



**Chi-Yun Wang**

**王琪芸**

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**EDUCATION**

- 2006/09-2012/06 Ph.D., Institute of Basic Medical Sciences  
National Cheng Kung University Medical College, Tainan, Taiwan
- 2004/09-2006/06 M.S., Institute of Molecular Medicine  
National Cheng Kung University Medical College, Tainan, Taiwan
- 2000/09-2004/06 B.S., Department of Medical Technology,  
Chung-Shan Medical University, Taichung, Taiwan

**EXPERIENCE**

2020/8-now	<b>Assistant Professor</b> International Ph.D. Program in Innovative Technology of Biomedical Engineering and Medical Devices, Research Center for Intelligent Medical Devices Ming Chi University of Technology
2025	Member of TSBE (Taiwan Society of Biomedical Engineering)
2023	Practical Training on ISO 10993 Biocompatibility Testing for Medical Devices, Industrial Technology Research Institute 工業技術研究院-醫療器材生物相容性試驗 ISO10993 實務培訓
2022	Training in Taiwan University for Executive Biodesign Biomedical technology Innovative Program 台灣大學推廣教 Executive Biodesign 高階經理人醫療器材創新設計專班第一期
2020	Member of BCRS ( Chinese Taipei Society for Biomaterials and Controlled Release )
2020/8-now	<b>Center Member</b> Research Center for Intelligent Medical Devices

2021/1-now	<b>Assistant Research Fellow (Joint Appointment)</b> Bone and Joint Research Center Linkou Chang Gung Medical Foundation
2018/10-2020/7	Postdoctoral Research Fellow Bone and Joint Research Center Linkou Chang Gung Medical Foundation
2015/08- 2018/08	Postdoctoral Research Fellow-Senior Scientist Department of Cancer Biology Wake Forest Baptist Medical Center
2014/03- 2015/08	Postdoctoral Research Fellow Department of Molecular and Cellular Oncology MD Anderson Cancer Center, Houston, Texas, USA
2012/07-2014/01	<b>Postdoctoral Fellow</b> Institute of Clinical Medicine National Cheng Kung University Medical College, Tainan, Taiwan

### RESEARCH INTERESTS

Chondrogenic and bone Tissue engineering, Organ-on-Chip, Tendon repair, Biomaterials.

### HONORS AND AWARDS

2025	BCRS ( Chinese Taipei Society for Biomaterials and Controlled Release ) - YICA (Young Investigator Competition Award) 2025 中華民國生醫材料及藥物製劑學會 年輕學者獎
2024	Teaching Innovation Award, College of Engineering, Academic Year 113 113學年度工程學院教學創新獎
2024	Departmental Teaching Dedication Award, Ph.D. Program in Biomedical and Materials Science, Academic Year 113 113學年度生醫暨醫材博士學位學程系級教學奉獻獎
2024	2024 Taiwan Innotech Expo-Silver Medal Award 2024台灣創新技術博覽會發明競賽 銀牌獎 Modified Nanofiber Multilayer Structure and Its Preparation 改質奈米纖維層體及其製法
2023	2023 Taiwan Innotech Expo-Silver Medal Award 2023台灣創新技術博覽會發明競賽 銀牌獎 Glass-Ceramic Composite Material 玻璃陶瓷復合材料

