**Yu-Chen Hu (胡育誠), Ph.D.**

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BIOGRAPHICAL

Date of Birth: November 15, 1969

City of Birth: Taipei, Taiwan

Citizenship: Taiwan

EDUCATION

|  |  |
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| 1996/07-1999/05 | Ph.D. in Chemical Engineering, University of Maryland, College Park, MD. |
| 1993/09-1996/06 | MS in Chemical Engineering, University of Maryland, College Park, MD. |
| 1988/10-1992/06 | BS in Chemical Engineering, National Taiwan University, Taipei, Taiwan. |

RESEARCH INTERESTS

* Gene therapy
* Cell and tissue engineering
* Vaccine development
* Biomaterials
* Synthetic biology, metabolic engineering and biorefinery

PROFESSIONAL EXPERIENCE

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| --- | --- |
| 2023/10-present | Review Committee, American Institute for Medical and Biological Engineering (AIMBE) |
| 2022/12–present | 台灣化工學會 理事  Board member, Taiwan Institute of Chemical Engineers |
| 2022/10-present | 亞洲生物技術聯盟 副理事長  Vice President, Asian Federation of Biotechnology (AFOB) |
| 2022/08–present | 清華大學工學院副院長  Vice Dean, College of Engineering, National Tsing Hua University |
| 2021/12-present | Associate Editor, Frontiers in Bioengineering and Biotechnology (IF 6.064) |
| 2021/04–present | Co-Chair, Division of Tissue Engineering and Biomaterials，亞洲生物技術聯盟(AFOB)  Co-Chair, Division of Tissue Engineering and Biomaterials, Asian Federation of Biotechnology |
| 2019/08–2020/12 | 國際組織工程與再生醫學學會 亞太分會 獎章委員會委員  Award committee member, TERMIS-AP Council |
| 2019/07 | Co-Chair, 2019 亞洲生物技術聯盟(AFOB)會議(900 attendees)  Co-Chair, 2019 Asian Congress of Biotechnology |
| 2019/08–present | 清華講座教授  Tsing Hua Chair Professor, National Tsing Hua University |
| 2018/11–2020/11 | 台灣化工學會 學術委員會 主任委員  Chair, Academic Affairs Committee, Taiwan Institute of Chemical Engineers |
| 2018/01-2020/12 | 科技部化工學門召集人  Coordinator, Chemical Engineering Division, Ministry of Science and Technology |
| 2018/03–2020/07 | 台灣再生醫學學會 理事  Board member, Formosa Association of Regenerative Medicine |
| 2018/03–2020/07 | 中華民國生醫材料及藥物制放學會 理事暨學術委員會 主任委員  Board member, Biomaterials and Controlled Release Society, Taiwan |
| 2016/07–2019/07 | 台灣生物技術與生化工程學會 副理事長  Vice President, Biotechnology and Biochemical Engineering Society of Taiwan, BEST |
| 2017/01–2019/12 | 國際組織工程與再生醫學學會 亞太分會 理事  Council member, Tissue Engineering International & Regenerative Medicine Society (TERMIS)-Asia Pacific (TERMIS-AP) Council |
| 2016/09 | 國際組織工程與再生醫學學會 亞太分會 會議執行主席  Program Chair, 2016 TERMIS-AP meeting (850 attendees) |
| 2016/09–2019/12 | 國際組織工程與再生醫學學會 亞太分會 會議委員會委員  Meeting committee member, TERMIS-AP Council |
| 2015/07–present | Deputy Editor, Journal of Taiwan Institute of Chemical Engineers (IF 5.477) |
| 2014/12–2016/12 | 台灣化工學會 理事  Board member, Taiwan Institute of Chemical Engineers |
| 2014/12–present | 亞洲生物技術聯盟(AFOB) 執行理事  Executive Board Member, Asian Federation of Biotechnology |
| 2014/12–2016/07 | 台灣生物技術與生化工程學會 監事  Board member, Biotechnology and Biochemical Engineering Society of Taiwan, BEST |
| 2013/08–2016/07 | 清華大學化工系 系主任  Chairman, Department of Chemical Engineering, National Tsing Hua University (NTHU) |
| 2013/01–2015/12 | 國際組織工程與再生醫學學會 亞太分會 理事  Board member, TERMIS-AP Pacific Council |
| 2010/08–2019/07 | 清華大學 特聘教授  Distinguished Professor, National Tsing Hua University |
| 2011/11–2013/12 | 台灣化工學會 國際事務與聯誼委員會 主任委員  Coordinator, International Relationship Committee, Taiwan Institute of Chemical Engineers |
| 2010/09–2011/09 | 清華大學 副國際長  Vice Dean, Office of International Affairs, National Tsing Hua University |
| 2008/08–2010/07 | 清華大學 諮商中心主任  Director, Counseling Center, National Tsing Hua University |
| 2007/08–2010/07 | 清華大學化工系 教授  Professor, Department of Chemical Engineering, National Tsing Hua University |
| 2009/06-2009/09 | 訪問教授, 加州大學聖地牙哥分校  Visiting Professor, Department of Bioengineering, University of California San Diego |
| 2003/08-2007/07 | 清華大學化工系 副教授  Associate Professor  Department of Chemical Engineering, National Tsing Hua University |
| 2000/08–2003/07 | 清華大學化工系 助理教授  Assistant Professor Department of Chemical Engineering, National Tsing Hua University |
| 1999/06-2000/06 | 美國國家衛生研究院 博士後研究員  Visiting Fellow, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health. |
| 1994/09-1999/05 | 美國馬里蘭大學 兼任研究助理  Graduate Research Assistant, Center for Agricultural Biotechnology, University of Maryland Biotechnology Institute. |

