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## SECTION I: GENERALITIES

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Name: **Eugenio BERTELLI**

Date of birth: Oct. 16, 1962.

Place of birth: Siena (Italy)

Home address Strada di Ficareto 15/2, I-53100 Siena, Italy

Current Position: Associate Professor of Human Anatomy

Current affiliation: Department of Pharmacology “Giorgio Segre”,  
University of Siena,  
Via Aldo Moro 2, I-53100 Siena  
Tel: 0577-234045 Fax: 0577-234076  
E-mail: bertelli5@unisi.it

Citizenship: Italy

Languages: Italian, English

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## SECTION II: EDUCATION

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July 1981 Secondary school diploma (Scientific studies)

1982-1984 Undergraduate student at the Institute of Human Physiology of the University of Siena

1984-1987 Undergraduate student at the Institute of General Surgery of the University of Siena

March 22<sup>nd</sup>, 1988 **Medical Degree** from University of Siena  
**Thesis:** “La vascolarizzazione delle flessure coliche studiata con il metodo radiologico” [The vascularization of the colic flexures: an anatomico-radiological study].

**Post-graduate formation**

- 1989-90 Military service as medical lieutenant
- 1989-1992 Attended the School of specialization in General Surgery at the University of Siena
- 1992-1995 Attended the Institute of Human Anatomy as a Ph.D. student
- 1996 **Doctor of Philosophy in Morphological Sciences**; University of Siena  
**Dissertation**: “Problematiche di studio attuali in tema di anatomia microscopica del pancreas” [New data of microscopic anatomy of the pancreas]

**Post-doctoral formation**

- 1995-1997 Post-doctoral fellow at the Dept. of Anatomy of the University of Montréal, Canada, (Dr. M. Bendayan’s Laboratory)
- 1997-1998 Post-doctoral fellow at the Dept. of Biomedical Sciences, University of Siena
- 1999-2001 Contract of research at the Dept. of Anatomical and Biomedical Sciences, University of Siena

**Fellowships**

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| Research Assistant University of Montreal | 1995-1996 |
| Italian Superior Institute of Health      | 1996-1997 |
| University of Siena                       | 1997-1998 |

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**SECTION III: TEACHING EXPERIENCES**

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- 1992-1993 Instructor of anatomy and physiology at the “national public health nursing school” of Siena
- 1999-2000 Lecturer of neuroanatomy at the school of Neurophysiopathologists (University of Siena)
- 2002-2003 Lecturer of Anatomy in the post-graduate School of Urology
- 2002- 2004 Lecturer of anatomy at the School of Nephrology (University of Siena)
- 2002-2004 and 2012- currently Lecturer of anatomy at the School of Orthopedy (University of Siena)
- 2002-currently Lecturer of anatomy at the School of Ophthalmology (University of Siena)
- 2002-currently Lecturer of Anatomy at the school of Pediatric Surgery (University of Siena)

2002-2012	Lecturer of Anatomy at the school of Dentistry (University of Siena)
2001-2007	Lecturer of Anatomy at the school of Medicine
2002-2010	Lecturer of Anatomy at the postgraduate school of Reumatology
2004-2012	Lecturer of Anatomy at the school of Physioterapy
2003-2006	Lecturer of Anatomy at the of Techniques for CV Perfusion (University of Siena)
2008-currently	Lecturer of Anatomy at the faculty of Biological Sciences
2009-2012	Lecturer of Anatomy at the school of Optometrists
2011-currently	Lecturer of Anatomy at the faculty of Pharmacy
2009-currently	Lecturer of Anatomy at the master in Sport Physioterapy

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#### SECTION IV: POSITIONS

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April 2001 Visiting professor at the University of Montreal

2002-Currently Associate professor at the University of Siena

October 2003 Visiting professor at the University of Montreal

October 2005 Visiting Professor at the University of Montreal

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#### SECTION V: RESEARCH ACTIVITY

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Mucosal Immunology

Anatomy of the eye

Cell biology of the pancreas

Vascular anatomy of the abdomen

##### **Current collaborations**

- 1) **Dr. Moïse Bendayan** Department of Pathology and Cell Biology, University of Montreal, Canada
- 2) **Dr. Claudio Nicoletti** Laboratory of Gut immunology, Institute of Food Research, Colney, Norwich, NR4 7UA, UK.
- 3) Prof. **Alexander Petrenko** Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences (IBCh, RAS), St. Miklukho-Maklaya, 16/10, GSP-7, Moscow, 117997 Russia

##### **Seminars**

November 23<sup>rd</sup>, 1994 “*Lymphatic network in guinea pig pancreas: endocrine tissue associated with the pancreatic ducts. Light and electron microscopic studies*” Département d’anatomie, Université de Montréal, Montréal, Québec, Canada.

