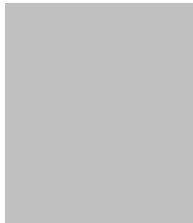





PERSONAL INFORMATION



Chiara Bedin, *PhD*

-  Paediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy
-  +39 049 9640160
-  [c.bedin@irpcds.org](mailto:c.bedin@irpcds.org)
-  [www.cittadellasperanza.org](http://www.cittadellasperanza.org)

PREFERRED JOB  
STUDIES APPLIED FOR  
PERSONAL STATEMENT

Postdoctoral Researcher  
PhD in Biology and Medicine of Regeneration  
Master's level degree in Medical Biotechnology

WORK EXPERIENCE

- from May, 2016-

**Lab Technician**  
Euroimmun Italia s.r.l.

  - Reference Laboratory

Activities of lab technician for advanced diagnostic investigations on behalf of corporate customers.
- from January, 2016-

**Postdoctoral Researcher**  
Paediatric Research institute

  - Nano-inspired Biomedicine Lab

Research activities and lab manager.
- September, 2015-Dicember, 2015

**Research Collaborator**  
Paediatric Research institute

  - Nano-inspired Biomedicine Lab

Research and standardization of a method for gene expression analysis in plasma samples.
- January, 2014-June, 2015

**Post-graduate Research Fellowship**  
First Surgical Clinic, Department of Surgical, Oncological and Gastroenterological Sciences, University of Padua (Director Prof. D. Nitti)

  - Molecular Biology Lab and Centre for Colon Disease Prevention

Research activities within the Research Finalized Project entitled "Targeted Multistage Vector (MSV) for the diagnosis and treatment of solid tumors" (Project code: RF-2010-230526) and participation to the coordination activities and management of the working groups involved in the project. Genetic diagnosis of hereditary colorectal cancer. Tissue Bank management.
- November, 2011-May, 2012

**PhD Student**  
The Methodist Hospital Research Institute, Department of Nanomedicine, Houston, TX, USA (CEO: Prof. M. Ferrari, Tutor: Prof. E. Tasciotti, PhD)

  - Tasciotti's Team: It is interested to the innovative technological platforms development and biomaterials for drug delivery and regenerative medicine

Research on the nanotechnology/nanomaterials application of plasma protein profile analysis for circulating cancer biomarkers discovery.
- 2011-2013

**PhD Student**  
First Surgical Clinic, Department of Surgical, Oncological and Gastroenterological Sciences, University of Padua (Director Prof. D. Nitti)

  - Molecular Biology Lab and Centre for Colon Disease Prevention

Research and clinical application of nanotechnology/nanomaterials in proteomics by mass spectrometry analysis. Research activities and study of circulating and tissue tumor biomarkers in colorectal cancer, breast and head and neck cancers. Genetic diagnosis of hereditary colorectal cancer. Tissue Bank management.

- 2010 **Lab Technician Fellowship (6 months)**  
 Second Surgical Clinic, Department of Oncological and Surgical Sciences, University of Padua (Director Prof. D. Nitti)
- Molecular Biology Lab and Centre for Colon Disease Prevention at the Second Surgical Clinic, Department of Oncological and Surgical Sciences, University of Padua (Director Prof. D. Nitti)
- Research within the University of Padua project called Progetto di Ateneo Bando 2008: "*Ruolo prognostico delle cellule tumorali circolanti nei pazienti con metastasi epatiche non reseccabili da carcinoma coloretale*". Research activities to study circulating biomarkers in the pathological obesity disease. Genetic diagnosis of hereditary colorectal cancer. Tissue Bank management.
- 2009-2010 **Lab Technician Fellowship (10 months)**  
 Veneto Oncology Institute IRCCS
- Molecular Biology Lab and Centre for Colon Disease Prevention
- Research within the project "*Validation of Targeted Therapies and Related Biomarkers to Predict Tumour Response*". Genetic diagnosis of hereditary colorectal cancer. Tissue Bank management.
- 2006-2009 **Technical Collaborator**  
 Department of Clinical and Experimental Medicine, University of Padua (Director Prof. A. Gatta)
- Molecular Biology Lab at the Second Surgical Clinic, Department of Oncological and Surgical Sciences, University of Padua (Director Prof. D. Nitti)
- Research within the FIRB 2003 project "*Nanosized Cancer Biochip Polymarker*" (RBLA03S4SP\_005 Protocol) to study the circulating cancer biomarkers and standardization of ELISA test. Planning and standardization of the genetic diagnostics activity of hereditary colorectal cancer. Tissue Bank management.
- 2002-2006 **Lab Technician**  
 Center for Male Gamete Cryopreservation, Hospital of Padua (Director Prof. C. Foresta)
- Molecular Biology Lab at the Second Surgical Clinic, Department of Oncological and Surgical Sciences, University of Padua (Director Prof. D. Nitti)
- Genetic diagnosis of male infertility and semen analysis.

