ASSOC. PROF. DR. THANTRIRA PORNTAVEETUS
Department of Physiology, Faculty of Dentistry, Chulalongkorn University
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EDUCATION

- PhD, Pre-Clinical Dentistry Research, King's College London, UK, 2011
- MSc, Paediatric Dentistry, King's College London, UK, 2007
- Grad Dip, Prosthodontic Dentistry, Chulalongkorn University, Thailand, 2015
- DDS, Dentistry, Chulalongkorn University, Thailand, 2003

GRANTS

- Masticatory ability, cranio-oro-facial features, and oral microbiome of the patients with craniosynostosis, Thailand Science Research and Innovation (TSRI), 2021-2022.
- Study of craniofacial and oral characteristics, genotype, and oral microbiome in the patients with primary immunodeficiency, Thailand Science Research and Innovation (TSRI), 2021-2022.
- Genomics for Thai People with Oro-dental Disability, National Research Council of Thailand, 2020-2021
- Development of Small Molecular Asiatic Acid Derivatives for Bone Regeneration, The Office of National Higher Education Science Research and Innovation Policy Council, 2020-2021
- Establishment of Ethical Standards in Human Genome Research, Health Systems Research Institute (HSRI), 2020-2021
- Whole genome long-read sequencing in patients with rare diseases whose diagnoses cannot be reached by whole genome short-read sequencing, Health Systems Research Institute (HSRI), 2020-2021
- Primary Immunodeficiencies: Oral Phenotype and Genotype, Faculty of Dentistry, Chulalongkorn University, 2020-2021
- Elucidating Normal Molecular and Cellular Developmental Processes of Oro-Dental Structures Through Studies of Skeletal Dysplasias, Thailand Research Fund, 2019 - 2021
- Effects of X-ray from Dental Radiographic Devices on Changes in Human Cells, The Dental Association of Thailand, 2018-2020
- Medical Genomics Cluster, Chulalongkorn University, 2019-present
- Genomics and Precision Dentistry Research Unit (RU), Chulalongkorn University, 2018-present
- Excellence Center in Regenerative Dentistry. The Chulalongkorn Academic Advancement into Its 2nd Century Project, 2018-2021
- Genomics and Regenerative Medicine. The Chulalongkorn Academic Advancement Into Its 2nd Century Project, 2016-2020

- Craniofacial Genetics and Stem Cells Research Group (STAR), Chulalongkorn University, 2017-2019
- Studies of Characteristics and Pathomechanisms of Oro-Dental Anomalies in Rare Dysmorphic Syndromes. The Thailand Research Fund (TRF) and Office of Higher Education Commission (OHEC) Thailand (MRG6080001), 2017-2019.
- Genetic Analysis of Non-Syndromic Tooth Agenesis. The Faculty of Dentistry, Chulalongkorn University (DRF 61004), 2017-2019.
- Characterization of Oro-Dental Anomalies in Thai Patients with Kabuki Syndrome. The Faculty of Dentistry, Chulalongkorn University (DRF 60007), 2016-2018.
- Cell Behavior and Dental Characteristics of Dentinogenesis Imperfecta. The Ratchadapisek Sompoch Endowment Fund (2016)(CU-59-006-HR), Chulalongkorn University, 2016-2017
- Oro-dental Stuctures in Amelogenesis Imperfecta Caused by FAM20A Mutations. The Ratchadapisek Sompoch Endowment Fund (2016)(CU-59-064-AS), Chulalongkorn University, 2016-2017
- Mutation Analysis By Whole Exome Sequencing In Thai Patients With Amelogenesis Imperfecta. Asia Research Center of the Korea Foundation for Advanced Studies at Chulalongkorn University, 2016-2017
- A Novel Mutation in the FAM83H Gene Associated With Amelogenesis Imperfecta. The Higher Education Research Promotion and National Research University Project of Thailand, Office of the Higher Education Commission (WCU-58-024-AS), 2015-2016
- Characterization of Oro-Dental Anomalies in Rare Dysmorphic Syndromes. The Thailand Research Fund (TRF) Grant for New Researcher (TRG5780209) and Chulalongkorn University, 2014-2016
- Novel FAM20A Mutation is Associated With Amelogenesis Imperfecta. The Faculty of Dentistry, Chulalongkorn University (DRF 59008), 2015-2017.
- Cytotoxicity of Magnetic Nanoparticles on Primary Human Dental Pulp Cells. The Faculty of Dentistry, Chulalongkorn University (DRF56018), 2013-2014
- The Role of R-Spondin and Lgr in Tooth Development. The Ratchadapisek Sompoch Endowment Fund of Chulalongkorn University (RES-560-530-253), 2013-2014
- The role of OFD1 in Tooth Development. The Ratchadapisek Sompoch Endowment Fund of Chulalongkorn University (RES-560-530-246), 2013-2014
- Grants for Development of New Faculty Staff. Chulalongkorn University, 2012-2013
- W J B Houston Research Scholarship (European Orthodontic Society), 2008-2011
- The role of LRP4 in tooth and palatal rugae development. King's College Research Scholarship, 2007-2010
- International Travel Award, Dental Institute, King's College London, 2010
- Oversea Conference Grants, Niigata University, Japan and King's College London, 2010
- Academic Travel Grant, King's College London, 2008