May 7<sup>th</sup>, 1997 “*Intermediate pancreatic cells: fantasy or reality?*” Département d’anatomie, Université de Montréal, Montréal, Québec, Canada.

Aug 21<sup>st</sup>, 2001 “GFAP expression in the endocrine pancreas. Old protein, new functions?” Department of Anatomical Sciences, University of Witswatersrand, Johannesburg, South Africa

Oct 3<sup>rd</sup>, 2005 “*Morpho-functional relationships between endocrine pancreas and ducts in adult rat pancreas. An overview*” Département de Pathologie et Biologie cellulaire, Université de Montréal, Montréal, Québec, Canada.

Oct 11<sup>th</sup>, 2005 “*Transcytosis in intestinal M cells: from bacteria to cells, up to soluble peanut allergens*” Département de Pathologie et Biologie cellulaire, Université de Montréal, Montréal, Québec, Canada.

### **Membership**

Histochemical Society

Società Italiana di Anatomia ed Istologia

### **Board participation to international journals**

Journal of Histochemistry and Cytochemistry from January 2008

Journal of Molecular Histology

Anatomy and Cell Biology

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## **SECTION VI: Scientific Production**

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1. **Bertelli E**, Regoli M, Comparini L (1993) Histotopographic and ultrastructural study on the lymphatic network of the pancreas in the guinea pig. **Acta Anat**, 147:233-239.
2. Regoli M, **Bertelli E**, Nicoletti C, Borghesi C (1994) A morphological study of the lymphocyte traffic in Peyer's patches after an in vivo antigenic stimulation. **Anat Rec**, 239: 47-54.

3. **Bertelli E**, Regoli M, Bastianini A (1994) Endocrine tissue associated with the pancreatic ductal system: a light and electron microscopic study of the adult rat pancreas with special reference to a new endocrine arrangement. **Anat Rec**, 239: 371-378.
4. **Bertelli E**, Regoli M (1994) A morphological study of the primary cilia in the rat pancreatic ductal system: ultrastructural features and variability. **Acta Anat**. 151: 194-197.
5. Regoli M, Borghesi C, **Bertelli E**, Nicoletti C (1995) Uptake of a Gram-Positive Bacterium (*Streptococcus pneumoniae* R36a) by the M Cells of Rabbit Peyer's Patches. **Annals Anat (Anat Anz)**, 177: 119-124
6. Regoli M, Borghesi C, **Bertelli E**, Comparini L (1995) Arrangement of the Small Intestine Lymphatic Network in Mouse Peyer's Patches: a Light and Transmission Electron Microscopic Study. **Annals Anat (Anat Anz)**, 177: 229-235
7. **Bertelli E**, Di Gregorio F, Bertelli L, Mosca S (1995) The arterial blood supply of the pancreas: a review. I. The superior pancreatico-duodenal and the anterior superior pancreatico-duodenal arteries. An anatomical and radiological study. **Surg Radiol Anat**, 17: 97-106.
8. Regoli M, **Bertelli E**, Borghesi C, Nicoletti C (1995) Three-dimensional (3D-) reconstruction of M cells in rabbit Peyer's patches: definition of the intraepithelial compartment of the follicle-associated epithelium. **Anat Rec**, 243: 19-26
9. **Bertelli E**, Bertelli L, Di Gregorio F, Civeli L, Mosca S (1996) The arterial blood supply of the pancreas: a review. II. The posterior superior pancreaticoduodenal artery. An anatomical and radiological study. **Surg Radiol Anat**, 18: 1-9
10. **Bertelli E**, Di Gregorio F, Bertelli L, Civeli L, Mosca S (1996) The arterial blood supply of the pancreas: a review. III. The inferior pancreaticoduodenal artery. An anatomical review and a radiological study. **Surg Radiol Anat**, 18: 67-74.
11. Borghesi C, Regoli M, **Bertelli E**, Nicoletti C (1996) Modifications of the follicle-associated epithelium upon a short-term exposure to a non-intestinal bacterium. **J Pathol**, 180: 326-332.
12. Bertelli L, Lorenzini L, **Bertelli E** (1996) The arterial vascularization of the large intestine. Anatomical and radiological study. **Surg Radiol Anat**, 18 [Suppl I]: S1-S59
13. Borghesi C, Regoli M, **Bertelli E**, Nicoletti C (1996) M cell: the main entrance of the mucosal immune system. **Fund Clin Immunol**, 4: 87-93
14. **Bertelli E**, Bendayan M (1997) Intermediate endocrine-acinar pancreatic cells in duct-ligation condition. **Am J Physiol**, 273: C1641-C1649

