



Dr. Pei-Wen Hsieh

Position : Professor	Laboratory : Medicinal Chemistry Laboratory
Degree : Ph.D.	Graduated from : Kaohsiung Medical University
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Research Interests:

1. Drug Discovery, e.g. Serine Proteases Inhibitors, Anti-viral, and Anti-cancer drugs.
2. Synthesis and Bioactive Evaluation of Bioactive Natural Products Derivatives.
3. Chemical & Bioactive Constituents of TCMs.

Publication Lists: (2013-present)

*, corresponding author

55. I-Ta Lee, Chih-Chung Lin, Chi-Yin Lee, **Pei-Wen Hsieh**, Chuen-Mao Yang. Protective effects of (-)-epigallocatechin-3-gallate against TNF- α -induced lung inflammation via ROS-dependent ICAM-1 inhibition. *J. Nutr. Biochem.* **2013**, 24:124-136. (SCI) (***I.F.:* 4.518; *R/C=11/81 in NUTRITION & DIETETICS***)
56. Jia-You Fang, Yi-Ting Liu, Yaw-Bin Huang, Tai-Long Pan, Han-Hsiang Wang, **Pei-Wen Hsieh***. Pharmacokinetics, biodistribution, and toxicology following Intravenous and oral administration of DSM-RX78 and EFB-1, two new 2-(2-fluorobenzamido)benzoate-based PDE4 inhibitors, to rats. *J. Pharm. Pharmacol.* **2013**, 65: 345-354. (SCI) (***I.F.:* 2.405; *R/C=130/256 in PHARMACOLOGY &***

PHARMACY)

57. Jing-Ru Liou, Mohamed El-Shazly, Ying-Chi Du, Chao-Neng Tseng, Tsong-Long Hwang, Yueh-Lin Chuang, Yu-Ming Hsu, **Pei-Wen Hsieh**, Chin-Chung Wu, Shu-Li Chen, Ming-Feng Hou, Fang-Rong Chang, Yang-Chang Wu. 1,5-Diphenylpent-3-en-1-ynes and methyl naphthalene carboxylates from *Lawsonia inermis* and their anti-inflammatory activity. *Phytochemistry* **2013**, 88: 67-73. (SCI) **(I.F.: 3.205; 34/211 in PLANT SCIENCES)**
58. Tsong-Long Hwang, Chih-Hao Hung, Ching-Yun Hsu, Yin-Ting Huang, Yu-Chi Tsai, **Pei-Wen Hsieh***. Design and synthesis of tryptophan containing dipeptide derivatives as formyl peptide receptors 1 antagonist. *Org. Biomol. Chem.* **2013**, 11: 3742-3755. (SCI) **(I.F.: 3.564; R/C=14/59 in CHEMISTRY, ORGANIC)**
59. **Pei-Wen Hsieh**, Jin-Bin Wu, Yang-Chang Wu. Chemistry and biology of *Phellinus linteus*. *BioMedicine* **2013**, 3:106-113.
60. **Pei-Wen Hsieh**, Wei-Yu Chen, Ibrahim A. Aljuffali, Chun-Che Chen and Jia-You Fang. Co-drug strategy for promoting skin targeting and minimizing transdermal diffusion of hydroquinone and tranexamic acid. *Curr. Med. Chem.* **2013**, 20:4080-4092. (SCI) **(I.F.: 3.254; R/C=16/60 in CHEMISTRY, MEDICINAL)**
61. Li-Mei Wei, Yang Chang Wu, Chin-Chau Chen, **Pei-Wen Hsieh**, Wen-Bin Pan. Tupichinin B-D, three new spirostanol saponins from *Tupisra chinensis* rhizomes. *Nat. Prod. Res.* **2014**, 28:74-80. (SCI) **(I.F.: 1.828; 29/71 in CHEMISTRY, APPLIED)**
62. Kuo-Sheng Liu, **Pei-Wen Hsieh**, Saleh A. Al-Suwayeh, Shu-Hao Chang, Jhi-Joung Wang, Jia-You Fang. Impact of ester promoieties on transdermal delivery of ketorolac. *J. Pharm. Sci.* **2014**, 103:974-986. (SCI) **(I.F.: R/C=2.713; 113/256 in PHARMACOLOGY & PHARMACY)**
63. **Pei-Wen Hsieh**, Chih-Jen Wen, Huang-Pin Yu, Ibrahim A. Aljuffali, Ya-Huei Huang, Jia-You Fang. Nanostructured lipid carriers containing a high percentage of a pluronic copolymer increase the biodistribution of novel PDE4 inhibitors for the treatment of traumatic hemorrhage. *J. Biomed. Nanotechnol.* **2014**, 10:1520-1535. (SCI) **(I.F.: 4.521; R/C=7/33 in MATERIALS SCIENCE, BIOMATERIALS)**
64. **Pei-Wen Hsieh**, Ibrahim A. Aljuffali, Chia-Lang Fang, Shu-Hao Chang, Jia-You Fang. Hydroquinone-salicylic acid conjugates as novel anti-melasma actives show superior skin targeting compared to the parent drugs. *J. Dermatol. Sci.* **2014**, 76:120-131. (SCI) **(I.F.: 3.733; R/C=7/63 in DERMATOLOGY)**
65. Tsong-Long Hwang, Wen-Hui Wang, Ting-Yi Wang, Huang-Ping Yu, **Pei-Wen Hsieh***.

