

Andrea ALIMONTI, MD
Curriculum Vitae

Name: Andrea Alimonti

Date of birth: 07/09/1975

ACTUAL POSITIONS

- 2010 **Head, Molecular Oncology, Institute of Oncology Research**, Bellinzona, Switzerland
2017 **Full Professor of Pharmacology, University of Padova**, Italy
2017 **Full Professor of Oncology, Università della Svizzera Italiana**, Lugano, Switzerland
2020 **Full Professor of Experimental Oncology and Translational Cancer Medicine, ETH**, Zurich, Switzerland

EDUCATION

- 2000 **MD degree**
Magna Cum Laude (GPA: 110/110),
University of Rome “*La Sapienza*”, Rome, Italy
- 2001 **State examination for MD**
University of Rome “*La Sapienza*”, Rome, Italy
- 2004 **Residency in Clinical Oncology,**
Magna Cum Laude
Regina Elena National Cancer Institute, Rome, Italy
- 2013 **PD, University of Lausanne (UNIL), Faculty of**
Biology and Medicine, Lausanne, Switzerland

POST-DOCTORAL TRAINING

- 2007-2009 **BIDMC-Harvard Medical School**, Boston, USA. Division of Cancer Genetics,
Lab.: Pier Paolo Pandolfi, MD PhD
Position: Postdoctoral Clinical/Research Fellow
- 2004-2007 **Memorial Sloan-Kettering Cancer Center**,
New York, USA. Division of Human Pathology,
Lab.: Pier Paolo Pandolfi, MD PhD
Position: Postdoctoral Clinical/Research Fellow
- 2000-2004 **Regina Elena National Cancer Institute of**
Rome, Rome, Italy. Division of Medical Oncology: Prof.
Francesco Cognetti
Position: Resident in Clinical Oncology

AWARDS

- 2019 Prix Robert Wenner,
Ligue Suisse contre le Cancer
- 2019 PCF Challenge Award
- 2019 Pfizer Research Prize in Oncology
- 2015 J. Steiner Foundation Award
- 2010 Swiss Bridge Award

GRANTS

- 2018-2021 SNSF grant (#176045)
- 2018-2020 Swiss Cancer League grant (#4267)
- 2016-2021 ERC consolidator grant (#683136)
- 2015-2017 Swiss Cancer League grant (#3505)
- 2012-2016 IIR Pfizer grant
- 2012-2015 SNSF Ambizione-SCORE grant (#136612)
- 2010-2016 ERC starting grant (#261342)

ONGOING CLINICAL TRIALS (PI Role)

- Effect of Ruxolitinib on Tumor Infiltrating Myeloid Cells (NCT03274778)
Combination Study of AZD5069 and Enzalutamide (ACE) (NCT03177187)
Valid Biomarkers in Blood to Predict the Response to Therapy in Prostate Cancer Patients (NCT03408964)

MEMBERSHIP IN PANELS

- 2018 Actual member of the Expert Selection Committee (Oncology) “La Caixa Foundation”
- 2017 Actual member of the Scientific Commission (Wiko) of the Swiss Cancer League
- 2017 Actual member of the Scientific Commission of the PHRT Swiss Initiative
- 2014 Actual member of the Scientific Advisory Board, IBSA Foundation

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- 2020 European Association for Cancer Research
- 2015 Società Italiana di Farmacologia
- 2014 American Association for Cancer Research
- 2013 Member of the Young Academy of Europe
- 2012 Member of the urogenital cancer board of SAKK
- 2005 Full Member of the European Society of Medical Oncology (ESMO)
- 2004 Full Member of the Italian Association of Clinical Oncology

EDITORIAL BOARDS

- Reviewer for Nature, Nature Genetics, Journal of Clinical Oncology (JCO), Clinical Cancer Research, Cancer Research, Carcinogenesis, European Journal of Cancer and Cancer Chemotherapy and Pharmacology, PNAS

Andrea Alimonti, MD
Research Output list

1. Publications in international peer-reviewed scientific journals (selection of the most relevant publications)

Please see the full list of publications here:

