physiological and molecular responses of the Pacific oyster larvae to ocean acidification at warm and low-saline seawater: Immediate and latent effects	755,760	2009/2010 (2010-2012)
RGC-GRF	Oyster larval metamorphosis and biomineralization under changing carbonate chemistry scenarios in estuaries: insights into functional adaptive strategies	986,000	2010/2011 (2011-2013)
RGC-GRF[^]	Biomineral mechanical properties as a function of rising carbon dioxide: the mechanisms and consequences of this biomineral-environment interaction	807,600	2011/2012 (2012-2014)
RGC-GRF[^]	Biocalcification by tubeworms in the face of climate change: challenges and adaptive mechanisms	1,040,000	2012/2013 (2013-2016)
RGC-GRF[^]	Larvae of the Hong Kong, Pacific, and Portuguese oysters in a changing climate: Who Wins, Who Loses, and Why?	680,683	2014/2015 (2015-2017)
RGC-GRF	Understanding the mechanisms for shell strength in Hong Kong oysters: will the toughest survive climate change?	522,898	2017/2018 (2018-2021)
RGC-GRF	Ocean acidification driven discovery of novel crystal orientation rotating proteins from oyster shells	558,272	2019/2020 (2020-2023)
RGC-GRF	The dynamic multigenerational fate of ocean acidification-stressed oysters	1,111,854	2020/2021 (2021-2024)

[#]As Co-opted member

[^]Proposals secured 100% score from examiners and thus full funding without deduction

External Research Grants from non-RGC sources as **Principal Investigator**

Funding type	Project Title	Amount	Award year (Duration)
HKU-NUS Collaboration grant	Marine Proteomics	120,000	2010-2011
HKU-Norway Collaboration grant	Larval proteomics: response of fish larval proteome to ocean acidification	250,000	2010-2012
HKU-Norway Collaboration grant	Effect of ocean acidification on protein expression (proteomics) of high-artic zooplankton	350,000	2012-2014
SFC / RGC Joint Research Scheme	Biom mineralization response of shellfish to global change: biomaterial aspects and applications	125,000	2014-2015
ECF Fund	2nd Interdisciplinary Symposium on Ocean Acidification and Climate Change (2nd ISOACC)	247,200	2016-2017
AFCD-SFDF Grant	Hatchery seed production for sustainable oyster aquaculture in Hong Kong	5,300,000	2021-2024
Lee Kum Kee Company Grant	Solutions for Reducing “Winter” mortality of Hong Kong Oyster	3,000,000	2021-2024

External Research Grants as **Co-Investigator**

Funding type	Project	Amount	Award Year (Duration)
Agriculture, Fisheries & Conservation Dept., HKSARG	Baseline survey of benthic community in Deep Bay	1,200,000	2011 (2011-2013)
RGC-GRF	Predicting the fate of marine bivalves in a warming world	736,128	2013/2014 (2014-2016)
RGC-GRF	Investigation on the mechanics of adhesion between tubeworm (<i>Hydroides elegans</i>) and substrata	692,894	2014/2015 (2015-2017)
RGC-GRF	Will hypoxia and ocean acidification alter biofilms and hence disrupt their role as a signpost for marine larval settlement?	715,836	2015/2016 (2016-2018)
Hong Kong Oyster Group Limited - AFCD- Sustainable Fisheries Development Fund	Oyster depuration in collaboration with Deep Bay Oyster Association	500,000	2018-2021
Small Equipment Grant from HKU	A Technology R&D Platform for the Development and Evaluation of bioactive Biomaterials for Ageing Osteoporotic Bone Fractures Treatment	1,000,000	2020-2023

Internal Grants from HKU as Principal Investigator

Funding type	Project Title	Amount	Duration
Seed Grant for New Staff	Marine calcifiers and Climate change: response of economically important juvenile benthic calcifiers to ocean acidification	120,000	2009-2010 Completed
Seed Funding	Climate change effects on larval metamorphosis: lessons from biomineralization	70,000	2010-2011 Completed
Seed Funding	Mechanical properties of biomineral nanocomposites in edible oysters: implications of rising carbon dioxide	100,000	2011-2012 Completed
Seed Funding	Ocean acidification alters and weakens the integrity of tubeworm shells: Can it negate biofouling problem in warm waters?	72,000	2012-2013 Completed
Seed Funding	Succession of benthic communities in high-CO2 ocean: an ecosystem based approach	48,000	2014-2015 Completed
Seed Funding	Architecture and material properties of oyster shells: new insights from 3D printing and FEA modeling	68,980	2016-2017
Seed Funding	Epigenetic adaptations for climate change in edible oysters	53,260	2019-2020
HKU-SRT grant	Coastal sustainability and climate change	100,000	2009-2012 Completed
HKU-SRT grant	2 nd Interdisciplinary symposium on Ocean Acidification and Climate change	100,000	2016-2017
HKU-Faculty of Science	2 nd Interdisciplinary symposium on Ocean Acidification and Climate change	80,000	2016-2017
Merit Award for Successful GRF&	For the 6 GRF grants	250,000	Nil
Donations for oyster research	Oyster Research	400,000	2008-2013