

2026

**De Novo Regeneration of Rete Ridges during Cetacean skin wound healing**

Liu, T.-Y., [Wang, H.-V.](#), Yang, W.-C., [Yang, C.-C.](#), Su, C.-Y., Chiou, Y.-T., [Chiou, T.-H.](#), [Shieh, S.-J.](#), [Tang, M.-J.](#), Chuong, C.-M. & [Hughes, M. W.](#), 2026 3 月 19, (Submitted).

2025

**Histological characterization of  $\gamma\delta$  T cells in cutaneous wound healing in Fraser's dolphins (*Lagenodelphis hosei*)**

Su, C. Y., Liu, T. Y., [Wang, H. V.](#), [Hughes, M. W.](#), Chuong, C. M. & Yang, W. C., 2025 2 月, 於: Developmental and Comparative Immunology. 163, 105326.

2024

**Mechanical stiffness across skin layers in human: a pilot study**

Chi, W. Y., Huang, H. W., Lee, G., Cruz, C. J. G., [Hughes, M. W.](#), [Tang, M.](#), [Shieh, S. J.](#) & [Yang, C. C.](#), 2024, (Accepted/In press) 於: Tissue Barriers. 2437220.

**Stromal Rigidity Stress Accelerates Pancreatic Intraepithelial Neoplasia Progression and Chromosomal Instability via Nuclear Protein Tyrosine Kinase 2 Localization**

Ding, L. Y., Chang, C. J., Chen, S. Y., Chen, K. L., Li, Y. S., Wu, Y. C., Hsu, T. Y., Ying, H. Y., Wu, H. Y., [Hughes, M. W.](#), [Wang, C. Y.](#), [Chang, C. H.](#), [Tang, M. J.](#), [Chuang, W. J.](#), [Shan, Y. S.](#) & [Huang, P. H.](#), 2024 7 月, 於: American Journal of Pathology. 194, 7, p. 1346-1373 28 p.

2023

**Molecular and Cellular Characterization of Avian Reticulate Scales Implies the Evo–Devo Novelty of Skin Appendages in Foot Sole**

Liu, T. Y., [Hughes, M. W.](#), [Wang, H. V.](#), Yang, W. C., Chuong, C. M. & Wu, P., 2023 9 月, 於: Journal of Developmental Biology. 11, 3, 30.

**Novel SLC5A6 mutations lead to B lymphocyte maturation defects with metabolic abnormality rescuable by biotin replenishment**

Hsieh, C. H., Lee, J., Sung, H. H., Huang, Y. F., Ding, Y. S., Li, C. Y., Yen, C. L., [Hsu, C. K.](#), Yu, C. K., Hsieh, H. Y., [Hughes, M. W.](#), [Chen, P. C.](#) & [Shieh, C. C.](#), 2023 12 月, 於: Clinical Immunology. 257, 109855.

**The Influence of Self-Tracking and Quantified Self Frequency to Senior Functional Fitness and Perceived Physical Literacy of Community-Based Older Adults: A 3-year Longitudinal Study**

Liu, C. Y., [Lin, L.-C.](#), Chen, Y. W., Liu, B.-C. & [Hughes, M. W.](#), 2023 9 月, *29th International Conference on Health Promoting Hospitals and Health Services*. Vienna, Austria)

**The role of microbiota in esophageal squamous cell carcinoma: A review of the literature**

[Chiang, H. C.](#), [Hughes, M.](#) & [Chang, W. L.](#), 2023 10 月, 於: Thoracic Cancer. 14, 28, p. 2821-2829 9 p.

2022

**Defining Wound Healing Progression in Cetacean Skin: Characteristics of Full-Thickness Wound Healing in Fraser's Dolphins (*Lagenodelphis hosei*)**

Su, C. Y., [Hughes, M. W.](#), Liu, T. Y., Chuong, C. M., [Wang, H. V.](#) & Yang, W. C., 2022 3 月 1, 於: Animals. 12, 5, 537.

**Successful Repigmentation of Full-Thickness Wound Healing in Fraser's Dolphins (*Lagenodelphis hosei*)**

Su, C. Y., [Wang, H. V.](#), [Hughes, M. W.](#), Liu, T. Y., Chuong, C. M. & Yang, W. C., 2022 6 月 1, 於: Animals. 12, 12, 1482.

**Topological Distribution of Wound Stiffness Modulates Wound-Induced Hair Follicle Neogenesis**

Hans, I.-C., Chiu, P. Y., Lin, C. H., Chen, H. Y., Lai, Y. C., Yang, F. S., [Wu, C. C.](#), [Tang, M. J.](#), Chuong, C. M. & [Hughes, M. W.](#), 2022 9 月, 於: *Pharmaceutics*. 14, 9, 1926.