2023	2023 Taiwan Innotech Expo-Silver Medal Award 2023台灣創新技術博覽會發明競賽 銀牌獎 Preparation Method of Nanocomposite Multilayer Structure 奈米複合層體之製法
2023	第18屆台塑企業應用技術研討會 研發創意實物獎 學校組 第三名
2020-2025	As the Reviewer of international journals, including International Journal of Biological Macromolecules, Carbohydrate Polymer, Biomedical Material, BioTech, Gels, Advanced Composites and Hybrid Materials.
2022	"2022 Taiwan Medical Technology Exhibition Industry Internship" led high school and doctoral students to explore technological innovation and cross-domain applications in medical, health and care, connect with new trends in medical technology and industry trends, and introduce the implementation aspect of STEM projects.
2022	Recommended as an Outstanding teacher by Ming Chi University of Science and Technology (EMI lecture)
2022	2022 National Technical College Students Practical Topic Production Competition and Achievements Exhibition Passed the Preliminary competition. Study on the application of dynamic compression to improve the properties of nucleus pulposus cells in intervertebral disc tissue engineering. Student: Sophomore student in the Department of Mechanical Engineering, Ming Chi University of Science and Technology 教育部 2022 年全國技專校院學生實務專題製作競賽入圍證明書
2022	Higher Education Deepening Plan: 110 Digital Textbook Subsidy Project (Host) Awarded for Excellent Work Applying biomedical information digital textbooks to introductory medical engineering courses
2022	Higher Education Deepening Plan: 110 Practical Textbook Subsidy Plan (Host) Awarded for Excellent Work Cell organelle model making
2021	"2021 Taiwan Medical Technology Exhibition Industry Internship" leads students to explore technological innovations and cross-domain applications in medical, health and care, and keep pace with new trends in medical technology and industry trends.
2021	2021 Annual Meeting of the Society of Biomedical Materials and Drug Manufacturing of the Republic of China and 2021 Engineering Medicine Scientific Achievements Presentation of the Department of Science and Technology, Ministry of Science and Technology <b><u>Serve as a judge for the student oral paper competition</u></b>

2021	Best Paper Award in Biomaterials International 2021
2021	Recommended as an <b>Outstanding teacher</b> by Ming Chi University of Science and Technology
2020	Higher Education Deepening Plan: 109 Digital Textbook Subsidy Project (Host) <b>Awarded for Excellent Work</b> Introduction to Medical Engineering uses industry case sharing and presentations on novel research
2020	2021 Become Member of Biomaterials and Controlled Releases Society
2020	2020 Science and Technology International Cooperation Research Symposium (Invited Oral Presenter)
2019	Best Paper Award of Chang Gung International Medical Research Conference
2012	Travel Award of National Science Council (NSC), Taiwan.
2011	Outstanding Students Conference Travel Award from the foundation for the Advancement of Outstanding Scholarship (ASCB)
2009	Merck Young Scientist Award Honorable Mention
2009	Outstanding Students Conference Travel Award from the foundation for the Advancement of Outstanding Scholarship (ASCB)
2008	Best Paper Award of International Symposium on Cell Signaling and Gene Regulation, Tainan, Taiwan

### **FIELDS OF SPECIALTY**

Tissue engineering	Microenvironment construct, 4D (3D dynamic) cell culture, Bone and Intervertebral Disc Tissue Degenerative Model construct.
Biomaterial	Hydrogel (gelatin sponge construct), Bone materials (Ceramics, Titanium), Biocompatibility of Biomaterials, Cell-membrane nanoparticle, Nano-silver/iron particle, Surface coating.
Molecular Biology	Nicked CRISPR; Site-directed mutagenesis; Cloning; Microarray; Proteomics; recombinant protein preparation and purification.

Biochemistry	Nucleic acid, amino acids, Protein and Glucose Metabolism
Cell Biology	Cytotoxicity, Signal transduction, Cell cycle progression, Apoptosis and Autophagy, Stem cell handling.
Tumor biology	Cancer metastasis; Cancer metabolomics;
Animal model	Intraperitoneal injection; Intravenous injection; subcutaneous injection; Orthotopic liver and breast cancer model; Mice hair growth model and wound healing model; Bone marrow derived macrophage isolation; Rat caudal Intervertebral Disc Tissue Degenerative Model
Immunology	Innate immunity and adaptive immunity; Cancer immune surveillance.

