

Curriculum vitae

Long-Jyun Su

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Experience

- 2020/01 – present LuminX Biotech Co., Ltd. Co-Founder, Chief Executive Officer
- 2020/01 – present 新竹科學園區-創新創業激勵競賽(FITI) 業師顧問
- 2015/11 – 2019/12 BioDiamond biotechnology Co., Ltd, Co-Founder, Chief Technology Officer
- 2018/07 – 2019/12 Institute of Atomic and Molecular Sciences, Academia Sinica, Postdoctoral Fellow
- 2012/06 – 2018/06 Institute of Atomic and Molecular Sciences, Academia Sinica, Research assistant

Education

- 2013/9 – 2018/6 **Ph.D., Department of Chemistry, National Taiwan University**
Fluorescent nanodiamonds for biomedical application: *in-vitro* and *in-vivo* studies.
- 2010/9 – 2012/6 **M.S., Department of Chemistry, National Taiwan Normal University**
Fabrication and characterization of fluorescent nanodiamonds with different nitrogen contents for biological application.
- 2006/9 – 2010/6 **B.S., Department of Applied Chemistry, National Chi Nan University**
Chemistry

Awards and honor

- ✓ 臺北市產業發展獎勵補助計畫SITI-創業補助榮獲全額獎勵補助 (2021)
- ✓ NBRP Demo Day 國家生醫研究園區-生醫新創成果展-產業先鋒金獎 (2021)
- ✓ 2021 HVC KYOTO (JAPAN Healthcare Pitch Events) 入選團隊 (2021)
- ✓ 科技部 TTA 暨「研發成果創業加速及整合推廣計畫」-企業合作NRE/POC補助 (2020)
- ✓ Certificate of the 17th National Innovation Award – Start-Up Category (2020)
- ✓ Certificate of the 16th National Innovation Award - Academic-Research Category (2019)
- ✓ Academia Sinica-Core Facilities and New Instrumentation Program (2019)
- ✓ MOST-From IP TO IPO PROGRAM (FITI)- Entrepreneurship Excellence Award (BioDiamond) (2015)
- ✓ The Winter School of Sokendai/Asian CORE Program (2015)

Publication

Journal papers:

1. Wei-Zhan Zhuang,, Yi-Heng Lin, **Long-Jyun Su**, Meng-Shiue Wu, Han-Yin Jeng, Huan-Cheng Chang, Yen-Hua Huang, Thai-Yen Ling. Mesenchymal stem/stromal cell-based therapy: mechanism, systemic safety and biodistribution for precision clinical applications. *J Biomed Sci.* 28, 28 (2021).
2. **Long-Jyun Su**,[§] Hsin-Hung Lin, Meng-Shiue Wu, Lei Pan¹, Kanchan Yadav, Thai-Yen Ling, Yit-Tsong Chen and Huan-Cheng Chang. “Intracellular delivery of luciferase with fluorescent nanodiamonds for dual-modality imaging of human stem cells” *Bioconjugate Chem.* 30, 2228–2237 (2019).
3. Yi-Chia Wu, Ya-Chin Wang, Wei-Ting Wang, Hui-Min David Wang, Hsin-Hung Lin, **Long-Jyun Su**, Yur-Ren Kuo, Chung-Sheng Lai, Mei-Ling Ho, and John Yu “Fluorescent Nanodiamonds Enable Long-Term Detection of Human Adipose-Derived Stem/Stromal Cells in an In Vivo Chondrogenesis Model Using Decellularized Extracellular Matrices and Fibrin Glue Polymer.” *Polymer.* 11, 1391 (2019)
4. **Long-Jyun Su**,[§] Meng-Shiue Wu,[§] Yuen Yung Hui,[§] Be-Ming Chang, Lei Pan, Pei-Chen Hsu, Yit-Tsong Chen, Hong-Nerng Ho, Yen-Hua Huang, Thai-Yen Ling, Hsao-Hsun Hsu, Huan-Cheng Chang. “Fluorescent nanodiamonds enable quantitative tracking of human mesenchymal stem cells in miniature pigs.” *Scientific Reports.* **2017**, 7, 45607.
5. Yuen Yung Hui,[§] **Long-Jyun Su**,[§] Oliver Yenjyh Chen, Yit-Tsong Chen, Tzu-Ming Liu, Huan-Cheng Chang, “Wide-field imaging and flow cytometric analysis of cancer cells in blood by fluorescent nanodiamond labeling and time gating.” *Scientific Reports.* **2014**, 4, 5574.
6. Yuen-Yung Hui,[§] Yu-Chun Lu,[§] **Long-Jyun Su**, Chia-Yi Fang, Jui-Hung Hsu, Huan-Cheng Chang, “Tip-enhanced sub-diffraction fluorescence imaging of nitrogen-vacancy centers in nanodiamonds.” *Applied Physics Letters.* **2013**, 102, 013102.
7. Ti Zhang,[§] Huizhong Cui, Chia-Yi Fang, **Long-Jyun Su**, Shenqiang Ren, Huan-Cheng Chang, Xinmai Yang, M. Laird Forrester, “Photoacoustic contrast imaging of biological tissues with nanodiamonds fabricated for high near-infrared absorbance. ” *Journal of Biomedical Optics.* **2013**, 18(2), 026018.
8. **Long-Jyun Su**,[§] Chia-Yi Fang,[§] Yu-Tang Chang, Kuan-Ming Chen, Yueh-Chung Yu, Jui-Hung Hsu, Huan-Cheng Chang. “Creating high density ensembles of nitrogen-vacancy centers in nitrogen-rich type Ib nanodiamonds.” *Nanotechnology.* **2013**, 24, 315702
9. Be-Ming Chang,[§] Hsin-Hung Lin,[§] **Long-Jyun Su**, Wen-Der Lin, Yan-Kai Tzeng, Alice L. Yuc, Huan-Cheng Chang, “Highly fluorescent protein-functionalized nanodiamonds as cell labeling and targeting agents.” *Advanced Functional Materials.* **2013**, 23, 5737–5745