## EDUCATION AND TRAINING

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- 2011-2013 **PhD**  
 Doctoral School of Biology and Medicine of Regeneration (Director Prof. P. Parrigotto / Prof. M. T. Conconi), University of Padua
- Study, research and application of stem cells and use of biomaterials for scaffolds and targets delivery, applied to regenerative medicine.
- 2005-2010 **Master's level degree in Medical Biotechnologies (DM 509/99)**  
 Faculty of Medicine, University of Padua
- To possess the ability to assist in diagnostic and therapeutic actions involving the manipulation of cells, genes, and other biosystems that need particular experimental skills applicants. To organize and coordinate the laboratory activities for research or advanced diagnostic tests and the experimental part of clinical research protocols requiring the use of biotechnological methods or materials. To plan and carry out independently research in biotechnology field, applied to medicine. To conduct and coordinate, also at administrative level, the development of programs and surveillance of humans-applied biotechnologies, considering the ethical, technical, environmental and economic implications.
- 2002-2003 **Bachelor's level degree Biomedical Laboratory Techniques (DM 509/99).**  
 Faculty of Medicine, University of Padua
- To work with professional autonomy and ability to apply the protocols in accordance with Italian and European regulations; to know the general principles and quality control applications, certification and/or accreditation and computerization in the laboratory, concerning also to the reports and clinical data preservation; to know the ethical and professional behavior associated to the profession. Main studied disciplines: clinical biochemistry, microbiology, virology, pathology, molecular biology and transfusion center.

1998-2001 **University Diploma in Biomedical Laboratory Technician**

Faculty of Medicine, University of Padua

- To know the job organization and the basis of the different methods used in various fields of Laboratory Medicine (pathology, clinical biochemistry, clinical pathology, microbiology and virology, parasitology, hematology and transfusion, immunology, immuno-hematology, genetics, molecular biology). To know the principles of laboratory equipment.

1993-1998 **High School Diploma in Experimental Science**

I.T.F.S. -S. B. Boscardin- biological and health orientation, Vicenza

- Main disciplines and attended laboratory: Analytical Chemistry, Organic Chemistry and Biochemistry, Chemistry, Microbiology, Anatomy and Physiology, Science and Biology, Physics.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B2	B1	B2

Communication skills

- Good experience in supervising interns/technicians in laboratory activities.
- Good communication skills gained through collaborations with other laboratories: ability to work well in teams and good skills to communicate effectively with different scientific figures such as biostatistics, bioinformatics, analytical chemists, chemical engineers and mathematicians.
- Good communication skills with physicians obtained during my experience for the recovery and management of clinical data for the diagnostic, research and Tissue Bank database.

Organisational / managerial skills

- Good organizational and management skills in both administrative (I currently work as lab manager) and experimental level (such as to plan, organize and manage the genetic diagnosis activity).
- Good ability to work independently and in groups.
- Good analytical, organizational and time management skills.
- Good skills in planning and drawing up of research projects.

Job-related skills

- Excellent knowledge and mastership of the principles and techniques of PCR, Real Time-PCR, High Resolution Melting, Sequencing, MLPA, Microsatellite instability, gene and miRNA expression analysis.
- Knowledge and good mastership of several principles and techniques in different lab disciplines such as: immune- and histochemistry, flowcytometry, enzymeimmunoassay (EIA and ELISA), radioimmunoassay, susceptibility testing, cell culture, microscopy, capillary electrophoresis, DHPLC, mass spectrometry.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
independent	independent	independent	independent	basic

- Good knowledge of Office application (word processing, electronic spreadsheet, presentation software) and Internet.
- Good command of specialized softwares: SeqScape, GeneMapper, GraphPad, Primer3, OligoAnalyzer, Coffalyser, MetaboAnalyst, Ensemble Genome Browser, Genbank, Blast/Blat, Genecard, UniProt, NCBI.
- Good command of mutations, SNP and predictions database of missense mutations.

