

【Curriculum vitae】

Yi-Han Li, Ph.D.

CONTACT INFORMATION

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RESEARCH EXPERIENCE

- | | | |
|-----------------------|----------------------|--|
| Nov 2021-
present | Postdoc
Associate | Department of Biochemistry, Baylor College of Medicine, Houston, Texas, United States of America.
Mentor: Dr. Eric Van Nostrand
1) Study of RNA binding protein regulatory networks in breast cancer |
| Mar 2018-
Oct 2021 | Postdoc
Associate | Department of Pathology & Immunology, Baylor College of Medicine, Houston, Texas, United States of America.
Mentor: Dr. Laising Yen
1) <i>In-vitro</i> selection of RNA Aptamers for Drugs binding
2) Developing effective screen methods for ovarian cancer
3) To establish the BCAM-AKT2 fusion gene as a target for small-molecule drug screening in HGSC |

EDUCATION

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|------------------------|-------|--|
| Sep 2011 -
Oct 2017 | Ph.D. | Institute of Basic Medical Sciences, National Cheng Kung University, Tainan, Taiwan.
Advisor: Dr. H. Sunny Sun
Ph.D. Dissertation: Study the role of FGF9 in Male Sex Determination |
| Sep 2009 -
Jul 2011 | M.S. | Institute of Biotechnology, National Pingtung University of Science and Technology, Pingtung, Taiwan.
Advisor: Dr. Hso-Chi Chung
Master Thesis: An Investigation on Gene Polymorphisms of Porcine Cytokines and Toll-like Receptors |
| Sep 2005 -
Jun 2009 | B.S. | Department of Health and Nutrition Biotechnology (Present: Department of Food Nutrition and Health Biotechnology), Asia University, Taichung, Taiwan
Undergraduate Research in Dr. Ming-Jen Fan's lab
Research Topic: To establish the molecular markers for identifying Taiwan Yam (<i>Dioscorea</i>) by Random Amplification of Polymorphic DNA (RAPD) PCR |

SKILLS

Molecular cloning and molecular biology techniques (DNA/RNA extraction, RT-QPCR, EMSA assay, ChIP assay, RNA pull-down assay, RNA-IP assay etc.), Cell biology techniques (ELISA, MTT assay, Weston blot assay, luciferase reporter assay etc.), transgenic mice analysis, Primary cell and cell lines culture, *Ex-vivo* 3D organ culture, Microscopy techniques, Bioinformatics analysis (Transcription factor binding analysis, Gene domains & structures analysis, Gene Expression Omnibus (GEO) analysis, Gene Ontology (GO) enrichment analysis etc.), Immunoassays, Flow cytometry analysis, RNA library preparation, RNA base *in-vitro* selection method, 293F protein expression system, protein purification process, enhanced CLIP (eCLIP)

PUBLICATIONS

- ◆ **Li YH**, Chen TM, Huang BM, Yang SH, Wu CC, Lin YM, Chuang JI, Tsai SJ, Sun HS. FGF9 is a downstream target of SRY and sufficient to determine male sex fate in ex vivo XX gonad culture. *Biology of Reproduction*, 2020 Dec; 103(6):1300-1313
- ◆ **Editor's Choice**

Chen TM, Lai MC, **Li YH**, Chan YL, Wu CH, Wang YM, Chien CW, Huang SY, Sun HS, Tsai SJ. hnRNPM induces translation switch under hypoxia to promote colon cancer development. *EBioMedicine*, 2019 Mar;41:299-309

Tsui KH, Wu MY, Lin LT, Wen ZH, **Li YH**, Chu PY, Li CJ. Disruption of mitochondrial homeostasis with artemisinin unravels anti-angiogenesis effects via auto-paracrine mechanisms. *Theranostics* 2019; 9(22):6631-6645. doi:10.7150/thno.33353

Chen SN, Chang R, Lin LT, Chern CU, Tsai HW, Wen ZH, **Li YH**, Li CJ, Tsui KH. MicroRNA in Ovarian Cancer: Biology, Pathogenesis, and Therapeutic Opportunities. *Int J Environ Res Public Health*. 2019 Apr 29;16(9)

Chen TM, Shih YH, Tseng JT, Lai MC, Wu CH, **Li YH**, Tsai SJ, Sun HS. Overexpression of FGF9 in colon cancer cells is mediated by hypoxia-induced translational activation. *Nucleic Acids Research*, 2014 Mar; 42(5):2932-44

CONFERENCE PRESENTATIONS

Yi-Han Li, Tsung-Ming Chen, and H. Sunny Sun, 2015, The male sex-determination gene SRY binds to human fibroblast growth factor 9 (FGF9) promoter and upregulates FGF9 expression. The 30th Joint Annual Conference of Biomedical Science, 2015 March 21-22, Taipei, Taiwan.

Yi-Han Li, Tsung-Hui Yang, Shyh-Hwa Liu and Hso-Chi Chaung, 2011, Investigation on Different Pig Breeds on Immune Cell Surface Marker Expression. Chinese Society of Veterinary Science Spring Conference, 2011 May 14, Pingtung, Taiwan.

PROFESSIONAL SERVICES

- 2021- present Reviewer, Aging (Albany NY) (IF: 5.682)
- 2021- present Reviewer, Computational and Structural Biotechnology Journal (IF: 7.271)
- 2021- present Reviewer, Cancer control (IF: 3.103)
- 2020- present Guest editor, Cancer control (IF: 3.103)
- 2020 Reviewer, Oxidative Medicine and Cellular Longevity (IF: 5.076)
- 2018-2019 Reviewer, Journal of Oncology (IF: 2.2)

HONORS

Honorary member of the Phi Tau Phi Scholastic Honor Society of the Republic of China

CERTIFICATES

1. Rat and mice Blood sampling, Administration, Euthanasia and Histology Training Program, National Laboratory Animal Center, Taiwan
2. Genetically Modified Animal care and Refinement Training Program, National Laboratory Animal Center, Taiwan
3. Mouse Dissection and Histology Training Program, National Laboratory Animal Center, Taiwan
4. Teaching Assistant Training Program, National Cheng Kung University, Taiwan
5. Ph.D. Teaching ability training Program, National Cheng Kung University, Taiwan

TEACHING EXPERIENCE

- 2017 Lecturer, National Cheng Kung University International Summer School Program
- 2012-2017 Teaching Assistant, course title “Bioinformatics”
Institute of Molecular Medicine, National Cheng Kung University
- 2010-2011 Teaching Assistant, course title “Biochemical experiment”
Department of Veterinary Medicine, National Pingtung University of Science and
Technology