- Synthesis and pharmacological characterization of 2-aminobenzaldehyde oxime analogs as dual inhibitors of neutrophil elastase and proteinase 3. *Bioorg. Med. Chem.* **2015**, 23:1123-1134. (SCI) (*I.F.*: **2.930**; **16/59 in CHEMISTRY, ORGANIC**)
66. I-Hua Chen, Hsin-Chu Shih, Pei-Wen Hsieh, Fang-Rong Chang, Yang-Chang Wu, Chin-Chung Wu. HPW-RX40 restores anoikis sensitivity of human breast cancer cells by inhibiting integrin/FAK signaling. *Toxicol. Appl. Pharm.* **2015**, 289:330-340. (SCI) (*I.F.*: **3.858**; **R/C=15/92 in TOXICOLOGY**)
67. Chien-Kei Wei, Fang-Rong Chang, Pei-Wen Hsieh, Chin-Chung Wu. Inhibition of the interactions between metastatic human breast cancer cells and platelets by β -nitrostyrene derivatives. *Life Sci.* **2015**, 143:147-155. (SCI) (*I.F.*: **2.936**; **R/C=94/256 in PHARMACOLOGY & PHARMACY**)
68. Yao-Wen Chang, Pei-Wen Hsieh, Yu-Tsui Chang, Meng-Hung Lu, Tur-Fu Huang, Kowit-Yu Chong, Hsiang-Ruei Liao, Ju-Chien Cheng, and Ching-Ping Tseng. Identification of a novel platelet antagonist that binds to CLEC-2 and suppresses podoplanin-induced platelet aggregation and cancer metastasis. *Oncotarget* **2015**, 6:42733-42748. (Equal contribution as first author) (SCI) (*I.F.*: **5.168**; **R/C=44/217 in ONCOLOGY**)
69. Amos C. Hung, Chun-Hao Tsai, Ming-Feng Hou, Wen-Lin Chang, Chie-Hong Wang, Yi-Chen Lee, Alice Ko, Stephen Chu-Sung Hu, Fang-Rong Chang, Pei-Wen Hsieh*, Shyng-Shiou F. Yuan*. The synthetic β -nitrostyrene derivative CYT-rx20 induces breast cancer cell death and autophagy via ROS-mediated MEK/ERK pathway. *Cancer Lett.* **2016**, 371:251-261. (SCI) (*I.F.*: **6.375**; **R/C=25/217 in ONCOLOGY**)
70. Jin-Yuan Ho, Jyh-Haur Chern, Chung-Fan Hsieh, Szu-Ting Liu, Chien-Jou Liu, Ya-Sian Wang, Ta-Wei Kuo, Sheng-Ju Hsu, Ten-Kuang Yeh, Shin-Ru Shih, Pei-Wen Hsieh, Chen-Hsun Chiu, Jim-Tong Horng. In vitro and in vivo studies of a potent capsid-binding inhibitor of enterovirus 71. *J. Antimicrob. Chemother.* **2016**, 71:1922-1932. (SCI) (*I.F.*: **4.302**; **R/C=36/256 in PHARMACOLOGY & PHARMACY**)
71. Chien-Chong Hong, Chih-Chung Lin, Chian-Lang Hong, Zi-Xiang Lin, Meng-Hua Chung, Pei-Wen Hsieh. Analyzer with On-Chip molecularly-imprinted biosensors for electrical detection of propofol in plasma samples. *Biosens. Bioelectron.* **2016**, 86:623-629. (SCI) (*I.F.*: **7.780**; **R/C=2/76 in CHEMISTRY, ANALYTICAL**)
72. Yu-Li Chen, Tsong-Long Hwang, Huang-Ping Yu, Jia-You Fang, Kowit Yu Chong, Yao-Wen Chang, Chun-Yu Chen, Hsuan-Wu Yang, Wen-Yi Chang, Pei-Wen Hsieh*. *Ilex kaushue* and its bioactive component 3,5-dicaffeoylquinic acid protected mice