HONORS AND AWARDS

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| 2023 | 台灣生物技術與生化工程學會 會士  Fellow, Biotechnology and Biochemical Engineering Society of Taiwan (BEST) |
| 2022 | 中華民國生醫材料及藥物制放學會 研究學者獎  Research Scholar Award, Society for Biomaterials and Controlled Release |
| 2022 | 台灣化工學會 傑出論文獎  Outstanding paper award, Taiwan Institute of Chemical Engineers |
| 2021 | 李昭仁教授基金會研究學者獎  Research Scholar Award, Professor Lee Foundation |
| 2020 | 科技部工程司產學合作計畫成果發表優良獎  Outstanding Academic-Industry Collaboration Award, Ministry of Science and Technology (MOST) |
| 2020 | 台灣化工學會 毛高文教授獎  Professor Mao Gao-Wen Award, Taiwan Institute of Chemical Engineers |
| 2020 | 國際生醫材料科學與工程學會聯盟 會士  Fellow Biomaterials Science and Engineering (FBSE), International Union of Societies for Biomaterials Science and Engineering |
| 2019 | 第16屆國家新創獎 學研新創獎 National Innovation Award |
| 2019 | 台灣化工學會 金開英獎  Jin Kai-Yin Award, Taiwan Institute of Chemical Engineers |
| 2018 | 科技部 特約研究計畫 |
| 2018 | 科技部 未來科技突破獎  Future Technology Award, MOST |
| 2017 | 李長榮福聚教育基金會學術研究傑出教授奬  LCY Foundation Outstanding Research Professor Award |
| 2016 | Editorial Board Member, Journal of Tissue Engineering and Regenerative Medicine (IF 4.71) |
| 2016 | 台灣生物技術與生化工程學會 生物技術與生化工程獎章  BEST Biochemical Engineering Achievement Award (Biotechnology and Biochemical Engineering Society of Taiwan, BEST) |
| 2016 | Program Chair, TERMIS (Tissue Engineering & Regenerative Medicine International Society)-2016 AP Chapter Meeting |
| 2015 | Deputy Editor, Journal of Taiwan Institute of Chemical Engineers (IF 5.8) |
| 2014 | 科技部傑出研究獎  Outstanding Research Award (Ministry of Science and Technology) |
| 2014 | 清華大學傑出產學研究獎  Outstanding Academia-Industry Research Award, National Tsing Hua University |
| 2014 | 清華大學工學院傑出產學合作獎  Outstanding Academic-Industry Collaboration Award, College of Engineering, National Tsing Hua University |
| 2012 | TERMIS-AP 理事  Board member, TERMIS-AP Council |
| 2012 | 國科會優秀年輕學者計畫 Outstanding Young Scholar Project, National Science Council |
| 2011 | 美國醫學與生物工程學會 會士  Fellow, American Institute for Medical and Biological Engineering |
| 2011 | 日本化工學會 亞洲研究獎  Asia Research Award, Society of Chemical Engineers, Japan |
| 2011 | 台灣化工學會賴再得獎  Professor Tsai-Te Lai Award, Taiwan Institute of Chemical Engineers |
| 2010 | 清華大學特聘教授  Distinguished Professor, National Tsing Hua University |
| 2010-present | 國科會獎勵特殊優秀人才 |
| 2010 | Associate Editor, Current Gene Therapy |
| 2010 | Most Highly Cited Paper Award, Acta Pharmacol. Sin. |
| 2009 | Outstanding Teaching Award (College of Engineering, National Tsing Hua University) |
| 2007 | 國科會傑出研究獎  Outstanding Research Award, National Science Council |
| 2007 | 45屆十大傑出青年  Ten Outstanding Young Persons Award (only 1-2 recipients in the Science/Education field in Taiwan) |
| 2006 | 國科會吳大猷獎  Wu Ta-Yu Memorial Award (National Science Council) |
| 2006 | 臺灣化工學會最佳論文獎  Outstanding Paper Award (The Taiwan Institute of Chemical Engineers) |
| 2004 | 清華大學新進人員研究獎  Outstanding Young Investigator Award (National Tsing Hua University) |

