CV - Leo d'Espaux Department of Bioengineering

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born August 31st, 1983 in Havana, Cuba. US Citizen

EDUCATION			
Ph.D. Candidate	Chemical Engineering	California Institute of Technology	5/2007 – present
M.S. B.S.	Chemical Engineering Chemical Engineering	California Institute of Technolgy Cornell University	5/2007 5/2005
D.3.	Chemical Engineering	Comen University	5/2003
PROFESSIONA	L EXPERIENCE		
Visiting Researcher, Department of Bioengineering, Stanford University Advisor: Christina Smolke			1/2009 – present
therapy an		gical circuits with applications in gene ural and synthetic chemicals. ate students.	
Graduate Teaching Assistant, Department of Chemical Engineering, Caltech Advisor: Zhen-gang Wang Teaching: Classical and Statistical Thermodynamics to undergraduates. Prepared weekly lectures, designed, solved and graded weekly problem sets.			2/2008 - 6/2008
Advisor: (Research:	Department of Chemical E Christina Smolke Control of gene expression gene silencing in cancer c	n through non-coding RNA, strategies	9/2005 – 1/2009
Research Assistant, Howard Hughes Medical Institute, The Rockefeller University Advisor: Günter Blobel (1999 Nobel Prize in Physiology/Medicine) Research: Purification and characterization of nuclear membrane complex proteins.			6/2005 – 9/2005
Research Assistant, Department of Biological Engineering, Cornell University Advisor: Dan Luo			1/2002 - 5/2005
structures		NA-based, self-assembled nanoscale ad obtaining funding, and in training	
Advisor: V Research:	W. Mark Saltzman	ineering, Cornell University e and neural cells. Polymer-based	9/2001 – 5/2002
Advisor: F	t, Department of Biology, René Herrera Human genetic evolution	Florida International University	6/2000 - 11/2000

HONORS & AWARDS

Graduate Research Fellowship, National Science Foundation	2006-present
Betty and Gordon Moore Fellowship, California Institute of Technology	2005-present
Gates Millenium Graduate Scholar, Bill and Melinda Gates Foundation	2005-2007
Menschel Public Service Fellowship, Cornell University	2005
Slayton Evans Research Award, American Chemical Society	2003
Alumni Sponsored Research Award, Cornell University	2003
Presidential Research Scholar, Cornell University	2001-2005
ACS-Xerox Scholar, American Chemical Society	2001-2005
Gates Millenium Scholar, Bill and Melinda Gates Foundation	2001-2006

PUBLICATIONS

- 1. "An RNA signal amplifier to improve gene regulatory circuit dynamics", L. d'Espaux, C.D. Smolke, In preparation
- 2. "A riboswitch-regulated miRNA platform to control mammalian gene expression", L. d'Espaux, C.D. Smolke, In preparation
- 3. "Controlled assembly of dendrimer like DNA", Y. Li, Y.D. Tseng, S.Y. Kwon, L. d'Espaux, J.S. Bunch, P.L McEuen, and D. Luo, Nature Materials 3, 38-42, (January, 2004)
- 4. "Honeycomb-shaped DNA", L. d'Espaux, and D. Luo, Proceedings of the 18th Annual Cornell Undergraduate Research Board Forum, 69 (March, 2002)

MEETINGS ATTENDED

- American Chemical Society 230th National Meeting & Exposition, Washington, DC, 08/05
 American Chemical Society 228th National Meeting & Exposition, Philadelphia, PA, 08/04
- 3. National Technical Careers Conference, New Orleans, LA, 01/04
- 4. Cornell Undergraduate Research Board 18th Annual Forum, Ithaca, NY, 04/03
- 5. Cornell Presidential Research Scholars Progress Forums, Ithaca, NY, 03/02; 03/03; 03/04
- 6. Gates Millenium Scholars National Conference, Los Angeles, CA, 10/01

ACADEMIC SERVICE

Cornell Commitment Executive Board, Cornell University	2003-2005
Undergraduate Research Board, Cornell University	2003-2005
Presidential Research Scholars Student Advisory Board, Cornell University	2001-2005

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science	Member	since 2005
American Chemical Society	Student Member	since 2003

References available upon request