



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **SPIZZO, Riccardo MD PhD**

Occupational field

Project Management in the Health Research Field

Work experience

Dates	April 2018 - Present
Occupation or position held	Project Manager
Main activities and responsibilities	Project Management in the administration of the scientific activities of a Comprehensive Cancer Center (Scientific Directorate) including the Scientific and Patient Library. Special focus on the creation of an IT platform dealing with translational and clinical research. Supervisor activities, Graduate and undergraduate student mentoring.
Name and address of employer	National Cancer Institute C.R.O. Aviano Via Fanco Gallini 2, 33081 Aviano, Italy
Type of business or sector	Research Hospital
Dates	March 2011 – April 2018
Occupation or position held	Junior Principal Investigator
Main activities and responsibilities	Identification of novel transcripts involved in Epithelial Ovarian predisposition. Grant writing. Manuscript preparation, lab management, graduate and undergraduate student mentoring.
Name and address of employer	National Cancer Institute C.R.O. Aviano Via Fanco Gallini 2, 33081 Aviano, Italy
Type of business or sector	Research Hospital
Dates	June 2007 – December 2010
Occupation or position held	Research Investigator
Main activities and responsibilities	Identification of novel non-coding RNAs involved in colon cancer predisposition. Manuscript preparation, lab management, graduate and undergraduate student mentoring.
Name and address of employer	The University of Texas MD Anderson Cancer Center, Texas Medical Center 1515 Holcombe Blvd Houston, TX, USA Contact: Dr. George Calin (GCalin@mdanderson.org)
Type of business or sector	Academia
Dates	January 2006 - June 2007
Occupation or position held	Visiting PhD student
Main activities and responsibilities	Identification of novel non-coding RNAs that are located in highly conserved regions of human genome. Manuscript preparation.
Name and address of employer	The Ohio State University 455d Comprehensive Cancer Center 400 W 12th Avenue Columbus, OH. 43210 Contact: Prof. Carlo M. Croce (croce.5@osu.edu)
Type of business or sector	Academia

Education and training

Dates **November 2005 - March 2009**
 Title of qualification awarded PhD in Oncology and Pharmacology
 Principal subjects/occupational skills covered Molecular Biology and Cellular Biology of small non coding RNAs (i.e. microRNA and siRNA)
 Contact: Dr. Massimo Negrini (massimo.negrini@unife.it)
 Name and type of organisation providing education and training University of Ferrara
 Via Savonarola 9, Ferrara 44121 Italy

Dates **November 2000 – November 2004**
 Title of qualification awarded Clinical Fellowship in Oncology
 Principal subjects/occupational skills covered Research on micrometastasis in bone marrow of cancer patients.
 Contact: Prof. Carlo Alberto Beltrami (Beltrami@uniud.it)
 Research on siRNAs targeting HER-2 protein in breast cancer cell lines.
 Prof. Pietro Musiani (musiani@unich.it)
 Name and type of organisation providing education and training Medical School, University of Udine,
 Via Colugna, 50 - 33100 Udine Italy July

Dates **September 1994 – October 2000**
 Title of qualification awarded Medical Degree
 Principal subjects/occupational skills covered Research on haematopoietic stem cells derived from umbilical cord blood
 Contact: Dr. Alberto Degrassi (alberto.degrassi@uniud.it)
 Name and type of organisation providing education and training Medical School, University of Udine,
 Via Colugna, 50 - 33100 Udine Italy July

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English**

Self-assessment
European level ()*

Italian

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
(C2)	Independent User	(C2)	Independent User	(C2)	Independent User	(C2)	Independent User	(C1)	Independent User
(B2)	Independent User	(C1)	Proficient User	(B2)	Independent User	(B2)	Independent User	(B2)	Independent User

Social skills and competences

- Good ability to adapt to multicultural environments.
- Good communication skills gained through my oral communications at meetings.
- Good people networking.