## LECTURE

Introduction to Biomedical Engineering
Biochemistry
Molecular Biology
Precision Medicine
Antibody Engineering
Advanced Biotechnology
Tissue Engineering & Regenerative Medicine
Cellular Biotechnology
Medical Device Design and Development, BioXDesign
Seminar/ Presentation Training
Bioinformation
Biomaterials

## PUBLICATION

1. C. C. Hsu<sup>1</sup>, **C. Y. Wang<sup>1</sup>**, R. K. Manne<sup>1</sup>, Z. Cai, V. Penugurti, R. Kant, L. Bai, B. Syong-Pan, T. Chen, Y. R. Chen, H. E. Wu, Y. Jin, H. Gu, C. Y. Li, H. K. Lin\*. **2025.03** ALDH4A1 functions as an active MPC complex maintaining mitochondrial pyruvate import for TCA cycle entry and tumor suppression. *Nat. Cell Biol*, 27: 847–862. (SCI, IF:17.3 Rank: Q1 in Cell Biology (9/205), Top 4.39%).
2. Edouard Gnomou<sup>1</sup>, Thi Tam An Tran<sup>1</sup>, Tsan-Tzu Yang<sup>1,2</sup>, Thi Thu The Quach<sup>1,2</sup>, **C. Y. Wang\***. **2025.05** Anti-bacterial, Anti-inflammatory and Anti-osteoclastogenic Effects

- of Synthetic Mineralized Lysozyme Nanoparticles for Treating Infectious Osteoporosis. *International Journal of Biological Macromolecules*, 320: 145769. (SCI, IF: 8.5, Rank: Q1 in Chemistry, Applied (6/74), Top 8.1%).
3. Hung, G. Y., Xia, Y. Z., Chen, P. Y., Lai, P. L., Feng, K. C., Tu, C. S., Cheng, I. C., C. Y. Wang\*. **2025.04** Doping ratio between ZnO/MgO tunes antimicrobial, osteogenic, and anti-osteoclast activity of CaO-MgO-ZnO-SiO<sub>2</sub> bioactive glass-ceramics. *Ceramics International*, 51: 30436 (SCI, IF:5.1 Rank: Q1 in Materials Science, Ceramics (3/31), Top 9.7%)
  4. Y. W. Tsai, Q. V. Le, N. T. D. Hanh, B. L. Liu, P. Srinophakun, C. Y. Wang, C. Y. Chiu, K. H. Chen, Y. K. Chang. **2025.07** Optimization of flow dynamics in single-pass and recirculating systems for enhanced *Escherichia coli* removal efficiency using polyhexamethylene biguanide (PHMB) modified PAN-based nanofiber membranes. *Sep. Purif. Technol.* (SCI, IF: 8.2, Rank: Q1 in engineering, chemical (15/170), Top 8.82%)
  5. G. Y. Hung, C. Y. Wang, K. C. Feng, C. S. Tu, I. C. Cheng, H. Mana-Ay, H. Y. Hsiao, P. L. Lai, P. Y. Chen. **2025.04** Manipulating Mg/Ca ratios in MgO-CaO-SiO<sub>2</sub> bioactive glass for achieving accelerated osteogenic differentiation of human adipose-derived stem cells. *Biomaterials Advances*, (SCI, IF: 5.5, Rank: Q1 in Materials Science, Biomaterials (14/53), Top 26.4%)
  6. Y. J. Wu, C. Y. Wang, H. Mana-ay, C. S. Tu, P. L. Lai, P. Y. Chen. **2025.** Achieving high surface bioactivity and adhesion in Ti-6Al-4V alloy via anodic oxidation and electrophoretic deposition. *Ceramics International*, 169: 214189 (SCI, IF: 5.1, Rank: Q1 in Materials Science, Ceramics (3/31), Top 9.7%)
  7. P. J. Naig, Z. Y. Kuo, M. F. Chung, C. H. Chen, C. Y. Wang, K. Y. Hung \*. **2025.01** Enhancing Bone Regeneration Using Blended Poly (L-lactide-co-D, L-lactide) and  $\beta$ -Tricalcium Phosphate Nanofibrous Periodontal Biodegradable Membranes. *Polymers*, 17: 256 (SCI, IF: 4.7, Rank: Q1 in Polymer Science (19/95), Top 20%)
  8. J. H. Yang, Q. V. Le, B. L. Liu, P. Srinophakun, C. Y. Wang, C. Y. Chiu, I. S. Ng, K. H. Chen, Y. K. Chang. **2025.** Enhanced antimicrobial performance of single-use polyamide 56 nanofiber membranes modified with chitosan, reactive dyes, and poly (hexamethylene biguanide)(PHMB) for biological waste treatments. *Biochem. Eng. J.*, 213:109538 (SCI, IF: 3.7, Rank: Q2 in Biotechnology & Applied Microbiology (54/174), Top 31.0%)
  9. D. T. M. Huong, C. Y. Wang, P. Yi. Chen, C. W. Ooi, X. E. C. Thew, B. L. Liu, C. Y. Chiu, S. L. Tsai, K. H. Chen, Y. K. Chang. **2024.05** Immobilization of poly (hexamethylene biguanide) to cellulose acetate-and cellulose-based nanofiber

