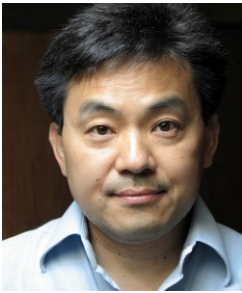


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Current Position: Technologist

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Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Electronic Engineering, Yonsei University, Seoul, Korea	B.S.	1979-1987	Biological Sciences
Department of Neurobiology, Anatomy and Cell Sciences, University of Pittsburgh, Pittsburgh, PA, USA	Ph.D.	1987-1995	Molecular Neurobiology
Marine Biological Laboratory (MBL), Woods Hole, MA, USA.	Research Assistant	1992-1994	Molecular Neurobiology
Andrus Gerontology Centre and the Department of Neurology, University of Southern California, Los Angeles, CA, USA	Postdoc	1995-1999	Gene Expression in the Central Nervous System
Stazione Zoologica Anton Dohrn (Laboratory of Biochemistry and Molecular Biology, Laboratory of Neurobiology, Laboratory of Signal Transduction, Laboratory of Biology and Evolution of Marine Organisms, BEOM), Naples, Italy	Researcher / Fellow	1999-2017	Signal Transduction and Cell Biology
Stazione Zoologica Anton Dohrn (Biology and Evolution of Marine Organisms, BEOM)	Technologist	2017-present	Signal Transduction and Cell Biology

Publications

Author of 34 publications on ISI-journals and 5 book chapters

Selected publications

- Musacchia F, Vasilev F, Borra M, Biffali E, Sanges R, Santella L, Chun JT. (2017) De novo assembly of a transcriptome from the eggs and early embryos of *Astropecten aranciacus*. PLoS One 12:e0184090.
- Santella L, Limatola N, Chun JT (2015) Calcium and actin in the saga of awakening oocytes. Biochem. Biophys. Res. Commun. 460:104-113.
- Limatola N, Chun JT, Kyojuka K, Santella L (2015) Novel Ca²⁺ increases in the maturing oocytes of starfish during the germinal vesicle breakdown. Cell Calcium 58:500-510.
- Chun JT, Limatola N, Vasilev F, and Santella L (2014). Early events of fertilization in sea urchin eggs are sensitive to actin-binding organic molecules. Biochem. Biophys. Res. Commun. 450:1166-1174.
- Chun JT, Vasilev F, and Santella L (2013) Antibody against the actin-binding protein depactin attenuates Ca²⁺ signaling in starfish eggs. Biochem. Biophys. Res. Commun. 441:301-307.
- Santella L and Chun JT (2011). Actin, more than just a housekeeping protein at the scene of fertilization. Sci. China Life Sci. 54:733-743.
- Chun JT, Puppo A, Gragnaniello G, Garante E, and Santella L (2010). The biphasic increase of PIP2 in the fertilized eggs of starfish: new roles for actin polymerization and Ca²⁺ signaling. PLoS ONE 5:e14100.
- Chun JT and Santella L (2009). Roles of the actin-binding proteins in intracellular Ca²⁺ signaling. Acta Physiologica 195:61-70.
- Chun JT and Santella L. (2009). The actin cytoskeleton in meiotic maturation and fertilization of starfish eggs. Biochem. Biophys. Res. Commun. 384:141-143.
- Puppo A, Chun JT, Gragnaniello G, Garante E, and Santella L (2008). Alteration of the cortical actin cytoskeleton deregulates Ca²⁺ signaling, monospermic fertilization, and sperm entry. PLoS ONE 3:e3588.
- Kyojuka K, Chun JT, Puppo A, Gragnaniello G, Garante E, and Santella L (2008). Actin cytoskeleton modulates calcium signalling during the maturation of starfish oocytes. Dev. Biol. 320:426-435.
- Santella L, Puppo A, and Chun JT (2008). The role of the actin cytoskeleton in calcium signaling in starfish oocytes. Int. J. Dev. Biol. 52:571-584.

Book chapters

- Chun JT, Vasilev F, Limatola N, Santella L (2018) Fertilization in Starfish and Sea Urchin: Roles of Actin. In: Kloc M and Kubiak JZ (eds.) Marine Organisms as Model Systems, Series Title: Results and Problems in Cell Differentiation, Springer Nature.
- Santella L, Limatola N, and Chun JT (2014) Actin Cytoskeleton and Fertilization in Starfish Eggs. In: H. Sawada. (eds.) Sexual Reproduction in Animals and Plants, Springer Verlag, Japan, ISBN 978-4-43154588-0

- Chun JT and Santella L. (2013) Intracellular Calcium Waves. In: Lennarz, W.J. and Lane, M.D. (eds.) The Encyclopedia of Biological Chemistry, Vol. 2, pp. 640-647. Academic Press, Waltham, MA, USA.
- Santella L and Chun JT (2013) Calcium Signaling by Cyclic ADP-Ribose and NAADP. In: Lennarz, W.J. and Lane, M.D. (eds.) The Encyclopedia of Biological Chemistry, Vol. 1, pp. 331-336. Academic Press, Waltham, MA, USA.
- Chun JT and Santella L (2007). Calcium and fertilization. In: "Calcium, A Matter of Life or Death". (Ed. by J. Krebs and M. Michalak). pp.425-470, Elsevier B.V., Amsterdam, The Netherlands.