Organisational skills and competences

- Leadership (responsible for team of 5 people)
- Designing and conducting projects in an independent way.
- Analyzing and interpreting results, and when necessary shifting the project to new directions.
- Laboratory management (order supplies, safety organization, space organization)

Technical skills and competences

- Molecular biology: RT-PCR, quantitative RT-PCR, Northern blotting for long and short RNAs, Southern blotting, plasmid preparations, nucleic acid purification, cloning.
- Biochemistry: Western blotting, Protein and Chromatin immuno precipitation, caspase assays.
- Cellular Biology: cell transfection, retroviral and adenoviral transduction, flow cytometry (sample preparation, acquisition, and analysis), immunofluorescence, karyotyping, cell proliferation assays (MTT, BrdU incorporation), cell culture on polyhema, colony assay, cell cycle synchronization.

Computer skills and competences

- Basic knowledge of Microsoft Office™ tools (Word™, Excel™, and PowerPoint™).

- Basic knowledge of graphic design applications (Adobe Illustrator, and ImageJ).
- Good Knowledge of Sequence Software Analysis (Lasergene package, Sequencer, ApE).

Awards

- 2007 Award for most innovative abstract: "UCRs are transcribed and differentially expressed in cancer" In the Forefront of Basic and Translational Cancer Research, 7th AACR-JCA Joint International Conference - Waikoloa, Hawaii.
- 2009 Best Employee of Experimental Therapeutics Department of MD Anderson Cancer Center.

Personal Research Support

GR-2010- 2319387, Spizzo (PI) 12/14/2012 – 12/13/2016 Italian Ministry of Health

"Impact of lincRNAs on high grade serous ovarian cancer"

This goal of this study was to investigate the impact of non coding transcripts which also foster the study on genetic predisposition in ovarian cancer in Epithelial Ovarian Cancer.

Role: PI

Peer Reviewer Activity

Since 2011, I was involved as external Reviewer by several research journal in the area of oncology including: Oncogene, Cell Death & Disease, Cancer Letters, Molecular Cancer, The International Journal of Biological Markers, Journal_of_Cellular and Molecular_Medicine, Basic & Clinical Pharmacology & Toxicology, Cellular Physiology and Biochemistry, Conference papers in molecular biology

Memberships of scientific organizations

2014-present: Member of EORTC, European Organisation for Research and Treatment of Cancer - Pathobiology Group

Major (inter)national collaborations

Fatima Mehta-Grigoriou, Stress and Cancer lab, Institute Curie, Paris, France.

Alvaro Monteiro, Moffitt Cancer Center, Florida, USA

Marcello Manfredi and Emilio Marengo, Amedeo Avogadro University of Eastern Piedmont, Italy

List of Publications

Scopus H-index = 23

Cesaratto L, Grisard E, Coan M, Zandonà L, De Mattia E, Poletto E, Cecchin E, Puglisi F, Canzonieri V, Mucignat MT, Zucchetto A, Stocco G, Colombatti A, Nicoloso MS, **Spizzo R**. BNC2 is a putative tumor suppressor gene in high-grade serous ovarian carcinoma and impacts cell survival after oxidative stress. Cell Death Dis. 2016 Sep 22;7(9):e2374.

Pelin, M., S. De Iudibus, M. Londero, **R. Spizzo**, S. Dei Rossi, S. Martellosi, A. Ventura, G. Decorti and G. Stocco (2016). "Thiopurine Biotransformation and Pharmacological Effects: Contribution of Oxidative Stress." Curr Drug Metab 17(6): 542-549.

Lupini, L., F. Pepe, M. Ferracin, C. Braconi, E. Callegari, S. Pagotto, **R. Spizzo**, B. Zagatti, P. Lanuti, F. Fornari, R. Ghasemi, R. Mariani-Costantini, L. Bolondi, L. Gramantieri, G. A. Calin, S. Sabbioni, R. Visone, A. Veronese and M. Negrini (2016). "Over-expression of the miR-483-3p overcomes the miR-145/TP53 pro-apoptotic loop in hepatocellular carcinoma." Oncotarget 7(21): 31361-31371.