- membranes for antibacterial and cytotoxic studies. *Biochem. Eng. J.*, 205:109256 (SCI, IF: 3.7, Rank: Q2 in Biotechnology & Applied Microbiology (54/174), Top 31.0%)
10. Y. T. Chen, H. Y. Hsiao, **C. Y. Wang**, C. S. Tu, K. C. Feng, H. Mana-ay, S. Y. Kung, P. Y. Chen, P. L. Lai. **2024.03** Improving bioactivity in 3D-printed Ti-6Al-4V alloy scaffold via CaO-MgO-SiO<sub>2</sub> glass-ceramic coating. 2024. *J. Alloy. Compd.*, 976: 173387 (SCI, IF: 5.8, Rank: Q2 in Chemistry, Physical (51/178), Top 28.65%)
  11. T. T. T. An , E. Gnoumou , B. L. Liu, P. Srinophakun, C. Y. Chiu, **C. Y. Wang\***, K. H. Chen\*, Y. K. Chang\*. **2024**. Highly efficient capture of Escherichia coli using chitosan-lysozyme modified nanofiber membranes: Potential applications in food packaging and water treatment. *Biochem. Eng. J.* 210: 109411. (SCI, IF: 3.7, Rank: Q2 in Biotechnology & Applied Microbiology (54/174), Top 31.0%)
  12. E. Gnoumou, T. T. A. Tran, P. Srinophakun, B. L. Liu, C. Y. Chiu, H. C. Lee, **C. Y. Wang\***, K. H. Chen\*, Y. K. Chang\*. **2024.04** Optimization of lysozyme-modified ion exchange nanofiber membrane for efficient capture of Escherichia coli: Antibacterial and cytotoxic studies. *Journal of the Taiwan Institute of Chemical Engineers*, 157: 105400. (SCI, IF: 5.5, Rank: Q1 in Engineering, Chemical (31/170), Top 18.24%)
  13. Zhang YC, Le QV, Gnoumou E, Liu BL, Srinophakun P, **C. Y. Wang**, Chiu CY, Ng IS, Chen KH, Chang YK. **2024.11** Fabrication and characterization of antibacterial nanofiber membranes modified with chitosan and imidazolidinyl urea for potential use in biological waste treatments. *International Journal of Biological Macromolecules*, 279(Pt 4): 135364. (SCI, IF: 7.7, Rank: Q1 in Chemistry, Applied (6/74), Top 8.1%)
  14. Wen HY, Le QV, Liu BL, Srinophakun P, Chiu CY, **C. Y. Wang**, Ng IS, Chen KH, Chang YK. **2024.11** Alginate and chitosan-based polyamide 56 modified nanofiber membrane for highly effective capture of Escherichia coli: Antibacterial and cytotoxicity studies. *International Journal of Biological Macromolecules*, 279(Pt 4): 135464. (SCI, IF: 7.7, Rank: Q1 in Chemistry, Applied (6/74), Top 8.1%).
  15. Hsieh, M.-K., **C. Y. Wang**, Kao, F.-C., Su, H.-T., Chen, M.-F., Tsai, T.-T., Lai, P.-L. **2024**. Local application of zoledronate inhibits early bone resorption and promotes bone formation. *JBMR Plus* 8, ziae031. (SCI, IF: 3.4 Rank: Q2 in Endocrinology & Metabolism (72/186), Top 38.4%)
  16. Hung, G.-Y., **C. Y. Wang**, Hsiao, H.-Y., Tu, C.-S., Mana-Ay, H., Chen, C.-T., Lai, P.-L., Feng, K.-C., Chen, P.-Y., **2024.07** Composite bone graft of CaO-MgO-SiO<sub>2</sub> glass-ceramics and CaSO<sub>4</sub> ceramics for boosting bone formation rate. *Journal of Materials Chemistry B*, 12, 6394–6409. (SCI, IF:6.1 Rank Q1 in Biomedical Engineering

