


## ENGLISH NAME (郭紘志)

<b>POSITION/AFFILIATIONS</b> RESEARCH FELLOW & DEPUTY DIRECTOR INSTITUTE OF CELLULAR AND ORGANISMIC BIOLOGY ACADEMIA SINICA	<b>CONTACT INFORMATION</b> No. 128, Sec. 2, Academia Road Nangan, Taipei, Taiwan TEL: 886 227899588 E-mail: kuohuch@gate.sinica.edu.tw		
<b>EDUCATION</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(S)</b>	<b>FIELD OF STUDY</b>
King's College London	Ph.D.	2001	Reproductive Genetics

### **Positions and Employment** (含現職，由最近者往前追溯)

- 2018-present Research Fellow & Deputy Director, Institute of Cellular and Organismic, Academia Sinica, Taiwan
- 2015-present Professor, Graduate Institute of Medical Genomics and Proteomics, College Of Medicine, National Taiwan University, Taiwan  
Institute of Cellular and Organismic, Academia Sinica, Taiwan
- 2013-2018 Associated Research Fellow, Institute of Cellular and Organismic, Academia Sinica, Taiwan
- 2004-2013 Assistant Research Scientist, Stem Cell Program, Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan
- 2003-2004 Staff Scientist, Oregon National Primate Research Center, U.S.A.

### **Selected publications (\*corresponding author)** (請擇代表著作，時間先後順序由最近者往前追溯)

1. Hou PS and **Kuo HC\*** (2022) Central nervous system organoids for modeling neurodegenerative diseases. *IUBMB Life*, 74(8):812-825
2. Wu YY and **Kuo HC\*** (2020) Functional roles and networks of non-coding RNAs in the pathogenesis of neurodegenerative diseases, *Journal of Biomedical Science*, 27(1):49
3. Huang HP, Chiang W, Chuang CY, Stone L, Kang CK, Hwu WL, **Kuo HC\*** (2019) Using human Pompe Disease induced pluripotent stem cells-derived neural cells for identifying chemicals with therapeutic potential. *Molecular Human Genetics*, 28(23):3880-3894
4. Yu CY, Li TC, Wu YY, Yeh CH, Chiang W, Chuang CY, **Kuo HC\*** (2018) The Circular RNA circBIRC6 participates in the molecular circuitry controlling human pluripotency. *Nature Communications*. 8(1):1149.
5. Hou PS, Chuang CY, Yeh CH, Chiang W, Liu HJ, Lin TN, **Kuo HC\*** (2017) Direct conversion of human fibroblasts into neural progenitors via the use of transcription factors highly enriched in human ESC-derived neural progenitors, *Stem Cell Reports*. 8(1):54-68.
6. Yu CY and **Kuo HC\*** (2016) The trans-spliced long noncoding RNA tsRMST impedes human ESC differentiation through WNT5A-mediated inhibition of the epithelial-to-mesenchymal transition, *Stem Cells*. 34(8):2052-62.
7. Chiu FL, Lin JT, Chuang CY, Chien T, Chen CM, Chen KH, Hsiao HY, Lin YS, Chern Y\*, **Kuo HC\*** (2015) Elucidating the role of the A2A adenosine receptor in neurodegeneration using neurons derived from Huntington's disease iPSCs", *Human Molecular Genetics*. 24(21): 6066-6079.
8. Yu CY, Liu HJ, **Kuo HC\***, Chuang TJ\* (2014). Is an observed non-co-linear RNA product spliced in trans, in cis, or just in vitro? *Nucleic Acids Research*. 42(14):9410-23.
9. Wu CS, Yu CY, Chuang CY, Hsiao M, Kao CF, **Kuo HC\***, Chuang TJ\* (2014) Integrative transcriptome sequencing identifies trans-splicing events with important roles in human embryonic stem cell pluripotency. *Genome Research*. 24(1):25-36. (**Highlighted by Nature Reviews Genetics**)
10. Hou PS, Chuang CY, Kao CF, Chou SJ, Stone L, Ho HN, Chien CI, **Kuo HC\*** (2013) LHX2 regulates the neural differentiation of human embryonic stem cells via transcriptional modulation of PAX6 and CER1. *Nucleic Acids Research*. 41(16):7753-7770.