

## **Pai-Sheng Chen**

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### **Primary Appointment**

Assistant Professor (08/2012-present)

Department of Medical Laboratory Science and Biotechnology, National Cheng Kung University

### **Dual Appointment**

Assistant Professor (08/2012-present)

Institute of Basic Medical Sciences, National Cheng Kung University

Consultant (08/2022-present)

Breast Medical Center, National Cheng Kung University Hospital.

### **Research Field**

RNA metabolism

Post-translational regulation

Precision oncology

### **Honors and Awards**

1. *Excellent Young Scholar Grant (2014-2017; Ministry of Science and Technology, Taiwan)*
2. *Outstanding Teaching Award (2022, National Cheng Kung University)*
3. *Excellent Counseling Award (2022, National Cheng Kung University)*
4. *2030 Cross-Generation Young Scholars Program - Excellent Young Scholar*

*Grant (2022-2025; Ministry of Science and Technology, Taiwan)*

5. *NSTC Ta-You Wu Memorial Award (2022; National Science and Technology Council, Taiwan)*
6. *NSTC Ta-You Wu Memorial Award Grant (2023-2026; National Science and Technology Council, Taiwan)*

### **Selected Publications Within Five Years (as a first/corresponding author)**

1. Hui-Huang Lai, Jie-Ning Li, Ming-Yang Wang, Hsin-Yi Huang, Carlo M. Croce, Hui-Lung Sun, Yu-Jhen Lyu, Jui-Wen Kang, Ching-Feng Chiu, Mien-Chie Hung, Hiroshi I. Suzuki, **Pai-Sheng Chen\*** (2018, Feb). HIF-1 $\alpha$  promotes autophagic proteolysis of Dicer and enhances tumor metastasis. *Journal of Clinical Investigation*, 2018 Feb 1;128(2):625-643. doi: 10.1172/JCI89212. **(IF 13.3, Ranking 2.1%) \*Corresponding Author**
2. Hui-Huang Lai, **Pai-Sheng Chen\*** (2018, Aug). Dual mechanism of Dicer downregulation facilitates cancer metastasis. *Molecular & Cellular Oncology*, 24;5(5):e1472056. doi: 10.1080/23723556.2018.1472056. eCollection 2018. **(IF 2.6, Ranking 54.3%) \*Corresponding Author**
3. Hui-Huang Lai, Li-Jyuan Lin, Liang-Yi Hung and **Pai-Sheng Chen\*** (2018, Nov). Role of Dicer in regulating oxaliplatin resistance of colon cancer cells. *Biochemical and Biophysical Research Communications*, 506:87-93. pii: S0006-291X(18)32227-7. doi: 10.1016/j.bbrc.2018.10.071. [Epub ahead of print]. MOST 107-2320-B-006-009. **(IF 2.5, Ranking 69%) \*Corresponding Author**
4. Hui-Huang Lai, Chih-Wei Li, Chih-Chen Hong, Hung-Yu Sun, Da-Liang Ou, **Pai-Sheng Chen\*** (2019, Jan). TARBP2-mediated destabilization of Nanog overcomes sorafenib resistance in hepatocellular carcinoma. *Molecular Oncology*, 2019 Jan 18. doi: 10.1002/1878-0261.12449. [Epub ahead of print]. MOST 107-2320-B-006-068. **(IF 5.0, Ranking 20.8%) \*Corresponding Author**
5. Ming-Yang Wang, Hsin-Yi Huang, Yao-Lung Kuo, Chiao Lo, Hung-Yu Sun, Yu-Jhen Lyu, Bo-Rong Chen, Jie-Ning Li, **Pai-Sheng Chen\***. (2019, Feb). TARBP2-Enhanced Resistance During Tamoxifen Treatment in Breast Cancer. *Cancers*, 2019, 11(2), 210; doi.org/10.3390/cancers11020210. *European Patent Approved No. 3 539 541 (IF 4.5, Ranking 24.2%) \*Corresponding Author*
6. **Pai-Sheng Chen#**, Shao-Chieh Lin, Shaw-Jenq Tsai\* (2020, Mar). Complexity in Regulating microRNA Biogenesis in Cancer. *Experimental Biology and Medicine*, 245(5):395-401. doi: 10.1177/1535370220907314. Epub 2020 Feb 19. **(IF 2.8,**