Other skills ▪ Volleyball at competitive level (for 22 years)

Driving licence B

## ADDITIONAL INFORMATION

### Publications

1. Marioni G, Agostini M, Cappellesso R, **Bedin C**, Ottaviano G, Marchese-Ragona R, Lovato A, Cacco T, Giacomelli L, Nitti D, Blandamura S, Stellini E, de Filippis C. *miR-19a and SOCS-1 expression in the differential diagnosis of laryngeal (glottic) verrucous squamous cell carcinoma*. J Clin Pathol. 2016 May;69(5):415-21.
2. Agatea L, Crotti S, Ragazzi E, **Bedin C**, Urso E, Mammi I, Traldi P, Pucciarelli S, Nitti D, Agostini M. *Peptide Patterns as Discriminating Biomarkers in Plasma of Patients With Familial Adenomatous Polyposis*. Clin Colorectal Cancer. 2015 Dec 19. pii: S1533-0028(15)00153-X. doi: 10.1016/j.clcc.2015.12.002. [Epub ahead of print]
3. **Bedin C**, Crotti S, Ragazzi E, Pucciarelli S, Agatea L, Tasciotti E, Ferrari M, Traldi P, Rizzolio F, Giordano A, Nitti D, Agostini M. *Alterations of the Plasma Peptidome Profiling in Colorectal Cancer Progression*. J Cell Physiol. 2015 Sep 17. doi: 10.1002/jcp.25196. [Epub ahead of print]
4. Agostini M, Janssen KP, Kim LJ, 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.
5. Simbolo M, Mafficini A, Agostini M, Pedrazzani C, **Bedin C**, Urso ED, Nitti D, Turri G, Scardoni M, Fassan M, Scarpa A. *Next-generation sequencing for genetic testing of familial colorectal cancer syndromes*. Hered Cancer Clin Pract. 2015 Aug 21;13(1):18.
6. Agostini M, Zangrando A, Pastrello C, D'Angelo E, Romano G, Giovannoni R, Giordano M, Maretto I, **Bedin C**, Zanon C, Digito M, Esposito G, Mescoli C, Lavitrano M, Rizzolio F, Jurisica I, Giordano A, Pucciarelli S, Nitti D. *A functional biological network centered on XRCC3: a new possible marker of chemoradiotherapy resistance in rectal cancer patients*. Cancer Biol Ther. 2015 Aug 3;16(8):1160-71
7. Crotti S, Enzo MV, **Bedin C**, Pucciarelli S, Maretto I, Del Bianco P, Traldi P, Tasciotti E, Ferrari M, Rizzolio F, Toffoli G, Giordano A, Nitti D, Agostini M. *Clinical predictive circulating peptides in rectal cancer patients treated with neoadjuvant chemoradiotherapy*. J Cell Physiol. 2015 Aug;230(8):1822-8.
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. 2015 Feb 24;30(1):e136-41.
9. Ao Kong, Gupta C, Ferrari M, Agostini M, **Bedin C**, Bouamrani A, Tasciotti E, Azencott R. *Biomarker Signature Discovery from Mass Spectrometry Data*. IEEE/ACM Trans Comput Biol Bioinform. 2014 Jul-Aug;11(4):766-72.
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.
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.
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.
13. 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 lymph node metastasis in breast cancer patients*. Cancer Biomark. 2012;11(2-3):89-98.
14. Roman M, Jitaru P, Agostini M, Cozzi G, Pucciarelli S, Nitti D, **Bedin C**, Barbante C. *Serum seleno-proteins status for colorectal cancer screening explored by data mining techniques - a multidisciplinary pilot study*. Microchemical Journal. 2012;105:124-132.
15. 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.
16. Urso E, Agostini M, Pucciarelli S, Rugge 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.
17. Agostini M, **Bedin C**, Pucciarelli S, Enzo M, Briarava M, Seraglia R, Ragazzi E, Traldi P, Molin L, Urso ED, Mammi I, Viel A, Lise M, Tasciotti E, Biasiolo A, Pontisso P, Nitti D. *APC I1307K mutations and forkhead box gene (FOXO1A): another piece of an interesting correlation*. Int J Biol Markers. 2012 Jan-Mar;27(1):13-9.
18. Agostini M, Pucciarelli S, Enzo MV, Del Bianco P, Briarava M, **Bedin C**, Maretto I, Friso ML, Lonardi S, Mescoli C, Toppan P, Urso E, Nitti D. *Circulating cell-free DNA: a promising marker of pathologic tumor response in rectal cancer patients receiving preoperative chemoradiotherapy*. Ann Surg Oncol. 2011 Sep;18(9):2461-8.

