



ชื่อ-นามสกุล: อาจารย์ ดร.อนุพงศ์ ทองกล้า สงค์สอาด	Name: Lecturer Dr.Anupong Thongklam Songsaad
ตำแหน่งทางวิชาการ: อาจารย์	Title: Lecturer
สังกัด: ภาควิชากายวิภาคศาสตร์ คณะทันตแพทยศาสตร์ มหาวิทยาลัยมหิดล	Affiliate: Department of Anatomy, Faculty of Dentistry, Mahidol University
วุฒิการศึกษา: วท.บ. (ชีววิทยา, เกียรตินิยมอันดับหนึ่ง) ปร.ด. (กายวิภาคศาสตร์และชีววิทยาโครงสร้าง)	Education: B.Sc. (Biology, 1 <sup>st</sup> Class Honors) Ph.D. (Anatomy and Structural Biology)
ความเชี่ยวชาญ: เซลล์ต้นกำเนิด, กายวิภาคศาสตร์	Expertise: Stem Cells, Anatomy
โทรศัพท์: 02-200-7801	Phone: 02-200-7801
อีเมล: Anupong.son@mahidol.ac.th	E-mail: Anupong.son@mahidol.ac.th

### Work Experience

Years	Position	Affiliate
June 2021 - present	Lecturer	Department of Anatomy, Faculty of Dentistry, Mahidol University, Thailand

### Awards & Honors

Years	Awards & Honors	Status
2023	2023 Travel Award supported by the 2023 International Society for Stem Cells Research (ISSCR) Travel Awards Fund, 23 <sup>rd</sup> Annual meeting, June 14 <sup>th</sup> -17 <sup>th</sup> , 2023. Boston Convention and Exhibition Center, Boston, Massachusetts, United States of America.	Presenter
	Invited speaker for Mahidol Dental Research Day 2023, May 31 <sup>st</sup> , 2023, Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Speaker
	Excellence Award, Undergraduate program: Basic Science, Student Research Competition, Faculty of Dentistry, Mahidol University, 2023, May 31 <sup>st</sup> , 2023, Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Advisor
	Outstanding Award, Undergraduate program: Basic Science, Student Research Competition 2023, DTIS 441 Research Project, March 16 <sup>th</sup> , 2023, Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Advisor

2022	The 1 <sup>st</sup> prize Award of oral presentation of research competition, Mahidol Dental Research Day 2022, June 1 <sup>st</sup> , 2022, Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Advisor
	The 1 <sup>st</sup> runner-up Award of oral presentation of research competition, Mahidol Dental Research Day 2022, June 1 <sup>st</sup> , 2022, Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Presenter

### Research Grants

Years	Research Grants	Status
2023	Research grant from the income of the Mahidol University, Fiscal year 2023, MU's Strategic Research Fund, MU starter/project number: MU-SRF-ST-07A/66	Principle Investigator
	Research grant from the income of the Faculty of Dentistry Mahidol University, Fiscal year 2023, young researchers grant/project number: DTRS-YG-2023-04	Principle Investigator
2022	Research grant from the income of the Faculty of Dentistry Mahidol University, Fiscal year 2022, pilot grant/project number: DTRS-PG-2022-07	Principle Investigator