**ASSOCIATE EDITOR/EDITORIAL BOARD MEMBERS**

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| 2022 | Guest Editor, Biomolecules (IF 6.064) |
| 2022 | Editorial board member, Synthetic Biology and Engineering |
| 2021 | Associate Editor, Frontiers in Bioengineering and Biotechnology (IF 6.064) |
| 2021 | Editorial board member, Biomolecules (IF 6.064) |
| 2020 | Guest Editor, Frontiers in Cell and Developmental Biology (IF 6.081) |
| 2019 | Guest Editor, Biotechnology Journal (5.726) |
| 2018 | Editorial board member, Biotechnology and Bioprocess Engineering |
| 2018 | Editor, Scientific Report (IF 4.996) |
| 2018 | Editorial board member, Tissue Engineering and Regenerative Medicine |
| 2016 | Editorial Board Member, Journal of Tissue Science & Engineering |
| 2016 | Editorial Board Member, Journal of Tissue Engineering and Regenerative Medicine |
| 2015 | Deputy Editor, Journal of Taiwan Institute of Chemical Engineers (IF 5.477) |
| 2014 | Editorial Board Member, Journal of Vaccines and Immunology |
| 2011 | Editorial Board Member, World Journal of Stem Cells |
| 2011 | Editorial Board Member, World Journal of Medical Genetics |
| 2010 | Associate Editor, Current Gene Therapy |
| 2007 | Editorial Board Member, Recent Patents on Biotechnology |

INVITED SPEECHES (International Conference)

