# CV Form

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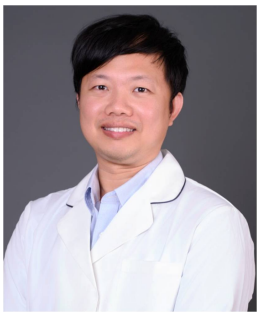
|---|---|---|
| **Name(中/英文)** | 賴德偉 De-Wei Lai |  |
| **Affiliation(s)(中/英文)** | 台中榮民總醫院醫學研究部/ Department of Medical Research, Taichung Veterans General Hospital, Taichung, Taiwan | |
| **Current Position Title** | Associate Researcher | |
| **E-mail/Phone Number** | deweilai123@gmail.com/<br>Tel: +886-4-23592525 ext4078 | |
| **Personal Website** | https://www.vghtc.gov.tw/CP/4173 | |

**個人簡歷 (No more than an A4 size paper)**

## Education/Training:

- **Doctor of Institute of Biomedical Sciences** Institution: National Chung Hsing University *Year of Graduation: January 2018*
- **Master of Institute of Biomedical Sciences** Institution: National Chung Hsing University *Year of Graduation: June 2013*
- **Department of Chemical Biology**
  Institution: National Pingtung University of Education
  *Year of Graduation: June 2011*

## Professional and Research Experience:

- **Associate researcher**

  Department of Medical Research, Taichung Veterans General Hospital.

  *Oct 2024 to present*

  Leading a Tumor and Immunology Laboratory, focusing on investigating the pathological molecular mechanisms of regulatory T cells and evaluating the potential applications of natural extracts, traditional Chinese medicine, and metal- organic nanoparticles in modulating the immune system.

- **Researcher**

  Chang Bing Show Chwan Memorial Hospital Experimental Animal Center, a laboratory animal center dedicated to assisting R&D research with one-stop services and GLP-compliant medical device biocompatibility testing.

  June *2019 to Oct 2024*

➢ Assist laboratories to obtain and maintain OECD GLP/TFDA GLP certification. Assist in constructing a platform for preclinical evaluation of multiple animal models.

➢ Assist multiple departments in conducting cross-disciplinary animal research topics.

➢ To evaluation the molecular mechanisms of immunotherapy and regenerative medicine area.

- **Postdoctoral researcher**

  Department of ophthalmology, Taichung Veterans General Hospital.

  *January 2018 to March 2018*

## Awards and Honors:

- *40th The Chinese Society of Cell and Molecular Biology- the Toxicology Society in Taiwan-poster dissertation*
- *2025- 6th World Forum on Breast & Cervical Cancer- poster dissertation*
- *2025- The European Academy of Allergy and Clinical Immunology Congress- Breaking boundaries in Allergy, Asthma, and Clinical Immunology: Integrating Planetary Health for a Sustainable Future- poster dissertation*
- *2025-Advancing Tradition and Innovation: Challenges, Opportunities, and Prospects in Chinese Medicine and Natural Products—Joint Academic Symposium of the 40th SNP, 25th SFRR- poster dissertation*
- *12th Edition of global conference on pharmaceutics and novel drug delivery system poster dissertation (Year 2024)*
- *37th The Chinese Society of Cell and Molecular Biology- the Toxicology Society in Taiwan poster dissertation (Year 2023)*
- *37th The Chinese Society of Cell and Molecular Biology- the Association of Anatomists of the Republic of China poster dissertation (Year 2023)*
- *13th The Endocrine Society of the Republic of China poster dissertation competition - Champion (Year 2018)*
- Award of 14 th Tien Te Lee Biomedical: Distinguished Thesis (Year 2018)

