

## Tse-Min Lee

### Journal Papers:

1. Li LC, Hsu YT, Chang HL, Wu TM, Sung MS, Cho CL, Lee TM (2013, Nov). Effect of polyamines on the expression polyamines of protein disulfide isomerase and its implication against hypersalinity stress in marine alga *Ulva fasciata* Delile. *Journal of Phycology*, on-line publication. (SCIE, Marine & Freshwater Biology). NSC 99-2311-B-110-001-MY3. 本人為通訊作者.
2. Chang HL, Tseng YL, Ho KL, Shie SC, Wu PS, Hsu YT, Lee TM (2013, Oct). Reactive oxygen species modulate the differential expression of methionine sulfoxide reductase genes in *Chlamydomonas reinhardtii* by high light illumination. *Physiologia Plantarum*, on-line publication. (SCIE, Plant Sciences). NSC 99-2311-B-110-001-MY3. 本人為通訊作者.
3. Chang HL, Hsu YT, Kang CY, Lee TM (2013, Aug). Nitric oxide down-regulation of carotenoid synthesis and PSII activity in relation to very high light-induced singlet oxygen production and oxidative stress in *Chlamydomonas reinhardtii*. *Plant and Cell Physiology*, 53: 445-456. (SCIE, Plant Sciences). NSC 99-2311-B-110-001-MY3. 本人為通訊作者.
4. Chang SL, Kang CY, Lee TM (2013, Jul). Hydrogen peroxide production protects *Chlamydomonas reinhardtii* against light-induced cell death by preventing singlet oxygen accumulation through enhanced carotenoid synthesis. *Journal of Plant Physiology*, 170: 976-986. (SCIE, Plant Sciences). NSC 99-2311-B-110-001-MY3. 本人為通訊作者.
5. Hsu YT, Lee TM (2012, Jun). Nitric oxide up-regulates the expression of methionine sulfoxide reductase genes in the intertidal macroalga *Ulva fasciata* for high light acclimation. *Plant and Cell Physiology*, 53: 445-456. (SCIE, Plant Sciences). NSC 99-2321-B-110-001-MY3. 本人為通訊作者.
6. Hsu YT, Lee TM (2012, Apr). Modulation of gene expression of carotene biosynthesis-related protein by photosynthetic electron transport for the acclimation of intertidal macroalga *Ulva fasciata* to hypersalinity and excess light. *Physiologia Plantarum*, 144: 225-237. (SCIE, Plant Sciences). NSC 99-2311-B-110-001-MY3. 本人為通訊作者.
7. Chang ML, Liao LJ, Lin JH, Liu ZH, Hsu YT, Lee TM (2012, Feb). Modulation of antioxidant defense system and NADPH oxidase in *Pluchea indica* leaves by water deficit stress. *Botanical Studies*, 53: 45-54. (SCIE, Plant Sciences). 本人為通訊作者.
8. Chen PY, Shen CT, Liao BC, Lee TM, Wu TM, Shieh CJ, Chang CMJ (2011, Oct). Demonstration of continuous supercritical carbon dioxide anti-solvent purification and classification of nano/micro sized precipitates of algal zeaxanthin from *Nannochloropsis oculata*. *Journal of the Taiwan Institute of Chemical Engineers*, 42: 598-603. (SCIE, Engineering, Chemical).
9. Su HY, Lee TM, Huang YL, Chou SH, Wang JB, Lin LF, Chow TJ (2011, Oct). Increased cellulose production by heterologous expression of cellulose synthase genes in a filamentous heterocystous cyanobacterium with a modification in photosynthesis performance and growth ability. *Botanical Studies*, 52: 265-275. (SCIE, Plant Sciences). 核能所: 52: 265-275..
10. Sung MS, Chow TC, Lee TM (2011, Oct). Polyamine acclimation alleviates hypersalinity-induced oxidative stress in a marine macroalga *Ulva fasciata* by modulation of antioxidant enzyme gene expression. *Journal of Phycology*, 47: 538-547. (SCIE, Marine & Freshwater Biology). NSC 96-2311-B-110-002-MY3. 本人為通訊作者.
11. Cho YC, Cheng JH, Hsu SL, Hong SE, Lee TM, Chang CMJ (2011, Sep). Supercritical carbon

dioxide anti-solvent precipitation of anti-oxidative zeaxanthin highly recovered by elution chromatography from *Nannochloropsis oculata*. *Separation and Purification Technology*, 78: 274-280. (SCIE, Engineering Chemical). NSC 98-2221-E-005-053-MY3.

12. Shen CT, Chen PY, Wu JJ, Lee TM, Hsu SL, Chang CMJ, Young CC, Shieh CJ (2011, Sep). Purification of algal anti-tyrosinase zeaxanthin from *Nannochloropsis oculata* using supercritical anti-solvent precipitation. *Journal of Supercritical Fluids*, 55: 955-962. (SCIE, Engineering, Chemical). NSC 98- 2622-E-005-004-CC1.
13. Sung MS, Hsu YT, Ho KL, Lee TM (2011, Jun). Implications of the up- regulation of genes encoding protein degradation enzymes and heat shock protein 90 for intertidal green macroalga *Ulva fasciata* against hypersalinity- induced protein oxidation. *Marine Biotechnology*, 67: 8-16. (SCIE, Marine & Freshwater Biology). NSC 99-2311-B-110-001-MY3. 本人為通訊作者.
14. Hsu YT, Lee TM (2010, Mar). Photosynthetic electron transport mediates the light-controlled up-regulation of expression of methionine sulfoxide reductase A and B from marine macroalga *Ulva fasciata*. *Journal of Phycology*, 46:112-122. (SCIE, Marine & Freshwater Biology). NSC 96-2311-B-110-002-MY3. 本人為 通訊作者.
15. Wu TM, Hsu YT, Sung MS, Hsu YT, Lee TM (2009, Aug). Expression of genes involved in redox homeostasis and antioxidant defense in a marine macroalga *Ulva fasciata* by excess copper. *Aquatic Toxicity*, 94: 175-185. (SCIE, Marine & Freshwater Biology). NSC 95-2311-B-110-001. 本人為通訊作者.
16. Sung MS, Hsu YT, Hsu YT, Wu TM, Lee TM (2009, Apr). Hypersalinity and hydrogen peroxide upregulation of gene expression of antioxidant enzymes in *Ulva fasciata* against oxidative stress.. *Marine Biotechnology*, 11: 199-209. (SCIE, Marine & Freshwater Biology). NSC 96-2311-B-110-001. 本人為通訊作者.
17. Lee TM, Shiu CT (2009, Jan). Implications of mycosporine-like amino acid and antioxidant defenses in UVB radiation tolerance for the algae species *Pterocladia capillacea* and *Gelidium amansii*. *Marine Environmental Research*, 67: 8-16. (SCIE, Marine & Freshwater Biology). NSC 94-2311-B-110-004. 本人 為第一作者、通訊作者.
18. Wu TM, Hsu YT, Lee TM (2009, Jan). Effects of cadmium on the regulation of antioxidant enzyme activity and gene expression and antioxidant in a marine macroalga *Ulva fasciata*. *Botanical Studies*, 50: 25-34. (SCIE, Plant Sciences). NSC 95-2311-B-110-001. 本人為通訊作者.