**Ranking 48.7%) #First Author**

7. **Pai-Sheng Chen**<sup>#</sup>, Wen-Tai Chiu, Pei-Ling Hsu, Shih-Chieh Lin, I-Chen Peng, Chia-Yih Wang, Shaw-Jenq Tsai\* (2020, May). Pathophysiological Implications of Hypoxia in Human Diseases. *Journal of Biomedical Science*, 27(1):63. doi: 10.1186/s12929-020-00658-7. (IF 9.0, Ranking 7.9%) #First Author
8. Jie-Ning Li, Hui-Lung Sun, Ming-Yang Wang, **Pai-Sheng Chen**\* (2021, Jul). E-cadherin Interacts With Posttranslationally-Modified AGO2 to Enhance miRISC Activity. *Frontiers in Cell and Developmental Biology*, 9:671244. doi: 10.3389/fcell.2021.671244. eCollection 2021. (IF 4.6, Ranking 12.8%)  
\*Corresponding Author
9. Jie-Ning Li, Ming-Yang Wang, Yi-Ting Chen, Yao-Lung Kuo, **Pai-Sheng Chen**\* (2021, Dec). Expression of SnoRNA U50A Is Associated with Better Prognosis and Prolonged Mitosis in Breast Cancer. *Cancers*. 13(24):6304. doi: 10.3390/cancers13246304. *European Patent Approved*. (IF 4.9, Ranking 24.2%)  
\*Corresponding Author
10. Yu-Yun Shao<sup>#</sup>, **Pai-Sheng Chen**<sup>#</sup>, Liang-In Lin, Bin-Shyun Lee, Andrew Ling, Ann-Lii Cheng, Chiun Hsu & Da-Liang Ou\* (2022, Mar). Low miR-10b-3p associated with sorafenib resistance in hepatocellular carcinoma. *British Journal of Cancer*. doi: 10.1038/s41416-022-01759-w. Online ahead of print. (IF 8.1, Ranking 14.3%) #First Author
11. Jie-Ning Li, Zhu-Jun Loh, Hui-Wen Chen, I-Ying Lee, Jui-Hung Tsai<sup>\*</sup>, **Pai-Sheng Chen**<sup>\*</sup>. SnoRNA U50A mediates everolimus resistance in breast cancer through mTOR downregulation. *Translational Oncology*, Volume 48, 2024. (IF 4.5, Ranking 24.2%) \*Corresponding Author
12. Jie-Ning Li, Ming-Yang Wang, Yu-Jhen Lyu, Pownraj Brindanganam, Mohane Selvaraj Coumar, **Pai-Sheng Chen**<sup>\*</sup>. (2024, Aug). A transcription-independent role for HIF-1 $\alpha$  in modulating microprocessor assembly. *Nucleic Acids Research*. Accepted. (IF 16.1, Ranking 1.9%) \*Corresponding Author
13. **Pai-Sheng Chen**<sup>#,\*</sup> (2019, Feb). Regulation of Selective Proteolysis in Cancer. *The Ubiquitin/Proteasome System*. Matthew Summers, editor, IntechOpen, London, UNITED KINGDOM. ISBN 978-953-51-7766-1 (Invited book chapter)  
\*Corresponding Author

**Invited SCI Journal Reviewer (Selected high-ranking journal list)**

1. *Cancer Research*
2. *Cancer Communications*
3. *Journal of Advanced Research*
4. *Drug Resistance Updates*

5. *Oncogene*
6. *Cancer Letters*
7. *Journal of Biomedical Science*
8. *Molecular Oncology*
9. *Theranostics*
10. *Therapeutic Advances in Medical Oncology*
11. *Oncogenesis*
12. *European Journal of Pharmacology*
13. *Journal of Cellular Physiology*
14. *Toxicology and Applied Pharmacology*

#### **Editorial Board Member**

1. *BMC Cancer*
2. *Frontiers in Oncology*
3. *Frontiers in Cell and Developmental Biology*

#### **Patents**

1. Method of Evaluating Drug Resistance and Treatment Effect. **European Patent #EP3539541 B1. Chen Pai-Sheng\***, Li Jie-Ning, Kuo Yao-Lung, Wang Ming-Yang. 2020/12 Approved
2. Method of Evaluating Drug Resistance and Treatment Effect. **US Patent #US 11,435,353 B2. Chen Pai-Sheng\***, Li Jie-Ning, Kuo Yao-Lung, Wang Ming-Yang. 2022/09 Approved
3. Method and kit for the evaluation of the prognosis of breast cancer. **European Patent #EP3540078. Chen Pai-Sheng\***, Li Jie-Ning, Kuo Yao-Lung. 2022/10 Approved

#### **Advisor and Advisory Committees**

Consultant, Breast Medical Center, National Cheng Kung University Hospital, 2022 – present

Member, Research and Development Committee, College of Medicine, National Cheng Kung University, 2021 – present

Advisor, Chee-Yang Tan, Ph.D., 09/2022 – present

Advisor, Chi-Hsun Yang, Ph.D., 09/2021 – present

Advisor, Yu-Chih Chen, Ph.D., 09/2019 – present

Advisor, Pei-Ya Tseng, M.S., 09/2021 – present

Advisor, Jie-Ning Li, Ph.D., 09/2014 – 01/2021

Advisor, Hui-Huang Lai, Ph.D., 09/2013 – 04/2018

Advisor, Nguyen Thi Thanh Nha (International Student), M.S., 09/2019 – 03/2021

Advisor, Chih-Wei Li, M.S., 09/2015 – 03/2018

Advisor, Wen-Hui Ku, M.S., 09/2016 – 07/2018

Advisor, Hei Chen, M.S., 09/2016 – 07/2019

Advisor, Jie-Ning Li, M.S., 09/2013 – 07/2014

Advisor, Hui-Huang Lai, M.S., 09/2012 – 07/2013

Member, Yung-Chieh Chang, Ph.D., 03/2022

Member, My-Hang Nguyen Thi (International Student), M.S., 01/2022

Member, Ting-Wei Kang, M.S., 01/2022

Member, Ruo-Chi Huang, M.S., 07/2021

Member, Yi-Cian Wang, M.S., 07/2021

Member, Chuan-Yun Guo, M.S., 08/2021

Member, Chi-Cheng Io, M.S., 08/2021

Member, Meng-Chien Lu, M.S., 07/2021

Member, Shin-Chin Lin, M.S., 06/2021

Member, Hsiang-Yuan Hsing, M.S., 06/2020

Member, Hui-Ting Ou, M.S., 01/2020

Member, I-Chen Hsieh, M.S., 07/2018

Member, Ting-Yu Lu, M.S., 07/2018

Member, Hsuan-Yu Shen, M.S., 07/2018

Member, Sheng-Han Lin, M.S., 07/2018

Member, Wan-Chen Hsieh, M.S., 07/2018

Member, Yu-Hsuan Tsai, M.S., 07/2018

Member, Wei-En Weng, M.S., 07/2017

Member, Shu-Wei Kao, M.S., 07/2017

Member, Shu-Ching Tang, M.S., 06/2016

Member, Yi-Chieh Chang, M.S., 07/2016