

莊榮輝學術研究論文： 2010~2019

(A) Referred Paper: (All SCI papers; *, equal contribution; Corresponding authors underlined)

1. Huang CY*, Wen L*, **Juang RH***, DC Sheu, Lin CT (2010)
Monodehydroascorbate reductase cDNA from sweet potato: expression and kinetic studies.
Botanical Studies **51**(1): 37-44 [IF = 0.878, *Plant Science* ranking 90/156, 58%]
2. Lin YC, Huang YC, Wang YS, **Juang RH**, Liao KW, Chu RM (2010)
Canine CD8 T cells showing NK cytotoxic activity express mRNAs for NK cell-associated surface molecules.
Vet. Immunol. Immunopathol. **133**(2-4): 144-53 [IF = 1.885, *Veterinary* ranking 12/135, 9%]
3. Chen YT, **Juang RH**, He JL, Chu WY, Wang CH (2010)
Detection of H6 influenza antibody by blocking enzyme-linked immunosorbent assay.
Vet. Microbiol. **142**(3-4): 205-10 [IF = 2.370, *Veterinary* ranking 5/135, 4%]
4. Lee RJ, Wu JS, **Juang RH**, Wu YJ, Lin CY, Wu SY, Huang PR, Chu CH, Chin LT, Chen HM (2010)
Increasing hybridoma viability and antibody repertoire after the cell fusion by the use of human plasma as an alternative supplement.
J. Immunol. Methods **361**(1-2): 89-97 [IF = 2.347, *Biochemical Research Methods* ranking 34/67, 51%]
5. Liu LR, Lin SP, Chen CC, Chen YJ, Tai CC, Chang SC, **Juang RH**, Tseng YW, Liu BH, Mersmann HJ, Shen TL, Ding ST (2011)
Serum amyloid A induces lipolysis by down-regulating perilipin through ERK1/2 and PKA signaling pathways.
Obesity **19**(12):2301-9 [IF = 3.366, *Nutrition & Dietetics* ranking 13/66, 20%]
6. Chen YT, Tsao Zak, Chang ST, **Juang RH**, Wang LC, Chang CM, Wang CH (2012)
Development of an antigen-capture enzyme-linked immunosorbent assay using monoclonal antibodies for detecting H6 avian influenza viruses.
J. Microbio. Immuno. Infect. **45**: 243-247 [IF = 1.116, *Microbiology* ranking 85/107, 80%]
7. Lin YC, Chen HM, Chou IM, Chen AN, Chen CP, Young GH, Lin CT, Cheng CH, Chang SC*, **Juang RH*** (2012)
Plastidial starch phosphorylase in sweet potato roots is proteolytically modified by protein-protein interaction with the 20S proteasome.
PLoS ONE **7**(4): e35336. doi:10.1371/journal.pone.0035336 [IF = 3.730, *Multidisciplinary sciences* ranking 7/56, 12.5%]
8. He JL, Hsieh MS, Chiu YC, **Juang RH***, Wang CH* (2012)
Preparation of monoclonal antibodies against poor immunogenic avian influenza virus proteins.
J. Immunol. Methods **387**: 43-50 [IF = 2.225, *Biochemical Research Methods* ranking 41/75, 55%]
9. Chia JC, Yang CC, Sui YT, Lin SY, **Juang RH** (2013)
Tentative identification of the second substrate binding site in Arabidopsis phytochelatin synthase.
PLoS ONE **8**(12): e82675. doi:10.1371/journal.pone.0082675 [IF = 3.730, *Multidisciplinary sciences* ranking 7/56, 12.5%]
10. He JL, Hsieh MS, **Juang RH***, Wang CH* (2014)
A monoclonal antibody recognizes a highly conserved neutralizing epitope on hemagglutinin of H6N1 avian influenza virus.
Veterinary Microbiology **174**: 333-341 [IF = 2.726, *Veterinary Science* ranking 3/132, 2.3%]
11. He JL, Chiu YC, Chang SC, Wang CH*, **Juang RH*** (2015)
Glycosylation at hemagglutinin Asn-167 protects the H6N1 avian influenza virus from tryptic cleavage at Arg-201 and maintains the viral infectivity.
Virus Research **197**: 101-107 [IF = 2.827, *Virology* ranking 18/33, 55%]

12. Hu CMJ, Chien CY, Liu MT, Fang ZS, Chang SY, **Juang RH**, Chang SC, Chen HW (2017) Multi-antigen avian influenza a (H7N9) virus-like particles: particulate characterizations and immunogenicity evaluation in murine and avian models. *BMC Biotechnology* **17**(2) doi: 10.1186/s12896-016-0321-6
13. Lin YC, Chang SC*, **Juang RH*** (2017) Plastidial α -glucan phosphorylase 1 complexes with disproportionating enzyme 1 in *Ipomoea batatas* storage roots for elevating malto-oligosaccharide metabolism. *PLoS ONE* **12**(5): e0177115. <https://doi.org/10.1371/journal.pone.0177115>
14. Hsieh MS, He JL, Wu TY, **Juang RH** (2018) A secretory bi-cistronic baculovirus expression system with improved production of the HA1 protein of H6 influenza virus in insect cells and *Spodoptera litura* larvae. *J. Immunol. Methods* **459**: 81–89. <https://doi.org/10.1016/j.jim.2018.06.001>
15. Lin CW, Huang CY, Yao BY, Lin JC, Agrawal A, Algaissi A, Peng BH, Liu YH, Huang PH, **Juang RH**, Chang YC, Tseng CT, Chen HW*, Hu CM* (2019) Viromimetic STING agonist-loaded hollow polymeric nanoparticles for safe and effective vaccination against Middle East Respiratory Syndrome Coronavirus. *Advanced Functional Materials* **29**, 1807616. <https://doi.org/10.1002/adfm.201807616>
16. Hsieh MS, Chang YC, He JL, **Juang RH** (2019) Positive charge of Arg-201 on hemagglutinin is required for the binding of H6N1 avian influenza virus to its target through a two-step process. *Virus Research* **265**: 132–137. <https://doi.org/10.1016/j.virusres.2019.03.018>

(C) Patent & Technology Transfer:

1. **Juang RH**, CY Lin, JS Wu (2005) 技轉合約擴大使用展延中 (2012~)
The hybridoma cell line G4 produces monoclonal antibody against citrinin (technology transfer to Waters Technologies Corporation, USA)
對抗紅麴毒素之單株抗體及其融合瘤細胞株 G4 (技術轉移美國 Waters 科技公司)
2. 何杰龍、王金和、**莊榮輝** (2013) 中華民國專利 (申請案號 099107884)
抗禽流感 H6N1 亞型病毒血球凝集蛋白質之單株抗體及其製備與應用
(Patent of ROC, 099107884: The production and application of the monoclonal antibody against the hemagglutinin of AIV subtype H6N1)