CLINICAL SPECIALTY

Geriatric Dentistry, Prosthodontics, Genetics, and Paediatric Dentistry

RESEARCH EXPERTISE

Human and Dental Genetics, Craniofacial Development, Stem Cells and Tissue Engineering

PROFESSIONAL EXPERIENCE

- Associate Dean for Research, Innovation, and Strategic Planning (2020-Present)
- Associate Professor in Oral Biology (2017-Present)
- Vice President, Medical Staff Organization, Faculty of Dentistry, Chulalonkorn University (2019-2020)
- Academic Committee, Faculty of Dentistry, Chulalongkorn University (2012-Present)
- Director of Genomics and Precision Dentistry Research Unit, Chulalongkorn University (2018-Present)
- Secretary and Committee of Medical Genomics Cluster, Faculty of Medicine, Chulalongkorn University (2019-Present)
- Treasurer of the Thai Society of Human Genetics, Thailand (2019-Present)
- Adjunct Faculty of Dentistry, University of Health Sciences, Lohore, Pakistan (2019-Present)
- Committee of the Institutional Biosafety Committee (IBC), Faculty of Dentistry, Chulalongkorn University (2019-Present)
- Institutional review board (IRB) member. Collaborative Institutional Training Initiative (CITI) (1997 – 2023)
- Faculty Committee, Faculty of Dentistry, Chulalongkorn University (2018-Present)
- Honorary Medical Staff, Department of Pediatrics, King Chulalongkorn Memorial Hospital, Thai Red Cross Society (2016-Present)
- Secretory and Committee of Master of Science Program in Geriatric Dentistry and Special Patients Care (International Program), Faculty of Dentistry, Chulalongkorn University, Thailand (2016-Present)
- Reviewer of international journals: Scientific Reports, Calcified Tissue International, Connective Tissue Research, Frontiers in Genetics, Frontiers in Cardiovascular Medicine, Molecular Genetics and Genomics Medicine, Clinical Oral Investigations, Human Genome Variation, Oral Diseases, American Journal of Medical Genetics Part A, Annal of Human Genetics, Journal of Applied Oral Science, Asian Biomedicine, World Journal of Surgical Oncology, Khon Kaen University Dental Journal (2016-Present)
- Committee of Oral Biology Program, Faculty of Dentistry, Chulalongkorn University (2016-Present)
- Course Coordinator: Geriatric Clinics I, II, III, and IV, Fundamental Oral Biology for Oral Health, Advances in Biological Sciences in Dentistry, Faculty of Dentistry, Chulalongkorn University
- Committee of Department of Physiology, Faculty of Dentistry, Chulalongkorn University (2015-Present)
- Editorial Board, The Journal of Dental Association of Thailand (2014-Present)