1. Keynote speaker, June. 2024. 3rd International Forum on Chemical Engineering and Catalysis (CECFORUM2024), Porto, Portugal.
2. Keynote speaker and session organizer, Oct. 2023. Asian Congress of Biotechnology. Ho Chi Min City, Vietnam.
3. Keynote speaker, July 2023. 2023 eCM meeting on Bone and Fracture Repair. Davos, Switzerland.
4. Invited speaker, 2023 , Controlled Release Society (CRS) Local Chapter Webinar.
5. Plenary speaker, Nov. 2022. The 13th Science Conference, VNUHCM-US. Ho Chi Min City, Vietnam.
6. Invited speaker, 2022 Australia-Taiwan Life Science Symposium. Virtual Conference.
7. Keynote speaker and session chair. 2022 Oct. 2022 TERMIS-AP Meeting, Korea
8. Plenary speaker, Oct. 2022 Kyungpook National University Hospital (KNUH) International Conference. Daegu, Korea.
9. Invited speaker, 2022, March. Annual Meeting of Formosa Association of Regenerative Medicine. Taipei. Taiwan.
10. Keynote speaker and session chair, 2021 Nov. AFOB virtual conference, Korea
11. Invited speaker, 2021 Oct. Korea-Taiwan-Japan Joint Symposium on Chemical Engineering, Korea.
12. Keynote speaker, 2021 Oct. Annual Meeting of the Taiwan Neuroimmunology Medical Society and Society for Neurological Rare Disorders. Taipei, Taiwan.
13. Keynote speaker, 2021 July, The 26th BEST conference and International Symposium on Biotechnology and Bioengineering. Taichung. Taiwan.
14. Keynote speaker, 2021, June, 2021 Annual Meeting of Agricultural Chemical Society of Taiwan. Taipei, Taiwan.
15. Chair Lecture, 2020 Nov. National Cheng Kung University, Tainan, Taiwan
16. Invited speaker. 2020 Nov. International Conference on Emergent Functional Matter Science 2020. Suao, Taiwan.
17. Keynote speaker, 2020, Aug. Annual Meeting of Biomaterials and Controlled Release Society in Taiwan. Taipei, Taiwan.
18. Invited speaker, 2019, Dec. International Symposium of Gene Therapy for Hereditary Diseases, Taipei, Taiwan.
19. Invited speaker, 2019, Nov. 10th Asian Symposium on Innovative Bio-production and Biorefinery (i-BioT 2019 Conference). Taichung, Taiwan.
20. Keynote speaker, 2019, Oct. TERMIS-AP meeting, Brisbane, Australia.
21. Keynote speaker, 2019, Aug. Cross Strait Chemical Engineering Forum. Kaoshung, Taiwan.
22. Invited speaker, 2019, May. Symposium for “Biology for Chemical Production”. Taipei. Taiwan.
23. Invited speaker, 2019, March. 3rd Bilateral workshop between National Tsing Hua University and Vietnam National University. Ho Chi Minh City, Vietnam.
24. **Plenary speaker, 2018, Sep, 2018 TERMIS World Congress, Kyoto, Japan.**
25. Plenary speaker, 2018, Aug. 2018 Cross Strait Chemical Engineering Forum. Taiyun, China.
26. Keynote speaker, 2018, July. 18th European Congress on Biotechnology, Geneva, Switzerland.
27. Invited speaker, 2018 May. 19th International Meeting of the Korean Tissue Engineering and Regenerative Medicine Society (KTERMS). Seoul, Korea.
28. Invited speaker, 2018 Jan, Bowie Research Conference, Hsinchu, Taiwan.
29. Plenary speaker, 2017 Nov, 3rd National Congress on Regenerative Medicine, Moscow, Russia.
30. Invited speaker, 2017 Oct, 8th International Conference on Materials Engineering for Resources (ICMR), Akita, Japan.
31. Keynote speaker, 2017 Oct, 2017 International Conference on Biofabrication (BF2017). Beijing, China.
32. Keynote speaker, 2017 Sep, 2017 TERMIS-AP meeting, Nantong, China.
33. Invited speaker, 2017 Sep, The third international conference: Innovations in cancer research and regenerative medicine. Ho Chi Minh City, Vietnam.
34. Plenary speaker, 2017 Aug. 2017 International Symposium of Materials on Regenerative Medicine (ISOMRM). Chunli, Taiwan.
35. Invited speaker, 2017 July, 2017 Asian Congress of Biotechnology (ACB 2017). Khon Kaen, Thailand.
36. Keynote speaker, 2017, June, TERMIS-EU meeting, Davos, Switzerland.
37. Plenary speaker, 2017 June. 18th International Meeting of the Korean Tissue Engineering and Regenerative Medicine Society (KTERMS). Daegu, Korea.
38. Invited speaker, 2017, Apr. KSBB-BEST Joint Symposium. Gyeongju, Korea.
39. Invited speaker, 2017, March. 82nd Society of Chemical Engineering, Japan (SCEJ) Annual Meeting, Tokyo, Japan.
40. Invited speaker, 2016 Dec. 1st International Conference on Applied Microbiology. Ho Chi Minh City, Vietnam.
41. Plenary speaker, 2016 Nov. Third International Symposium of Tissue Engineering and Regenerative Medicine. Suwon, Korea.
42. Keynote speaker, 2016 Sep. 2016 TERMIS-AP meeting, Tamsui, Taiwan.
43. Plenary speaker, 2016 Aug. 10th Annual Meeting of Chinese Biochemical Engineering Society. Harbin, China.
