

CURRICULUM VITAE

Jeremy S. Dasen

Howard Hughes Medical Institute
Smilow Neuroscience Program
Department of Physiology and Neuroscience
NYU School of Medicine
522 First Avenue SML504
New York, NY 10016
Email: jeremy.dasen@nyumc.org

Education

1994-1999 University of California, San Diego, Ph.D.
1991-1994 University of Michigan, B.S., High Honors in Cell and Molecular Biology

Awards

2009- HHMI Early Career Scientist
2008-2010 McKnight Scholar Award
2008-2009 Sloan Research Fellowship
2007-2008 NYU Whitehead Fellowship for Junior Faculty
2004-2009 Burroughs Wellcome Fund Career Award in Biomedical Sciences
1994-1996 Lucille Markey Predoctoral Fellowship
1994 Phi Beta Kappa
1994 Angel Scholar, University of Michigan
1993 University of Michigan Medical School Biomedical Research Fellowship
1993 American Heart Association Research Fellowship

Research Experience

2006-present Department of Physiology and Neuroscience, NYU School of Medicine
2001-2006 Laboratory of Dr. Thomas Jessell, Columbia University Medical Center
1995-2001 Laboratory of Dr. Michael G. Rosenfeld, University of California, San Diego
1993-1994 Laboratory of Dr. Margaret I. Lomax, University of Michigan

Research Publications

Lacombe J, Hanley O, Jung H, Soshnikova N, Mazzoni E, Philippidou P, Surmeri G, Grinstein J, Walsh C, Wichterle H, Duboule D, Dasen JS. 2012. Interpretation of Hox Inputs Determines the Fates of Motor Neuron Subtypes. *submitted*.

Golden MG, Dasen JS. 2012. Polycomb Repressive Complex-1 Activities Determine the Organization of Hox-Dependent Motor Neuron Subtypes. *In preparation*.

Jung H, Lacombe J, Mazzoni EO, Liem Jr KF, Grinstein J, Mahony S, Mukhopadhyay D, Gifford DK, Young RA, Anderson KV, Wichterle H, Dasen JS. 2010. Global Control of Motor Neuron Topography Mediated by the Repressive Actions of a Single *Hox* Gene. *Neuron* 67, 781-796.

Peljto M, Dasen JS, Mazzoni EO, Jessell TM, Wichterle H. 2010. Functional diversity of ES cell derived motor neuron subtypes revealed through intraspinal Transplantation. *Cell Stem Cell* 7, 355-366.

Dasen JS*, De Camilli A, Tucker PW, Jessell TM. 2008. Hox repertoires for motor neuron diversity and connectivity gated by a single accessory factor, FoxP1. *Cell* 134, 301-316.
*Corresponding author

Dasen JS, Tice BC, Brenner-Morton S, Jessell TM. 2005. A Hox regulatory network establishes motor neuron pool identity and target muscle connectivity. *Cell* 123, 477-491.

Dasen JS*, Liu J-P, Jessell TM. 2003. Motor neuron columnar fate imposed by sequential phases of Hox-c activity. *Nature* (Article) 425, 926-933.
*Corresponding author

Research Publications, cont.

- Dasen JS, Barbera JP, Herman TS, Connell SO, Olson L, Ju B, Tollkuhn J, Baek SH, Rose DW, Rosenfeld MG. 2001. Temporal regulation of a *paired*-like homeodomain repressor/TLE corepressor complex and a related activator is required for pituitary organogenesis. *Genes and Development* 15, 3193-3207.
- Dasen JS, O'Connell SM, Flynn SE, Treier M, Gleiberman AS, Szeto D, Hooshmand F, Aggarwal AK, Rosenfeld MG. 1999. Reciprocal interactions of Pit1 and GATA2 mediate signaling gradient induced determination of pituitary cell types. *Cell* 97, 587-598.
- Perissi V, Dasen JS, Kurokawa R, Wang Z, Korzus E, Rose DW, Glass CK, Rosenfeld MG. 1999. Factor-specific modulation of CREB-binding protein acetyltransferase activity. *Proc Natl Acad Sci* 96, 3652-3657.
- Xu L, Lavinsky RM, Dasen JS, Flynn SE, McInerney EM, Mullen TM, Heinzl T, Szeto D, Korzus E, Kurokawa R, Aggarwal AK, Rose DW, Glass CK, Rosenfeld MG. 1998. Signal-specific co-activator domain requirements for Pit-1 activation. *Nature* 395, 301-306.
- Wu W, Cogan JD, Pfaffle RW, Dasen JS, Frisch H, O'Connell SM, Flynn SE, Brown MR, Mullis PE, Parks JS, Phillips JA 3rd, Rosenfeld MG. 1998. Mutations in PROP1 cause familial combined pituitary hormone deficiency. *Nature Genetics* 18, 147-149.
- Sornson MW, Wu W, Dasen JS, Flynn SE, Norman DJ, O'Connell SM, Gukovsky I, Carriere C, Ryan AK, Miller AP, Zuo L, Gleiberman AS, Andersen B, Beamer WG, Rosenfeld MG. 1996. Pituitary lineage determination by the Prophet of Pit-1 homeodomain factor defective in Ames dwarfism. *Nature* (Article) 384, 327-333.