- Head of Craniofacial Genetics and Stem Cells Research Group, Chulalongkorn University (2017-2018)
- Assistant Professor in Oral Biology (2015-2017)
- Lecturer and Clinic Supervisor, Faculty of Dentistry, Chulalongkorn University, Thailand (2012-Present)
- Honorary Specialty Dentist, Department of Pediatric Dentistry, Guy's Hospital, London, UK (2009-2010)
- Specialist Dentist, Department of Pediatric Dentistry, King's College, London, UK (2005-2007)
- General Dental Practitioner (2003-2005)

PUBLICATIONS

- Manaspon C, Jongwannasiri C, Chumprasert S, Sa-Ard-Iam N, Mahanonda R, Pavasant P, **Porntaveetus T**, Osathanon T. Human dental pulp stem cell responses to different dental pulp capping materials. 2021. BMC Oral Health. 21:209.
- Caengprasath N, Theerapanon T, **Porntaveetus T*,** Shotelersuk V. 2021. MBTPS2, a membrane bound protease, underlying several distinct skin and bone disorders. J Transl Med. 19:114.
- Nutchoey O, Intarak N, Theerapanon T, Thaweesapphithak S, Boonprakong L, Srijunbarl S, **Porntaveetus T***, Shotelersuk V. 2021. Phenotypic features of dentinogenesis imperfecta associated with osteogenesis imperfecta and COL1A2 mutations. Oral Surg Oral Med Oral Pathol Oral Radiol. doi: 10.1016/j.oooo.2021.01.003.
- Sriwattanapong K, Rojnueangnit K, Theerapanon T, Srichomthong C, **Porntaveetus T***, Shotelersuk V. 2021. Compound heterozygosity for a novel frameshift variant causing fatal infantile liver failure and genotype-phenotype correlation of POLG c.3286C>T variant. Int J Neonatal Screen. 7: 9.
- Sriwattanapong K, Nitayavardhana I, Theerapanon T, Thaweesapphithak S, Chantarawaratit PO, Garuyakich R, Phokaew C**, Porntaveetus T***, Shotelersuk V. 2021. Age-related dental phenotypes and tooth characteristics of FAM83H-associated hypocalcified amelogenesis imperfecta. Oral Dis. doi: 10.1111/odi.13780.
- Kanchanasevee C, Sriwattanapong K, Theerapanon T, Thaweesapphithak S, Chetruengchai W, **Porntaveetus T***, Shotelersuk V. 2020. Phenotypic and genotypic features of Thai patients with nonsyndromic tooth agenesis and WNT10A variants. Frontiers in Physiology. 11: 573214.
- Intarak N, Budsamongkol T, Theerapanon T, Chanamuangkon T, Srijunbarl A, Boonprakong L, **Porntaveetus T***, Shotelersuk V. 2020. Tooth ultrastructure of a novel COL1A2 mutation expanding its genotypic and phenotypic spectra. Oral Dis. doi: 10.1111/odi.13657.
- Rojnueangnit K, Maneechai P, Thaweekul P, Piriyanon P, Khositseth S, Ittiwut C, Chetruengchai W, Kamolvisit W, Theerapanon T, Suphapeetiporn K, **Porntaveetus T***,

Shotelersuk V. 2020. Expanding phenotypic and mutational spectra of mitochondrial HMG-CoA synthase deficiency. Eur J Med Genet. 63: 104086.