19. Pastrello C, Pin E, Marroni F, **Bedin C**, Fornasari M, Tibiletti MG, Oliani C, Ponz de Leon M, Urso ED, Della Puppa L, Agostini M, Viel A. *Integrated analysis of Unclassified Variants in Mismatch Repair genes*. Genet Med. 2011 Feb;13(2):115-24
20. Agostini M, Pucciarelli S, Calore F, **Bedin C**, Enzo M, Nitti D. *miRNAs in colon and rectal cancer: A consensus for their true clinical value*. Clin Chim Acta. 2010 Sep 6;411(17-18):1181-6.
21. Agostini M, Enzo MV, Morandi L, **Bedin C**, Pizzini S, Mason S, Bertorelle R, Urso E, Mescoli C, Lise M, Pucciarelli S, Nitti D. *A ten markers panel provides a more accurate and complete microsatellite instability analysis in mismatch repair-deficient colorectal tumors*. Cancer Biomark. 2010 Jan;6(1):49-61.
22. Cristoni S, Molin L, Lai A, Bernardi LR, Pucciarelli S, Agostini M, **Bedin C**, Nitti D, Seraglia R, Repetto O, Dibari VF, Orlandi R, Sinues PM, Traldi P. *MALDI-MS-NIST library approach for colonrectal cancer diagnosis*. Rapid Commun Mass Spectrom. 2009 Sep;23(17):2839-45.
23. Agostini M, Pasetto LM, Pucciarelli S, Terrazzino S, Ambrosi A, **Bedin C**, Galdi F, Friso ML, Mescoli C, Urso E, Leon A, Lise M, Nitti D. *Glutathione S-Transferase P1 Ile105Val polymorphism is associated with a haematological toxicity in elderly rectal cancer patients receiving preoperative chemoradiotherapy*. Drugs Aging 2008;25(6):531-539.
24. Seraglia R, Molin L, Tonidadel L, Pucciarelli S, Agostini M, Urso ED, **Bedin C**, Quaia M, Nitti D, Traldi P. *An investigation on the nature of the peptide at m/z 904, overexpressed in plasma of patients with colorectal cancer and familial adenomatous polyposis*. J Mass Spectrom. 2007;42:1606-1612.
25. Arredi B, Ferlin A, Speltra E, **Bedin C**, Zuccarello D, Ganz F, Marchina E, Stoppia L, Krausz C, Foresta C. *Y-chromosome haplogroups and susceptibility to azoospermia factor c microdeletion in a Italian population*. J Med Genet. 2007;44:205-208.

