

## **Curriculum Vitae**

**Stefano Amente, PhD**

- **General Information.**

**Nationality:** Italian

**Office Address:** Department of Molecular Medicine and Medical Biotechnologies, University of Naples 'Federico II', 80126 Naples, Italy.

**e-mail:** stamente@unina.it

- **Educations**

**2002.** Graduation from the University of the Study of Naples "FEDERICO II" with the highest grade and honours (*summa cum laude*).

**2007.** PhD graduation from the University of the Study of Naples "FEDERICO II" in Genetics and Molecular Medicine.

- **Positions**

**2006.** Visiting scientist, Institute of Cancer Research, Columbia University, NYC, USA.

**2007-2008.** Post-doctoral research fellow, AIRC, Italy.

**2008-2010.** AIRC Triennial Post-doc research fellow, AIRC Naples Oncogenomic Center, Italy

**2009.** Visiting scientist, Institute of Cancer Research, Columbia University, NYC, USA.

**2011.** Post-doctoral research, DBSF, University of Naples 'Federico II', Naples, Italy

**2011.** Visiting scientist, European Institute of Oncology, IEO, Milan, Italy.

**2012-to date.** Researcher in Genetics, University of Naples Federico II

- **Synopsis of research interest and activity.**

- Functional and biochemical characterization of the RNAPII phosphates FCP1 complex. - Functional and biochemical characterization of interaction between Myc and p14ARF. - Physical and functional interaction between P-TEFb and Myc

- Role of the BER, Base Excision Repair, enzymes in the Myc induced transcription.

- Epigenetics chromatin changes of Myc target genes.

- Role of LSD1 demethylase in Neuroblastoma.

- Genome-wide mapping of 8-oxodG in human and mouse cell line and its functional correlation with transcription and DNA replication.

- Bioinformatics tools required for the analyses of DIP-Seq, ChIP-Seq, GRO-Seq, RNA-Seq.

- **Teaching activities**

**2015-2018, Professor of Genetics at University of Naples Federico II.**

- **Commissions of trust (if applicable)**

Reviewer panel member of:

- MIUR (Italy) for evaluation of GRANT (FIRB, PRIN, SIR)

- ANR (National Research Agency, France) for evaluation of Generic Call 2017

- Scientific Journal (BBA, Plos One, Oncotarget, Oncogene, etc).

- **Prize**

"Francesca Martini" Award - SIBBM 2016 "Frontiers in Molecular Biology" Naples, 16-18 June 2016

- **Publications**

1. Ambrosio S, Saccà CD, **Amente S**, Paladino S, Lania L, Majello B. Lysine-specific demethylase LSD1 regulates autophagy in neuroblastoma through SESN2-dependent pathway. *Oncogene*. 2017 Aug 7. doi: 10.1038/onc.2017.267.

2. Rinaldi L, Sepe M, Delle Donne R, Conte K, Arcella A, Borzacchiello D, **Amente S**, De Vita F, Porpora M, Garbi C, Oliva MA, Procaccini C, Faicchia D, Matarese G, Zito Marino F, Rocco G, Pignatiello S,

