**Shaping Taiwan’s Future through Regenerative Medicine**

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| **日期：** | 2025年10月16日 星期四 |
| **地點：** | Room 401, NTUH International Convention Center（No. 2, Xuzhou Road, Zhongzheng District Taipei, Taiwan） |
| **主辦單位：** | Room 301, NTUH International Convention Center、Industrial Development Administration, Ministry of Economic Affairs、Development Center for Biotechnology |
| **指導單位：** | Industrial Development Administration, Ministry of Economic Affairs |

**Contents**

# Conference Information

**Date：**

2025年10月16日 星期四

**Venue ：**

Room 401, NTUH International Convention Center（No. 2, Xuzhou Road, Zhongzheng District Taipei, Taiwan）

**Organizers ：**

Room 301, NTUH International Convention Center  
Industrial Development Administration, Ministry of Economic Affairs  
Development Center for Biotechnology

**Guided by：**

Industrial Development Administration, Ministry of Economic Affairs

# Agenda

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| --- | --- | --- |
| **Time** | **Topic** | **Speaker** |
|  | 09:05-09:15 大合照 Group Photo 林世嘉 |  |
| 09:00-09:05 | 開幕致詞 | 陳佩利 副署長 / Pei-Li CHEN, Deputy Director General, Industrial Development Administration, Ministry of Economic Affairs |
| 09:15-09:55 | 台日攜手邁向國際：再生醫療產業鏈結與合作新模式 | Seiji HORI |
| 09:55-10:35 | 跨境連結與策略合作：推動再生醫療走向國際的關鍵動能 | Hiroto Bando |
| 10:35-10:45 |  |  |
| 10:45-11:25 | 2025再生醫療尖端趨勢與臺灣再生醫療雙法的下一步 | 林世嘉 |
| 12:00-12:00 | 再生醫療產業鏈的國際接軌：台灣與國際合作的挑戰與機會 | Yu-Fan Chen |
| 11:25-12:00 | 再生醫療產業鏈的國際接軌：台灣與國際合作的挑戰與機會 | 何弘能 總顧問 / Hong-Neng HO, General Consultant, Taipei Medical University |
| 12:00 | 閉幕 Closing |  |

# Moderator

**林世嘉** 執行長

* 財團法人台灣醫界聯盟基金會 執行長

**EDUCATION**

* 國立陽明大學（衛生福利研究所）；國立臺灣大學（公共衛生學系） 衛生福利研究 / 公共衛生

**PROFESSIONAL EXPERIENCE**

* 第八屆立法委員、衛環委員、台聯黨團總召
* 樂迦再生科技(股)公司董事及執行長
* 衛生福利部國際醫療政策諮議會委員
* 行政院科技會報生技諮議會（BTC）專家
* 行政院國家發展基金生醫與醫療組審議委員
* 財團法人生物技術開發中心顧問
* 國衛院「生命及醫療倫理規範研擬與制定專責小組」委員
* 行政院「推動參與世界衛生組織跨部會小組」成員
* 臺灣歐盟研究協會理事
* 民間全民電視（股）公司董事
* 財團法人彭婉如基金會董事長
* 財團法人台灣智庫董事
* 草擬並推動《再生醫療管理製劑條例（草案）》
* 與日本再生醫療學會（JSRM）就教科書翻譯、人才培訓與認證系統、再生醫療數據平台等事項進行合作
* 多次與日本重要學者、日本再生醫療創新論壇（FIRM）、日本PMDA、日本國立醫療研究開發機構（AMED）及英國CGT Catapult、韓國先進再生醫療諮議會（CARM）、韓國再生醫療振興財團(RMAF)等交流
* 辦理多場再生醫療國際會議、國內產官學座談會。2015-2024年以來辦理37場施行細胞治療技術醫師訓練課程，合計訓練3,195名臨床相關研究與執行人員

**ACHIEVEMENTS**

* 《再生醫療～研發、實踐、支援～》教科書中譯本總編輯
* 《厚生富國-台灣發展創新生醫政策建言》系列總編輯
* 《未來醫療-再生醫療發展與趨勢》作者

**SPECIALTIES**

* 再生醫療政策
* 國際醫療交流
* 會議與訓練籌辦

# Speakers

* **Seiji HORI** Director (CTO)  
   VC Cell Therapy Inc.
* **Hiroto Bando** President of Japan  
   Minaris Advanced Therapies
* **林世嘉** 執行長  
   財團法人台灣醫界聯盟基金會
* **Yu-Fan Chen** Deputy Director (Acting)  
   Industrial Technology Research Institute (ITRI)
* **何弘能 總顧問 / Hong-Neng HO, General Consultant, Taipei Medical University**

SPEAKER

**Seiji HORI** Director (CTO)

* VC Cell Therapy Inc. Director (CTO)