Ling, H., K. Pickard, C. Ivan, C. Isella, M. Ikuo, R. Mitter, **R. Spizzo**, M. D. Bullock, C. Braicu, V. Pileczki, K. Vincent, M. Pichler, V. Stiegelbauer, G. Hoefler, M. I. Almeida, A. Hsiao, X. Zhang, J. N. Primrose, G. K. Packham, K. Liu, K. Bojja, R. Gafa, L. Xiao, S. Rossi, J. H. Song, I. Vannini, F. Fanini, S. Kopetz, P. Zweidler-McKay, X. Wang, C. Ionescu, A. Irimie, M. Fabbri, G. Lanza, S. R. Hamilton, I. Berindan-Neagoe, E. Medico, A. H. Mirnezami, G. A. Calin and M. S. Nicoloso (2015). "The clinical and biological significance of MIR-224 expression in colorectal cancer metastasis." Gut 2016 Jun;65(6):977-89.

Cervo, S., E. Mansutti, G. Del Mistro, **R. Spizzo**, A. Colombatti, A. Steffan, V. Sergo and A. Bonifacio (2015). "SERS analysis of serum for detection of early and locally advanced breast cancer." Anal Bioanal Chem. 2015 Sep;407(24):7503-9.

Del Mistro, G., S. Cervo, E. Mansutti, **R. Spizzo**, A. Colombatti, P. Belmonte, R. Zucconelli, A. Steffan, V. Sergo and A. Bonifacio (2015). "Surface-enhanced Raman spectroscopy of urine for prostate cancer detection: a preliminary study." Anal Bioanal Chem 407(12): 3271-3275.

Zhou, Y., G. Wan, **R. Spizzo**, C. Ivan, R. Mathur, X. Hu, X. Ye, J. Lu, F. Fan, L. Xia, G. A. Calin, L. M. Ellis and X. Lu (2014). "miR-203 induces oxaliplatin resistance in colorectal cancer cells by negatively regulating ATM kinase." Mol Oncol 8(1): 83-92.

Bonifacio, A., S. Dalla Marta, **R. Spizzo**, S. Cervo, A. Steffan, A. Colombatti and V. Sergo (2014). "Surface-enhanced Raman spectroscopy of blood plasma and serum using Ag and Au nanoparticles: a systematic study." Anal Bioanal Chem 406(9-10): 2355-2365.

Nishimura, M., E. J. Jung, M. Y. Shah, C. Lu, **R. Spizzo**, M. Shimizu, H. D. Han, C. Ivan, S. Rossi, X. Zhang, M. S. Nicoloso, S. Y. Wu, M. I. Almeida, J. Bottsford-Miller, C. V. Pecot, B. Zand, K. Matsuo, M. M. Shahzad, N. B. Jennings, C. Rodriguez-Aguayo, G. Lopez-Berestein, A. K. Sood and G. A. Calin (2013). "Therapeutic synergy between microRNA and siRNA in ovarian cancer treatment." Cancer Discov 3(11): 1302-1315.

Ling, H., **R. Spizzo** (co-first author), Y. Atlasi, M. Nicoloso, M. Shimizu, R. S. Redis, N. Nishida, R. Gafa, J. Song, Z. Guo, C. Ivan, E. Barbarotto, I. De Vries, X. Zhang, M. Ferracin, M. Churchman, J. F. van Galen, B. H. Beverloo, M. Shariati, F. Haderk, M. R. Estecio, G. Garcia-Manero, G. A. Patijn, D. C. Gotley, V. Bhardwaj, I. Shureiqi, S. Sen, A. S. Multani, J. Welsh, K. Yamamoto, I. Taniguchi, M. A. Song, S. Gallinger, G. Casey, S. N. Thibodeau, L. Le Marchand, M. Tiirikainen, S. A. Mani, W. Zhang, R. V. Davuluri, K. Mimori, M. Mori, A. M. Sieuwerts, J. W. Martens, I. Tomlinson, M. Negrini, I. Berindan-Neagoe, J. A. Foekens, S. R. Hamilton, G. Lanza, S. Kopetz, R. Fodde and G. A. Calin (2013). "CCAT2, a novel noncoding RNA mapping to 8q24, underlies metastatic progression and chromosomal instability in colon cancer." Genome Res 23(9): 1446-1461.