15. **Bertelli E**, Di Gregorio F, Bertelli L, Orazioli D, Bastianini A (1997) The arterial blood supply of the pancreas: a review. IV. The anterior inferior and posterior inferior pancreaticoduodenal arteries, and minor sources of blood supply for the head of the pancreas. An anatomical review and a radiological study. **Surg Radiol Anat**, 19: 203-212
16. **Bertelli E**, Di Gregorio F, Mosca S, Bastianini A. (1998) The arterial blood supply of the pancreas: a review. V. The dorsal pancreatic artery. An anatomical review and a radiological study. **Surg Radiol Anat**, 20:445-452
17. Regoli M., Orazioli D., Gerli R., **Bertelli E**. Glial Fibrillary Acidic Protein (2000) (GFAP)-like immunoreactivity in rat endocrine pancreas. **J Histochem Cytochem**, 48: 259-265.
18. **Bertelli E**, Regoli M, Gambelli F, Lucattelli M, Lungarella G, Bastianini A. (2000) GFAP is expressed as a major soluble pool associated to glucagon secretory granules in A-cells of mouse pancreas. **J Histochem Cytochem**, 48: 1233-1242
19. Regoli M, **Bertelli E**, Orazioli D, Fonzi L, Bastianini A (2001) The pancreatic lymphatic system in rodents. **Anat Rec**, 263:155-160.
20. **Bertelli E**, Regoli M, Orazioli D, Bendayan M (2001) Association between islets of Langerhans and pancreatic ductal system in adult rat. Where endocrine and exocrine meet together? **Diabetologia**, 44:575-584.
21. **Bertelli E**, Regoli M, Lucattelli M, Bastianini A, Fonzi L. (2002) Nestin expression in rat adrenal gland. **Histochemistry Cell Biol**, 117:371-377
22. Regoli M, Bendayan M, Fonzi L, Sernia C, **Bertelli E** (2003) Angiotensinogen localization and secretion in rat pancreas. **J Endocrinol**, 179: 81-89.
23. Chambers SJ, **Bertelli E**, Winterbone MS, Regoli M, Man AL, Nicoletti C (2004) Adoptive transfer of dendritic cells from allergic mice induces specific IgE antibody in naïve recipients in absence of antigen challenge without altering Th1/Th2 responses. **Immunology**, 112: 72-79
24. Man AJ, **Bertelli E**, Regoli M, Chambers SJ, Nicoletti C (2004) Antigen-specific T cell-mediated apoptosis of dendritic cells is impaired in a mouse model of food allergy. **J Allergy Clin Immunol**, 113: 965-972
25. Carapelli A, Regoli M, Nicoletti C, Ermini L, Fonzi L, **Bertelli E** (2004) Rabbit tonsil-associated M cells express cytokeratin 20 and take up particulate antigen. **J Histochem Cytochem**, 52:1323-1332
26. Chambers SJ, Wickham MSJ, Regoli M, **Bertelli E**, Gunning PA, Nicoletti C (2004) Rapid *in vivo* transport of proteins from digested allergen across pre-sensitized gut. **Biochem Biophys Res Commun**, 325:1258-1263
27. **Bertelli E**, Bendayan M (2005) Association between endocrine pancreas and ductal system. More than an epiphenomenon of endocrine differentiation and development? **J Histochem Cytochem**, 53:1071-1086.
28. Toti P, Regoli M, Nesi G, Occhini R, Bartolommei S, Fonzi L, **Bertelli E** (2005) Nestin expression in normal adrenal gland and adrenocortical tumors. **Histol Histopathol**, 20:1115-1120

