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德國皮膚科學會榮譽會員 (2011)

國際皮膚科醫學會聯盟 (ILDS) 終身成就獎 (2014)

主要學術貢獻為：

(1) 開闢皮膚腫瘤致病及惡性化進展之分子作用機轉；

(2) 解明光線療法於黑色素細胞再生之調控機轉。

腫瘤研究開啓化學致癌防治之新方向；光線再生療法研發成果，建立嶄新之學理基礎及轉譯研究平台。

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(A) 期刊論文(Refereed Paper)

1. Lan CC, Tu HP, Lee CH, Wu CS, Ko YC, **Yu HS**, Lu YW, Li WC, Chen GS. (2011) Hand dermatitis among university hospital nursing staff with or without atopic eczema: assessment of risk factors. Contact Dermatitis 64: 73-79.
2. CCE. Lan, CS Wu, GS Chen, **HS Yu*** (2011) FK506 (tacrolimus) and endothelin combined treatment induces mobility of melanoblasts: new insights into follicular vitiligo repigmentation induced by topical tacrolimus on sun-exposed skin. Brit J Dermatol 164:490-496.
3. CH Lee, HY Chuang, CH Hong, SK Huang, YC Chang, YC Ko, **HS Yu.*** (2011) Lifetime exposure to cigarette smoking and the development of adult-onset atopic dermatitis. Brit J Dermatol 164:483-489.
4. Pin-Chen Yang, Cheng-Fang Yen, Tze-Chun Tang, Cheng-Sheng Chen, Rei-Cheng Yang, Ming-Shyan Huang, Yuh-Jyh Jomg, **Hsin-Su Yu** (2011) Posttraumatic stress disorder in adolescents after Typhoon Morakot-associated mudslides. J Anxiety Disord 25:362-368.
5. Chih-Hung Lee, Shi-Bei Wu, Chien-Hui Hong, Wei-Ting Liao, Ching-Ying Wu, Gwo-Shing Chen, Yau-Hui Wei*, **Hsin-Su Yu*** (2011) Aberrant cell proliferation by enhanced mitochondrial biogenesis through mtTFA in arsenical skin cancers . Am J Pathol 178:2066-2076.

