

PERSONAL INFORMATION

Edoardo D'Angelo



- 📍 Pediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy
- ☎ +39 049 9640160
- ✉ e.dangelo@irpcds.org
- 🌐 www.cittadellasperanza.org

POSITION

PhD student in Clinical and Experimental Oncology and Immunology

WORK EXPERIENCE

From October 2014 to today

Research activity at Pediatric Research Institute – Fondazione Città della Speranza (referent dott. Marco Agostini: m.agostini@unipd.it). Main research projects developed:

- Detection of circulating biomarkers in the patients' blood stream for early and non-invasive diagnostic of colorectal cancer;
- Detection of circulating biomarkers in the patients' blood stream for the identification of those rectal cancer patients with a good chance of response to chemo-radiotherapy from those with little chance. In order to save the non-responsive patients to invasive, painful and expensive therapies; directing them toward immediate surgery;
- Study of extracellular matrix and cell-tumor stroma interaction, in patients affected by colorectal cancer.

Molecular Diagnostics activity at Centro di Prevenzione Tumori Ereditari del Colon-retto – Azienda Ospedaliera di Padova e Istituto Oncologico Veneto. My task is to perform mutational genetic analysis on patients' DNA, searching for possible germline mutations associated with the onset of hereditary cancer syndromes (referent dott. Marco Agostini: m.agostini@unipd.it).

From October 2013 to May 2014

Internship training at Dipartimento di Patologia e Diagnostica, Sez. Anatomia Patologica, Azienda Ospedaliera-Universitaria Integrata di Verona (referent: Prof. Aldo Scarpa: aldo.scarpa@univr.it). I developed a research project with the aim to better understand the role of microRNAs in the onset and development of colorectal cancer. In particular using the techniques such as Real-time PCR, Immunohistochemistry and *in situ* hybridization.

The study concluded with the writing of the Master Degree thesis from the title: "CIRCULATING PLASMA LEVELS OF mir-182 CONTRIBUTE TO COLORECTAL ADENOCARCINOMA DETECTION AND MONITORING".

The thesis, gave rise to an article published in the international journal (peer review) ONCOTARGET, Impact Factor=6.63.

From December 2011 to May 2012

Internship training at Dipartimento di Patologia e Diagnostica – Sez. Immunologia, Policlinico G.B. Rossi, Azienda Ospedaliera-Universitaria Integrata di Verona (referent: Dott. Giulio Fracasso: giulio.fracasso@univr.it).

I carried out activity of proteins expression and production from both cell culture (using hybridoma technology) and murine model. I have learned techniques such as electrophoresis of proteins in polyacrylamide gel, protein purification, different protein quantification assay (Bicinchoninic Acid, Bradford, Folin-Lowry and Ultraviolet Absorption), production and isolation of monoclonal antibody (mABs) against the antigen Mesothelin, derivatization and chemical modification of mABs, different cell survival and proliferation assay (MTS, MTT and XTT assay) in condition of induced toxicity.

The training period led to the drafting of an undergraduate thesis, from the title: “ Synthesis of an anti-tumoral immunoconjugate against Mesothelin antigens and its pre-clinical *in vitro* validations”.

EDUCATION AND TRAINING

From October 2014 to today

University of Padova – Department of Surgery, Oncology and Gastroenterology

Admission to the PhD course in Clinical and Experimental Oncology and Immunology.

From October 2012 to July 2014

University of Verona – Department of Biotechnology and Immunology

Replace with EQF (or other) level if relevant

Achievement of the Master's Degree in Medical Biotechnology [LM-9] - Degree mark: 110/110 University of Padova – Department of Surgery, Oncology and Gastroenterology

▪ Replace with a list of principal subjects covered or skills acquired

From October 2009 to September 2012

University of Verona – Department of Biotechnology

Achievement of three-year degree in Biotechnology [L-2] – Degree mark: 99/110

From October 2005 to July 2009

Scientific High School “Galileo Galilei” via Cavour 47, Serravalle Veronese (PD)

Replace with EQF (or other) level if relevant

University of Padova – Department of Surgery, Oncology and Gastroenterology Scientific High School degree

▪ Replace with a list of principal subjects covered or skills acquired

PERSONAL SKILLS

Mother tongue Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Driving licence B

