

DANIEL S. OH

EDUCATION:

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| 1990 | B.S. | Ceramic Engineering, Yonsei University, Seoul, South Korea |
| 1995 | M.S. | Materials Science and Engineering, Yonsei University, Seoul, South Korea |
| 2003 | Ph.D. | Materials Science and Engineering, Yeungnam University, Gyeongsan, South Korea
Dissertation Title: <i>Synthesis of Calcium Metaphosphate for Implant Coating and Evaluation of Biocompatibility</i> |

PROFESSIONAL POSITIONS:

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| 2003 – 2006 | Post-Doctoral Fellow | Department of Biomedical Engineering
University of Tennessee Health Science Center
Memphis, Tennessee |
| 2006 – 2011 | Research Assistant Professor | Department of Biomedical Engineering, UTSA |
| 2008 – 2011 | Graduate Faculty | U. of Texas Health Science Center at San Antonio |
| 2008 – 2011 | Affiliated Professor | Interactive Technology Experience Center, UTSA |
| 2011 – 2014 | Assistant Professor | Department of Orthopedic Surgery
Columbia University |
| 2014 – 2017 | Assistant Professor | College of Dental Medicine, Columbia University |
| 2018 – 2019 | Adjunct Professor | Department of Orthopedic Surgery
Columbia University |
| 2018 – | Adjunct Professor | Department and Research Institute of Dental
Biomaterials and Bioengineering
Yonsei University, Seoul, Korea |
| 2018 – | VP/Chief Science Office | OsteoGene Tech |
| 2020 – | VP/Chief Science Office | OsteoGene Bio |

OTHER PROFESSIONAL EXPERIENCE:

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| 2016 – | President
MERCİ (non-profit charitable organization: www.meci-world.org) |
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AREAS OF RESEARCH INTEREST:

- Bone-Like Scaffold for Regenerative Medicine
- Localized Drug Delivery Systems
- 3D Cancer Culture Model for Chemotherapeutic Agents Test
- Modeling of Skeletal Organoid
- Etiological Factors of NCCLs (noncarious cervical lesions) and Restorations

HONORS AND AWARDS:

- 2005 Tennessee Biomedical Engineering Conference, Research Award
- 2007 American Association for Dental Research, Unilever Hatton Award
- 2010 Academy of Osseointegration, Best Scientific Poster Presentation
- 2011 Academy of Osseointegration, Best Scientific Poster Presentation
- 2012 Society for Biomaterials, Session Organizer, “Microenvironments for osteogenesis and vasculogenesis - physical, chemical, and biological perspectives”.
- 2013 Keynote Address, IADR/AADR General Session; Scaffold and Bone Regeneration
- 2013 Keynote Speaker, Korean Society for Biomaterials
- 2016 International Association for Dental Research, General Session Organizer on “Microenvironments for Mineralized Tissue Engineering”
- 2018 Invited Speaker, 7th International Conference on Biomedical Engineering and

Biotechnology, Nanjing, China.

- 2019 Invited Speaker/Organizing Program Committee, 8th International Congress of The Croatian Society of Dental Implantology, Split, Croatia.
- 2015 – present. Editorial Board: Korean Journal of Dental Materials

PATENTS:

1. **Daniel S Oh.** Core centered ceramic granule composed of micro structure body and bio-agents delivery system. US 10,702,631 B2, July 7, 2020
2. **Daniel S Oh,** Anson JL Ong. Bi-layered bone-like scaffolds. US 8,916,228 B2, Dec 23, 2014
3. Namsik Oh, Myunghyun Lee, **Sunho Oh,** Sangjin Lee. Preparation Method of Calcium Phosphate –Based Ceramic Powder and Compact Thereof. US Application No. 12/021,920, Jan 29, 2008
4. Sukyoung Kim, Changkook You, **Sunho Oh.** Calcium metaphosphate coated dental implant and manufacturing method thereof. Korea Patent No. 10-0579155-0000, May 04, 2006

PUBLICATIONS:

Journal (referenced; full length): 62

1. Chun-Sik Bae, Seung-Hyun Kim, Taeho Ahn, Yeonji Kim, Se-Eun Kim, Seong-Soo Kang, Jae-Sung Kwon, Kwang-Mahn Kim, Sahng-Gyoon Kim, **Daniel Oh.** Multiple Porous Synthetic Bone Graft Comprising Engineered Micro-Channel for Drug Carrier and Bone Regeneration. *Materials.* 2021,14, 5320
2. Elizabeta Gjorgievska, **Daniel S. Oh,** Daewon Haam, Dragana Gabric, Nichola J. Coleman. Evaluation of Efficiency of Polymerization, Surface Roughness, Porosity and Adaptation of Flowable and Sculptable Bulk Fill Composite Resins. *Molecules.* 2021, 26, 5202.
3. Ji-Young Seo, **Daniel Oh,** Dae-Joon Kim, Kwang-Mahn Kim, Jae-Sung Kwon. Enhanced mechanical properties of ZrO₂-Al₂O₃ dental ceramic composites by altering Al₂O₃ form. *Dental Materials.* 2020;36:e117-e125.
4. Messina AM, Marini L, **Oh DS,** Marini E. A Step-by-Step Procedure for Bone Regeneration Using Calcium Phosphate Scaffolds: From Site Preparation to Graft Placement. *Journal of Craniofacial Surgery.* 2019 Jan;30(1):149-153.
5. Seunghyun Kim, Taeho Ahn, Myung-Ho Han, Chunsik Bae, **Daniel S Oh.** Wicking Property of Graft Material Enhanced Bone Regeneration in the Ovariectomized Rat Model. *Tissue Eng Regen Med.* 2018;15:503-510.

Conference Presentation & Abstract: 98

PROFESSIONAL ACTIVITIES

Professional Societies

- American Society for Testing and Materials International (ASTM International)
 - F04 & ISO/TC 150 Committee (Medical and Surgical Materials and Devices)
- Society for Biomaterials
- Orthopaedic Research Society
- Academy of Osseointegration
- American Society for Bone Mineral Research
- American Association for Dental Research
- International Association for Dental Research
- European Association for Osseointegration