6. W-T Yu, H-S Yu, C-S Wu, C-H Lee, Y-C Cheng, W-T Lin, G-S Chen, C-C.E Lan (2011) Noninvasive cutaneous blood flow as a response predictor for visible light therapy on segmental vitiligo: a prospective pilot study. *Brit J Dermatol* 164:759-764.
7. Cheng-Che Eric Lan, Chih-Hung Lee, Hsin-Su Yu* (2011) Concentration- dependent cellular responses of arsenic in keratinocytes. *Kaohsiung J Med Sci* 27: 390-395.
8. Chih-Hung Lee, Wei-Ting Liao, Hsin-Su Yu* (2011) Aberrant immune responses in arsenical skin cancers. *Kaohsiung J Med Sci* 27: 396-401.
9. Cheng-Che E. Lan, Hsin-Su Yu, Ying-Chin Ko (2011) Chronic arsenic exposure and its adverse health effects in Taiwan: a paradigm for management of a global environmental problem. *Kaohsiung J Med Sci* 27: 411-416.
10. Cheng-Che E. Lan, Hung-Pin Tu, Ching-Shuang Wu, Ying-Chin Ko, Hsin-Su Yu, Yi-Wei Lu, Wan-Chan Li, Yin-Chun Chen, Gwo-Shing Chen (2011) Distinct SPINK5 and IL-31 polymorphisms are associated with atopic eczema and non-atopic hand dermatitis in Taiwanese nursing population. *Exp Dermatol* 20:975-979.
11. Hsu YL, Yu HS, Lin HC, Wu KY, Yang RC, Kuo PL (2011) Heat shock induces apoptosis through reactive oxygen species involving mitochondrial and death receptor pathways in corneal cells. *Exp Eye Res* 93:405-412.
12. Cheng-Sheng Chen, Chung-Ping Cheng, Cheng-Fang Yen, Tze-Chun Tang, Pinchen Yang, Rei-Cheng Yang, Ming-Shyan Huang, Yuh-Jyh Jong, Hsin-Su Yu (2011) Validation of the impact of event scale-revised for adolescents experiencing the floods and mudslides. *Kaohsiung J Med Sci* 27: 560-565.
13. Chen YC, Tu HP, Wu CS, Ko YC, Yu HS, Lu YW, Li WC, Chen GS, Lan CC (2012) Association between non-atopic hand eczema and interleukin-13 gene polymorphism in Taiwanese nursing population. *Exp Dermatol* 21:972-974.
14. Lan CC, Ko YC, Yu HS, Wu CS, Li WC, Lu YW, Chen YC, Chin YY, Yang YH, Chen GS (2012) Methotrexate reduces the occurrence of cerebrovascular events among Taiwanese psoriatic patients: a nationwide population-based study. *Acta Derm Venereol* 92:349-352.
15. Lee CH, Hong CH, Yu CL, Wang LF, Clausen BE, Liao WT, Huang SK, Chen GS, Yu HS* (2012) Arsenic mobilizes Langerhans cell migration and induces Th1 response in epicutaneous protein sensitization via CCL21: a plausible cause of decreased Langerhans cells in arsenic-induced intraepithelial carcinoma. *Biochem Pharmacol* 83:1290-1299.
16. Wu CS, Lan CC, Yu HS * (2012) Narrow-band UVB irradiation stimulates the migration and functional development of vitiligo-IgG antibodies-treated pigment cells. *J Eur Acad Dermatol Venereol* 26: 456-464.
17. Cheng-Che E. Lan, Shi-Bei Wu, Ching-Shuang Wu, Yi-Chun Shen, Tzu-Ying Chiang, Yau-Huei Wei, Hsin-Su Yu* (2012) Induction of primitive pigment cell differentiation by visible light (Helium-Neon laser): a photoacceptor specific response not replicable by UVB irradiation. *J Mol Med* 90:321-330.
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23. Suen JL, Hung CH, Yu HS, Huang SK. (2012) Alkylphenols--potential modulators of the allergic response. *Kaohsiung J Med Sci* 28:S43-48.
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25. Lin CC, Chou CH, Lin TC, Yang MC, Cho CL, Chang CH, Yu HS, Lai CH, Chen LK, Hong YR. (2012) Molecular characterization of three major outer membrane proteins, TSA56, TSA47 and TSA22, in Orientia tsutsugamushi. *Int J Mol Med* 30: 75-84.
26. Su YS, Yu HS, Li WC, Ko YC, Chen GS, Wu CS, Lu YW, Yang YH, Lan CC (2013) Psoriasis as initiator or amplifier of the systemic inflammatory march: impact on development of severe vascular events and implications for treatment strategy. *J Eur Acad Dermatol Venereol*, 27:876-883.
27. Tsai MJ, Hsu YL, Wu KY, Yang RC, Chen YJ, Yu HS, Kuo PL (2013) Heat effect induces production of inflammatory cytokines through heat shock protein 90 pathway in cornea cells. *Curr Eye Res* 38:464-471.
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32. C-C E. Lan, C-S Wu, H-S Yu* (2013) Solar-stimulated radiation and heat treatment induced metalloproteinase-1 expression in cultured dermal fibroblasts via distinct pathways: Implications on reduction of sun-associated aging. *J Dermatol Sci* 72:290-295.
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37. Chin YY, Yu HS, Li WC, Ko YC, Chen GS, Wu CS, Lu YW, Yang YH, Lan CC (2013) Arthritis as an important determinant for psoriatic patients to develop severe vascular events in Taiwan: A nation-wide study. *J Eur Acad Dermatol Venereol*