ADDITIONAL INFORMATION

Publications

1. Millino C, Maretto I, Pacchioni B, Digito M, De Paoli A, Canzonieri V, **D'Angelo E**, Agostini M, Rizzolio F, Giordano A, Barina A, Rajendran S, Esposito G, Lanfranchi G, Nitti D, Pucciarelli S. Gene and microRNA expression are predictive of tumor response in rectal adenocarcinoma patients treated with preoperative chemoradiotherapy. *Journal of Cellular Physiology*, 2016 May 24 [Online publish-ahead-of-print]. IF=3.839
2. **D'Angelo E**, Fassan M, Maretto I, Pucciarelli S, Zanon C, Digito M, Rugge M, Nitti D, Agostini M. Serum miR-125b is a non-invasive predictive biomarker of the pre-operative chemoradiotherapy responsiveness in patients with rectal adenocarcinoma. *Oncotarget*. 2016 Apr 13. doi: 10.18632/oncotarget.8725.
3. Agostini M, Janssen KP, Kim IJ, **D'Angelo E**, Pizzini S, Zangrando A, Zanon C, Pastrello C, Maretto I, Digito M, Bedin C, Jurisica I, Rizzolio F, Giordano A, Bortoluzzi S, Nitti D, Pucciarelli S. An integrative approach for the identification of prognostic and predictive biomarkers in rectal cancer. *Oncotarget*. 2015 Oct 20;6(32):32561-74. doi: 10.18632/oncotarget.4935. IF=6.359
4. Agostini M, Zangrando A, Pastrello C, **D'Angelo E**, Romano G, Giovannoni R, Giordan M, Maretto I, Bedin C, Zanon C, Digito M, Esposito E, Mescoli C, Lavitrano M, Rizzolio F, Jurisica I, Giordano A, Pucciarelli S and Donato Nitti. A functional biological network centered on XRCC3: a new possible marker of chemoradiotherapy resistance in rectal cancer patients. *Cancer Biology & Therapy* 16:7, 1-12; May 1, 2015. IF= 3.072;
5. **D'Angelo E**, Vicentini C, Agostini M, Kiss A, Baffa R, Scarpa A, Fassan M. Micromas As Tools And Effectors For Patient Treatment In Gastrointestinal Carcinogenesis. *Curr Drug Targets*. 2015;16(4):383-92, PMID: 25495924. IF= 3.597;
6. Fassan M, Baffa R, Caterina Vicentini C, **D'Angelo E**, Nuovo J. G, Zaninotto G, Croce C.M and Rugge M. Transcribed ultraconserved noncoding RNAs (T-UCR) are involved in Barrett's esophagus carcinogenesis. *Oncotarget* 2014, Vol 5, No 16. IF= 6.359;
7. Perilli L, Vicentini C, Agostini M, Pizzini S, Pizzi M, **D'Angelo E**, Bortoluzzi S, Mandruzzato S, Mammano E, Rugge M, Nitti D, Scarpa A, Fassan M, Zanovello P. Circulating miR-182 is a biomarker of colorectal adenocarcinoma progression. *Oncotarget* 2014, Vol 5, No 16. IF= 6.359;
8. Sikora K, Bedin C, Vicentini C, Malpeli G, **D'Angelo E**, Sperandio N, Lawlor RT, Bassi C, Tortora G, Nitti D, Agostini M, Fassan M, Scarpa A. Evaluation of cell-free DNA as a biomarker for pancreatic malignancies. *Int J Biol Markers*. 2014 May 8:0. doi: 10.5301/ijbm.5000088. PubMed PMID: 24832178. IF= 1.592;
9. Vicentini C, Fassan M, **D'Angelo E**, Corbo V, Silvestris N, Nuovo GJ, Scarpa A. Clinical application of microRNA testing in neuroendocrine tumors of the gastrointestinal tract. *Molecules*. 2014 Feb 21;19(2):2458-68. doi: 10.3390/molecules19022458. PubMed PMID: 24566314. IF= 2.428;