- (11/53), Top 11.59%).
17. T. M. H. Dinh, B. L. Liu, P. Srinophakun, **C. Y. Wang**, C. Y. Chiu, S. L. Tsai, K. H. Chen, Y. K. Chang. **2024.11** Long-term and high-efficiency capture of Escherichia coli using cellulose acetate nanofiber membrane functionalized with reactive 19 dye and polyhexamethylene biguanide. *Biochem. Eng. J.*, 211:109474 (SCI, IF: 3.7, Rank: Q2 in Biotechnology & Applied Microbiology (54/174), Top 31.0%)
  18. Q. V. Le, B. L. Liu, P. Srinophakun, J. Y. Shih, **C. Y. Wang**, C. Y. Chiu, S. L. Tsai, K. H. Chen, Y. K. Chang. **2024.06** Highly efficient capture of E. coli using amidoximated polyacrylonitrile nanofiber membrane immobilized with reactive green 19 dye/polyhexamethylene biguanide: Antibacterial and cytotoxicity studies. *Sep. Purif. Technol.* (SCI, IF: 8.2, Rank: Q1 in Engineering, Chemical (15/170), Top 8.8%)
  19. Wu YJ, **C. Y. Wang**, Feng KC, Chien RR, Haidee Mana-ay, Kung SY, Hou KH, Tu CS, Chen PY, Lai PL. **2023** Ti-6Al-4V intervertebral fusion cage with compatible stiffness, enhanced fatigue life, and osteogenic differentiation. *Journal of Alloys and Compounds*, 957: 170450. (SCI, IF: 5.8, Rank: Q1 in Physical chemistry (51/178), Top 5.16%)
  20. G.Y. Hung, P. Y. Chen, **C. Y. Wang**, C. S. Tu, C. S. Chen, P. L. Lai, K. C. Feng. **2023**. Tailoring bioactive and mechanical properties in polycrystalline CaO–SiO<sub>2</sub>–P<sub>2</sub>O<sub>5</sub> glass-ceramics *Ceramics International*, 49: 7289-7298. (SCI, IF:5.1, Rank: Q1 in Material Science, Ceramics (3/31), Top 8.9%).
  21. Hsieh, M.-K., Liu, P.-Y., Li, Y.-D., **C. Y. Wang**, Hu, C.-C., Tai, C.-L., Lai, P.-L., **2023** The role of counter-torque holders in tightening of pedicle screw-rod constructs: a biomechanical study in a porcine model. *Spine Journal*, 23, 315–324. (SCI, IF: 4.9, Rank: Q1 in Orthopedics (5/136), Top 2.19%).
  22. **C. Y. Wang**, M. K. Hsieh, Y. J. Hu, A. Bit and P. L. Lai. **2022**. Monocarboxylate transporter 1-mediated lactate accumulation promotes nucleus pulposus degeneration under hypoxia in a 3D multilayered nucleus pulposus degeneration model. *European Cells and Materials*, 43:53-65. (SCI, IF: 3.2, Rank: Q1 in Orthopedics (18/136), Top 19.51%).
  23. Jheng-Yu Wu, **C. Y. Wang**, Kuei-Hsiang Chen, You-Ren Lai, Chen-Yaw Chiu, Hung-Che Lee and Yu-Kaung Chang. **2022**. Electrospinning of Quaternized Chitosan-Poly(vinyl alcohol) Composite Nanofiber Membrane: Processing Optimization and Antibacterial Efficacy. *Membranes*, 12: 332. (SCI, IF: 3.3, Rank: Q2 in Polymer science (36/95), Top 23.33%).
  24. Nihal Engin Vrana, Sharda Gupta, Kunal Mitra, Albert A Rizvanov, Valeriya V Solovyeva, Ezgi Antmen, Majid Salehi, Arian Ehterami, Lea Pourchet, Julien Barthes,