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38. Yu, WT, Chiu, YC, Lee, CH, Yoshioka, T, Yu, HS (2013) Hydrogen-enriched water restoration of impaired calcium propagation by arsenic in primary keratinocytes. *J Asian Earth Sci* 77:342-348.
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 40. Tsai, TF, Yao, CA, Yu, HS, Lan, CC, Chao, SC, Yang, KC, Chen, CY, White, RR, Psaradellis, E, Rampakakis, E, Kawai, K, Acosta, CJ, Sampalis, JS. (2014) Herpes zoster-associated severity and duration of pain, health-related quality of life, and healthcare utilization in Taiwan: a prospective observational study. *Int J Dermatol* (DOI: 10.1111/ijd.12484).
 41. Hu, S.C., Lin, C.L., Hong, C.H., Yu, H.S., Chen, G.S., Lee, C.H. (2014) CCR7 expression correlates with subcutaneous involvement in mycosis fungoides skin lesions and promotes migration of mycosis fungoides cells (MyLa) through mTOR activation. *J Dermatol Sci* 74: 31-38.
 42. Hu CS, Yu HS, Yen FL, Chen GS, Lan CC (2014) CXCR7 expression correlates with tumor depth in cutaneous squamous cell carcinoma skin lesions and promotes tumor cell survival through ERK activation. *Exp Dermatol* 12:902-908.
 43. Hong, C.H., Lee, C.H., Chen, G.S., Yu, H.S.* (2015) STAT3-dependent VEGF production from keratinocytes abrogates dendritic cell activation and migration by arsenic: a plausible regional mechanism of immunosuppression in arsenical cancers. *Chemico-Biological Interactions* 227: 96-103.
 44. Cheng-Che E. Lan , Pei-Yun Ho, Ching-Shuang Wu, Rei-Cheng Yang, Hsin-Su Yu *. (2015) LED 590 nm photomodulation reduces UVA-induced metalloproteinase-1 expression via upregulation of antioxidant enzyme catalase. *J Dermatol Sci* 78:125-132.
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 46. Ya-Chun Huang, Hsin-Su Yu and Chee-Yin Chai. (2015) Proteins in the ERK pathway are affected by arsenic-treated cells. *Toxicol. Res.* 4:1545–1554.
 47. Ya-Chun Huang, Hsin-Su Yu and Chee-Yin Chai. (2015) Roles of oxidative stress and the ERK1/2, PTEN and p70S6K signaling pathways in arsenite-induced autophagy. *Toxicology Letters* 239:172–181
 48. Wu CY, Asano Y, Taniguchi T, Sato S, Yu HS. (2015) Serum heparanase levels: A protective marker against digital ulcers in patients with systemic sclerosis. *J Dermatol.* (accepted)
 49. CH Lee, LPS Lai, YP Lu, HY Chen, CY Chai, RK Tsai, KT Fang, MH Tsai, CC Hung, DC Wu, HS Yu, CH Chang, DP Tsai. (2015) Real-time vascular imaging and photodynamic therapy efficacy with micelle-nanocarrier facilitate the delivery of chlorine to the microenvironment of melanoma. *J Dermatol Sci.* (accepted)
 50. Wu CY, Asano Y, Taniguchi T, Sato S, Yu HS. (2015) Serum level of circulating syndecan-1: a possible association with proliferative vasculopathy in systemic sclerosis. *J Dermatol.* (accepted)
 51. Wu CS, Tsao DA, Yu HS, Chang HR. (2015) Beta2-adrenergic receptor agonist inhibits keratinocyte proliferation by mechanisms involving nitric oxide. (submitted)
 52. Liao WT, You HL, E Lan CC, Lee CH, Yu CL, Chang SJ, Yu HS*. (2015) Cyclin D1 promoter-56 and -54 bpCpG un-methylation predicts invasive progression in arsenic-induced Bowen's disease. (submitted)
 53. WT Liao, JH Lu, CC Lan, CH Lee, JG Chang, CL Yu, HS Yu*. (2015) A synergism between arsenic-induced epigenetic modification and inflammatory promotion in a human skin equivalent during carcinogenesis. (submitted)
 54. Liao WT , Hung CH, Liang SS, Chiou SH, Yang RC, Yu HS*. (2015) Near-infrared radiation induces

immunosuppressive M2 macrophage polarization via epigenetic regulation of the mitochondrial citrate synthase gene. (submitted)