### Abstract at National Conference

Years	Abstract at National Conference	Authorship
2023	Pongplanchai, N., Leelarith, V., Ruetajetjaroen, S., Thongsuk, A., Ruangsawasdi, N., Thonabulsombat, C., <b>Songsaad, A.</b> The potential of alpha-mangostin in enhancing neuronal differentiation of human stem cells from apical papilla. Oral presentation's abstract of undergraduate research competition 2023, May 31 <sup>st</sup> , 2023. Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Corresponding author
	Thongsuk, A., Thairat, S., Ruangsawasdi, N., Thonabulsombat, C. <b>Songsaad, A.</b> Neurogenic maturation of neural stem cells derived human stem cells from apical papilla under 3D-neurosphere formation using chick embryonic dorsal root ganglia-conditioned medium. Oral presentation's abstract of 45 <sup>th</sup> Anatomy Association of Thailand Annual Conference, May 2 <sup>nd</sup> -5 <sup>th</sup> , 2023. Suan bua hotel & resort, Chiang mai, Thailand.	Corresponding author
2022	<b>Songsaad, A.</b> , Thairat, S., Kongamornpinyo, J., Seemaung, P., Thongsuk, A., Ruangsawasdi, N., Thonabulsombat, C. Human stem cells from apical papilla: a potential alternative source to generate functionally 3D neural stem cells. Oral presentation's abstract of Mahidol Dental Research Day 2022 (MDRD 2022), June 1 <sup>st</sup> , 2022. Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	First author

	Kongamornpinyo, J., <u>Songsaad, A.</u> , Ruangsawasdi, N., Somana, J., Thonabulsombat, C. Potential effects of Rebaudioside A on enhancing neuronal differentiation of human stem cells from apical papilla. Oral presentation's abstract of Mahidol Dental Research Day 2022 (MDRD 2022), June 1 <sup>st</sup> , 2022. Faculty of Dentistry, Mahidol University, Bangkok, Thailand.	Co-author
	<u>Songsaad, A.</u> , Thairat, S., Seemaung, P., Ruangsawasdi, N., Thonabulsombat, C. The immunofluorescence and intracellular calcium oscillation profiling of three-dimensional neural progenitor cells induce from human stem cells from apical papilla. Oral presentation's abstract of 44 <sup>th</sup> Anatomy Association of Thailand Annual Conference, May 10 <sup>th</sup> -12 <sup>th</sup> , 2022. Topland hotel & convention centre, Phitsanulok, Thailand.	First author
2021	Thongsuk, A., <u>Songsaad, A.</u> , Ratnarathorn, N., Sumranwanich, T., Ruangsawasdi, N., Thonabulsombat, C. Neuronal differentiation of human dental pulp stem cells following pre-treatment of ergothioneine. Oral presentation's abstract of the undergraduate senior project, May 12 <sup>th</sup> -13 <sup>th</sup> , 2021. Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand.	Co-author
	Thamjamrassri, P., <u>Songsaad, A.</u> , Ratnarathorn, N., Sumranwanich, T., Intarapat, S., Thonabulsombat, C. Neuronal differentiation of human stem cells from apical papilla using conditioned medium of embryonic chick dorsal root ganglia. Oral presentation's abstract of the undergraduate senior project, May 12 <sup>th</sup> -13 <sup>th</sup> , 2021. Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand.	Co-author
	Batkaew, K., <u>Songsaad, A.</u> , Sumranwanich, T., Somana, J., Ruangsawasdi, N., Thonabulsombat, C. Effect of stevioside on neuronal differentiation of human dental pulp stem cells. Oral presentation's abstract of the undergraduate senior project, May 12 <sup>th</sup> -13 <sup>th</sup> , 2021. Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand.	Co-author
2016	<u>Songsaad, A.</u> , Limpachayaporn, P., Charoenpanich, A. The effect of <i>Annona muricata</i> leaf's crude extract on anti-cancer activity of human lymphocyte to against human cervical cancer cells. Oral presentation's abstract of the 11 <sup>th</sup> conference on science and technology for youths, June 9 <sup>th</sup> -11 <sup>th</sup> , 2016. Bangkok International Trade and Exhibition, Bangkok, Thailand.	First author