29. Nicoletti C, Temblay JN, Regoli M, **Bertelli E**, Man AL (2006) Differential regulation of dendritic cell - T cell cross talk in the gut-associated lymphoid tissue. **Mol Immunol**, 43:542-549.
30. Crivellato E, Nico B, **Bertelli E**, Nussdorfer GG, Ribatti D (2006) Dense-core granules in neuroendocrine cells and neurons release their secretory constituents by piecemeal degranulation (review). **Int J Mol Med**, 18:1037-1046
31. **Bertelli E**, Regoli M, Fonzi L, Occhini S, Mannucci S, Ermini L, Toti P (2007) Nestin expression in adult and developing human kidney. **J Histochem Cytochem**, 55:411-421
32. Temblay JN, **Bertelli E**, Arques J, Regoli M, Nicoletti C (2007) Production of IL-12 by Peyer's patch-dendritic cells is critical for the resistance to food allergy. **J Allergy Clin Immunol**, 120:659-665
33. Arques J, Regoli M, **Bertelli E**, Nicoletti C (2008) Persistence of apoptosis-resistant T cell-activating dendritic cells promotes T helper type 2 responses and IgE production. **Mol Immunol**, 45:2177-2186
34. Man AL, Lodi F, **Bertelli E**, Regoli M, Pin C, Mulholland F, Satoskar AR, Taussig MJ, Nicoletti C (2008) Macrophage migration inhibitory factor plays a role in the regulation of microfold (M) cell-mediated transport in the gut. **J Immunol**, 181:5673-5680
35. Di Bella A, Regoli M, Nicoletti C, Ermini L, Fonzi L, **Bertelli E** (2009) An appraisal of intermediate filament expression in adult and developing pancreas: vimentin is expressed in alpha cells of rat and mouse embryos. **J Histochem Cytochem**, 57:577-86
36. Arques JL, Hauterfort I, Ivory K, **Bertelli E**, Regoli M, Clare S, Hinton JCD, Nicoletti C (2009) Salmonella induces flagellin- and MyD88-dependent migration of bacteria-capturing dendritic cells into the gut lumen. **Gastroenterology**, 137:579-87, 587.e1-2
37. Nicoletti C, Regoli M, **Bertelli E** (2009) Dendritic cell in the gut: to sample and to exclude? **Mucosal Immunol**, 2:462
38. Nicoletti C, Arques JL, **Bertelli E** (2010) CX3CR1 is critical for Salmonella-induced migration of dendritic cells into the intestinal lumen. **Gut Microbes**, 1:131-134
39. Deyev IE, Sohet F, Vassilenko KP, Serova OV, Popova NV, Zozulya SA, Burova EB, Houillier P, Rzhovsky DI, Berchatova AA, Murashev AN, Chugunov AO, Efremov RG, Nikol'sky NN, **Bertelli E**, Eladari D, Petrenko AG (2011) Insulin receptor-related receptor as an extracellular alkali sensor. **Cell Metabolism**, 13:679-689
40. Possidente M, Dragoni S, Franco G, Gori M, **Bertelli E**, Teodori E, Frosini M, Valoti M (2011) Rat intestinal precision-cut slices as an in vitro model to study xenobiotic interaction with transporters. **Eur J Pharm Biopharm**, 79:343-348
41. Dragoni S, Franco G, Regoli M, Bracciali M, Morandi V, Sgaragli G, **Bertelli E**, Valoti M (2012) Gold nanoparticles uptake and cytotoxicity assessed on rat liver precision-cut slices. **Toxicol Sci**, 128:186-197

**Contribution to books**

- Bertelli E** (2004) The blood supply of the pancreas. In: Skandalakis JE, Colborn GL, Weidman TA, Foster RS Jr, Kingsnorth AN, Skandalakis LJ, Skandalakis PN, Mirilas PS (eds) **Skandalakis' Surgical Anatomy: The Embryologic and Anatomic basis of Modern Surgery**. Paschaladis Medical Publications, Athens, Greece. pp 1185-1191
- Bertelli E**, Nicoletti C (2013) Cenni di anatomia del sistema articolare. In: Larizza Trattato di medicina interna. Vol. IV Reumatologia. Curatori: Galeazzi M and Marcolongo R. Piccin Nuova Libreria. In Press