44. Keynote speaker, 2016, June, 2016 TERMIS-EU meeting, Uppsala, Sweden.
45. Plenary speaker, 2016, June. The 21th Biotechnology and Biochemical Engineering Society of Taiwan (BEST) conference. Chung-Li. Taiwan.
46. Invited speaker, 2016, Apr. KSBB-BEST Joint Symposium. Gyeongju, Korea.
47. Keynote speaker, 2016 Apr. EMN Meeting on Biomaterials 2016. Phuket. Thailand.
48. Invited speaker, 2016 March. The 15th Congress of the Japanese Society for Regenerative Medicine. Osaka, Japan.
49. Invited speaker and session chair, 2015 Nov. BIT's 8th World Congress of Regenerative Medicine & Stem Cell 2015. Shanghai, China.
50. Invited speaker and session chair, 2015 Nov. 12th Asian Congress on Biotechnology (ACB 2015). Kuala Lumpur, Malaysia.
51. Plenary speaker and advisory board member, 2015, Oct. The 2nd International Conference in Chemical Engineering, Food and Biotechnology-ICCFB2015, Ho Chi Minh City, Vietnam.
52. Keynote speaker and session chair, 2015 Oct. The 8th Sino-US Joint Conference of Chemical Engineering. Shanghai, China.
53. Invited speaker, 2015 June. 20th Annual Conference of the Chinese Biopharmaceutical Association- USA, LianYunGang, Jiangsu, China.
54. Invited Speaker. 6th AFOB Regional Symposium. 2015 Depok, Indonesia.
55. Invited speaker, ISBiotech 5th Annual Meeting, 2015, March. Washington DC, USA.
56. Invited speaker, 5th Asian Symposium on Innovative Bio-production and Biorefinery (i-BioT 2014 Conference), 2014, Nov. Tainan, Taiwan.
57. Keynote speaker and session chair, 2014 Sep. 2014 TERMIS-AP meeting, Daegu, Korea.
58. Invited speaker, ISBiotech 4th Annual Meeting, 2014, March. Washington DC, USA.
59. Keynote speaker, Annual Meeting of Taiwan Institute of Chemical Engineers. 2013, Nov. Taiwan.
60. Keynote speaker and session chair, 2013 Oct. 2013 TERMIS-AP meeting, Shanghai, China
61. Keynote speaker, 2013 Oct. The 7th Sino-US Joint Conference of Chemical Engineering. Beijing, China.
62. Invited speaker, 2013 Oct. Cross-Strait Chemical Engineering Conference. Zhongli, Taiwan.
63. Invited speaker at Zhongmu Institute of China Animal Husbandry Industry Group, 2013, May. Beijing, China.
64. Invited speaker, 76th Society of Chemical Engineering, Japan (SCEJ) Annual Meeting, 2013, March. Osaka, Japan.
65. Invited speaker, ISBiotech 3rd Annual Meeting, 2013, March. Rosslyn, VA, USA.
66. Invited speaker, International Symposium on Advanced Biological Engineering, 2012, Oct. Guilin, China.
67. Invited speaker, Annual Meeting of American Institute of Chemical Engineers. 2012, Oct. Pittsburg, USA.
68. Keynote speaker, International Congress of Entomology (ICE). 2012, Aug. Daegu, Korea.
69. Keynote speaker, 75th SCEJ Annual Meeting. 2012, Mar. Tokyo, Japan.
70. Keynote speaker, Annual Meeting of Taiwan Institute of Chemical Engineering. 2011, Nov. Taiwan.
71. Invited speaker, 17th Young Asian Biochemical Engineers Meeting, 2011, Oct. Incheon. Korea.
72. Invited speaker and session chair, Asian Congress on Biotechnology. 2011, May. Shanghai, China.
73. Invited speaker, 16th Triennial Congress of the Asia Pacific Orthopedic Association. 2010, Nov. Taiwan.
74. Invited speaker, Symposium for “Viral Vectors in Gene Therapy: Applications and Novel Production Methods. 2010, Aug. Kuopio, Finland.
75. Invited speaker, 15th Biochemical Engineering Conference. 2010, June. Taiwan.
76. Invited speaker, World Vaccine Congress, 2010, March. Beijing, China.
77. Invited speaker, Queensland Protein Symposium. 2010, March. Brisbane, Australia.
78. Invited speaker at GlaxoSmithKline Company, 2009, Sep. Belgium.
79. Invited speaker at MedImmune, 2009, Aug. California, USA.
80. Invited speaker, APEC Conference for the Surveillance, Treatment, Laboratory Diagnosis and Vaccine Development of Enteroviruses. 2009, Aug. Taipei, Taiwan.
81. Invited speaker, Symposium for Vaccine and Infectious Diseases. 2009. July. Taipei, Taiwan.
82. Invited speaker and session chair, 2008 Annual Conference of Tissue Engineering and Regenerative Medicine International Society (TERMIS)–Asian Pacific Region. 2008, Nov.
83. Invited speaker, BacMam Summit 2008. 2008, Sep. Portland, USA.
84. Invited speaker, 3rd SBE International Conference on Bioengineering and Nanotechnology. 2007, Aug. Singapore.
85. Invited speaker, 2007 Annual meeting of Formosa Society of Regenerative Medicine. 2007, Mar. Taipei.
86. Keynote speaker, 2006 International Symposium of Nanotechnology, 2006, Oct.
87. Keynote speaker, 12th Symposium of Young Asian Biochemical Engineers’ Community. 2006, Nov. Kaoshung, Taiwan.