- Nitayavardhana I, Theerapanon T, Srichomthong C, Piwluang S, Wichadakul D, **Porntaveetus T***, Shotelersuk V. 2020. Four novel mutations of FAM20A in amelogenesis imperfecta type IG and review of literature for its genotype and phenotype spectra. Mol Genet Genomics. 295: 923-931.
- Shotelersuk V, Kamolvisit W, Rojvachiranonda N, Suphapeetiporn K, **Porntaveetus T***, Shotelersuk V. 2020. Severe craniofrontonasal syndrome in a male patient mosaic for a novel nonsense mutation in EFNB1. Eur J Med Genet. 63: 103924.
- Udomchaiprasertkul W, Kuptanon C, **Porntaveetus T***, Shotelersuk V. 2020. A family with homozygous and heterozygous p.Gly337Ser mutations in COL1A2. Eur J Med Genet. 63: 103896.
- Hemwong N, Phokaew C, Srichomthong C, Tongkobpetch S, Srilanchakone K, Supornsilchai V, Suphapeetiporn K, **Porntaveetus T*,** Shotelersuk V. 2020. A patient with combined pituitary hormone deficiency and osteogenesis imperfecta associated with mutations in LHX4 and COL1A2. J Adv Res. 21: 121-127.
- Manaspon C, Boonprakong L, **Porntaveetus T**, Osathanon T. 2020. Preparation and characterization of Jagged1-bound fibrinogen-based microspheres and their cytotoxicity against human dental pulp cells. J Biomat Appl. 34: 1105-1113.
- Manaspon C, Thaweesapphithak S, Osathanon T, Suphapeetiporn K, **Porntaveetus T***, Shotelersuk V. 2019. A novel de novo mutation substantiates KDF1 as a gene causing ectodermal dysplasia. Br J Dermatol. 181: 419-420.
- Nowwarote N, Osathanon T, Kanjana K, Theerapanon T, **Porntaveetus T***, Shotelersuk V. 2019. Decreased osteogenic activity and mineralization of alveolar bone cells from a patient with amelogenesis imperfecta and FAM83H 1261G>T mutation. Genes and Dis. 6: 391-397.
- Budsamongkol T, Intarak N, Theerapanon T, Yodsanga S, **Porntaveetus T***, Shotelersuk V. 2019. A novel mutation in COL1A2 leads to osteogenesis imperfecta/Ehlers-Danlos overlap syndrome with brachydactyly. Genes and Dis. 6: 138-146.
- Meguro F, **Porntaveetus T**, Kawasaki M, Kawasaki K, Yamada A, Kakihara Y, Saeki M, Tabeta K, Kessler JA, Maeda T, Ohazama A. 2019. Bmp signaling in molar cusp formation. Gene Expr Patterns. 32: 67-71.
- Intarak N, Theerapanon T, Thaweesapphithak S, Suphapeetiporn K, **Porntaveetus T***, Shotelersuk V. Genotype-phenotype correlation and expansion of orodental anomalies in LTBP3-related disorders. 2019. Mol Genet Genomics. 294: 773-787.
- Sinthuwiwat T, Ittiwut C, **Porntaveetus T***, Shotelersuk V. Female-restricted syndromic intellectual disability in a patient from Thailand. 2019. American Journal of Medical Genetics Part A. 79: 758-761.
- **Porntaveetus T***, Nowwarote N, Osathanon T, Theerapanon T, Pavasant P, Boonprakong L, Sanon K, Srisawasdi S, Suphapeetiporn K, Shotelersuk V. 2019.

Compromised alveolar bone cells in a patient with dentinogenesis imperfecta caused by DSPP mutation. Clin Oral Invest. 23: 303-313.