- Franco R, Insabato L, Majello B, Feliciello A. Mitochondrial AKAP1 supports mTOR pathway and tumor growth. *Cell Death Dis.* 2017 Jun 1;8(6):e2842.
3. Ambrosio S, **Amente S**, Saccà CD, Capasso M, Calogero RA, Lania L, Majello B. LSD1 mediates MYCN control of epithelial-mesenchymal transition through silencing of metastatic suppressor NDRG1 gene. *Oncotarget.* 2017 Jan 17;8(3):3854-3869
  4. Ambrosio S, Di Palo G, Napolitano G, **Amente S**, Dellino GI, Faretta M, Pelicci PG, Lania L, Majello B. Cell cycle-dependent resolution of DNA double-strand breaks. *Oncotarget.* 2016 Jan 26;7(4):4949-60.
  5. **Amente S**, Milazzo G, Sorrentino MC, Ambrosio S, Di Palo G, Lania L, Perini G and Majello B. Lysine-Specific Demethylase (LSD1/KDM1A) and MYCN cooperatively repress tumor suppressor genes in Neuroblastoma. *Oncotarget.* 2015 Jun 10;6(16):14572-83.
  6. Ambrosio S\*, **Amente S\***, Napolitano G, Di Palo G, Lania L, and Majello B. MYC impairs resolution of site-specific DNA double-strand breaks repair. *Mutat Res.* Feb 2015.
  7. Napolitano G\*, **Amente S\***, Lavadera ML, Di Palo G, Ambrosio S, Lania L, Dellino GI, Pelicci PG, Majello B. Sequence-specific double strand breaks trigger P-TEFb-dependent Rpb1-CTD hyperphosphorylation. *Mutat Res.* 2013 Sep; 749(1-2):21-7.
  8. **Amente S**, Lania L, Majello B. The histone LSD1 demethylase in stemness and cancer transcription programs. *Biochim Biophys Acta.* 2013 Oct;1829(10):981-6.
  9. Mo W, Zhang J, Li X, Meng D, Gao Y, Yang S, Wan X, Zhou C, Guo F, Huang Y, **Amente S**, Avvedimento EV, Xie Y, Li Y. Identification of novel AR-targeted microRNAs mediating androgen signalling through critical pathways to regulate cell viability in prostate cancer. *PLoS One.* 2013;8(2):e56592.
  10. Damiano S, Petrozziello T, Ucci V, **Amente S**, Santillo M, Mondola P. Cu-Zn superoxide dismutase activates muscarinic acetylcholine M1 receptor pathway in neuroblastoma cells. *Mol Cell Neurosci.* 2013 Jan;52:31-7.
  11. **Amente S**, Lavadera ML, Palo GD, Majello B. SUMO-activating SAE1 transcription is positively regulated by Myc. *Am J Cancer Res.* 2012;2(3):330.
  12. Damiano S, Fusco R, Morano A, De Mizio M, Paternò R, De Rosa A, Spinelli R, **Amente S**, Frunzio R, Mondola P, Miot F, Laccetti P, Santillo M, Avvedimento EV. Reactive oxygen species regulate the levels of dual oxidase (Duox1-2) in human neuroblastoma cells. *PLoS One.* 2012;7(4):e34405.
  13. **Amente S**, Lania L, Majello B. Epigenetic reprogramming of Myc target genes. *Am J Cancer Res.* 2011;1(3):413-418.
  14. **Amente S**, Zhang J, Lavadera ML, Lania L, Avvedimento EV, Majello B. Myc and PI3K/AKT signaling cooperatively repress FOXO3a-dependent PUMA and GADD45a gene expression. *Nucleic Acids Res.* 2011 Dec;39(22):9498-507.
  15. **S. Amente**, L. Lania, E.V. Avvedimento, B. Majello, DNA oxidation drives Myc mediated transcription, *Cell Cycle*, 2010 Aug 1;9(15):3002-4.
  16. G. Napolitano, **S. Amente\***, V. Castiglia, B. Gargano, V. Ruda, X. Darzacq, O. Bensaude, B. Majello, L. Lania, Caffeine prevents transcription inhibition and P-TEFb/7SK dissociation following UV-induced DNA damage, *PLoS One*, 2010 Jun 21;5(6):e11245.
  17. S. Cassano, S. Agnese, V. D'Amato, M. Papale, C. Garbi, P. Castagnola, M.R. Ruocco, I. Castellano, E. De Vendittis, M. Santillo, **S. Amente**, A. Porcellini, E.V. Avvedimento, Reactive oxygen species, Ki-Ras, and mitochondrial superoxide dismutase cooperate in nerve growth factor-induced differentiation of PC12 cells, *J Biol Chem*, 2010 Jul 30;285(31):24141-53.
  18. **S. Amente**, A. Bertoni, A. Morano, L. Lania, E.V. Avvedimento, B. Majello, LSD1-mediated demethylation of histone H3 lysine 4 triggers Myc-induced transcription, *Oncogene*, 2010 Jun 24;29(25):3691-702.
  19. **S. Amente**, B. Gargano, G. Napolitano, L. Lania, B. Majello, Camptothecin releases P-TEFb from the inactive 7SK snRNP complex, *Cell Cycle*, 2009 Apr 15;8(8):1249-55.
  20. B. Gargano, M. Fiorillo, **S. Amente**, B. Majello, L. Lania, p14ARF is capable of promoting HIV-1 tat degradation, *Cell Cycle*, 2008 May 15;7(10):1433-9.
  21. B. Gargano, **S. Amente\***, B. Majello, L. Lania, P-TEFb is a crucial co-factor for Myc transactivation, *Cell Cycle*, 2007 Aug 15;6(16):2031-7.

22. **S. Amente**, B. Gargano, D. Diolaiti, G. Della Valle, L. Lania, B. Majello, p14ARF interacts with N-Myc and inhibits its transcriptional activity, *FEBS Lett*, 2007 Mar 6;581(5):821-5.
23. **S. Amente**, B. Gargano, F. Varrone, L. Ruggiero, D. Dominguez-Sola, L. Lania, B. Majello, p14ARF directly interacts with Myc through the Myc BoxII domain, *Cancer Biol Ther*, 2006 Mar;5(3):287-91.
24. **S. Amente**, G. Napolitano, P. Licciardo, M. Monti, P. Pucci, L. Lania, B. Majello, Identification of proteins interacting with the RNAPII FCP1 phosphatase: FCP1 forms a complex with arginine methyltransferase PRMT5 and it is a substrate for PRMT5-mediated methylation, *FEBS Lett*, 2005 Jan 31;579(3):683-9.
25. P. Licciardo, **S. Amente**, L. Ruggiero, M. Monti, P. Pucci, L. Lania, B. Majello, The FCP1 phosphatase interacts with RNA polymerase II and with MEP50 a component of the methylosome complex involved in the assembly of snRNP, *Nucleic Acids Res*, 2003 Feb 1;31(3):999-1005.