

LUVENA L. ONG

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EDUCATION

Ph.D. Candidate Medical Engineering and Medical Physics Sep 2010 – Present
Massachusetts Institute of Technology – Cambridge, MA
Harvard University – Cambridge, MA
National Science Foundation Graduate Research Fellowship

B.S. Chemical-Biological Engineering Sep 2007 – Jun 2010
Massachusetts Institute of Technology – Cambridge, MA

RESEARCH EXPERIENCE

Graduate Researcher May 2011 – Present
Wyss Institute for Biologically Inspired Engineering – Boston, MA
Peng Yin, Systems Biology

Undergraduate Researcher Sep 2008 – Aug 2010
Massachusetts Institute of Technology – Cambridge, MA
Sangeeta Bhatia, Health Sciences and Technology

Amgen Scholar May 2009 – Aug 2009
Columbia University – New York, NY
Gordana Vunjak-Novakovic, Biomedical Engineering

RELEVANT WORK

D-Lab Health Nebula Project Jan 2009 – May 2009
Massachusetts Institute of Technology – Cambridge, MA
Local hospitals and clinics – Nicaragua

Early Research Intern Jun 2008 – Aug 2008
Colgate-Palmolive – Piscataway, NJ

PUBLICATIONS

1. Y. Ke, **L.L. Ong**, W.M. Shih, P. Yin. "Three-Dimensional Structures Self-Assembled from DNA Bricks." *Science*. 2012, 338 (6111): 1177-1183.
2. A.A. Chen, D.K. Thomas, **L.L. Ong**, R.E. Schwartz, T.R. Golub, S.N. Bhatia. "Humanized mice with ectopic artificial liver tissues." *Proceedings of the National Academy of Sciences*. 2011, 108 (29): 11842-11847.
3. J.H. Park, G. von Maltzahn, **L.L. Ong**, A. Centrone, T.A. Hatton, E. Ruoslahti, S.N. Bhatia, M.S. Sailor. "Cooperative Nanoparticles for Tumor Detection and Photothermally Triggered Drug Delivery." *Advanced Materials*. 2010, 22 (8): 880-885.

PRESENTATIONS

1. **L. Ong**, Y. Ke, P. Yin. "Modular Assembly of 3D DNA structures using DNA bricks." *Invited Talk. The Advanced Study Institute on Global Healthcare Challenges*, Antalya, Turkey, Jun 16-22, 2013.
2. **L. Ong**, D. Zhang, P. Yin. "Light-controlled Catalytic DNA Circuits." Poster, *Foundations of Nanoscience*, Snowbird, UT, Apr 16-19, 2012.

Languages: Conversational Mandarin and Cantonese