Publications

10. Agostini M, Crotti S, Bedin C, Cecchin E, Maretto I, **D'Angelo E**, Pucciarelli S, Nitti D. Predictive response biomarkers in rectal cancer neoadjuvant treatment. *Front Biosci (Schol Ed)*. 2014 Jan 1;6:110-9. Review. PubMed PMID: 24389265. IF= 3.523;
11. Agostini M, Bedin C, Enzo MV, Molin L, Traldi P, **D'Angelo E**, Maschietto E, Serraglia R, Ragazzi E, Prevedello L, Foletto M, Nitti D. Multivariate analysis approach to the serum peptide profile of morbidly obese patients. *Dis Markers*. 2013;34(4):269-78. doi: 10.3233/DMA-130971. PubMed PMID: 23396294; PubMed Central PMCID: PMC3810107. IF= 2.174;
12. Urso E, Agostini M, Pucciarelli S, Bedin C, **D'Angelo E**, Mescoli C, Viel A, Maretto I, Mammi I, Nitti D. Soft tissue sarcoma and the hereditary non-polyposis colorectal cancer (HNPCC) syndrome: formulation of an hypothesis. *Mol Biol Rep*. 2012 Oct;39(10):9307-10. doi: 10.1007/s11033-012-1729-2. Epub 2012 Jul 11. Review. PubMed PMID: 22782591. IF= 2.506;

Marioni G, Agostini M, Bedin C, Blandamura S, Stellini E, Favero G, Lionello M, Giacomelli L, Burti S, **D'Angelo E**, Nitti D, Staffieri A, De Filippis C. Survivin and laryngeal carcinoma prognosis: nuclear localization and expression of splice variants. *Histopathology*. 2012 Aug;61(2):247-56. doi: 10.1111/j.1365-2559.2012.04217.x. Epub 2012 Mar 14. PubMed PMID: 22416874. IF= 2.857;
13. Urso E, Agostini M, Pucciarelli S, Ruggie M, Bertorelle R, Maretto I, Bedin C, **D'Angelo E**, Mescoli C, Zorzi M, Viel A, Bruttocao G, Ferraro B, Erroi F, Contin P, De Salvo GL, Nitti D. Clinical and molecular detection of inherited colorectal cancers in northeast Italy: a first prospective study of incidence of Lynch syndrome and MUTYH-related colorectal cancer in Italy. *Tumour Biol*. 2012 Jun;33(3):857-64. doi: 10.1007/s13277-011-0312-0. Epub 2012 Jan 26. PubMed PMID: 22278153. IF= 2.518;
14. Agostini M, Enzo MV, Bedin C, Belardinelli V, Goldin E, Del Bianco P, Maschietto E, **D'Angelo E**, Izzi L, Saccani A, Zavagno G, Nitti D. Circulating cell-free DNA: a promising marker of regional lymphnode metastasis in breast cancer patients. *Cancer Biomark*. 2012;11(2-3):89-98. PubMed PMID: 23011155. IF= 0.972;
15. BIOBANICHE. Importanza, implicazioni e opportunità per la società. Risvolti scientifici, etico-giuridici e sociologici – a cura di Luciana Caenazzo. Capitolo: I network legati alle biobanche. Marco Agostini e **Edoardo D'Angelo** – pp. 89-96; Editore: libreriauniversitaria.it;
16. BIOBANICHE. Importanza, implicazioni e opportunità per la società. Risvolti scientifici, etico-giuridici e sociologici – a cura di Luciana Caenazzo. Capitolo: Organizzazione di una biobanca di tessuti biologici centralizzata per la ricerca oncologica. Marco Agostini, **Edoardo D'Angelo**, Donato Nitti – pp. 177-189; Editore: libreriauniversitaria.it
17. New Insights on biobank – Capitolo: “VIRTUAL BIOLOGICAL NETWORKS: NEW ERA FOR BIOBANKING” - Agostini M., Pastrello C., Jurisica I., D'Angelo E., Nitti D. pp. 23- 39; Editore: Cleup.

Seminars

Poster presentation at the International Meeting of Network Internazionale per la Bioterapia dei Tumori (NIBIT): “Cancer: Inflammation and Immunity” – Finale Ligure (SV), 16-18 September 2015. Title: **“Achievement and characterisation of a tumor extracellular matrix as a 3D scaffold for cancer research”**;

Participation at the International Congress of American Association for Cancer Research (AACR) - Ernest N. Memorial Convention Center - New Orleans (LA), 16-20 April 2016.

I authorize the use of personal data contained in my curriculum vitae according art. 13 del D. Lgs. 196/2003.