@Name: CAO, Tong

Appointment:

PI, <u>Stem Cell Lab, NUCOHS, NUHS</u>; and <u>Faculty of Dentistry, NUS</u> Supervisor (2009-), <u>NUS Graduate School for Integrative Sciences and Engineering</u> Director of Oral Sciences Discipline (2011-2020), Vice Dean of Research (2010-2019), <u>NUCOHS, NUHS</u>; and <u>Faculty of Dentistry, NUS</u> <u>Editor-in-Chief (2015-2021)</u>, <u>World Journal of Stem Cells (IF 4.376, CS: 3.55</u>)

Contact Information

Faculty of Dentistry, NUS, 11 Lower Kent Ridge Road, 119083 Singapore Email <u>dencaot@u.nus.edu</u>, <u>dencaot@u.nus.edu.sg</u>, <u>tong_cao@nuhs.edu.sg</u>

Web Information

- <u>iHuman</u>
- <u>IADR</u>
- Publons
 Publons
- LinkedIn Linked in
- Web of Science, Clarivate
 Clarivate
- Scopus Scopus
- ResearcherID, Clarivate
 ResearcherID
 Clarivate
- Scholar
 Google Scholar
 Scholar
- NGS Passardh Braiaeta
- NGS Research Projects
 Second Stress
- NUHS & NUS
- <u>NGS</u>

Research Areas:

- <u>iHuman</u>+ (new): Agelessly renew, upgrade iHuman organ-system; iHuman-AI: Integration of iHuman brain-organ-system with AI; iHuman data technology, intelligence and blockchain
- Developing <u>iHuman (in-vitro & in-vivo Human Platform)</u> of vascularized, innervated, functional, standard and live Tissue-Organ-Organchain-System from hPSC as ethical and unlimited source to improve clinical service (regenerative medicine, transplantation, precision medicine, etc.) and as efficient platform to upgrade human evaluation in health and medical studies
- Clinical and biological design and R&D of the highly macro-porous structure of systemic and oral implant and scaffold for tissue, organ repair and reconstruction with additive manufacturing or 3D printing

Patent:

- Organotypic Skin Model, Awarded and Published 17 Mar 2016 WO/2016/039687
- Vascularized Tissue, Skin or Mucosa Equivalent, Awarded and Published 29 Dec 2016, <u>WO/2016/209166</u>. National phases: <u>US20180187162</u>, <u>EP3310903</u>, <u>JP2018518970A</u>, <u>CN107849530</u>, <u>CA2990590</u>, <u>GB201510913D0</u>, <u>WO2016209166A1</u>
- Collagen-Based Bioink For Generation of Vascularized Tissue Constructs, filed 10202005647Q 16 Jun, 10202011363P 16 Nov 2020

Teaching Areas:

Oral Biology, Oral Physiology, Oral & Maxillofacial Surgery, Graduate Research Methodology, Stem Cell, Regeneration

Academic/Professional Qualifications:

- DDS, Zhejiang University, Hangzhou, PRC
- PhD, Showa University, Tokyo, JPN
- Cert Adv Oral Surg, Showa University, Tokyo, JPN
- Cert Adv Maxillofac Surg, Showa University, Tokyo, JPN

Career History:

- Assistant Lecturer; Lecturer; Assistant Professor; Associate Professor, Zhejiang University Teaching Hospital
- Fellow; Senior Fellow; Visiting Lecturer; Adjunct Assistant Professor, School of Dentistry, Showa University
- Assistant Professor; Associate Professor, Tenure, Faculty of Dentistry, NUHS & NUS
- Supervisor, NGS, NUS
- Lead Principal Investigator, Cranio-Maxillofacial Group, NUSTEP, NUS

Administrative Leadership:

- Deputy Head, Dental Department, Zhejiang University Teaching Hospital (1993-2000)
- Vice-Dean (Research), Faculty of Dentistry, NUS / NUHS (2010 2019)
- Director of Oral Science Disciplines, Faculty of Dentistry, NUS / NUHS (2011 2020)

Professional/Consulting Activities:

- Serve as International Reviewer for
- o Times Higher Education, World University Rankings, Elsevier
- Clarivate Analytics, Global Institutional Profiles Project
- The Wellcome Trust, UK
- Medical Research Council, UK
- Cancer Research UK
- European Science Foundation, EU
- $\circ \qquad \mbox{The Netherlands Organisation for Scientific Research, Netherlands}$
- The Austrian Science Fund, Austria
- Ministry of Science, Israel
- National Dental Research Foundation, New Zealand
- Czech Science Foundation
- Research Grant Council, Hong Kong
- Massachusetts Institute of Technology Singapore Alliance for Research and Technology, US & SG
- Serve as Editor-in-Chief for <u>World Journal of Stem Cells (JCR IF: 4.376, CS: 3.55</u>); Advisory Editorial Board, Editorial Advisory Board, Editorial Board for **10** international peer review journals, including Journal of Molecular Medicine-JMM (IF 5.192) and Bio-Design and Manufacturing (IF 4.095)
- - Invited as reviewer for >100 international peer-review scientific journals and books, including Nature Protocols (5Y-IF 15.269), Cell Death and Differentiation (IF 10.714), Biomaterials (IF 10.314), and Journal of Materials Chemistry B (IF 9.038)

Publications:

- Published >170 full papers in international peer reviewed journals and books, cited by >6503 international publications, h-Index 44, i10-index 103
- Delivered >61 invited and sponsored talks at academic and scientific conferences and scholarly meetings