- Oadcharawadee N, Intarak N, Thaweesapphithak S, Boonprokong L, Srijunbarl A, **Porntaveetus T***. 2019. Effect of dentinogenesis imperfecta and osteogenesis imperfecta on the dental ultrastructures. Proceedings of RSU Research Conference (2019): 250-257.
- Kanchanasevee C, Theerapanon T, Intarak N, Pittayapat P, **Porntaveetus T***. 2019. Prevalence and pattern of tooth agenesis in non-syndromic Thai dental patients. Proceedings of RSU Research Conference (2019): 36-44.
- Kawasaki M, Kawasaki K, Meguro F, Yamada A, Ishikawa R, **Porntaveetus T**, Blackburn J, Otsuka-Tanaka Y, Saito N, Ota MS, Sharpe PT, Kessler JA, Herz J, Cobourne MT, Maeda T, Ohazama A. 2018. Lrp4/Wise regulates palatal rugae development through Turing-type reaction-diffusion mechanisms. PLoS One. 13: e0204126.
- **Porntaveetus T***, Theerapanon T, Intara N, Srichomthong C, Suphapeetiporn K, Shotelersuk V. 2018. Cole-Carpenter syndrome in a patient from Thailand. Am J Med Genet Part A. 176: 1706-1710.
- Nowwarote N, Theerapanon T, Osathanon T, Pavasant P, **Porntaveetus T***, Shotelersuk V. 2018. Amelogenesis Imperfecta: A Novel FAM83H mutation and characteristics of periodontal ligament cells. Oral Dis. 24: 1522-1531.
- **Porntaveetus T***, Abid MF, Theerapanon T, Srichomthong C, Ohazama A, Kawasaki K, Kawasaki M, Suphapeetiporn K, Sharpe PT, Shotelersuk V. 2018. Expanding the oro-dental and mutational spectra of kabuki syndrome and expression of KMT2D and KDM6A in human tooth germs. Inter J Biol Sci. 14: 381-389.
- Intarak N, Theerapanon T, Srijunbarl K, Suphapeetiporn K, **Porntaveetus T***, Shotelersuk V. 2018. Novel compound heterozygous mutations in KREMEN1 confirm it as a disease gene for ectodermal dysplasia. Br J Dermatol. 179: 758-760.
- **Porntaveetus T***, Osathanon T, Nowwarote N, Pavasant P, Srichomthong C, Shotelersuk. A, Suphapeetiporn K. 2018. Dental properties, ultrastructure, and pulp cells associated with a novel DSPP mutation. Oral Dis. 24: 619-627.
- Intarak N, Theerapanon T, Ittiwut C, Suphapeetiporn K, **Porntaveetus T***, Shotelersuk V. 2018. A novel PITX2 mutation in non-syndromic dental anomalies. Oral Dis. 24: 611-618.
- Budsamongkol T, Intarak N, Srijunbarl A, Boonprakong L, **Porntaveetus T***. 2018. Ultrastructural characteristics of dental hard tissues associated with osteogenesis imperfecta. The International Journal of Oral Health 14: 32-41.
- Nitayavardhana I, Intarak N, Thaweesapphithak S, Boonprakong L, **Porntaveetus T***. 2018. Ultrastructures of enamel, dentin, and cementum associated with hypocalcified amelogenesis imperfecta. The International Journal of Oral Health. 14: 22-31.

- Tongkobpetch S, Limpaphayom N, Sangsin A, **Porntaveetus T**, Suphapeetiporn K, Shotelersuk V. 2017. A novel de novo COL1A1 mutation in a Thai boy with osteogenesis imperfecta born to consanguineous parents. Genet Mol Biol. 40:763-767.
- **Porntaveetus T**, Srichomthong C, Shotelersuk V, Suphapeetiporn K. 2017. Monoallelic FGFR3 and biallelic ALPL mutations in a Thai girl with hypochondroplasia and hypophosphatasia. Am J Med Genet Part A. 173:2747-2752.
- **Porntaveetus T**, Srichomthong C, Ohazama A, Shotelersuk. A, Suphapeetiporn K. 2017. A novel GJA1 mutation in oculodentodigital dysplasia with extensive loss of enamel. Oral Diseases. 23: 795-800.
- Ajkidkarn P, Patcharee R, Injumpa W, **Porntaveetus T**, Insin N. 2017. Synthesis, characterization, drug release and transdentinal delivery studies of magnetic nanocubes coated with biodegradable poly(2-(dimethyl amino) ethyl methacrylate). Journal of Magnetism and Magnetic Materials. 427: 235-240.
- Watanabe M, Kawasakiacd K, Kawasakia M, **Portaveetus T**, Oommen S, Blackburn J, Nagai T, Kitamura A, Nishikawa A, Kodama K, Takagi R, Maeda Sharpe T, Ohazama T. 2016. Spatio-temporal expression of Sox genes in murine palatogenesis. 21: 111-118.
- **Porntaveetus T**, Srichomthong C, Suphapeetiporn K, Shotelersuk V. 2015. A novel PCCB mutation in a Thai patient with propionic academia identified by exome sequencing. Human Genome Variation 2: 15033.
- Blackburn J, Kawasaki K, **Porntaveetus T**, Kawasaki M, Otsuka-Tanaka Y, Miake Y, et al. 2015. Excess NF-kB induces ectopic odontogenesis in embryonic incisor epithelium. Journal of Dental Research. 94: 121-8.
- Kawasaki M, **Porntaveetus T**, Kawasaki K, Oommen S, Otsuka-Tanaka Y, Hishinuma M, Nomoto T, Maeda T, Takubo K, Suda T, Sharpe PT, Ohazama A., 2014. R-spondins/Lgrs expression in tooth development. Developmental Dynamics. 243: 844-51.
- Khonsari RH, Ohazama A, Raouf R, Kawasaki M, Kawasaki K, **Porntaveetus T**, Ghafoor S, Hammond P, Suttie M, Odri GA, Sandford RN, Wood JN, Sharpe PT. 2013. Multiple postnatal craniofacial anomalies are characterized by conditional loss of polycystic kidney disease 2 (Pkd2). Human Molecular Genetics. 22: 1873-1885.
- Oommen S, Francois M, Kawasaki M, Murrell M, Kawasaki K, **Porntaveetus T**, Ghafoor S, Young NJ, Okamatsu Y, McGrath J, Koopman P, Sharpe PT, Ohazama A. 2012. Cytoplasmic plaque formation in hemidesmosome development is dependent on SoxF transcription factor function. PLoS One. 7: e43857.
- Economou AD, Ohazama A, **Porntaveetus T**, Sharpe PT, Kondo S, Basson MA, Gritli-Linde A, Cobourne MT, Green JB. 2012. Periodic stripe formation by a Turing mechanism operating at growth zones in the mammalian palate. Nature Genetics. 44: 348-51.
- Kawasaki K, **Porntaveetus T**, Oommen S, Ghafoor S, Kawasaki M, Otsuka-Tanaka Y, Blackburn J, Kessler JA, Sharpe PT, Ohazama A. 2012. Bmp signalling in filiform tongue papillae development. Archives of Oral Biology. 57: 805-13.