2021

**Symmetry breaking of tissue mechanics in wound induced hair follicle regeneration of laboratory and spiny mice**

Harn, H. I. C., Wang, S. P., Lai, Y. C., Van Handel, B., Liang, Y. C., Tsai, S., Schiessl, I. M., Sarkar, A., Xi, H., [Hughes, M.](#), Kaemmer, S., [Tang, M. J.](#), Peti-Peterdi, J., Pyle, A. D., Woolley, T. E., Evseenko, D., Jiang, T. X. & Chuong, C. M., 2021 12 月 1, 於: *Nature communications*. 12, 1, 2595.

**The impact of COVID-19 on the research and educational environment in Taiwan -forewarned is forearmed**

Chang, W. T., [Hughes, M. W.](#) & [Liu, P. Y.](#), 2021 1 月, 於: *Journal of the Formosan Medical Association*. 120, 1, p. 776-778 3 p.

2020

**An American's perspective living through COVID-19 in Taiwan**

[Hughes, M. W.](#) & [Liu, P. Y.](#), 2020 12 月, 於: *Journal of the Formosan Medical Association*. 119, 12, p. 1884-1885 2 p.

**Epigenetic silencing of AATK in acinar to ductal metaplasia in murine model of pancreatic cancer**

Ding, L. Y., Hou, Y. C., Kuo, I. Y., Hsu, T. Y., Tsai, T. C., Chang, H. W., Hsu, W. Y., Tsao, C. C., Tian, C. C., Wang, P. S., Wang, H. C., [Lee, C. T.](#), [Wang, Y. C.](#), [Lin, S. H.](#), [Hughes, M. W.](#), [Chuang, W. J.](#), [Lu, P. J.](#), [Shan, Y. S.](#) & [Huang, P. H.](#), 2020 6 月 17, 於: *Clinical Epigenetics*. 12, 1, 87.

2019

**Regeneration of rete ridges in Lanyu pig (*Sus scrofa*): Insights for human skin wound healing**

Lin, C. H., Chiu, P. Y., [Hsueh, Y. Y.](#), [Shieh, S. J.](#), [Wu, C. C.](#), [Wong, T. W.](#), Chuong, C. M. & [Hughes, M. W.](#), 2019 4 月, 於: Experimental Dermatology. 28, 4, p. 472-479 8 p.

**The tension biology of wound healing**

Harn, H. I. C., Ogawa, R., [Hsu, C. K.](#), [Hughes, M. W.](#), [Tang, M. J.](#) & Chuong, C. M., 2019 4 月, 於: Experimental Dermatology. 28, 4, p. 464-471 8 p.

2018

**Mechanical forces in skin disorders**

[Hsu, C. K.](#), Lin, H. H., Harn, H. I. C., [Hughes, M. W.](#), [Tang, M. J.](#) & [Yang, C. C.](#), 2018 6 月, 於: Journal of Dermatological Science. 90, 3, p. 232-240 9 p.

**Msx2 Supports Epidermal Competency during Wound-Induced Hair Follicle Neogenesis**

[Hughes, M. W.](#), Jiang, T. X., Plikus, M. V., Guerrero-Juarez, C. F., Lin, C. H., Schafer, C., Maxson, R., Widelitz, R. B. & Chuong, C. M., 2018 9 月, 於: Journal of Investigative Dermatology. 138, 9, p. 2041-2050 10 p.

**Never too old to regenerate? Wound induced hair follicle neogenesis after secondary intention healing in a geriatric patient**

[Wong, T. W.](#), [Hughes, M.](#) & Wang, S. H., 2018 5 月, 於: Journal of Tissue Viability. 27, 2, p. 114-116 3 p.

2017

**Higher plasma leptin is associated with higher risk of androgenetic alopecia in men**

[Yang, C. C.](#), Chung, P. L., Lin, L. Y., [Hughes, M. W.](#) & [Tsai, Y. S.](#), 2017 6 月, 於: Experimental Dermatology. 26, 6, p. 524-526 3 p.

2016

**Assembling Composite Dermal Papilla Spheres with Adipose-derived Stem Cells to Enhance Hair Follicle Induction**

Huang, C. F., Chang, Y. J., [Hsueh, Y. Y.](#), Huang, C. W., Wang, D. H., Huang, T. C., Wu, Y. T., [Su, F. C.](#), [Hughes, M.](#), Chuong, C. M. & [Wu, C. C.](#), 2016 5 月 23, 於: Scientific reports. 6, 26436.