INTERNATIONAL COMMITTEE/ORGANIZER

1. Organizing committee member, 3rd International Forum on Chemical Engineering and Catalysis. 2024. Porto, Portugal.
2. International advisory board. World Congress of Biomaterials, 2024. Daegu, Korea.
3. Scientific Programme Committee, European Federation of Biotechnology Congress. 2024. Netherland
4. Organizer and session chair, Asian Congress on Biotechnology. 2023. Ho Chi Min City, Vietnam.
5. Organizer and session chair, AFOB-EFB joint meeting. 2023. Virtual conference.
6. Chair, International Advisory Board, TERMIS (Tissue Engineering International & Regenerative Medicine Society)-Asia Pacific Chapter (TERMIS-AP), 2022. Jeju, Korea.
7. Scientific organizing committee member, 2021 AFOB Virtual Conference, Nov. 2021, Korea
8. Co-chair, Tissue Engineering and Biomaterials division, AFOB.
9. International advisory board. TERMIS-World Congress, 2021. Maastricht, Netherland.
10. International advisory board. TERMIS-AP meeting, 2020. Malaysia.
11. Organizing committee, Biomaterials International conference 2020, Kenting, Taiwan.
12. **Conference Chair, 14th Asian Congress on Biotechnology. 2019.**
13. International Advisory Committee. TERMIS-America meeting, Florida, 2019.
14. International Advisory Committee. TERMIS-World Congress, Kyoto, Japan, 2018.
15. International Advisory Committee. TERMIS-America meeting, 2017.
16. Symposium organizer, 2017 TERMIS-AP meeting
17. Symposium organizer, 2017 TERMIS-EU meeting
18. International Advisory Committee. The Collaborative Conference on Microbes 2016. Melbourne, Australia.
19. Council member, TERMIS-AP (2017-2019)
20. Organizing committee member, 21th Biotechnology and Biochemical Engineering Society of Taiwan (BEST) conference.
21. Finance committee member, TERMIS-AP Council
22. Board member, Asian Federation of Biotechnology (AFOB)
23. **Program Chair, TERMIS-AP Meeting (2016)**
24. Steering Committee. The 2nd International Conference on Chemical Engineering, Food and Biotechnology - ICCFB2015
25. Council member, TERMIS-AP (2012-2015)
26. Symposium organizer, 2015 TERMIS-World Congress meeting
27. Technical Program Committee, 2014 International Conference on Biological Engineering and Biomedical (BEAB 2014)
28. Symposium organizer, 2014 TERMIS-AP meeting
29. Symposium organizer, 2013 TERMIS-AP meeting
30. Technical Program Committee. The 2012 International Conference on Bioengineering, Chemistry and Environment Science. (2012)
31. Organizing Committee, ISABE Conference 2012 (2012)

PROFESSIONAL AFFILATIONS

1. American Institute for Medical and Biological Engineering
2. American Society of Cell and Gene Therapy
3. Taiwan Institute of Chemical Engineers
4. Biotechnology and Biochemical Engineering Society of Taiwan
5. Tissue Engineering International & Regenerative Medicine Society (TERMIS)
6. American Chemical Society
7. American Institute of Chemical Engineers
8. Biomaterials and Controlled Release Society, Taiwan
9. Formosa Association of Regenerative Medicine

**Publications of Yu-Chen Hu (胡育誠)**

1. **Journal Papers (\* Corresponding author)**

**Submitted and in press**

1. Nguyen, TKN, Lee, H.-S., P.-H. Chen, Truong, V.A., Chang, Y.-H., Pham, N.N., Chang, C.-W., Pham, D.-H., Ngo, DKT, Truong, V.A., Dang, Q.T., Chang, Y.-H., **Hu, Y.-C.\***. Enhanced calvarial bone repair using ASCs engineered with RNA-guided Split dCas12a system That co-activates Sox5, Sox6 and long Non-coding RNA *H19*. Submitted to Biomaterials. **(IF 15.304).**