## Abstract at International Conference

Years	Abstract at International Conference	Authorship
2023	<u>Songsaad, A.</u> , Thongsuk, A., Thairat, S., Ruangsawasdi, N., Thonabulsombat, C. The intracellular calcium oscillation profiling of neural stem cells derived human stem cells from apical papilla under three-dimensional neurospheres induction. Poster presentation's abstract of International Society for Stem Cells Research (ISSCR), 23 <sup>rd</sup> Annual meeting, June 14 <sup>th</sup> -17 <sup>th</sup> , 2023. Boston Convention and Exhibition Center, Boston, Massachusetts, United States of America.	First author
	Thongsuk, A., <u>Songsaad, A.</u> , Gonmanee, T., Srikawnawan, W., Lumbikananda, S., Ruangsawasdi, N., Thonabulsombat, C. Enhancement of neuronal differentiation of human dental pulp stem cells induced by Ergothioneine. Poster presentation's abstract of International Society for Stem Cells Research (ISSCR), 23 <sup>rd</sup> Annual meeting, June 14 <sup>th</sup> -17 <sup>th</sup> , 2023. Boston Convention and Exhibition Center, Boston, Massachusetts, United States of America.	Co-author
2021	Srikawnawan W., <u>Songsaad A.</u> , Lumbikananda S., Intarapat S. , Phruksaniyom C., Ruangsawasdi N., Kijamanmith K., Thonabulsombat C. Morphological investigation of neuronal differentiation of human dental pulp stem cells induced by Rho kinase inhibitor. Poster presentation's abstract of American Society for Cell Biology (ASCB) and European Molecular Biology Organization (EMBO), CELL BIO virtual meeting, December 1 <sup>st</sup> -10 <sup>th</sup> , 2021.	Co-author
	Seemaung P., <u>Songsaad A.</u> , Srikawnawan W., Phruksaniyom C., Gonmanee T., Kijamanmith K., Ruangsawasdi N., Thonabulsombat C. Neuronal differentiation of human dental pulp stem cells induced by curcumin treatment. Poster presentation's abstract of American Society for Cell Biology (ASCB) and European Molecular Biology Organization (EMBO), CELL BIO virtual meeting, December 1 <sup>st</sup> -10 <sup>th</sup> , 2021.	Co-author
	<u>Songsaad, A.</u> , Koh, J., Gonmanee, T., Srikawnawan, W., Lumbikananda, S., Sritanaudomchai, H., Ruangsawasdi, N., Thonabulsombat, C. Neuronal differentiation of human stem cells from apical papilla using rat brainstem slices conditioned medium treatment. Poster presentation's abstract of International Society for Stem Cells Research (ISSCR), 19 <sup>th</sup> Annual meeting, June 21 <sup>st</sup> -26 <sup>th</sup> , 2021. Hamburg, Germany. (Virtual meeting).	First author
2020	<u>Songsaad, A.</u> , Gonmanee, T., Phruksaniyom, C., Ruangsawasdi, N., Srikawnawan, W., Lumbikananda, S., Intarapat, S., Thonabulsombat, C. Resveratrol promotes	First author