- **Porntaveetus T**, Ohazama A, Choi HY, Herz J, Sharpe PT. 2012. Wnt signaling in the murine diastema. European Journal of Orthodontics. 34: 518-24.
- Kantaputra, P., Tanpaiboon, P., **Porntaveetus, T**., Ohazama, A., Sharpe, P.T., Rauch, A., Hussadaloy, A., Thiel, CT. 2011. The smallest teeth in the world are caused by mutations in the PCNT gene. American Journal of Medical Genetics Part A. 155: 1398-1403.
- **Porntaveetus T**, Otsuka-Tanaka Y, Basson MA, Moon AM, Sharpe PT, Ohazama A. 2011. Expression of fibroblast growth factors (Fgfs) in murine tooth development. Journal of Anatomy. 21: 534-543.
- **Porntaveetus T**, Oommen S, Sharpe PT, Ohazama A. 2010. Expression of Fgf signalling pathway related genes during palatal rugae development in the mouse. Gene Expression Patterns. 10: 193-198.
- Ohazama A, **Porntaveetus T**, Ota MS, Herz J, Sharpe PT. 2010. Lrp4: A novel modulator of extracellular signaling in craniofacial organogenesis. American Journal of Medical Genetics Part A. 152A: 2974-2983.
- Ohazama A, Blackburn J, **Porntaveetus T**, Ota MS, Choi HY, Johnson EB, Myers P, Oommen S, Eto K, Kessler JA, Kond T., Fraser GJ, Streelman JT, Pardiñas UFJ, Tucker AS, Ortiz PE, Charles C, Viriot L, Herz J, Sharpe PT. 2010. A role for suppressed incisor cuspal morphogenesis in the evolution of mammalian heterodont dentition. Proceedings of the National Academy of Sciences. 107: 92-97.
- Blackburn J, Ohazama A, Porntaveetus T, Herz J, Sharpe PT. 2009. Mammalian incisors retain a cuspal morphogenesis programme. Journal of Vertebrate Paleontology. 29: 65A.
- Ohazama A, Johnson EB, Ota MS, Choi HY, **Porntaveetus T**, Oommen S, Itoh N, Eto, K, Gritli-Linde A, Herz J, Sharpe PT. 2008. Lrp4 modulates extracellular integration of cell signaling pathways in development. PLoS One. 3: e4092.