from lipopolysaccharide-induced acute lung injury. *Sci. Rep.* **2016**, 6:34243. (SCI) **(I.F.: 4.259; R/C=10/64 in MULTIDISCIPLINARY SCIENCES)**

73. Chung-Fan Hsieh, Yu-Li Chen, Chwan-Fwu Lin, Jin-Yuan Ho, Chun-Hsun Huang, Cheng-Hsun Chiu, **Pei-Wen Hsieh**, Jim-Tong Horng. An extract from *Taxodium distichum* targets hemagglutinin- and neuraminidase-related activities of influenza virus in vitro. *Sci. Rep.* **2016**, 6:36015. (SCI) **(I.F.: 4.259; R/C=10/64 in MULTIDISCIPLINARY SCIENCES)**
74. Wen-Chin Chiu, Yi-Chen Lee, Yu-Han Su, Yen-Yun Wang, Chun-Hao Tsai, Yi-An Hou, Chie-Hong Wang, Ying-Fong Huang, Chih-Jen Huang, Shah-Hwa Chou, **Pei-Wen Hsieh**, Shyng-Shiou F. Yuan. The synthetic β -nitrostyrene derivative CYT-Rx20 inhibits esophageal tumor growth and metastasis via PI3K/AKT and STAT3 pathways. *PLoS One* **2016**, 11:e0166453. (SCI) **(I.F.: 2.806; R/C=15/64 in MULTIDISCIPLINARY SCIENCES)**
75. Chun-Hao Tsai, **Pei-Wen Hsieh**, Yi-Chen Lee, Chie-Hong Wang, Wen-Chin Chiu, Chun-Wun Lu, Yen-Yun Wang, Stephen Chu-Sung Hu, Tain-Lu Cheng, Shyng-Shiou F. Yuan*. 3'-Hydroxy-4'-methoxy- β -methyl- β -nitrostyrene inhibits tumor growth through ROS generation and GSH depletion in lung cancer cells. *Life Sci.* **2017**, 172:19-26. (SCI) **(I.F.: 2.936; R/C= 94/256 in PHARMACOLOGY & PHARMACY)**
76. Shun-Chin Yang, Shih-Hsin Chang, **Pei-Wen Hsieh**, Yin-Ting Huang, Chiu-Ming Ho, Yung-Fong Tsai, Tsong-Long Hwang. Dipeptide HCH6-1 inhibits neutrophil activation and protects against acute lung injury by blocking FPR1. *Free Rad. Bio. Med.* **2017**, 106:254-269. (SCI). **(I.F.: 5.606; R/C=42/286 in BIOCHEMISTRY & MOLECULAR BIOLOGY)**
77. Chun-Hao Tsai, Amos C. Hung, Yuan-Yin Chen, Ya-Wen Chiu, **Pei-Wen Hsieh**, Yi-Chen Lee, Yu-Han Su, Po-Chih Chang, Stephen Chu-Sung Hu, Shyng-Shiou F. Yuan*. 3'-Hydroxy-4'-methoxy- β -methyl- β -nitrostyrene inhibits tumor-igenesis in colorectal cancer cells through ROS-mediated DNA damage and mitochondrial dysfunction. *Oncotarget* **2017**, 8:18106-18117. (SCI) **(I.F.: 5.168; R/C=44/217 in ONCOLOGY)**
78. **Pei-Wen Hsieh**, Chi-Feng Hung, Chih-Hung Lin, Chang-Wei Huang, Jia-You Fang. Anti-melasma codrug of retinoic acid assists cutaneous absorption with attenuated skin irritation. *Eur. J. Pharm. Biopharm.* **2017**, 114:154-163. (SCI) **(I.F.: 4.159; R/C=43/256 in PHARMACOLOGY & PHARMACY)**
79. Yen-Yun Wang, Yuk-Kwan Chen, Ya-Ling Hsu, Wen-Chin Chiu, Chun-Hao Tsai,

