

## DMITRY LIM, PhD

## Curriculum Vitae

<b>PERSONAL DATA</b>	
<b>Born</b>	Kazan, Russia, 29/10/1968
<b>Home Address</b>	Via Vecchia 14, 35127, Padova, Italy
<b>Work Address</b>	Venetian Institute of Molecular Medicine (VIMM), Via Orus 2, 35129, Padova, Italy
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<b>CURRENT POSITION</b>	
<b>January 2007 - present</b>	<b>Postdoctoral fellow. Marie Curie Fellowship</b> granted in frame of the NeuroNE program, Laboratory of Prof. Ernesto Carafoli, Venetian Institute of Molecular Medicine (VIMM), Padova, Italy.
<b>POSITIONS HELD</b>	
<b>2004 - 2006</b>	<b>Postdoctoral fellow</b> , the Laboratory of Prof. Ernesto Carafoli, Department of Biochemistry, University of Padova, Italy.
<b>EDUCATION</b>	
<b>1999 - 2003</b>	<b>PhD program of The Open University of London</b> in Physiology and Cell Biology at the Stazione Zoologica di Napoli (SZN) "Anton Dohrn". Director of study Dr. Luigia Santella, external supervisor Prof. Ernesto Carafoli, University of Padova, Italy. The title of the PhD thesis: "Calcium signals mediated by InsP <sub>3</sub> and NAADP during maturation and fertilization of satrfish oocytes".
<b>1995 - 1999</b>	<b>The Moscow State University (MSU)</b> , Russia. Degree in physiology with Honor. Two years of experimental work at the Cancer Research Institute, Moscow, under the supervision of Dr. D. B. Kazansky. The title of the diploma work: "The role of heat shock proteins in the pattern of the macrophage migration <i>in vivo</i> ".
<b>LANGUAGES</b>	
<b>Russian</b> - native speaker; <b>English</b> and <b>Italian</b> - fluent oral and good written communication.	

## EXPERIENCE IN OTHER LABORATORIES

<b>May-June 2001</b>	I spent 2 months in the <b>Laboratory Dr. Keiichiro Kyojuka of The Marine Biological Station in Asamushi, Japan</b> . The stay gave me the chance of improving skills in the handling of gametes of marine animals, and of increasing my experience in confocal microscopy
<b>November 2005</b>	I spent 1 month in the <b>Laboratory of Prof. Jose R. Naranjo, Madrid, Spain</b> , acquiring experience in DNA microarray technology and Real-Time PCR.

## OTHER PROFESSIONAL ACTIVITIES

<b>2003-2004</b>	<b>Member of the Secretariat</b> of two international meetings: EMBO workshop on Calcium Signaling and Disease (Capri, Italy), and International Meeting on Calcium in Health and Disease in 2003 (Rovaniemi, Finland).
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## STUDENTS SUPERVISION

<b>2007</b>	Supervision of the work of Carmelina Chiarello leading to the Master degree in Sanitary Biology, which was completed in October 2007.
<b>2006-2007</b>	Supervision of the work of Paola Rebellato towards the Master degree in Pharmaceutical Chemistry and Technology, which was completed in March 2007.
<b>2004</b>	Supervision of the experimental work leading to the Bachelors degree of Roberto Somnavilla in Experimental Biotechnology. The work was successfully completed in September 2004.

## COURSES ATTENDED

<b>March 2004</b>	BIORAD Seminar on PCR Real time and Microarrays in genomic research, Padova, Italy.
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## INTERNATIONAL MEETINGS

<b>December 2007</b>	NeuroNE Workshop on Protein Aggregation and Neurodegeneration. Soelden, Austria.
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<b>October 2007</b>	14th International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease. La Palma, Canary Islands, Spain. <u>Oral presentation</u> "Calcium homeostasis and mitochondrial dysfunction in striatal neurons of Huntington's disease". <u>D. Lim</u> , L. Fedrizzi, M. Tartari, E. Cattaneo, M. Brini, and E. Carafoli.
<b>October 2007</b>	NeuroNE Workshop on Neuronal Calcium in Health and Disease. La Palma, Canary Islands, Spain. <u>Oral presentation</u> "Mitochondrial Defects and Calcium Signaling Dysfunction in a striatal cell model of Huntington's disease". <u>D. Lim</u> , L. Fedrizzi, M. Tartari, C. Zuccato, E. Cattaneo, M. Brini, and E. Carafoli.
<b>June 2006</b>	20th IUBMB International Congress of Biochemistry and Molecular Biology. Kyoto, Japan. Poster "Altered ATP and Bradykinin (BK)-mediated calcium signaling in striatal cells expressing mutated huntingtin". <u>D. Lim</u> , M. Tartari, E. Cattaneo, L. Fedrizzi, M. Brini, and E. Carafoli.
<b>July 2004</b>	International Symposium on Calcium in Health and Disease, Rovaniemi, Finland. Poster "The role of the Ca <sup>2+</sup> -dependent transcriptional repressor DREAM on Ca <sup>2+</sup> homeostasis" M. Brini, L. Fedrizzi, <u>D. Lim</u> , J.R. Naranjo, and E. Carafoli.
<b>January 2002</b>	12th International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease. Cavalese, Italy. Poster "NAADP <sup>+</sup> initiates the Ca <sup>2+</sup> response during fertilization of starfish oocytes". <u>D. Lim</u> , K. Kyojuka, G. Gragnaniello, E. Carafoli, and L. Santella.