Redis, R. S., A. M. Sieuwerts, M. P. Look, O. Tudoran, C. Ivan, **R. Spizzo**, X. Zhang, V. de Weerd, M. Shimizu, H. Ling, R. Buiga, V. Pop, A. Irimie, R. Fodde, I. Bedrosian, J. W. Martens, J. A. Foekens, I. Berindan-Neagoe and G. A. Calin (2013). "CCAT2, a novel long non-coding RNA in breast cancer: expression study and clinical correlations." Oncotarget 4(10): 1748-1762.

Gaudio, E., F. Paduano, **R. Spizzo**, A. Ngankeu, N. Zanesi, M. Gaspari, F. Ortuso, F. Lovat, J. Rock, G. A. Hill, M. Kaou, G. Cuda, R. I. Aqeilan, S. Alcaro, C. M. Croce and F. Trapasso (2013). "Fhit delocalizes annexin a4 from plasma membrane to cytosol and sensitizes lung cancer cells to paclitaxel." PLoS One 8(11): e78610.

Minisini, A. M., G. Pascoletti, D. Intersimone, E. Poletto, P. Driol, **R. Spizzo**, C. A. Scott, F. Puglisi, G. Fasola and C. Di Loreto (2013). "Expression of thymidine phosphorylase and cyclooxygenase-2 in melanoma." Melanoma Res 23(2): 96-101.

Almeida, M. I., M. S. Nicoloso, L. Zeng, C. Ivan, **R. Spizzo**, R. Gafa, L. Xiao, X. Zhang, I. Vannini, F. Fanini, M. Fabbri, G. Lanza, R. M. Reis, P. A. Zweidler-McKay and G. A. Calin (2012). "Strand-specific miR-28-5p and miR-28-3p have distinct effects in colorectal cancer cells." Gastroenterology 142(4): 886-896 e889.

Gaudio, E., **R. Spizzo**, F. Paduano, Z. Luo, A. Efanov, A. Palamarchuk, A. S. Leber, M. Kaou, N. Zanesi, A. Bottoni, S. Costinean, L. Z. Rassenti, T. Nakamura, T. J. Kipps, R. I. Aqeilan, Y. Pekarsky, F. Trapasso and C. M. Croce (2012). "Tcl1 interacts with Atm and enhances NF-kappaB activation in hematologic malignancies." *Blood* 119(1): 180-187.

Spizzo, R., M. I. Almeida, A. Colombatti and G. A. Calin (2012). "Long non-coding RNAs and cancer: a new frontier of translational research?" *Oncogene* 31(43): 4577-4587.

Le, X. F., M. I. Almeida, W. Mao, **R. Spizzo**, S. Rossi, M. S. Nicoloso, S. Zhang, Y. Wu, G. A. Calin and R. C. Bast, Jr. (2012). "Modulation of MicroRNA-194 and cell migration by HER2-targeting trastuzumab in breast cancer." *PLoS One* 7(7): e41170.

Fabbri, M., A. Bottoni, M. Shimizu, R. Spizzo, M. S. Nicoloso, S. Rossi, E. Barbarotto, A. Cimmino, B. Adair, S. E. Wojcik, N. Valeri, F. Calore, D. Sampath, F. Fanini, I. Vannini, G. Musuraca, M. Dell'Aquila, H. Alder, R. V. Davuluri, L. Z. Rassenti, M. Negrini, T. Nakamura, D. Amadori, N. E. Kay, K. R. Rai, M. J. Keating, T. J. Kipps, G. A. Calin and C. M. Croce (2011). "Association of a microRNA/TP53 feedback circuitry with pathogenesis and outcome of B-cell chronic lymphocytic leukemia." *JAMA* 305(1): 59-67.

Melo, S., A. Villanueva, C. Moutinho, V. Davalos, **R. Spizzo**, C. Ivan, S. Rossi, F. Setien, O. Casanovas, L. Simo-Riudalbas, J. Carmona, J. Carrere, A. Vidal, A. Aytes, S. Puertas, S. Ropero, R. Kalluri, C. M. Croce, G. A. Calin and M. Esteller (2011). "Small molecule enoxacin is a cancer-specific growth inhibitor that acts by enhancing TAR RNA-binding protein 2-mediated microRNA processing." *Proc Natl Acad Sci U S A* 108(11): 4394-4399.