#### Presentations to Conferences and Seminars

1. Sammarco A, Mainenti M, Boffagna G, Cavicchioli L, Ferro S, Mollo A, **Bedin C**, Agostini M, Zappulli V. *Plasma circulating cell-free dna and apoptotic markers in canine mammary tumours*. 2<sup>nd</sup> Joint European Congress of the ESVP, ESTP and ECVP, Berlin, Germany. August 27th – 30th, 2014
2. Pucciarelli S, Rampazzo E, Briarava M, Serra L, **Bedin C**, Lonardi S, Mescoli C., Digito M., De Rossi A, Nitti D. *Plasma levels of total RNA and hTERT mRNA as biomarkers of response in rectal cancer patients receiving preoperative chemoradiotherapy*. ASCO Annual Meeting 2010, American Society of Clinical Oncology, Chicago (Illinois, USA) June 4-8, 2010
3. Tasciotti E, Agostini M, Bouamrani A, **Bedin C**, Paredes Y, Pucciarelli S, Nitti D, Ferrari M. *Identification of patients with adenomas or early- and late-stage colon carcinomas using nanoporous silica chips for protein profiling*. AACR 101<sup>st</sup> Annual Meeting 2010, American Association of Cancer Research, Washington (Washington DC, USA) April 17-21, 2010.
4. Agostini M, Enzo MV, Pucciarelli S, Pizzini S, **Bedin C**, Friso ML, Lonardi S, Mescoli C, Toppan P, Galdi F, Lise M, Nitti D. *Integrity of free circulating DNA: a predictor of pathologic tumor response in rectal cancer patients receiving preoperative chemoradiation*. AACR 100<sup>th</sup> Annual Meeting 2009, American Association of Cancer Research, Denver (Colorado, USA) April 18-22, 2009.
5. Agostini M, Biasiolo A, Pucciarelli S, Maier D, **Bedin C**, Enzo M, Galdi F, Maretto I, Nitti D, Gatta A, Pontisso P. *Matrix Metalloproteinase 9 (MMP9)-IgM complex: an emergine novel biomarker in colorectal cancer*. 16<sup>th</sup> UEGW, United European Gastroenterology Week, Vienna (Austria), 18-22 October, 2008. Gut, Vol. 57, Supplement II, October 2008.
6. Agostini M, Enzo MV, Pucciarelli S, **Bedin C**, Pizzini S, Urso ED, Nitti D. *Forkhead box gene (FOXO1A) the emergine role in colon cancer*. AACR Annual Meeting 2008, American Association of Cancer Research, San Diego (California, USA) April 12-16, 2008.
7. Agostini M, Pucciarelli S, Urso ED, Mammi I, **Bedin C**, Viel A, Pastrello C, Nitti D. *Lynch Syndrome e significato di varianti non classificate in MLH1 e MSH2*. VI Congresso Nazionale AIFEG, Associazione Italiana per lo studio della Familiarità ed Ereditarietà dei tumori Gastrointestinali, San Giovanni Rotondo (FG), 28-29 Novembre 2007.
8. Agostini M, Pucciarelli S, Seraglia R, Ragazzi E, Traldi P, Urso ED, Mammi I, Viel A, **Bedin C**, Lise M, Nitti D. *FOXO1A and plasma low molecular weight proteins determination: a promising diagnostic approach and biomarker for colorectal tumors*. EORTC-NCI-ASCO Annual Meeting on Molecular Markers in Cancer, Brussels (Belgium), November 15-17, 2007. EJC, European Journal of Cancer, Vol. 5, No. 8, November 2007.
9. Ganz F, Dabilli P, Vianzi C, Bartoloni L, **Bedin C**, Ferlin A, Foresta C. *Mutation screening in DHH (Desert Hedgehog) gene in male infertility*. ESHG, European Society of Human Genetics, Prague (Czech Republic), May 7-10, 2005.
10. Ferigo M, **Bedin C**, Fortini D, Moretti A, Menegazzo M, Caretta N, Ferlin A, Foresta C. *Studio delle aneuploidie cromosomiche negli spermatozoi umani: risultati di tre anni di esperienza*. VIII Congresso Nazionale SIGU, Società Italiana di Genetica Umana, Cagliari 25-30 Settembre 2005.
11. Vianzi C, **Bedin C**, Cazzadore C, Garolla A, Selice R, Caretta N, Ferlin A, Foresta C. *Genetica molecolare dell'infertilità maschile: 5 anni di esperienza di un centro italiano*. VIII Congresso Nazionale SIGU, Società Italiana di Genetica Umana, Cagliari 25-30 Settembre 2005.
12. Ferlin A, Ganz F, **Bedin C**, Speltra E, Ferigo M, Arredi B, Foresta C. *Delezioni parziali della regione AZFc e infertilità maschile*. VIII Congresso Nazionale SIGU, Società Italiana di Genetica Umana, Cagliari 25-30 Settembre 2005.

13. **Bedin C**, Ferigo M, Menegazzo M, Fortini D, De Toni L, Foresta C, Ferlin A. *Alterazioni genetiche costitutive e aneuploidie spermatiche dei cromosomi sessuali nei soggetti oligozoospermici*. VIII Congresso Nazionale SIGU, Società Italiana di Genetica Umana, Cagliari 25-30 Settembre 2005.

Scientific Collaboration with  
Industrial Partner

1. EUROIMMUN ITALIA Srl
2. EuroClone SpA
3. EXPERTEAM di De Bortoli Angelo & C. S.A.S.
4. AB Analitica Srl

Patents

Publication n: WO2015161880

Title: AN IN VITRO DIAGNOSTIC METHOD FOR CANCER BY MEANS OF CIRCULATING, CELL-FREE DNA

Inventors: Sacconi Andrea, Agostini Marco, **Bedin Chiara**

International Patent Classification: C12Q 1/68

Application n: WO2014EP58356 20140424

I authorize the use of my personal information, pursuant to Legislative Decree 196 of June 30, 2003.