**EDUCATION**

* Kyoto University Medical Science

**PROFESSIONAL EXPERIENCE**

* VC Cell Therapy Inc.
* iPS portal Inc.
* Graduate School of Biostudies, Kyoto University

**ACHIEVEMENTS**

* Created compounds that inhibit intracellular stress, which entered clinical trials
* Promoted regenerative medicine using stem cells at iPS portal Inc.
* Chairman of the Education Committee of FIRM, contributing to personnel development
* Publication: Pigmentation level of human iPSC-derived RPE does not indicate a specific gene expression profile. Elife. 2024 May 9:12:RP92510. doi:10.7554/eLife.92510.
* Publication: Automated adherent cell elimination by a high-speed laser mediated by a light-responsive polymer. Commun Biol. 2018 Dec 7:1:218. doi:10.1038/s42003-018-0222-4.
* Publication: Novel VCP modulators mitigate major pathologies of rd10, a mouse model of retinitis pigmentosa. Sci Rep. 2014 Aug 6;4:5970. doi:10.1038/srep05970.

**SPECIALTIES**

* Regenerative medicine
* Neurodegenerative disease
* Drug discovery
* Retinal regenerative medicine
* Stem cell applications

SPEAKER

**Hiroto Bando** President of Japan

* Minaris Advanced Therapies President of Japan

**EDUCATION**

* Kyoto University Pharmaceutical Sciences

**PROFESSIONAL EXPERIENCE**

* Minaris Advanced Therapies
* FUJIFILM Corporation
* Takeda Pharmaceutical Company

**ACHIEVEMENTS**

* Appointed President of Japan at Minaris Advanced Therapies in January 2025, leading global operations across Japan, USA, and Germany, and oversaw the company’s transition to Altaris.
* Served as Senior Manager at FUJIFILM Corporation and as Head of Global Cell Therapy Manufacturing Strategy at Takeda Pharmaceutical Company.
* Holds a Ph.D. in Pharmaceutical Sciences from Kyoto University and an MBA from Business Breakthrough University, combining scientific expertise with management skills.
* Publication: Detection of residual pluripotent stem cells in cell therapy products utilizing droplet digital PCR: an international multisite evaluation study. Stem Cells Transl. Med. 2024; 13(10):1001-1014. doi:10.1093/stcltm/szae058.
* Publication: Tumorigenicity assessment of cell therapy products: The need for global consensus and points to consider. Cytotherapy. 2019; 21(11):1095-1111. doi:10.1016/j.jcyt.2019.10.001.

**SPECIALTIES**

* Regenerative medicine
* Advanced therapy manufacturing
* Cell therapy strategy
* Pharmaceutical sciences
* Global operations management

SPEAKER

**林世嘉** 執行長

* 財團法人台灣醫界聯盟基金會 執行長

**EDUCATION**

* 國立陽明大學（衛生福利研究所）；國立臺灣大學（公共衛生學系） 衛生福利研究 / 公共衛生

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* 行政院「推動參與世界衛生組織跨部會小組」成員
* 臺灣歐盟研究協會理事
* 民間全民電視（股）公司董事
* 財團法人彭婉如基金會董事長
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* 草擬並推動《再生醫療管理製劑條例（草案）》
* 與日本再生醫療學會（JSRM）就教科書翻譯、人才培訓與認證系統、再生醫療數據平台等事項進行合作
* 多次與日本重要學者、日本再生醫療創新論壇（FIRM）、日本PMDA、日本國立醫療研究開發機構（AMED）及英國CGT Catapult、韓國先進再生醫療諮議會（CARM）、韓國再生醫療振興財團(RMAF)等交流
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**ACHIEVEMENTS**

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* 《厚生富國-台灣發展創新生醫政策建言》系列總編輯
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**SPECIALTIES**

* 再生醫療政策
* 國際醫療交流
* 會議與訓練籌辦

SPEAKER

**Yu-Fan Chen** Deputy Director (Acting)

* Industrial Technology Research Institute (ITRI) Deputy Director (Acting)

**EDUCATION**

* National Yang Ming Chiao Tung University Institute of Clinical Medicine

**PROFESSIONAL EXPERIENCE**

* Industrial Technology Research Institute (ITRI)
* China Medical University / China Medical University Hospital
* University of California, San Diego