BOOK

- Thantrira Porntaveeuts. Genomics in Clinical Dentistry. Bangkok. V Plus Group (Thailand); 2019. ฑัณฑริรา พรทวีทัศน์. จีโนมิกส์ทางทันตกรรมคลินิก. กรุงเทพมหานคร: วีพลัส กรุ๊ป (ไทยแลนด์) จำกัด; 2562.

ACADEMIC CONFERENCES AND PRESENTATIONS

- Genomics in Mendelian Medicine, clinical applications, technical issues, and new discoveries. Genomics Thailand – TSRI – Chulalongkorn University – King Chulalongkorn Memorial Hospital, Thailand (12/2020)
- The 7th China-ASEAN Forun on Dentistry. Invited Reviewer for the 4th China-ASEAN Excellent Young Dental Student Forum, Guangxi Stomatological Association, China (11/2020)

- Remineralizing agents differentially affect amelogenesis imperfecta enamel microhardness, First runner-up IADR Unilever Hatton Award, IADR-SEA-SEAADE 2020 Annual Scientific meeting, Thailand (11/2020)
- Developmental anomalies of teeth and treatment modalities, Invited speaker, Thammasart University (11/2020)
- Dentinogenesis imperfecta: dentin ultrastructure and characteristic of dental adhesive application. The Dental Association Thailand-Oral Science Research, Bangkok, Thailand (12/2019)
- Precision medicine and dentistry: Rare diseases. Keynote speaker. The 1st UHS-International Dental Conference, Lahore, Pakistan (10/2019)
- Effect of dentinogenesis imperfecta and osteogenesis imperfecta on the dental ultrastructures. RSU International Research Conference, Bangkok, Thailand (04/2019)
- Prevalence and pattern of tooth agenesis in non-syndromic Thai dental patients. RSU International Research Conference, Bangkok, Thailand (04/2019)
- A novel de novo mutation substantiates KDF1 as a gene causing ectodermal dysplasia. The 17th Internation Scientific Conference of the Dental Faculty Consortium of Thailand, Khon Kaen, Thailand (07/2019)
- Non-syndromic dental anomalies caused by PITX2 mutation. The 17th INternation Scientific Conference of the Dental Faculty Consortium of Thailand, Khon Kaen, Thailand (07/2019)
- Whole exome sequencing reveals a novel de novo mutation in EDAR gene related to non-syndromic tooth agenesis. The 17th International Scientific Conference of the Dental Faculty Consortium of Thailand, Khon Kaen, Thailand (07/2019)
- Elucidating normal molecular and cellular developmental processes of oro-dental structures through studies of genetic disorders. Invited speaker. The 8th Japan-Thailand-Korea Joint Symposium, Bangkok, Thailand (11/2018)
- Ultrastructural characteristics of dental hard tissues associated with osteogenesis imperfecta. The 13th International Conference of the Asian Academy of Preventive Dentistry, Khon Kaen, Thailand (11/2018)
- Ultrastructures of enamel, dentin, and cementum associated with hypocalcified amelogenesis imperfecta. The 13th International Conference of the Asian Academy of Preventive Dentistry, Khon Kaen, Thailand (11/2018)
- Alveolar bone cells associated with dentinogenesis imperfecta and *dspp* mutation. The FDI World Dental Congress, Buenos Aires, Argentina (9/2018)
- Monoallelic *fgfr3* and biallelic *alpl* mutations in a thai girl with hypochondroplasia and hypophosphatasia. The 5th Tri-University Consortium on Oral Science and Education, Beijing, China (10/2016)
- Precision medicine. dental and oral disorders, precision medicine: coming of age, Chulalongkorn Hospital, Thailand (06/2016), Invited speaker
- Exome sequencing identified a novel *pccb* mutation in a thai patient with propionic acidemia, FDI 2015 Annual World Dental Congress, Bangkok, Thailand (09/2015)