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**PUBLICATIONS**

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**Experimental Articles**

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**Lim D**, Fedrizzi L, Tartari M, Zuccato C, Cattaneo E, Brini M, Carafoli E. (2007) Calcium homeostasis and mitochondrial dysfunction in striatal neurons of Huntington's disease. *J Biol Chem*. published online ahead of print December 21, 2007.

Brini M, Di Leva F, Domi T, Fedrizzi L, **Lim D**, Carafoli E. (2007) Plasma-membrane calcium pumps and hereditary deafness. *Biochem Soc Trans*. 35:913-918.

Ficarella R, Di Leva F, Bortolozzi M, Ortolano S, Donaudy F, Petrillo M, Melchionda S, Lelli A, Domi T, Fedrizzi L, **Lim D**, Shull GE, Gasparini P, Brini M, Mammano F, Carafoli E. (2007) A functional study of plasma-membrane calcium-pump isoform 2 mutants causing digenic deafness. *Proc Natl Acad Sci U S A*. 104:1516-1521.

Nusco GA, Chun JT, Ercolano E, **Lim D**, Gragnaniello G, Kyojuka K, Santella L. (2006) Modulation of calcium signalling by the actin-binding protein cofilin. *Biochem Biophys Res Commun*. 348:109-114.

Moccia F, Nusco GA, **Lim D**, Kyojuka K, Santella L. (2006) NAADP and InsP3 play distinct roles at fertilization in starfish oocytes. *Dev Biol*. 294:24-38.

Moccia F, **Lim D**, Kyojuka K, Santella L. (2004). NAADP triggers the fertilization potential in starfish oocytes. *Cell Calcium*. 36, 515-524.

**Lim, D.**, Ercolano, E., Kyojuka, K., Nusco, G.A., Moccia, F., Lange, K. and Santella, L. (2003). The M-phase promoting factor modulates the sensitivity of the Ca<sup>2+</sup> stores to inositol 1,4,5-trisphosphate via the actin cytoskeleton. *J Biol Chem*. 278, 42505-42514.

Moccia, F., **Lim, D.**, Nusco, G.A., Ercolano, E. and Santella, L. (2003). NAADP activates a Ca<sup>2+</sup> current which is dependent on F-actin cytoskeleton. *FASEB J*. 17, 1907-1909.

Moccia, F., Nusco, G.A., **Lim, D.**, Ercolano, E., Gragnaniello, G., Brown, E.R. and Santella, L. (2003). Ca<sup>2+</sup> signalling and membrane current activated by cADPr in starfish oocytes. *Pflugers Arch*. 446, 541-552.

Santella, L., Ercolano, E., **Lim, D.**, Nusco, G.A. and Moccia, F. (2003) Activated M-phase-promoting factor (MPF) is exported from the nucleus of starfish oocytes to increase the sensitivity of the Ins(1,4,5)P<sub>3</sub> receptors. *Biochem. Soc. Trans*. 31, 79-82.

Nusco, G.A., **Lim, D.**, Sabala, P. and Santella L. (2002). Ca<sup>2+</sup> response to cADPr during maturation and fertilization of starfish oocytes. *Biochem. Biophys. Res. Commun*. 290, 1015-1021.

Sabala, P., Targos, B., Caravelli, A., Czajkowski, R., **Lim, D.**, Gragnaniello, G., Santella, L. and Baranska, J. (2002). Role of the actin cytoskeleton in store-mediated calcium entry in glioma C6 cells. *Biochem. Biophys. Res. Commun.* 296, 484-491.

**Lim, D.**, Lange, K. and Santella L. (2002). Activation of oocytes by latrunculin A. *FASEB J.* 16, 1050-1056.

**Lim, D.**, Kyojuka, K., Gragnaniello, G., Carafoli, E. and Santella, L. (2001). NAADP+initiates the Ca<sup>2+</sup> response during fertilization of starfish oocytes. *FASEB J.* 15, 2257-2267

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## Reviews and Book Chapters

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Santella L., **Lim D.**, Moccia F. (2004). Calcium and fertilization: the beginning of life. *Trends Biochem. Sci.* 29, 400-408. Review.

Santella, L., Nusco, G.A. and **Lim, D.** (2002). Calcium and calcium-linked second messengers are main actors in the maturation and fertilization of starfish oocytes. In "Cyclic ADP-ribose and NAADP. Structures, metabolism and function". Edt. by Lee HC. Kluwer Academic Publishers.

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