Stephen Chu-Sung Hu, Pei-Wen Hsieh, Shyng-Shiou F. Yuan*. Synthetic β -nitrostyrene derivative CYT-Rx20 as inhibitor of oral cancer cell proliferation and tumor growth through glutathione suppression and reactive oxygen species induction. *Head & Neck* **2017**, 39:1055-1064. (SCI) (*I.F.*: **3.376**; *R/C*=1/42 in **OTORHINOLARYNGOLOGY**)

80. Yen-Yun Wang, Yuk-Kwan Chen, Stephen Chu-Sung Hu, Ya-Ling Hsu, Chun-Hao Tsai, Tsung-Chen Chi, Wan-Ling Huang, Pei-Wen Hsieh, Shyng-Shiou F. Yuan. CYT-Rx20 inhibits ovarian cancer cells in vitro and in vivo through oxidative stress-induced DNA damage and cell apoptosis. *Cancer Chemother. Pharmacol.* **2017**, 79:1129-1140. (SCI) (*I.F.*: **2.737**; *R/C*=112/256 in **PHARMACOLOGY & PHARMACY**)

81. Po-Hsiung Kung, Pei-Wen Hsieh, Ying-Ting Lin, Jia-Hua Lee, I-Hua Chen, Chin-Chung Wu. HPW-RX40 Prevents Human Platelet Activation by Attenuating Cell Surface Protein Disulfide Isomerases. *Redox Biol.* **2017**, 13:266-277. (SCI) (*I.F.*: **6.337**; *R/C*=34/286 in **BIOCHEMISTRY & MOLECULAR BIOLOGY**)

82. Yen-Yun Wang, Pei-Wen Hsieh, Yuk-Kwan Chen, Stephen Chu-Sung Hu, Ya-Ling Hsu, Chun-Hao Tsai, Shyng-Shiou F Yuan. CYT-Rx20 inhibits cervical cancer cell growth and migration through oxidative stress-induced DNA damage, cell apoptosis, and epithelial-to-mesenchymal transition inhibition. *Int. J. Gynecol. Cancer* **2017**, in press. (SCI) (*I.F.*: **2.369**; *R/C*=30/79 in **OBSTETRICS & GYNECOLOGY**)

83. Yu-Li Chen, Tsong-Long Hwang, Jia-You Fang, Yu-Hsuan Lan, Kowit Yu Chong, Pei-Wen Hsieh*. Polysaccharides from *Kochia scoparia* fruits protect mice from lipopolysaccharide-mediated acute lung injury by inhibiting neutrophil elastase. *J. Funct. Food.* **2017**, accepted. (SCI) (*I.F.*: **3.144**; *R/C*=18/128 in **FOOD SCIENCE & TECHNOLOGY**)

