CV - Leo d'Espaux

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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.	Chemical Engineering	California Institute of Technolgy	5/2007
B.S.	Chemical Engineering	Cornell University	5/2005
ROFESSIONA	L EXPERIENCE		
Advisor: (Research: therapy an	Christina Smolke Engineered synthetic biolo ad green production of nati	neering, Stanford University ogical circuits with applications in geneural and synthetic chemicals.	1/2009 – present
Supervised	d graduate and undergradu	ate students.	
Advisor: Z Teaching:	Zhen-gang Wang Classical and Statistical Th	f Chemical Engineering, Caltech ermodynamics to undergraduates. 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
Advisor: (Günter Blobel (1999 Nobel	l Institute, The Rockefeller University Prize in Physiology/Medicine) zation of nuclear membrane complex	6/2005 – 9/2005
Advisor: I Research: structures.	Dan Luo Synthesis and design of D	NA-based, self-assembled nanoscale and obtaining funding, and in training	1/2002 – 5/2005
Research Assistan Advisor: V Research:	t, School of Chemical Eng W. Mark Saltzman	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