- Christophe A Marquette, Magnus von Unge, **C. Y. Wang**, Po-Liang Lai, Arindam Bit. **2022**. From 3D printing to 3D bioprinting: the material properties of polymeric material and its derived bioink for achieving tissue specific architectures. *Cell and tissue banking*. (SCI, IF: 1.4, Rank: Q4 in Biomedical Engineering (99/123), Top 87.64%) (Review paper)
25. Ming-Kai Hsieh, **C. Y. Wang**, Chia-Jung Wu, Ying-Cen Chen, Shinn-Chih Wu, Wei-Hsing Tuan, Po-Liang Lai. **2022**. Strontium sintered calcium sulfate bone graft for enhancing osteogenesis in a rat femoral defect model. *Materials Today Communications*, 30, 103050. (SCIE, IF: 3.7, Rank: Q2 in Materials science, multidisciplinary (176/439), Top 49.4%)
26. Ching-Chien Chiang, Ming-Kai Hsieh, **C. Y. Wang**, Wei-Hsing Tuan, Po-Liang Lai **2021**. Cytotoxicity and cell response of preosteoblast in calcium sulfate-augmented PMMA bone cement. *Biomedical Materials*, 16 (5), 055014. (SCI, IF: 3.9, Rank: Q2 in Biomedical Engineering (42/123), Top 43.82%)
27. Jheng-Yu Wu, Chien Wei Ooi, Cher Pin Song, **C. Y. Wang**, Bing-Lan Liu, Guan-Yu Lin, Chen-Yaw Chiu, Yu-Kaung Chang **2021**. Antibacterial efficacy of quaternized chitosan/poly (vinyl alcohol) nanofiber membrane crosslinked with blocked diisocyanate. *Carbohydrate Polymers*, 262, 117910, 2021.(SCI, IF: 10.7, Rank: Q1 in Polymer science (3/95), Top 3.3%)
28. Kuei-Chih Feng, Yu-Jie Wu, **C. Y. Wang**, Chi-Shun Tu, Yu-Ling Lin, Cheng-Sao Chen, Po-Liang Lai, Yu-Tzu Huang, Pin-Yi Chen **2021**. Enhanced mechanical and biological performances of CaO-MgO-SiO<sub>2</sub> glass-ceramics via the modulation of glass and ceramic phases. *Materials Science & Engineering C-Materials for Biological Applications*, 124:112060. (SCI, IF: 8.1, Rank: Q1 in Materials science, Biomedicals (8/53), Top 17.07%)
29. Fan-Xuan Xu, Chien Wei Ooi, Bing-Lan Liu, Cher Pin Song, Chen-Yaw Chiu, **C. Y. Wang**, Yu-Kaung Chang. **2021**. Antibacterial efficacy of poly(hexamethylene biguanide) immobilized on chitosan/dye-modified nanofiber membranes. *International Journal of Biological Macromolecules*, 181, 508-520, 2021. (SCI, IF: 7.7, Rank: Q1 in Polymer science (6/95), Top 6.67%)
30. Cai Z, Li C-F, Han F, Liu C, Zhang A, Hsu C-C, Peng D, Zhang X, Jin G, Rezaeian A-H, Wang G, Zhang W, Pan B-S, **C. Y. Wang**, Wang Y-H, Wu S-Y, Yang S-C, Hsu F-C, D'Agostino R B, Furdui C M, Kucera G L, Parks J S, Chilton F H, Huang C-Y, Tsai F-J, Pasche B, Watabe K and Lin H-K. **2020** Phosphorylation of PDHA by AMPK Drives TCA Cycle to Promote Cancer Metastasis. *Molecular Cell*, 80: 263. (SCI, IF: 14.5 Rank: Q1 in Biochemistry & Molecular biology (7/313), Top 1.93%)