Eiring, A. M., J. G. Harb, P. Neviani, C. Garton, J. J. Oaks, R. Spizzo, S. Liu, S. Schwind, R. Santhanam, C. J. Hickey, H. Becker, J. C. Chandler, R. Andino, J. Cortes, P. Hokland, C. S. Huettner, R. Bhatia, D. C. Roy, S. A. Liebhaber, M. A. Caligiuri, G. Marcucci, R. Garzon, C. M. Croce, G. A. Calin and D. Perrotti (2010). "miR-328 functions as an RNA decoy to modulate hnRNP E2 regulation of mRNA translation in leukemic blasts." *Cell* 140(5): 652-665.

Melo, S. A., C. Moutinho, S. Ropero, G. A. Calin, S. Rossi, **R. Spizzo**, A. F. Fernandez, V. Davalos, A. Villanueva, G. Montoya, H. Yamamoto, S. Schwartz, Jr. and M. Esteller (2010). "A genetic defect in exportin-5 traps precursor microRNAs in the nucleus of cancer cells." *Cancer Cell* 18(4): 303-315.

Nicoloso, M. S., H. Sun, **R. Spizzo**, H. Kim, P. Wickramasinghe, M. Shimizu, S. E. Wojcik, J. Ferdin, T. Kunej, L. Xiao, S. Manoukian, G. Secreto, F. Ravagnani, X. Wang, P. Radice, C. M. Croce, R. V. Davuluri and G. A. Calin (2010). "Single-nucleotide polymorphisms inside microRNA target sites influence tumor susceptibility." *Cancer Res* 70(7): 2789-2798.

Lujambio, A., A. Portela, J. Liz, S. A. Melo, S. Rossi, **R. Spizzo**, C. M. Croce, G. A. Calin and M. Esteller (2010). "CpG island hypermethylation-associated silencing of non-coding RNAs transcribed from ultraconserved regions in human cancer." *Oncogene* 29(48): 6390-6401.

Spizzo, R., M. S. Nicoloso, L. Lupini, Y. Lu, J. Fogarty, S. Rossi, B. Zagatti, M. Fabbri, A. Veronese, X. Liu, R. Davuluri, C. M. Croce, G. Mills, M. Negrini and G. A. Calin (2010). "miR-145 participates with TP53 in a death-promoting regulatory loop and targets estrogen receptor-alpha in human breast cancer cells." *Cell Death Differ* 17(2): 246-254.

Grossi, F., **R. Spizzo**, D. Bordo, V. Cacitti, F. Valent, C. Rossetto, A. Follador, S. Di Terlizzi, M. Aita, A. Morelli, G. Fasola, C. Consiglieri, T. Ceschia, C. A. Beltrami and O. Belvedere (2010). "Prognostic stratification of stage IIIA pN2 non-small cell lung cancer by hierarchical clustering analysis of tissue microarray immunostaining data: an Alpe Adria Thoracic Oncology Multidisciplinary Group study (ATOM 014)." *J Thorac Oncol* 5(9): 1354-1360.