<https://scholar.google.nl/citations?hl=en&user=1QwnL9YAAAAJ>

1. Johann de Bono, Christina Guo, Bora Gurel, Angelo De Marzo, Karen Sfanos, Ram Mani, Jesus Gil, Charles Drake, and **Andrea Alimonti**. Prostate Cancer Initiation and Progression: Inflammatory Storms. **Nature Reviews Cancer** (*in press*)
2. Abdullah Alajati, Mariantonietta D'Ambrosio, Martina Troiani, Simone Mosole, Laura Pellegrini, Jingjing Chen, Ajinkya Revandkar, Marco Bolis, Jean-Philippe Theurillat, Ilaria Guccini, Marco Losa, Arianna Calcinotto, Gaston De Bernardis, Emiliano Pasquini, Rocco D'Antuono, Adam Sharp, Ines Figueiredo, Daniel Nava Rodrigues, Jonathan Welti, Veronica Gil, Wei Yuan, Tatjana Vlajnic, Lukas Bubendorf, Giovanna Chiorino, Letizia Gnetti, Verónica Torrano, Arkaitz Carracedo, Laura Campese, Susumu Hirabayashi, Elena Canato, Gianfranco Pasut, Monica Montopoli, Jan Hendrik Rüschoff, Peter Wild, Holger Moch, Johann De Bono & **Andrea Alimonti**. CDCP1 overexpression drives prostate cancer progression and can be targeted in vivo. **The Journal of Clinical Investigation** (*in press*)
3. V Gorgoulis, PD Adams, **A Alimonti**, DC Bennett, O Bischof, C Bishop, J Campisi, M Collado, K Evangelou, G Ferbeyre, J Gil, E Hara, V Krizhanovsky, D Jurk, AB Maier, M Narita, L Niedernhofer, JF Passos, PD Robbins, CA Schmitt, J Sedivy, K Vougas, T von Zglinicki, D Zhou, M Serrano, M Demaria. Cellular Senescence: Defining a Path Forward. **Cell**. **2019** Oct 31;179(4):813-827. doi: 10.1016/j.cell.2019.10.005.
4. D Di Mitri, M Mirenda, J Vasilevska, A Calcinotto, N Delaleu, A Revandkar, V Gil, G Boysen, M Losa, S Mosole, E Pasquini, R D'Antuono, M Masetti, E Zagato, G Chiorino, P Ostano, A Rinaldi, L Gnetti, M Graupera, AR Martins Figueiredo Fonseca, R Pereira Mestre, D Waugh, S Barry, J De Bono, **A Alimonti**. Re-education of Tumor-Associated Macrophages by CXCR2 Blockade Drives Senescence and Tumor Inhibition in Advanced Prostate Cancer. **Cell Rep**. **2019** Aug 20;28(8):2156-2168.e5. doi: 10.1016/j.celrep.2019.07.068.
5. Arianna Calcinotto, Clarissa Spataro, Elena Zagato, Diletta Di Mitri, Veronica Gil, Mateus Crespo, Gaston De Bernardis, Marco Losa, Michela Mirenda, Emiliano Pasquini, Andrea Rinaldi, Semini Sumanasuriya, Maryou B Lambros, Antje Neeb, Roberta Lucianò, Carlo A Bravi, Daniel Nava-Rodrigues, David Dolling, Tommaso Prayer-Galetti, Ana Ferreira, Alberto Briganti, Antonio Esposito, Simon Barry, Wei Yuan, Adam Sharp, Johann de Bono, **Andrea Alimonti**; IL-23 secreted by myeloid cells drives castration-resistant prostate cancer. **Nature**. **2018** Jul;559(7714):363-369. doi: 10.1038/s41586-018-0266-0.