31. **C. Y. Wang**, Kuo, Z. K., Hsieh, M. K., L. Y. Ke, C. C. Chen, C. M. Cheng, P. L. Lai. **2019** Cell migration of preosteoblast cells on a clinical gelatin sponge as a 3D bone engineering model. *Biomedical Materials*, 15 (1), 015005. (SCI, IF: 3.9, Rank: Q2 in Biomedical Engineering (42/123), Top 25.7%)
32. Ku, K. L., Wu Y.S., **C. Y. Wang**, D. W. Hong, Z. X. Chen, C. A. Huang, I. M. Chu, P.L. Lai **2019** Incorporation of surface-modified hydroxyapatite into poly(methyl methacrylate) to improve biological activity and bone ingrowth. *Royal Society Open Science*, 6: 182060. (SCI, IF: 2.9, Rank: Q1 in Multidisciplinary Sciences (32/134), Top 24.1%)
33. Han F., C. F. Li, Z. Cai, X. Zhang, G. Jin, W.N. Zhang, C. Xu, **C. Y. Wang**, Morrow J, S. Zhang, D. Xu, G. Wang, H.K. Lin. **2018** The critical role of AMPK in driving Akt activation under stress, tumorigenesis and drug resistance. *Nature Communications*, 9(1) 4728. (SCI, IF: 14.7, Rank: Q1 in Multidisciplinary Sciences (8/134), Top 7.5%)
34. Zhang, X., B.K. Li, A.H. Rezaeian, X.H. Xu, P.C. Chou, G. Jin, F. Han, B.S. Pan, **C. Y. Wang**, J. Long, A.M. Zhang, C.Y. Huang, F.J. Tsai, C.H Tsai, C. Logothetis, H.K. Lin. **2017**. H3 ubiquitination by NEDD4 regulates H3 acetylation and tumorigenesis. *Nature Communications*, 8: 14799. (SCI, IF: 14.7, Rank: Q1 in Multidisciplinary Sciences (8/134), Top 7.5%)
35. Jin, G.X., Lee, S.W., Zhang, X., Z. Cai, Y. Gao, P.C. Chou, A.H. Rezaeian, F. Han, **C. Y. Wang**, J.C. Yao, Z.H. Gong, C.H. Chan, C.Y. Huang, F. J. Tsai, C.H. Tsai, S.H. Tu, C.H. Wu, D.D. Sarbassov, Y.S. Ho, H.K. Lin. **2015** Skp2-Mediated RagA Ubiquitination Elicits a Negative Feedback to Prevent Amino-Acid-Dependent mTORC1 Hyperactivation by Recruiting GATOR1. *Molecular Cell*, 58: 989-1000. (SCI, IF: 14.5 Rank: Q1 in Biochemistry & Molecular biology (7/313), Top 1.9%)
36. **C. Y. Wang**, Yang T.T., Chen C.L., C. F. Lin. **2014** Reactive oxygen species-regulated glycogen synthase kinase-3 $\beta$  activation contributes to all-*trans* retinoic acid-induced apoptosis in granulocyte-differentiated HL60 cells. *Biochemical Pharmacology*, 88:86-94. (SCI, IF: 5.3, Rank: Q1 in Pharmacology and Pharmacy (35/354), Top 8.9%)
37. **C. Y. Wang**, C.F.Lin. **2014** Annexin A2: its molecular regulation and cellular expression in cancer development. *Disease Markers*, 308976. (Invited review) (SCI, IF: 3.464, Rank: Q2 in Pathology (33/77), Top 33.6%)
38. **C. Y. Wang**, T. H. Chiang, C. L. Chen, P. C. Tseng, S. Y. Chien, Y. J. Chuang, T. T. Yang, C. Y. Hsieh, P. C. Choi, C. F. Lin. **2014** Autophagy facilitates cytokine-induced ICAM-1 expression. *Innate Immunity*, 20:200-213. (SCI, IF: 2.8, Rank: Q2 in Immunology (57/148), Top 38.2%).