	enrichment of neuroprogenitor cells induction of human stem cells from apical papilla. Poster presentation's abstract of International Society for Stem Cells Research (ISSCR), 18 <sup>th</sup> Annual meeting, June 23 <sup>rd</sup> -27 <sup>th</sup> , 2020. Boston, Massachusetts, United States of America. (Virtual meeting).	
2019	<b><u>Songsaad, A.</u></b> Saiprayoung, K., Srikawnawan, W., Gonmanee, T., Phruksaniyom, C., Lumbikananda, S., Intarapat, S., Ruangwasadi, N., Thonabulsombat, C. Neuronal differentiation of human stem cells from apical papilla induced by embryonic chick auditory brainstem slices conditioned medium. Poster presentation's abstract of ISSCR/KSSCR INTERNATIONAL SYMPOSIUM 2019, September 26 <sup>th</sup> -27 <sup>th</sup> , 2019. Grand Hilton Seoul Hotel, Seoul, South Korea.	First author
	<b><u>Songsaad, A.</u></b> Kongnukool, S., Srikawnawan, W., Gonmanee, T., Phruksaniyom, C., Lumbikananda, S., Intarapat, S., Ruangwasadi, N., Thonabulsombat, C. Survival of embryonic chick dorsal root ganglion neurons following culture with human dental pulp stem cells conditioned medium. Poster presentation's abstract of International Society for Stem Cells Research (ISSCR), 17 <sup>th</sup> Annual meeting, June 26 <sup>th</sup> -29 <sup>th</sup> , 2019. Los Angeles Convention Centre, Los Angeles, California, United States of America.	First author
2018	<b><u>Songsaad, A.</u></b> Gonmanee, T., Sritanaudomchai, H., Vongsavan, K., Intarapat, S., Thonabulsombat, C. Neuronal differentiation of neurosphere-derived human dental pulp stem cells following co-culture with chicken auditory brainstem slices. Poster presentation's abstract of International Society for Stem Cells Research (ISSCR), 16 <sup>th</sup> Annual meeting, June 20 <sup>th</sup> -23 <sup>rd</sup> , 2018. Melbourne Convention and Exhibition Centre, Melbourne, Australia.	First author

#### Proceeding at National Conference

Years	Proceeding at National Conference	Authorship
2022	Seemaung, P., <b><u>Songsaad, A.</u></b> Srikawnawan, W., Phruksaniyom, C., Gonmanee, T., Kij samanmith, K., Ruangwasadi, N., Thonabulsombat, C. Neuronal differentiation of human dental pulp stem cells induced by curcumin treatment. Poster presentation's proceeding of 44 <sup>th</sup> Anatomy Association of Thailand Annual Conference, May 10 <sup>th</sup> -12 <sup>th</sup> , 2022.	Co-author

## Proceeding at International Conference

Years	Proceeding at International Conference	Authorship
2022	Amarin, T., <u>Songsaad, A.</u> , Gonmanee, T., Ruangwasadi, N., Srikawnawan, W., Lumbikananda, S., Janebodin, K., Thonabulsombat, C. The potential of ergothioneine in enhancing the neuronal differentiation of human dental pulp stem cells. Poster presentation's proceeding of the 17 <sup>th</sup> International Symposium of The Protein Society of Thailand, November 9 <sup>th</sup> -11 <sup>th</sup> , 2022. Khum Kham International Convention Centre Chiang mai, Chiang mai, Thailand.	Co-author

## International Publications

Years	International Publications	Authorship
2022	Srikawnawan, W., <u>Songsaad, A.</u> , Gonmanee, T., Thonabulsombat, C., Phruksaniyom, C., White, K. L., & Ruangwasadi, N. (2022). Rho kinase inhibitor induced human dental pulp stem cells to differentiate into neurons. <i>Life Sciences</i> , 300, 120566.	Co-author
	Arayapisit, T., Vorakulpipat, C., Srimeekarn, N., <u>Songsaad, A.</u> , & Chantadol, V. (2022). Anatomical variations of the anterior belly of the digastric muscle in Thai cadavers: a cross-sectional study. <i>Journal of International Society of Preventive &amp; Community Dentistry</i> , 12(2), 171.	Co-author
2020	<u>Songsaad, A.</u> , Gonmanee, T., Ruangwasadi, N., Phruksaniyom, C., & Thonabulsombat, C. (2020). Potential of resveratrol in enrichment of neural progenitor-like cell induction of human stem cells from apical papilla. <i>Stem Cell Research &amp; Therapy</i> , 11(1), 1-14.	First author
	Gonmanee, T., Sritanaudomchai, H., Vongsavan, K., Faisaikarm, T., <u>Songsaad, A.</u> , White, K. L., & Thonabulsombat, C. (2020). Neuronal differentiation of dental pulp stem cells from human permanent and deciduous teeth following coculture with rat auditory brainstem slices. <i>The Anatomical Record</i> , 303(11), 2931-2946.	Co-author