Conference papers:

1. **Long-Jyun Su**,[§] Meng-Shiue Wu, Pei-Chen Hsu, Chia-Yi Fang, Yen-Hua Huang, Thai-Yen Ling, Huan-Cheng Chang, HSAO-HSUN HSU. “Tracking the Position of the Human Placenta Choriodecidual Membrane-Derived

Mesenchymal Stem Cells in Pig's Lung Using Fluorescent Nanodiamonds." *17th Congress of the European Society for Organ Transplantation (ESOT) 2015*.

2. **Long-Jyun Su**[§], Yuen-Yung Hu, Chia-Yi Fang, Be-Ming Chang, Huan-Chang Chang. "Development and Use of Fluorescent Nanodiamonds for Bioimaging" *The Winter School of Sokendai/Asian CORE Program 2015*.
3. Chia-Yi Fang,[§] **Long-Jyun Su**,[§] Yu-Tang Chang, Kuan-Ming Chen, Yueh-Chung Yu, Jui-Hung Hsu, and Huan-Chang Chang. "Creating high density ensembles of nitrogen-vacancy centers in nitrogen-rich type Ib nanodiamonds." *Workshop on diamond-Spintronics Photonics Bio-applications*, Hong Kong. **2013**.
4. Be-Ming Chang,[§] **Long-Jyun Su**, Hsin-Hung Lin, Chia-Yi Fang, Reiko T. Lee, Yuan C. Lee, Alice L. Yu, Huan-Cheng Chang. "Development and Use of Protein-conjugated Fluorescent Nanodiamonds Made of Nitrogen-rich Type 1b Diamond Crystallites." *MRS Fall Meeting & Exhibit 2012*.
5. Chia-Yi Fang,[§] **Long-Jyun Su**, Cheng-Chun Chang, Che-Yu Li, Yu-Hsin Wang, Pai-Chi Li, Huan-Cheng Chang. Radiation-damaged nanodiamond : A versatile material for biological applications. *The 4th Winter School of Asian-Core Program 2012*.
6. **Long-jyun Su**,[§] Chih-Che Wu. Specific Phosphopeptide Enrichment with Immobilized Titanium and Zirconium Coated Nanodiamond Particles. *Taiwan Society for Mass Spectrometry 2009*.