6. Jingjing Chen, Ilaria Guccini, Diletta Di Mitri, Daniela Brina, Ajinkya Revandkar, Manuela Sarti, Emiliano Pasquini, Abdullah Alajati, Sandra Pinton, Marco Losa, Gianluca Civenni, Carlo V Catapano, Jacopo Sgrignani, Andrea Cavalli, Rocco D'Antuono, John M Asara, Andrea Morandi, Paola Chiarugi, Sara Crotti, Marco Agostini, Monica Montopoli, Ionica Masgras, Andrea Rasola, Ramon Garcia-Escudero, Nicolas Delaleu, Andrea Rinaldi, Francesco Bertoni, Johann de Bono, Arkaitz Carracedo, **Andrea Alimonti**; Compartmentalized activities of the pyruvate dehydrogenase complex sustain lipogenesis in prostate cancer. **Nat Genet**. **2018** Feb;50(2):219-228. doi: 10.1038/s41588-017-0026-3.
7. Ajinkya Revandkar, Maria Luna Perciato, Alberto Toso, Abdullah Alajati, Jingjing Chen, Hermeto Gerber, Mitko Dimitrov, Andrea Rinaldi, Nicolas Delaleu, Emiliano Pasquini, Rocco D'Antuono, Sandra Pinton, Marco Losa, Letizia Gnetti, Alberto Arribas, Patrick Fraering, Francesco Bertoni, Alain Nepveu, **Andrea Alimonti**; Inhibition of Notch pathway arrests PTEN-deficient advanced prostate cancer by triggering p27-driven cellular senescence. **Nat Commun**. **2016** Dec 12;7:13719. doi: 10.1038/ncomms13719.
8. Madhuri Kalathur, Alberto Toso, Jingjing Chen, Ajinkya Revandkar, Claudia Danzer-Baltzer, Ilaria Guccini, Abdullah Alajati, Manuela Sarti, Sandra Pinton, Lara Brambilla, Diletta Di Mitri, Giuseppina Carbone, R Garcia-Escudero, Alessandro Padova, Letizia Magnoni, Alessia Tarditi, Laura Maccari, Federico Malusa, Ravi Kiran Reddy Kalathur, Lorenzo A Pinna, Giorgio Cozza, Maria Ruzzene, Nicolas Delaleu, Carlo V Catapano, Ian J Frew, **Andrea Alimonti**; A chemogenomic screening identifies CK2 as a target for pro-senescence therapy in PTEN-deficient tumours, **Nat Commun**. **2015** Jun 18;6:7227. doi: 10.1038/ncomms8227.
9. Abdullah Alajati, Ilaria Guccini, Sandra Pinton, Ramon Garcia-Escudero, Tiziano Bernasocchi, Manuela Sarti, Erica Montani, Andrea Rinaldi, Filippo Montemurro, Carlo Catapano, Francesco Bertoni, **Andrea Alimonti**; Interaction of CDCP1 with HER2 enhances HER2-driven tumorigenesis and promotes trastuzumab resistance in breast cancer, **Cell Rep**. **2015** Apr 28;11(4):564-76. doi: 10.1016/j.celrep.2015.03.044.

