

# ***CURRICULUM VITAE***

## **Andrea Ventura, MD/PhD**

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### ***Personal Information***

**Place and date of birth:** Messina, Italy. June 25, 1971

**Current work address:** Sloan Kettering Institute  
Cancer Biology and Genetics Program  
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### ***Education***

**1991-1997**

**Medical Degree.**

Catholic University Medical School, Rome, Italy.  
M.D. awarded on July 1997 with distinction *summa cum laude*.

Thesis work performed in the laboratory of Human Genetics.

Supervisor: Prof. Giovanni Neri

Thesis Title: Cloning and characterization of alternative isoforms of the *Mlh1* and *Msh2* genes.

**Sept-Dec 1995**

**Visiting Student**

University of California, San Diego, USA  
Laboratory of Prof. Richard Boland

**1998**

**Internship and Medical Board Certification**

**1998-1999**

**Part-time research work.**

Istituto Mario Negri Sud, Chieti, Italy  
Laboratory of Dr. Arturo Sala.

Project: Identification of *B-Myb* target genes.

**1999-2003**

**PhD in molecular and cellular biology**

Open University, London, UK.

European Institute of Oncology, Milan, Italy  
Supervisor: Prof. Pier Giuseppe Pelicci  
External supervisor: Dr. Doreen Cantrell  
Thesis title: Regulation of Shc expression and localization.

**2003- 2008**

**Postdoctoral work.**

MIT Center for Cancer Research, Cambridge, MA  
Laboratory of Prof. Tyler Jacks

**2008-**

**Assistant Member**

Memorial Sloan Kettering Cancer Center  
Dept. of Cancer Biology and Genetics

***Awards and Honors***

- 1995 Best student award. Rome University Medical School.
- 2000-2 Research fellowship from Italian Association for Cancer Research
- 2004-5 Postdoctoral Fellowship American Italian Cancer Research Foundation
- 2007 Forbeck Scholar Award

***Oral Presentations at meetings and seminars***

- 2005 Boston RNAi meeting. Invited speaker
- 2006 Cold Spring Harbor Laboratory Meeting on Mechanisms and Models of Cancer. Abstract selected for oral presentation.
- 2007 Keystone Symposium on “MicroRNAs and Cancer”. Invited speaker.
- 2007 Beyond Genome Conference, San Francisco, CA. Invited speaker.
- 2007 Merck Symposium on miRNA and Cancer. Boston Invited speaker.
- 2007 Mass. General Hospital Cancer Center. Boston. Invited speaker.
- 2007 University of California, Stanford. Invited speaker.
- 2007 Forbeck Symposium on microRNAs and Cancer. Speaker.

- 2007 UCL Institute of Child Health. London. Invited speaker.
- 2007 AACR meeting on miRNAs and Cancer. Boston. Invited speaker.
- 2008 3rd Microsymposium, IMBA, Vienna. Invited speaker
- 2008 Eurocancer Conference, Paris. Invited speaker.
- 2008 RIGHT Meeting, Turin. Invited speaker.
- 2008 Forbeck Scholar Retreat. Speaker.

### ***Publications***

Genuardi, M., Viel, A., Bonora, D., Capozzi, E., Bellacosa, A., Leonardi, F., Valle, R., **Ventura, A.**, Pedroni, M., Boiocchi, M. and Neri, G. (1998) Characterization of MLH1 and MSH2 alternative splicing and its relevance to molecular testing of colorectal cancer susceptibility. *Hum Genet*, **102**, 15-20.

Cervellera, M., Raschella, G., Santilli, G., Tanno, B., **Ventura, A.**, Mancini, C., Seignani, C., Calabretta, B. and Sala, A. (2000) Direct transactivation of the anti-apoptotic gene apolipoprotein J (clusterin) by B-MYB. *J Biol Chem*, **275**, 21055-21060.

Trinei, M., Giorgio, M., Cicalese, A., Barozzi, S., **Ventura, A.**, Migliaccio, E., Milia, E., Padura, I.M., Raker, V.A., Maccarana, M., Petronilli, V., Minucci, S., Bernardi, P., Lanfrancone, L. and Pelicci, P.G. (2002) A p53-p66Shc signalling pathway controls intracellular redox status, levels of oxidation-damaged DNA and oxidative stress-induced apoptosis. *Oncogene*, **21**, 3872-3878.

**Ventura, A.**, Luzi, L., Pacini, S., Baldari, C.T. and Pelicci, P.G. (2002) The p66Shc longevity gene is silenced through epigenetic modifications of an alternative promoter. *J Biol Chem*, **277**, 22370-22376.

**Ventura, A.** and Pelicci, P.G. (2002) Semaphorins: green light for redox signaling? *Sci STKE*, **2002**, PE44.

**Ventura, A.**, Maccarana, M., Raker, V.A. and Pelicci, P.G. (2004) A cryptic targeting signal induces isoform-specific localization of p46Shc to mitochondria. *J Biol Chem*, **279**, 2299-2306.

Pacini, S., Pellegrini, M., Migliaccio, E., Patrussi, L., Olivieri, C., **Ventura, A.**, Carraro, F., Naldini, A., Lanfrancone, L., Pelicci, P. and Baldari, C.T. (2004) p66SHC promotes apoptosis and antagonizes mitogenic signaling in T cells. *Mol Cell Biol*, **24**, 1747-1757.

Mandala, M., Curigliano, G., Bucciarelli, P., Ferretti, G., Mannucci, P.M., Colleoni, M., **Ventura, A.**, Peruzzotti, G., Severi, G., Pelicci, P.G., Biffi, R., Orsi, F., Cinieri, S. and Goldhirsch, A. (2004) Factor V Leiden and G20210A prothrombin mutation and the risk of subclavian vein thrombosis in patients with breast cancer and a central venous catheter. *Ann Oncol*, **15**, 590-593.

**Ventura, A.**, Meissner, A., Dillon, C.P., McManus, M., Sharp, P.A., VanParijs, L., Jaenisch, R. and Jacks, T. (2004) Cre-lox regulated conditional RNA interference from transgenes. *PNAS Proc Natl Acad Sci U S A*. **101**:10380-5

Sandy, P., **Ventura, A.** and Jacks, T. (2005) RNA interference: a practical approach. *Biotechniques* **39**:215-24

**Ventura, A.**, Kumar, M. and Jacks, T. MicroRNAs in cancer and development. Book chapter in "*MicroRNAs: From Basic Science to Disease Biology*" Cambridge University press.

**Ventura, A.**, Kirsch, D.G., McLaughlin, M.E. Tuveson, D.A., Grimm, J., Lintault, L., Newman, J., Reczek, E.E., Weissleder, R. and Jacks, T. (2007) Restoration of p53 function leads to tumor regression *in vivo*. *Nature* **445**:661-5.

**Ventura, A.**, Winslow, M., Garfinkel, A., Lintault, L., Meissner, A., Erkeland, S., Stone, J., Bronson, R., Crowley, D., Jaenisch, R., Sharp, PA. and Jacks, T. (2008) Targeted deletion reveals essential and overlapping functions of the *miR-17~92* family of miRNA clusters. *Cell* **132**:875-86.