- A novel *pccb* mutation associated with propionic acidemia and abnormal tooth development, SEAADE – IADR, Bali, Indonesia (08/ 2015)
- The role of *Ofd1* in enamel formation, international association of dental research, Cape Town, South Africa (06/2014)
- The role of *R-spondin* and *Lgr* in tooth development, The 3rd Tri-University Consortium on Oral Science and Education, Tokyo, Japan (11/2013)
- The role of *Ofd1* in enamel formation, 2013 Thailand International Dental Congress, Bangkok, Thailand (11/2013)
- Extracellular integration of cell signaling during tooth development, The First Japan-Thailand-Korea Joint Symposium on Translational Research in Oral Sciences, Bangkok, Thailand (11/2012)
- *Lrp4* in craniofacial ectodermal organ development, 10th TMD Conference, Berlin, Germany (09/2010)
- Diverse roles of *Lrp4* in craniofacial ectodermal organ development, Graduate Research Day, King's College London, UK (03/2010)
- The Role of *Lrp4* in Murine Palatal Rugae Development, International Symposium, Niigata, Japan (02/2010)
- The *Lrp4-Wise* interaction and cell signalling integration in murine palatal rugae development, 22nd Head Group Meeting, University College London, UK (01/2010)
- The role of *Lrp4* and *Wise* in palatal rugae development, Graduate Research Day, King's College London, UK (03/2009)
- *Lrp4* regulates multiple common signaling pathways in tooth and palate development, The Pan European Federation – Association for Dental Research (PEF IADR) Conference, London, UK (09/2008)
- *Lrp4*: a Wnt/Bmp modulator regulating tooth and palate development, Asia Pacific Dental Conference, Bangkok, Thailand (05/2008)

AWARDS

- Chulalongkorn University Award for the Best Research Unit, Genomics and Precision Dentistry Research Unit, Thailand (11/2020).
- The Highest Number of International Publication in 2019: The First Runner-up. Faculty of Dentistry, Chulalongkorn University, Bangkok., Thailand (10/2020)
- The Highest Number of International Publication in 2019: The First Runner-up. Faculty of Dentistry, Chulalongkorn University, Bangkok., Thailand (10/2020)
- Undergraduate student research awards: The Second Runner up. Faculty of Dentistry, Chulalongkorn University, Bangkok., Thailand (10/2020)
- Chulalongkorn University Award for National Researcher 2019, Bangkok, Thailand (09/2019).
- Excellence Poster Presentation Award. The 18th Thailand Research Fund-Office of the Higher Education Commission (TRF-OHEC) Annual Congress, Chonburi, Thailand (01/2019)

- The Highest Number of International Publication in 2018: the first runner up. Faculty of Dentistry, Chulalongkorn University, Bangkok., Thailand (02/2019)
- The Publication with Highest Impact Factor in 2018: The First Runner-up. Faculty of Dentistry, Chulalongkorn University, Bangkok., Thailand (02/2019)
- The First Runner-up Poster Presentation Award. The 17th International Scientific Conference of the Dental Faculty Consortium of Thailand (Team's researcher), Khon Kaen, Thailand (07/2019)
- The Second Runner-up Oral Presentation Award. The 17th International Scientific Conference of the Dental Faculty Consortium of Thailand (Team's researcher), Khon Kaen, Thailand (07/2019)
- Teacher Award, Faculty of Dentistry, Chulalongkorn University (2016)

PROFESSIONAL MEMBERSHIPS

- The Society of Human Genetics (Thailand)
- The International Association for Dental Research
- The Dental Council of Thailand
- The Dental Association of Thailand
- Thai Association of Dental Implantology
- Thai Prosthodontic Association

REVIEWER

Scientific Reports, Calcified Tissue International, Connective Tissue Research, Frontiers in Genetics, Frontiers in Cardiovascular Medicine, Molecular Genetics and Genomics Medicine, Clinical Oral Investigations, Human Genome Variation, Oral Diseases, American Journal of Medical Genetics Part A, Annal of Human Genetics, Journal of Applied Oral Science, Asian Biomedicine, World Journal of Surgical Oncology, Khon Kaen University Dental Journal

EDITOR

Frontiers in Dental Medicine, Journal of the Dental Association of Thailand

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