10. Diletta Di Mitri, Alberto Toso, Jing Jing Chen, Manuela Sarti, Sandra Pinton, Tanja Rezzonico Jost, Rocco D'antuono, Erica Montani, Ramon Garcia-Escudero, Iliaria Guccini, Sabela Da Silva-Alvarez, Manuel Collado, Mario Eisenberger, Zhe Zhang, Carlo Catapano, Fabio Grassi, **Andrea Alimonti**; Tumour-infiltrating Gr-1+ myeloid cells antagonize senescence in cancer, **Nature**. **2014** Nov 6;515(7525):134-7. doi: 10.1038/nature13638.
11. Alberto Toso, Ajinkya Revandkar, Diletta Di Mitri, Iliaria Guccini, Michele Proietti, Manuela Sarti, Sandra Pinton, Jiangwen Zhang, Madhuri Kalathur, Gianluca Civenni, David Jarrossay, Erica Montani, Camilla Marini, Ramon Garcia-Escudero, Eugenio Scanziani, Fabio Grassi, Pier Paolo Pandolfi, Carlo V Catapano, **Andrea Alimonti**; Enhancing chemotherapy efficacy in Pten-deficient prostate tumors by activating the senescence-associated antitumor immunity, **Cell Rep**. **2014** Oct 9;9(1):75-89. doi: 10.1016/j.celrep.2014.08.044.
12. **Andrea Alimonti**, Arkaitz Carracedo, John G Clohessy, Lloyd C Trotman, Caterina Nardella, Ainara Egia, Leonardo Salmena, Katia Sampieri, William J Haveman, Edi Brogi, Andrea L Richardson, Jiangwen Zhang, Pier Paolo Pandolfi; Subtle variations in Pten dose determine cancer susceptibility, **Nat Genet**. **2010** May;42(5):454-8. doi: 10.1038/ng.556.
13. **Andrea Alimonti**, Caterina Nardella, Zhenbang Chen, John G Clohessy, Arkaitz Carracedo, Lloyd C Trotman, Ke Cheng, Shohreh Varmeh, Sara C Kozma, George Thomas, Erika Rosivatz, Rudiger Woscholski, Francesco Cognetti, Howard I Scher, Pier Paolo Pandolfi; A novel type of cellular senescence that can be enhanced in mouse models and human tumor xenografts to suppress prostate tumorigenesis, **J Clin Invest**. **2010** Mar;120(3):681-93. doi: 10.1172/JCI40535.
14. Brett S Carver, Jennifer Tran, Anuradha Gopalan, Zhenbang Chen, Safa Shaikh, Arkaitz Carracedo, **Andrea Alimonti**, Caterina Nardella, Shohreh Varmeh, Peter T Scardino, Carlos Cordon-Cardo, William Gerald, Pier Paolo Pandolfi; Aberrant ERG expression cooperates with loss of PTEN to promote cancer progression in the prostate, **Nat Genet**. **2009** May;41(5):619-24. doi: 10.1038/ng.370.
15. Brett S Carver, Jennifer Tran, Zhenbang Chen, Arkaitz Carracedo-Perez, **Andrea Alimonti**, Caterina Nardella, Anuradha Gopalan, Peter T Scardino, Carlos Cordon-Cardo, William Gerald, Pier Paolo Pandolfi; ETS rearrangements and prostate cancer initiation, **Nature**. **2009** Feb 12;457(7231):E1; discussion E2-3. doi: 10.1038/nature07738.
16. Arkaitz Carracedo, Li Ma, Julie Teruya-Feldstein, Federico Rojo, Leonardo Salmena, **Andrea Alimonti**, Ainara Egia, Atsuo T Sasaki, George Thomas, Sara C Kozma, Antonella Papa, Caterina Nardella, Lewis C Cantley, Jose Baselga, Pier Paolo Pandolfi; Inhibition of mTORC1 leads to MAPK pathway activation through a PI3K-dependent feedback loop in human cancer, **J Clin Invest**. **2008** Sep;118(9):3065-74. doi: 10.1172/JCI34739.
17. Lloyd C Trotman, Xinjiang Wang, **Andrea Alimonti**, Zhenbang Chen, Julie Teruya-Feldstein, Haijuan Yang, Nikola P Pavletich, Brett S Carver, Carlos Cordon-Cardo, Hediye Erdjument-Bromage, Paul Tempst, Sung-Gil Chi, Hyo-Jong Kim, Tom Misteli, Xuejun Jiang, Pier Paolo Pandolfi; Ubiquitination regulates PTEN nuclear import and tumor suppression, **Cell**. **2007** Jan 12;128(1):141-56. DOI: 10.1016/j.cell.2006.11.040
18. Xinjiang Wang, Lloyd C Trotman, Theresa Koppie, **Andrea Alimonti**, Zhenbang Chen, Zhonghua Gao, Junru Wang, Hediye Erdjument-Bromage, Paul Tempst, Carlos Cordon-Cardo, Pier Paolo Pandolfi, Xuejun Jiang; NEDD4-1 is a proto-oncogenic ubiquitin ligase for PTEN, **Cell**. **2007** Jan 12;128(1):129-39. DOI: 10.1016/j.cell.2006.11.039
19. Bernardi, Rosa; Guernah, Ilhem; Jin, David; Grisendi, Silvia; **Alimonti, Andrea**; Teruya-Feldstein, Julie; Cordon-Cardo, Carlos; Simon, M Celeste; Rafii, Shahin; Pandolfi, Pier Paolo; PML inhibits HIF-1 α translation and neoangiogenesis through repression of mTOR, **Nature**. **2006** Aug 17;442(7104):779-85. Doi: 10.1038/nature05029
20. Trotman, Lloyd C; **Alimonti, Andrea**; Scaglioni, Pier Paolo; Koutcher, Jason A; Cordon-Cardo, Carlos; Pandolfi, Pier Paolo; Identification of a tumour suppressor network opposing nuclear Akt function, **Nature**. **2006** May 25;441(7092):523-7. Doi: 10.1038/nature04809

2. Peer-reviewed books/monographs:

Madhuri Kalathur, Diletta Di Mitri, **Andrea Alimonti**; Pro-senescence Therapy for Cancer: Time for the Clinic, **Stress response pathways in cancer**, **2015**, Springer, Dordrecht, doi: 10.1007/978-94-017-9421-3_8

3. Patents and licenses

EP2762131A1	Use of Salvia Haenkei extracts in compositions for antisenescence
WO2019142095A1	New ALK inhibitor senolytic drugs
WO2019142097A1	Inhibitors of CXCR4 against senescence
WO2019180636A1	New prosenescence drugs