*
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B) 研討會論文(Conference Paper - As of 2011 - 僅列受邀國際研討會)

1. UVB phototherapy in regenerative medicine: vitiligo as a research model, the International Medical Meeting (IMM), Riga, Latvia, September 7-9, 2012.
2. Phototherapy in vitiligo: Molecular mechanisms revisited, the 111th Annual Meeting of the Japanese Dermatological Association, Kyoto, Japan, June 1-3, 2012.
3. Phototherapy in vitiligo. Molecular mechanisms revisited, the 9th Asia Joint and 11th Cross-Strait Symposium on Biomedical Research, Kaohsiung, June 28-29, 2012.
4. Visible light therapy in regenerative medicine, the 31st Annual Meeting of the Japanese Clinical Dermatologic Surgery, Kaohsiung, February 1-2, 2013.
5. Translational research of photo-regenerative therapy in Taiwan: Vitiligo as a research model, translational research informatics center, Kobe, Japan, February 14, 2014.
6. Translational research in UVB phototherapy: pigment cell development as a model, National Institute of Environmental Health Sciences, Raleigh-Durham, USA, April 29, 2014.
7. New experimental model for arsenical carcinogenesis, the 23rd World Congress of Dermatology, Vancouver, Canada, June 8-13, 2015.
8. Translational research of photo-regenerative therapy in the skin: Vitiligo as a research model, the 7th Asia and Oceania Conference on Photobiology, Taipei, November 15-18, 2015.

(C) 專書及專書章節(Proceedings, Monograph or Book Chapter)

1. Hsin-Su Yu, Masafumi Iizima, Masako Mizoguchi, Yoshiaki Hori, Yasumasa Ishibashi, Atsushi Kukita. Chemical vitiligo caused by para-tertiary butyl phenol, in Phenotypic Expression in Pigment Cells, ed. by Makoto Seiji, University of Tokyo Press, pp.467-474, Tokyo, 1981.
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3. Hsin-Su Yu, Chung-Hsing Chang, Gwo-Shing Chen, Sen-Ann Yang. Dynamic capillaroscopy-A sensitive non-invasive method for the diagnosis of conditions with pathological microcirculation. Handbook of non-invasive methods and the skin, ed. by Serup J, Jemec GBE, pp.367-370, CRC, Boca Raton, 1995.
4. 余幸司. ハリン-ネオンレ-ザ-による尋常性白斑の治療. レ-ザ-治療最前線, 手塚正編集, 全日本病院出版會, 東京, 13-18 頁, 2000.

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6. **Hsin-Su Yu**, Cheng-Che E. Lan, Ching-Shuang Wu. Segmental vitiligo : a model for understanding the recapitulation of repigmentation. Vitiligo, ed. by Picardo M, Taïeb A, pp.306-310, Springer, New York, 2010.
7. **Hsin-Su Yu**, Wei-Ting Liao. Gallium: Environmental pollution and health effects. Encyclopedia of Environmental Health, ed. by J Nriagu, vol.2, pp. 829-833, Elsevier, London, 2011.
8. **Hsin-Su Yu**, Cheng-Che E. Lan. Phototherapy in regenerative medicine: Vitiligo as a model for investigation. Asian skin and skin diseases, ed. by Hee Chul Eun, Soo-Chan Kim, and Won-Soo Lee , pp.477-480, Medrang Inc, Seoul, 2011.
9. **Hsin-Su Yu**, Chih-Hung Lee. Biomarkers for itch and disease severity in atopic dermatitis. Curr Probl Dermatol, ed. by Shiobara T, vol 41, pp.136-148, Karger, Basel, 2011.