- Fabbri, M., **R. Spizzo** and G. A. Calin (2010). "High-throughput profiling in the hematopoietic system." Methods Mol Biol 667: 79-91.
- Nicoloso, M. S., **R. Spizzo**, M. Shimizu, S. Rossi and G. A. Calin (2009). "MicroRNAs--the micro steering wheel of tumour metastases." Nat Rev Cancer 9(4): 293-302.
- Spizzo, R.**, M. S. Nicoloso, C. M. Croce and G. A. Calin (2009). "SnapShot: MicroRNAs in Cancer." Cell 137(3): 586-586 e581.
- Spizzo, R.**, D. Rushworth, M. Guerrero and G. A. Calin (2009). "RNA inhibition, microRNAs, and new therapeutic agents for cancer treatment." Clin Lymphoma Myeloma 9 Suppl 3: S313-318.
- Spizzo, R.** and G. A. Calin (2009). "Multiple approach to analyzing the role of microRNAs in apoptosis." Methods Mol Biol 559: 219-245.
- Liu, C. G., **R. Spizzo**, G. A. Calin and C. M. Croce (2008). "Expression profiling of microRNA using oligo DNA arrays." Methods 44(1): 22-30.
- Spizzo, R.**, M. S. Nicoloso and G. A. Calin (2008). "MicroRNAs as new biomarkers in oncology." Expert Opin Med Diagn 2(2): 115-127.
- Calin, G. A., C. G. Liu, M. Ferracin, T. Hyslop, **R. Spizzo**, C. Sevignani, M. Fabbri, A. Cimmino, E. J. Lee, S. E. Wojcik, M. Shimizu, E. Tili, S. Rossi, C. Taccioli, F. Pichiorri, X. Liu, S. Zupo, V. Herlea, L. Gramantieri, G. Lanza, H. Alder, L. Rassenti, S. Volinia, T. D. Schmittgen, T. J. Kipps, M. Negrini and C. M. Croce (2007). "Ultraconserved regions encoding ncRNAs are altered in human leukemias and carcinomas." Cancer Cell 12(3): 215-229.
- Lanza, G., M. Ferracin, R. Gafa, A. Veronese, **R. Spizzo**, F. Pichiorri, C. G. Liu, G. A. Calin, C. M. Croce and M. Negrini (2007). "mRNA/microRNA gene expression profile in microsatellite unstable colorectal cancer." Mol Cancer 6: 54.
- Sabbioni, S., E. Callegari, **R. Spizzo**, A. Veronese, G. Altavilla, A. Corallini and M. Negrini (2007). "Anticancer activity of an adenoviral vector expressing short hairpin RNA against BK virus T-ag." Cancer Gene Ther 14(3): 297-305.
- Grossi, F., G. Fasola, C. Rossetto, **R. Spizzo**, S. Meduri, A. Sibau, E. Vigevani, S. Tumolo, G. Adami, C. Sacco, L. Recchia, S. Rizzato, T. Ceschia and O. Belvedere (2006). "Phase II study of irinotecan and docetaxel in patients with previously treated non-small cell lung cancer: an Alpe-Adria Thoracic Oncology Multidisciplinary group study (ATOM 007)." Lung Cancer 52(1): 89-92.
- Iorio, M. V., M. Ferracin, C. G. Liu, A. Veronese, **R. Spizzo**, S. Sabbioni, E. Magri, M. Pedriali, M. Fabbri, M. Campiglio, S. Menard, J. P. Palazzo, A. Rosenberg, P. Musiani, S. Volinia, I. Nenci, G. A. Calin, P. Querzoli, M. Negrini and C. M. Croce (2005). "MicroRNA gene expression deregulation in human breast cancer." Cancer Res 65(16): 7065-7070.
- Fabbro, D., A. V. D'Elia, **R. Spizzo**, L. Driul, G. Barillari, C. Di Loreto, D. Marchesoni and G. Damante (2003). "Association between plasminogen activator inhibitor 1 gene polymorphisms and preeclampsia." Gynecol Obstet Invest 56(1): 17-22.
- Spizzo, R.**, D. Intersimone, D. Artico, L. Driul, C. Di Loreto and C. A. Beltrami (2002). "A case report of Sertoli cell tumor in a patient with testicular feminization: many dilemmas for the pathologist." Adv Clin Path 6(2): 105-110.
- Malangone, W., O. Belvedere, C. Feruglio, **R. Spizzo**, G. Astori, V. Adami, L. Dorotea, E. Falasca, P. G. Sala, E. Tonutti, F. Biffoni, C. Rinaldi, G. Del Frate, D. De Anna and A. Degrossi (2001). "Flow cytometric characterization of ex vivo expanded umbilical cord blood CD34(+) cells." Transplant Proc 33(1-2): 1764-1765.

“Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D.Lgs.196/2003”

Aviano 17 Agosto 2021