84. Yao-Wen Chang, Ching-Ping Tseng, Chih-Hsun Lee, Tsong-Long Hwang, Mei-Tzu Su, Fen-Hua Lu, Kowit-Yu Chong, Ying-Wei Lan, Yu-Li Chen, Hsiang-Ruei Liao, Chin-Chung Wu, Chuen Hsueh, Pei-Wen Hsieh*. β -Nitrostyrene derivatives attenuate LPS-mediated acute lung injury via the inhibition of neutrophil-platelet interactions and NET release. *Am. J. Physiol.-Lung C.* **2017**, revised. (SCI) (*I.F.*: **4.281**; *R/C*=12/84 in **PHYSIOLOGY**)

85. Bidyadhar Sethy, Chung-Fan Hsieh, Yeh Chieh, Jim-Tong Horng, Pei-Wen Hsieh*. Design, synthesis and structure-activity relationships of a new class of anti-human enterovirus D68 and A71 agents. *Eur. J. Med. Chem.* **2017**, submitted (SCI) (*I.F.*:

Patents:

1. Tsong-Long Hwang, **Pei-Wen Hsieh**, Huang-Ping Yu。苯并雜氧嗪酮衍生物，其製備方法以及包含有此等衍生物的藥學組成物。中華民國專利 I419884 號。
2. Ching-Ping Tseng, **Pei-Wen Hsieh**, Yao-Wen Chang, 一種含有 5-nitrobenzoate 之衍生物，透過抑制腫瘤細胞誘發血小板凝集反應作為癌症轉移治療方式。中華民國專利 I444358 號。
3. **Pei-Wen Hsieh**, Tsong-Long Hwang, Wen-Hui Wang, Ting-Yi Wang, Oxime-based compound, pharmaceutical composition containing the same and method for preparing the same. US 9,073,833.
4. **Pei-Wen Hsieh**, Tsong-Long Hwang, Wen-Hui Wang, Ting-Yi Wang, 2-胺基苯甲醛衍生物及其製備方法與用途。中華民國專利 I508938 號。
5. **Pei-Wen Hsieh**, Tsong-Long Hwang, Wen-Hui Wang, Ting-Yi Wang, Oxime-based compound, pharmaceutical composition containing the same and method for preparing the same. JP 5890512。
6. **Pei-Wen Hsieh**, Tsong-Long Hwang, Wen-Hui Wang, Ting-Yi Wang, 2-胺基苯甲醛衍生物及其製備方法與用途。中華人民共和國專利 CN104803894 號。
7. Tsong-Long Hwang, **Pei-Wen Hsieh**, Yin-Ting Huang, Chih-Hao Hung, FPR1 拮抗劑的衍生物及其用途。中華民國專利 I537251 號。
8. Tsong-Long Hwang, **Pei-Wen Hsieh**, Yin-Ting Huang, Chih-Hao Hung. FPR1 antagonist derivatives and use thereof. US 9,593,114.
9. 葉宏一、鍾鏡湖、王士維、謝珮文，橙黃醯胺雙肽衍生物用於治療或預防血管新生相關疾病。中華民國專利申請號 104143726 號（領證中）。
10. Ching-Ping Tseng, **Pei-Wen Hsieh**, Yao-Wen Chang. Composition of 5-nitrobenzoate derivatives as anti-metastatic agent that inhibits tumor cell-induced platelet aggregation. US 9,604,910.
11. Ching-Ping Tseng, **Pei-Wen Hsieh**, Yao-Wen Chang. A composition of 5-nitrobenzoate derivatives as anti-metastatic agent that inhibits tumor cell-induced platelet aggregation. US 20170172949.
12. **Pei-Wen Hsieh**, Ching-Ping Tseng, Yun-Zhan Tsai, Yu-Ling Hung, Yao-Wen Chang. Compounds, compositions and methods for treating tumors. US 20170183294.

13. 葉宏一、鍾鏡湖、王士維、**Pei-Wen Hsieh**. Aurantiamide dipeptide derivatives for treatment or prevention of angiogenesis-related diseases. USA application no. 14/981178.

Group Members:

Postdoctoral researchers: 1

Research assistants: 1

Ph.D students: 2

Master students: 3

International Exchange Students:

Name	Nationality	Exchange Period
Magdalena Al-Ameri	Poland	2017.08.01-2017.08.27