## Selected Publications:

**De-Wei Lai** marker listed corresponding author

1. Shu-Chun Liu, Hung-Chuan Pan, Pei-Yi Chu, Ming-Chu Tsai, Liang-Ju Chen, Yu-Chin Lin, Ching-Wen Chang, Yi-Ching Tsai, Chia-Yun Tsai, Meei-Ling Sheu, **De-Wei Lai** (2025, Dec). Paeoniflorin Promotes Therapeutic Senescence in Melanoma through Endoplasmic Reticulum Stress and the Calpain1/ERK5/p27 Axis. *Phytomedicine*, Available online 20 December 2025, 157730. https://doi.org/10.1016/j.phymed.2025.157730. **【Impact Factor: 8.3, INTEGRATIVE & COMPLEMENTARY MEDICINE :1/45 =2.22%, 2025JCR】** NSTC 113-2320-B-075A-005-.
2. **De-Wei Lai**, Pei-Yi Chu, Meei-Ling Sheu, Yi-Ching Tsai, Yuan-Hao Lee, Shu-Chun Liu and Ta-Chih Liu. (2025 Jan) The potential immunotherapy effect of Ginkgolide B thwarts oral squamous cell carcinoma progression by targeting the SREBP1/KLK8/CCL22 axis. *Phytomedicine,* 136:156249.9 **【Impact Factor: 8.3, INTEGRATIVE & COMPLEMENTARY MEDICINE :1/45 =2.22%, 2025JCR】** MOST 110-2314-B-758-001-.
3. Ya-Ting Ko, Ching-Hsuan Wu, Cheng-Shyong Chang, **De-Wei Lai** and Ta-Chih Liu. (2024 Nov) Successful Treatment of Abdominal Wall Advanced Endometriosis-Associated Clear Cell Carcinoma with AKT Pathway Inhibitor: Case Report. *Medicina,* 60(12), 1946. **【Impact Factor: 2.4, MEDICINE, GENERAL & INTERNAL. 78/332=23.49%, 2025JCR】**
4. Po-En Chiu, Zhonghua Fu, Yi-Ching Tsai, Chia-Yun Tsai, Wei Jen Hsu, Li-Wei Chou and **De-Wei Lai**. (2024 Nov). Fu's subcutaneous needling promotes axonal regeneration and remyelination by inhibiting inflammation and endoplasmic reticulum stress. *Translational research*, 273:46-57. **【Impact Factor: 5.9, MEDICAL LABORATORY TECHNOLOGY :2/33=6.06%, 2025JCR】**
5. Chih-Ching Li, Chih-Chien Lin, Chun-Yi Lee, Meei-Ling Sheu, Yi-Ching Tsai, Chia-Yun Tsai, Hao-Ting Wu, Hao-Ting Wu and **De-Wei Lai**. (2024 Jul) Therapeutic Effect of Lecigel, Cetiol®CC, Activonol-6,Activonol-M, 1,3-Propanediol, Soline, and Fucocert® (LCAA-PSF)Treatment on Imiquimod-Induced Psoriasis-like Skin in Mice. *International Journal of Molecular Sciences*, 25(14):7720. **【Impact Factor: 4.9, BIOCHEMISTRY & MOLECULAR BIOLOGY :72/320 =22.50%, 2025JCR】**
6. Li-Cheng Ku, Meei-Ling Sheu, He-Hsiung Cheng, Chun-Yi Lee, Yi-Ching Tsai, Chia-Yun Tsai, Keng-Hung Lin, Lih-Ching Lai, **De-Wei Lai** (2023, May). Melatonin protects retinal integrity through mediated immune homeostasis in the sodium iodate-induced mouse model of age-related macular degeneration. *Biomedicine & Pharmacotherapy*, 161:114476. **【Impact Factor: 7.5, PHARMACOLOGY & PHARMACY :19/352 =5.39%, 2025JCR】** NSTC 112-2314-B-758-002-.
7. He-Hsiung Cheng,Hung-Ke Lin,Meei-Ling Sheu,Chun-Yi Lee,Yi-Ching Tsai, **De-Wei Lai** (2022, Oct). AHR/TET2/NT5E axis downregulation is associated with the risk of systemic lupus erythematosus and its progression. *Immunology*, 168(4):654-670. **【Impact Factor: 5.0, IMMUNOLOGY :44/183 =24.04%, 2025JCR】** NSTC 109-2314-B-758-001-.
8. Kwan-Yu Chan, Wen-Ching Tsai, Chien-Yi Chiang, Meei-Ling Sheu, Chih-Yang Huang, Yi-Ching Tsai, Chia-Yun Tsai, Chia-Jung Lu, Zih-Ping Ho and **De-Wei Lai**. (2022, May). Ameliorative Potential of Hot Compress on Sciatic Nerve Pain in Chronic Constriction Injury-Induced Rat Model. *Frontiers in Synaptic Neuroscience*,14:859278. **【Impact Factor: 4.1, NEUROSCIENCES :175/314 =55.73%, 2025JCR】**
9. Shu-Chun Liu, Meei-Ling Sheu, Yi-Ching Tsai, Yu-Chin Lin, Ching-Wen Chang, **De-Wei Lai** (2022, Jan). Attenuation of *In Vitro* and *In Vivo* Melanin Synthesis using a Chinese Herbal Medicine through the Inhibition of Tyrosinase Activity. *Phytomedicine*, 95:153876. **【Impact Factor: 8.3, INTEGRATIVE & COMPLEMENTARY MEDICINE :1/45 =2.22%, 2025JCR】**