

Nicolino Valerio Dorrello, M.D. Ph.D.
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Date of Preparation: September 30th, 2016

Personal Data

Name: Nicolino Valerio Dorrello

Current Position

Assistant Professor of Pediatrics (tenure track)
Columbia University, New York

Academic Degrees

09/1994-07/2000 Second University of Naples, Naples, Italy
M.D. (Summa cum Laude)
01/2001-04/2004 University "Federico II", Naples, Italy in collaboration
with New York University, New York, NY
Ph.D.

Personal Statement

Since my PhD in Dr. Pagano's lab at NYU I have had a strong interest in basic science and translational medicine. In Dr. Pagano's laboratory I studied the role of beta-Trcp at the G₀/G₁ transition and at S/G₂ checkpoint in the degradation of PDCD4 and Claspin, respectively. In 2010 I started Residency in Pediatrics at Columbia University, where I stayed for Fellowship in Pediatric Critical Care Medicine and then as Assistant Professor of Pediatrics. For over 2 years I have been working in the Laboratory for Stem Cells and Tissue Engineering directed by Dr. Vunjak-Novakovic, a bioengineer at Columbia University, on a project aimed at investigating bioengineering modalities for functional recovery of donor lungs rejected for transplantation.

Professional experience and Training

07/2004-08/2006 Post-doctoral Fellowship, New York University
09/2006-04/2010 Residency in Pediatrics, University of Padua, Italy
04/2010-06/2012 Residency in Pediatrics, Columbia University
07/2012-06/2015 Pediatric Critical Care Medicine Fellowship, Columbia University
09/2015-present Assistant Professor of Pediatrics (tenure track)

Honors and Fellowships

08/1998-09/1998 Clinic Fellowship sponsored by I.F.M.S.A.
09/1999-12/1999 "University of Naples" Research Fellowship in Dr. Pagano's Laboratory, NYU
01/2002-12/2003 F.I.R.C. "Leonino Fontana e Maria Lionello" Research Fellowship.
01/2004-12/2005 American-Italian Cancer Foundation Research Fellowship
09/2015-08/2016 Driscoll Children's Fund Scholar

Licenses and Certifications

06/2001 - present Italian Medical License
01/2012 – 08/2013 Utah State Medical License
07/2013 – present New York State Medical License
10/2012 – present General Pediatrics, American Board of Pediatrics
11/2012 – present ATLS/BLS/PALS

Professional Organizations and Societies

01/2005 – 12/2005 The New York Academy of Science
07/2012 – present The New York Society of Pediatric Critical Care Medicine
07/2012 – present Society of Critical Care Medicine

Publications

- 1) L. Busino, M. Donzelli, M. Chiesa, D. Guardavaccaro, D. Ganoth, **N. V. Dorrello**, A. Hershko, M. Pagano and G. Draetta. Ubiquitin-mediated degradation of Cdc25A by β -Trcp during S phase and in response to DNA damage. *Nature*, 2003 Nov 6; 426(6962):87-91.
- 2) T. Bashir, **N. V. Dorrello**, V. Amador, D. Guardavaccaro and M. Pagano. Control of the SCFSkp2-Cks1 ubiquitin ligase by the APC/Cdh1 ubiquitin ligase. *Nature*, 2004 Mar 11; 428(6979):190-3.
- 3) A. Peschiaroli*, **N. V. Dorrello***, D. Guardavaccaro, M. Venere, T. Halazonetis, N.E. Sherman, M. Pagano. SCFbetaTrCP-mediated degradation of Claspin regulates recovery from the DNA replication checkpoint response. *Mol Cell*, 2006 Aug 4; 23(3):319-29.

* Co-authors

- 4) **N. V. Dorrello**, A. Peschiaroli, D. Guardavaccaro, N.H. Colburn, N.E. Sherman, M. Pagano. S6K1- and betaTRCP-mediated degradation of PDCD4 promotes protein translation and cell growth. *Science*, 2006 Oct 20;314(5798):467-71.
- 5) D. Guardavaccaro, D. Frescas, **N. V. Dorrello**, A. Peschiaroli, A. S. Multani, T. Cardozo, A. Lasorella, A. Iavarone, S. Chang, E. Hernando, and M. Pagano. Control and of chromosome stability by the β TRCP-REST-MAD2 axis. *Nature*, 2008 Mar 20; 452(7185):365-9.
- 6) J. Kim, J. D. O'Neill, **N. V. Dorrello**, M. Bacchetta, G. Vunjak-Novakovic. Targeted delivery of liquid microvolumes into the lung. *PNAS*, 2015 Sep 15;112(37):11530-5.

Complete List of Published Work in MyBibliography (1188 citations and h=5 on ISI Web of Science; 1615 citations and h=5 on Google Scholar)

Book chapters

T. Bashir, D. Guardavaccaro, **N. V. Dorrello**, V. Amador, and M. Pagano. Reciprocal control of the G1/S ubiquitin ligase SCF and the mitotic ubiquitin ligase APC/C: A role for Skp2 and bTrcp in cancer. AACR Education Book 1: 1315 - 1316, 2004.

Patents

M. Pagano, A. Peschiaroli, **N. V. Dorrello**, and J. Skaar. USP47 inhibitors and methods to induce apoptosis (filed Apr 28, 2009). *U.S. Patent No. 8,037,936* (Issued July 15, 2014).

Citations (partial list)

- 1) J. Chu. How To Plug Europe's Brain Drain. *Time*, 2004 Jan 11: 44-49.
- 2) L. Bryan Ray. Protein Degradation and Growth Regulation. *Science STKE*, 2006, Oct 2006.
- 3) N. Sonenberg, A. Pause. Signal transduction. Protein synthesis and oncogenesis meet again. *Science*, 2006 Oct 20;314 (5798):428-9.

Reviewer for peer-reviewed journals

ACS Biomaterials Science & Engineering

Grants and Funding

Active

- 1) Hearts of ECMO foundation (Role: PI) 1/2016-12/2016 (\$10,000)
Bioengineering a lung capable of gas exchange in rodent model supported by ECMO.
- 2) R01 HL120046-01 (PI:Vunjak-Novakovic and Snoeck; Role: Co-I) 8/2013-5/2018 (\$2,708,942)
Bioengineering a chimeric human lung.
- 3) Mikati Family Fund for Translational Research in Biomedical Engineering 1/2014-1/2019 (\$1,500,000)
Participating to the research in this field (gift funding)
- 4) U01HL134760 (PI: Vunjak-Novakovic and Snoeck; role: Co-I) 10/2016-09/2023 (\$8,226,038)
Modeling, pathogenesis and treatment of idiopathic pulmonary fibrosis

Completed

- 1) Driscoll Children's Fund Scholarship (Role: PI) 7/2015-6/2016 (\$100,000)
Bioengineering a lung capable of gas exchange.