**Corrigendum: Assembling Composite Dermal Papilla Spheres with Adipose-derived Stem Cells to Enhance Hair Follicle Induction (Scientific Reports (2016) 6 (26436) DOI: 10.1038/srep26436)**

Huang, C. F., Chang, Y. J., [Hsueh, Y. Y.](#), Huang, C. W., Wang, D. H., Huang, T. C., Wu, Y. T., [Su, F. C.](#), [Hughes, M.](#), Chuong, C. M. & [Wu, C. C.](#), 2016 11 月 14, 於: Scientific reports. 6, 31257.

Hypertension impairs hippocampus-related adult neurogenesis, CA1 neuron dendritic arborization and long-term memory

Shih, Y. H., Tsai, S. F., Huang, S. H., Chiang, Y. T., Hughes, M. W., Wu, S. Y., Lee, C. W., Yang, T. T. & Kuo, Y. M., 2016 5 月 13, 於: Neuroscience. 322, p. 346-357 12 p.

**Novel skin chamber for rat ischemic flap studies in regenerative wound repair**

[Hsueh, Y. Y.](#), Wang, D. H., Huang, T. C., Chang, Y. J., Shao, W. C., Tuan, T. L.,

[Hughes, M. W. & Wu, C. C.](#), 2016 5 月 17, 於: Stem Cell Research and Therapy. 7, 1, 72.

2015

**Emergence of differentially regulated pathways associated with the development of regional specificity in chicken skin**

Chang, K. W., Huang, N. A., Liu, I. H., Wang, Y. H., Wu, P., Tseng, Y. T., [Hughes, M. W.](#), Jiang, X. X., Tsai, M. H., Chen, C. Y., Oyang, Y. J., Lin, E. C., Chuong, C. M. & Lin, S. P., 2015 1 月 23, 於: BMC genomics. 16, 1, 22.

**Leptin of dermal adipose tissue is differentially expressed during the hair cycle and contributes to adipocyte-mediated growth inhibition of anagen-phase vibrissa hair**

[Yang, C. C.](#), Sheu, H. M., Chung, P. L., Chang, C. H., [Tsai, Y. S.](#), [Hughes, M. W.](#), Tuan, T. L. & Huang, L. L. H., 2015 1 月 1, 於: Experimental Dermatology. 24, 1, p. 57-60 4 p.

**Molecular insight and pharmacological approaches targeting mitochondrial dynamics in skeletal muscle during obesity**

Jheng, H. F., Huang, S. H., Kuo, H. M., [Hughes, M. W.](#) & [Tsai, Y. S.](#), 2015, 於: Annals of the New York Academy of Sciences. 1350, 1, p. 82-94 13 p.

**Non-invasive evaluation of therapeutic response in keloid scar using diffuse reflectance spectroscopy**

[Hsu, C. K.](#), Tzeng, S. Y., [Yang, C. C.](#), Lee, J. Y. Y., Huang, L. L. H., Chen, W. R., [Hughes, M.](#), Chen, Y. W., Liao, Y. K. & [Tseng, S. H.](#), 2015, 於: Biomedical Optics Express. 6, 2, p. 390-404 15 p.

**Organ-level quorum sensing directs regeneration in hair stem cell**

## populations

Chen, C. C., Wang, L., Plikus, M. V., Jiang, T. X., Murray, P. J., Ramos, R., Guerrero-Juarez, C. F., [Hughes, M. W.](#), Lee, O. K., Shi, S., Widelitz, R. B., Lander, A. D. & Chuong, C. M., 2015 4 月 9, 於: Cell. 161, 2, p. 277-290 14 p.

2014

## Disrupted ectodermal organ morphogenesis in mice with a conditional histone deacetylase 1, 2 deletion in the epidermis

[Hughes, M. W.](#), Jiang, T. X., Lin, S. J., Leung, Y., Kobiela, K., Widelitz, R. B. & Chuong, C. M., 2014 1 月, 於: Journal of Investigative Dermatology. 134, 1, p. 24-32 9 p.

## Epigenetic and environmental regulation of skin appendage regeneration

Jiang, T. X., Chen, C. C., [Hughes, M. W.](#), Chuong, C. M. & Widelitz, R., 2014 1 月 1, *Stem Cells, Tissue Engineering and Regenerative Medicine*. [World Scientific Publishing Co.](#), p. 163-184 22 p.

2013

## Erratum: Progressive alopecia reveals decreasing stem cell activation probability during aging of mice with epidermal deletion of DNA methyltransferase 1 (Journal of Investigative Dermatology (2012) 132 (2681-2699) DOI: 10.1038/jid.2012.206)

Li, J., Jiang, T. X., [Hughes, M. W.](#), Wu, P., Yu, J., Widelitz, R. B., Fan, G. & Chuong, C. M., 2013 3 月, 於: Journal of Investigative Dermatology. 133, 3, p. 859 1 p.