39. Yang T.T., C.L. Chen, W. C. Lin, Y.S. Lin, P.C. Tseng, C. Y. Hsieh, Y. H. Chen, W. C. Huang, C. C. Tsai, **C. Y. Wang**, C. C. Shieh, and C. F. Lin. **2013** Glycogen synthase kinase-3 $\beta$  inactivation is an intracellular marker and regulator for endotoxemic neutrophilia. *Journal of Molecular Medicine-Jmm*, 91:207-217. (SCI, IF: 4.8, Rank: Q1 in Medicine, Research and Experimental (45/189), Top 14.3%)
40. **C. Y. Wang**, C. L. Chen, Y. L. Tseng, Y. T. Fang, Y. S. Lin, W. C. Su, C. C. Chen, C. C. Chang, Y. C. Wang, and C. F. Lin. **2012**. Annexin A2 silencing induces G2 arrest of non-small cell lung cancer cells through p53-dependent and -independent mechanisms. *Journal of Biological Chemistry*, 287: 32512-32524. (SCI, IF: 4.0, Rank: Q1 in Biochemistry and Molecular Biology (100/313), Top 21.3%)
41. **C. Y. Wang**, T. H. Chiang, S. Y. Chien, P. C. Tseng, T. T. Yang, J. J. Chuang, C. L. Chen, C. F. Lin. **2012**. Under Bcl-2 surveillance, cytokines, autophagy-dependently, induce p53-independent CD54 expression. *Journal of Immunology*, 188: 161.4. (SCIE, IF: 3.6, Rank Q1 in Immunology (86/181), Top 13.67%)
42. Fang, Y. T., C. F. Lin, **C. Y. Wang**, A. Robert, and Y. S. Lin. **2012**. Interferon- $\gamma$  stimulates p11-dependent surface expression of annexin A2 in lung epithelial cells to enhance phagocytosis. *Journal of Cellular Physiology*. 227:2775-2787. (SCI, IF: 4.5, Rank: Q1 in Physiology (11/85), Top 16.7%)
43. Tseng, P. C., W. C. Huang, C. L. Chen, B. S. Sheu, Y. S. Shan, C. C. Tsai, **C. Y. Wang**, S. O. Chen, C. Y. Hsieh, and C. F. Lin. **2012**. Regulation of SHP2 by PTEN/AKT/GSK-3 $\beta$  signaling facilitates IFN- $\gamma$  resistance in hyperproliferating gastric cancer. *Immunobiology*, 217:926-934. (SCI, IF: 2.5, Rank: Q3 in Immunology (131/181), Top 50.8%)
44. Chiu, W. H., S. J. Luo, C. L. Chen, J. H. Cheng, C. Y. Hsieh, **C. Y. Wang**, W. C. Huang, W. C. Su, and C. F. Lin. **2012** Vinca alkaloids cause aberrant ROS-mediated JNK activation, Mcl-1 downregulation, DNA damage, mitochondrial dysfunction, and apoptosis in lung adenocarcinoma cells. *Biochemical Pharmacology*. 83:1159-1171. (SCI, IF: 5.3, Rank: Q1 in Pharmacology and Pharmacy (35/354), Top 11%)
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