**ACHIEVEMENTS**

* 21st National Innovation Award – Academic Innovation Award
* US Patent: Mature hepatocytes derived from induced pluripotent stem cells, methods for producing them, and their use in treating liver diseases (US9732323)
* Taiwan Patent: Method for rapid generation of mature hepatocytes and its application in the treatment of liver diseases (I449789)
* Taiwan Patent: Treatment of non-alcoholic steatohepatitis using exosomes derived from mesenchymal stem cells (I836656)
* Yu-Fan Chen, Chien-Wei Lee, Yi-Shuan J Li, Wei-Ting Lin, Hsiao-Yun Chen, Yu-Chuan Chen, Chia-Hao Lin, Jennifer Hui-Chun Ho, Li-Fan Lu, Shu Chien, Oscar Kuang-Sheng Lee. Temporal single-cell sequencing analysis reveals that GPNMB-expressing macrophages potentiate muscle regeneration. Exp. Mol. Med. Jun. 2025.
* Chien-Wei Lee, Belle Yu-Hsuan Wang, Shing Hei Wong, Yi-Fan Chen, Qin Cao, Allen Wei-Ting Hsiao, Sin-Hang Fung, Yu-Fan Chen, Hao-Hsiang Wu, Po-Yu Cheng, Zong-Han Chou, Wayne Yuk-Wai Lee, Stephen Kwok Wing Tsui, Oscar Kuang-Sheng Lee. Ginkgolide B increases healthspan and lifespan of female mice. Nature Aging. Jan. 2025.
* WT Lin, HH Wu, CW Lee, YF Chen, L Huang, JHC Ho, OKS Lee. Modulation of experimental acute lung injury by exosomal miR-7704 from mesenchymal stromal cells acts through M2 macrophage polarization. Mol Ther Nucleic Acids. Mar. 2024.
* Zihao Wan, Yu-Fan Chen, Qi Pan, Yiwei Wang, Shuai Yuan, Hui Yen Chin, Hao-Hsiang Wu, Wei-Ting Lin, Po-Yu Cheng, Yun-Jung Yang, Yu-Fan Wang, Shekhar Madhukar Kumta, Chien-Wei Lee, Oscar Kuang-Sheng Lee. Single-cell transcriptome analysis reveals the effectiveness of cytokine priming irrespective of heterogeneity in mesenchymal stromal cells. Cytotherapy. 25 (11):1155-1166. Nov. 2023.
* Yu-Fan Chen, Chien-Wei Lee, Hao-Hsiang Wu, Wei-Ting Lin, Oscar K Lee. Immunometabolism of macrophages regulates skeletal muscle regeneration. Front. Cell Dev. Biol. 10:948819. Sept. 2022.
* Yu-Fan Chen, Yi-Shuan J. Li, Chih-Hung Chou, Men Yee Chiew, Hsien-Da Huang, Jennifer Hui-Chun Ho, Shu Chien, Oscar K. Lee. Control of Matrix Stiffness Promotes Endodermal Lineage Specification by Regulating SMAD2/3 via lncRNA LINC00458. Science Advances 6: eaay0264 Feb. 2020.
* Lee CW\*, Chen YF\*, Wu HH\*, Lee OK. Historical Perspectives and Advances in Mesenchymal Stem Cell Research for the Treatment of Liver Diseases. Gastroenterology 154 (1):46-56. Jan. 2018. (\*These authors contributed equally to the manuscript)
* Yu-Fan Chen, Chien-Yu Tseng, Hsei-Wei Wang, Hung-Chih Kuo, Vincent W. Yang, Oscar K. Lee. Rapid Generation of Mature Hepatocyte-Like Cells from Human Induced Pluripotent Stem Cells by an Efficient Three-Step Protocol. Hepatology 55 (4):1193-1203. Apr. 2012.
* Chang YK, Chen MH, Chiang YH, Chen YF, Ma WH, Tseng CY, Soong BW, Ho JH, Lee OK. Mesenchymal Stem Cell Transplantation Ameliorates Motor Function Deterioration of Spinocerebellar Ataxia by Rescuing Cerebellar Purkinje Cells. J Biomed Sci 18 (1):54. Aug. 2011.
* Ho JH, Tseng TC, Ma WH, Ong WK, Chen YF, Chen MH, Lin MW, Hong CY, Lee OK. Multiple Intravenous Transplantations of Mesenchymal Stem Cells Effectively Restore Long-Term Blood Glucose Homeostasis by Hepatic Engraftment and β-Cell Differentiation in Streptozocin-Induced Diabetic Mice. Cell Transplantation 21 (5):997-1009. Aug. 2012.
* Ho JH, Ma WH, Tseng TC, Chen YF, Chen MH, Lee OK. Isolation and Characterization of Multi-Potent Stem Cells from Human Orbital Fat Tissues. Tissue Eng Part A 17(1-2):255-66. Jan. 2011.
* Ho JH, Chen YF, Ma WH, Tseng TC, Chen MH, Lee OK. Cell Contact Accelerates Replicative Senescence of Human Mesenchymal Stem Cells Independent of Telomere Shortening and p53 Activation: Roles of Ras and Oxidative Stress. Cell Transplantation 20 (8):1209-20. Aug. 2011.

**SPECIALTIES**

* Stem Cell Biology
* Regenerative Medicine

SPEAKER

**何弘能 總顧問 / Hong-Neng HO, General Consultant, Taipei Medical University**