### Nuclear topology, epigenetics, and keratinocyte differentiation

[Hughes, M. W.](#), Lu, W. & Chuong, C. M., 2013 9 月, 於: Journal of Investigative Dermatology. 133, 9, p. 2130-2133 4 p.

### Therapeutic strategy for hair regeneration: Hair cycle activation, niche environment modulation, wound-induced follicle neogenesis, and stem cell engineering

Chueh, S. C., Lin, S. J., Chen, C. C., Lei, M., Wang, L. M., Widelitz, R., [Hughes, M. W.](#), Jiang, T. X. & Chuong, C. M., 2013 3 月, 於: Expert Opinion on Biological Therapy. 13, 3, p. 377-391 15 p.

2012

### Lentiviral transduction of face and limb flaps: Implications for immunomodulation of vascularized composite allografts

Barone, A. A. L., Zhou, Z. Y., [Hughes, M. W.](#), Park, R., Schulman, R. M., Lee, S., Vidar, E. N., Shiba, T. L., Weber, E. L. & Cetrulo, C. L., 2012 2 月, 於: Plastic and Reconstructive Surgery. 129, 2, p. 391-400 10 p.

### Progressive alopecia reveals decreasing stem cell activation probability during aging of mice with epidermal deletion of DNA methyltransferase 1

Li, J., Jiang, T. X., [Hughes, M. W.](#), Wu, P., Widelitz, R. B., Fan, G. & Chuong, C. M., 2012 12 月, 於: Journal of Investigative Dermatology. 132, 12, p. 2681-2690 10 p.

2011

### In search of the Golden Fleece: Unraveling principles of morphogenesis by studying the integrative biology of skin appendages

[Hughes, M. W.](#), Wu, P., Jiang, T. X., Lin, S. J., Dong, C. Y., Li, A., Hsieh, F. J., Widelitz, R. B. & Chuong, C. M., 2011 4 月, 於: Integrative Biology. 3, 4, p. 388-407 20 p.

2009

**Accelerated closure of skin wounds in mice deficient in the homeobox gene Msx2**

Yeh, J., Green, L. M., Jiang, T. X., Plikus, M., Huang, E., Chang, R. N., [Hughes, M. W.](#), Chuong, C. M. & Tuan, T. L., 2009 9 月, 於: Wound Repair and Regeneration. 17, 5, p. 639-648 10 p.

2005

**The mutagenic potential of duodeno-esophageal reflux**

Theisen, J., Peters, J. H., Fein, M., [Hughes, M.](#), Hagen, J. A., Demeester, S. R., Demeester, T. R. & Laird, P. W., 2005 1 月, 於: Annals of Surgery. 241, 1, p. 63-68 6 p.

2004

**Evo-Devo of amniote integuments and appendages**

Wu, P., Hou, L., Plikus, M., [Hughes, M.](#), Scehnet, J., Suksaweang, S., Widelitz, R. B., Jiang, T. X. & Chuong, C. M., 2004, 於: International Journal of Developmental Biology. 48, 2-3, p. 249-270 22 p.

2003

**A Mouthful of Epithelial-Mesenchymal Interactions**

[Hughes, M. W.](#) & Chuong, C. M., 2003 12 月, 於: Journal of Investigative Dermatology. 121, 6, p. vii-viii

2002

**Endoscopic augmentation of the cardia with a biocompatible injectable polymer (Enteryx) in a porcine model**

Mason, R. J., [Hughes, M.](#), Lehman, G. A., Chiao, G., Deviere, J., Silverman, D. E., DeMeester, T. R. & Peters, J. H., 2002, 於: Surgical Endoscopy and Other Interventional Techniques. 16, 3, p. 386-391 6 p.

**IL-8-stimulated expression of urokinase-type plasminogen activator in human skin and human epidermal cells**

Han, Y. P., [Hughes, M. W.](#), Nien, Y. D. & Garner, W. L., 2002 1 月 1, 於: Journal of Surgical Research. 106, 2, p. 328-334 7 p.

2001

**TNF- $\alpha$  stimulates activation of pro-MMP2 in human skin through NF- $\kappa$ B mediated induction of MT1-MMP**

Han, Y. P., Tuan, T. L., Wu, H., [Hughes, M.](#) & Garner, W. L., 2001, 於: Journal of Cell Science. 114, 1, p. 131-139 9 p.

**Transforming Growth Factor- $\beta$ - and Tumor Necrosis Factor- $\alpha$  -mediated Induction and Proteolytic Activation of MMP-9 in Human Skin**

Han, Y. P., Tuan, T. L., [Hughes, M.](#), Wu, H. & Garner, W. L., 2001 6 月 22, 於: Journal of Biological Chemistry. 276, 25, p. 22341-22350 10 p.