Reviews and Book Chapters

- Dasen JS and Jessell TM. 2009. Hox Networks and the Origins of Motor Neuron Diversity. *Curr Top Dev Biol.* 88, 169-200
- Dasen JS. 2009. Transcriptional networks in the early development of sensory-motor circuits. *Curr Top Dev Biol.* 87, 119-148.
- Dalla Torre di Sanguinetto SA, Dasen JS, Arber S. 2008. Transcriptional mechanisms controlling motor neuron diversity and connectivity. *Current Opinion in Neurobiolog* 18, 36-43.
- Dasen JS and Rosenfeld MG. 2001. Signaling and transcriptional mechanisms in pituitary development. *Annual Review of Neuroscience* 24, 327-355
- Dasen JS and Rosenfeld MG. 1999. Signaling mechanisms in pituitary morphogenesis and cell fate specification. *Current Opinion in Cell Biology* 9, 566-574.
- Dasen JS and Rosenfeld MG. 1999. Combinatorial mechanisms in signaling and synergy: lessons from pituitary development. *Current Opinion in Genetics and Development* 11, 669-677

Journal Reviewer

Science, Neuron, Genes and Development, Developmental Biology, Development, Gene Expression Patterns, Developmental Neurobiology, PLoS Biology.

Invited Speaker

Wiring the nervous system from the brain to the spinal cord, UTSA, 2010
University of Pennsylvania, Department of Genetics, 2010
Viktor Hamburger Symposium, Society for Neuroscience, 2009
Neural Development, Gordon Research Conference, 2008
Neural Stem Cells, New York Academy of Sciences, NY 2008
Hox Genes in Development and Evolution, Les Treilles, France 2007
Assembly of Neural Circuits, Ascona, Italy 2003

Past and Present Funding

		Total
2006		
BWF Career Award in Biomedical Sciences	3 yr	\$500,000
2007		
Whitehead Fellowship for Junior Faculty	1 yr	\$13,000
2008		
McKnight Scholar Award	3 yr	\$225,000
Project ALS	2 yr	\$60,000
Sloan Research Fellowship	2 yr	\$50,000
2009		
HHMI Early Career Award	6 yr	\$1,500,000
NIH RO1	4 yr	\$875,000
New York Stem Cell Foundation	3 yr	\$187,500

Thesis Committees

Joshua Bonowski	Laufer Lab (Columbia University)	2007
Barbara Noro	Mann Lab (Columbia University)	2007
Megan Bowers	Joyner Lab (NYU / SKI)	2009
Eileen Flowers	Hobert Lab (Columbia University)	2009
Daniel Karlson	Thor Lab (Linkoping U., Sweden)	2010
Peter Hallock	Burden Lab (NYU)	2010
Myungin Baek	Mann Lab (Columbia University)	2010
Melissa McKenzie	Fishell Lab (NYU)	TBD
Wai Si Chan	Blanck Lab (NYU)	TBD

Lab Personnel

<u>Postdocs</u>	<u>Project</u>
Myungin Baek	Integration of sensory networks in the CNS
Pola Philipidou	Motor axon guidance / respiratory networks
Catarina Catela	Sensory-motor circuit assembly and function

Graduate Students

Molly Golden	Control of Hox genes by chromatin modifiers
Olivia Hanley	Pbx genes in motor neuron specification
Heekyung Jung	Hox cross repression / MN topography

Technician

Carolyn Walsh

Former Lab Members

Jonathan Grinstein	(UCSD Graduate School)
Alessandro de Camilli	(Yale Medical School)
Harry Xenias	(Rutgers Neuroscience Program)