**2023**

1. Nguyen, TKN, Tu, Y., Lee, H.-S., Truong, V.A., Chang, Y.-H., Pham, N.N., Chang, C.-W., Lin, Y-H., Lai, P.-L., Chen, P.-H., Parfyonova, Y.V., Menshikov, M., Chang, Y.-H., **Hu, Y.-C.\***. Split dCas12a activator for lncRNA H19 activation to enhance BMSC differentiation and promote calvarial bone healing. Biomaterials. 297:122106. **(IF 15.304).**
2. Pham, N. N., Chang, C.-W., Chang, Y.-H., Tu, Y., Chou, J.-J., Wang, H.Y. and **Hu, Y.-C.\***. 2023 May. Rational genome and metabolic engineering of *Candida viswanathii* by split CRISPR to produce hundred grams of dodecanedioic acid. Metabolic Engineering. 77:76-88. **(IF 8.829)**.
3. Chang, C.-W., Huang, J.-W., Lu, Y.-H., Pham, N. N., Tu, J., Tung, Y.-T., Yen, C.-Y., Shen C.-C. Chien, M.-C. Tu, Y., Lin, Y.-H., Yang, S.-W., Nguyen, M.T.T. and **Hu, Y.-C.\***. 2022 March. Metabolic engineering of difficult-to-edit *E. coli* to enhance protein production by coupling ShCAST-based optimized transposon system and CRISPR interference. Journal of the Taiwan Institute of Chemical Engineers. 144: 104746 **(IF 5.477)**.
4. Michurina, S., Stafeev, I., Boldyreva, M., Truong, V.A., Ratner, E., Menshikov, M., **Hu, Y.-C**., Parfyonova, Y. 2023 Feb. Transplantation of adipose tissue-engineered constructs with CRISPR-mediated UCP1 activation. International Journal of Molecular Sciences. 24: 3844 **(IF 6.009)**

**2022**

1. Truong, A.V., Lin, Y.-H., Nguyen, TKN, Hsu, M.-N., Pham, N.N., Chang, Y.-H., Chang, C.-W., Shen, C.-C., Lai, P.-L., Parfyonova, Y.V., Menshikov, M., Wu, J.-C., Chang, Y.-H., **Hu, Y.-C.\***. 2022 Jan. Bi-directional gene activation and repression promote ASC differentiation and enhance bone healing in osteoporotic rats. Molecular Therapy. 30: 92-104. **(IF 12.910)**.
2. Chang, C.-W., Wang, L.-S., Pham, N. N., Shen C.-C., Nguyen, TKN, Yen, C.-Y., Lin, M.-W., Hsu, M.N., Nguyen, M.T.T., Hwu, J.-R., Chang, Y.-H. and **Hu, Y.-C.\***. 2022. Feb. Synthetic biology approach to developing all-in-one baculovirus vector using mammalian introns and miRNA binding sites. Journal of the Taiwan Institute of Chemical Engineers. 131: 104175. **(IF 5.477).**
3. Li, H., Pham, N.N., Shen, C.R., Chang, C.-W., Tu, Y., Chang, Y.-H., Tu, J., Nguyen, M.T.T., **Hu, Y.-C\***. 2022 June. Combinatorial CRISPR interference library for enhancing 2,3-BDO production and elucidating key genes in cyanobacteria. Frontiers in Bioengineering and Biotechnology, 10: 913820 **(IF 6.064)**.
4. Makarevich, P.I\* and Hu, Y.-C. 2022. Editorial: Regulation of adult stem cells fate and function in natural and artificial microenvironments. Frontiers in Cell and Developmental Biology,10:955568 **(IF 6.081)**.
5. Liu, Y.-C., **Hu, Y.-C.**, Chu, I.-M., Wei, Y.-H., Tsai, S.-L\*. 2022 Feb. Biodegradation of tetramethylammonium chloride wastewater and inorganic nitrogen removal by a mixed culture. Journal of Environmental Chemical Engineering. 10: 106931. **(IF 7.968)**
6. Stafeev, I.S., Boldyreva, M.A., Michurina, S.S., Agareva, M.Y., Radnaeva, A.V., Menshikov, M.Y., Hu, Y.-C., Makarevich, P.I., Parfyonova, Y. 2022 Nov. Impaired glucose tolerance and efficacy of HGF/VEGF gene therapy for limb ischemia: shift from angiogenesis to axonal growth and oxidative potential in skeletal muscle. Cells. 11: 3824 **(IF 7.666)**.
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