




**INFORMAZIONI PERSONALI**

**Achille Anselmo**



 Milano, Italia  
  
 Achille\_anselmo@libero.it

**Sesso:** Maschio | **Data di nascita** 30/08/1979 | **Nazionalità** Italiana

**TITOLO DI STUDIO  
POSIZIONE RICOPERTA  
RUOLO IN SOMA**

Dottore di ricerca in Scienze farmacotossicologiche, farmacognostiche e biotecnologie farmaceutiche  
Docente del corso di Chimica e Biochimica

**ESPERIENZA  
PROFESSIONALE**

- 
- Dal 01 Aprile 2006

Tecnologo ricercatore presso Fondazione Humanitas per la Ricerca, via Manzoni 103/A Rozzano, Milano. Settore ricerca e sviluppo
  - Dal 30 Settembre 2017 al 30 Giugno 2020

Docente di Chimica (A034) presso istituto professionale V. Kandinskij, Milano
  - Ottobre 2011

EFIS Fellowship, University of Debrecen (Ungheria)  
Titolo del progetto: Molecular mechanisms involved in the Cross-talk between chemokine receptors and integrins analyzed by flow cytometric FRET
  - Ottobre 2010

UICC Technology Transfer, University of Debrecen (Ungheria)  
Titolo del progetto: Cross-talk between chemokines receptors and integrins analyzed by flow cytometric FRET technology in human tumor cells.
  - Dal 30 Settembre 2005 al 31 Marzo 2006

Docente di Cultura medico sanitaria (A015) presso istituto professionale V. Kandinskij, Milano
  - Dal 1 Gennaio 2004 al 31 Marzo 2006

Borsista presso il laboratorio di biologia cellulare e biochimica dell'aterotrombosi del Centro Cardiologico Fondazione Monzino, via Parea 4, Milano.  
Titolo del progetto: identificazione di proteine coinvolte nell'aterosclerosi in distretti vascolari.

**ISTRUZIONE E FORMAZIONE**

- 
- Dal 2005 al 2007

Dottorato di ricerca in Scienze farmacotossicologiche farmacognostiche e biotecnologie farmaceutiche  
Università degli studi di Milano  
Titolo della tesi di dottorato: Effects of two different doses of Aspirin on patients undergoing coronary surgery.
  - Gennaio 2004

Abilitazione all'esercizio della professione di farmacista  
Università degli studi di Perugia

Dal 1998 al 2003 **Laurea Specialistica in Chimica e Tecnologie Farmaceutiche**  
 Università degli studi di Perugia  
 Titolo della tesi: "Instabilità cromosomica spontanea in pazienti affette da carcinoma mammario iniziale. Risultati di uno studio prospettico osservazionale"  
 Votazione finale: 110/110 con lode.

**COMPETENZE PERSONALI**

Lingua madre Italiano

Altre lingue parlate

	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
Inglese	B2	B2	B1	B1	B2

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato  
[Quadro Comune Europeo di Riferimento delle Lingue](#)

Competenze comunicative

ottime competenze comunicative acquisite negli anni come speaker invitato a corsi di formazione e seminari accademici nazionali e internazionali:

- 2020: National school and conference GIC, Frascati, Roma
- 2019: Faculty of Medicine; HUNIMED, Rozzano
- 2019: Corso di aggiornamento in immunologia di base; Humanitas&Pfizer, Rozzano
- 2018: Corso di immunologia di base; Humanitas clinical Institute&Astrazeneca, Rozzano
- 2017: Preceptorship immuno-oncology; Humanitas clinical Institute&Astrazeneca, Milano
- 2016: IFOM/IEO campus PhD program; University of Study of Milan, Milano
- 2016: National school and conference GIC, University of Study of Urbino, Urbino
- 2014: National school and conference GIC, University of Study of Urbino, Urbino
- 2014: La citometria nella ricerca di base e nella clinica, conference, University of Insubria Busto Arsizio
- 2013: IFOM/IEO campus PhD program; University of Study of Milan, Milano

Competenze organizzative e gestionali

Spiccate competenze organizzative acquisite come responsabile della core facility di citometria a flusso dei laboratori di ricerca di Humanitas clinical and research Institute, Rozzano (Milano). Utenza globale 100 ricercatori a vario livello e competenza.  
 Dal 2010 responsabile del corso di formazione dal titolo: International basic and advanced flow cytometry course; Humanitas clinical and research Institute, Rozzano (Milano).

Competenze digitali

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Utente intermedio	Utente intermedio	Utente intermedio	Utente intermedio	Utente intermedio

Livelli: Utente base - Utente intermedio - Utente avanzato  
[Competenze digitali - Scheda per l'autovalutazione](#)

Altre competenze

2012 Corso per il trattamento di gas liquidi nitrogenati per la criopreservazione  
 2012 Corso pratico di necropsia su piccoli animali

Patente di guida

A e B

---

 ULTERIORI INFORMAZIONI

[Pubblicazioni](#)  
[Presentazioni a congressi](#)  
[Brevetti](#)

**Pubblicazioni su riviste scientifiche indicizzate**

Cossarizza A, Chang HD, Radbruch A, Acs A, Adam D, Adam-Klages S, Agace WW, Aghaeepour N, Akdis M, Allez M, Almeida LN, Alvisi G, Anderson G, Andr a I, Annunziato F, Anselmo A, et al.

Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). *Eur J Immunol.* 2019 Oct;49(10):1457-1973.

Elia CA, Tamborini M, Rasile M, Desiato G, Marchetti S, Swuec P, Mazzitelli S, Clemente F, Anselmo A, Matteoli M, Malosio ML, Coco S.

Intracerebral Injection of Extracellular Vesicles from Mesenchymal Stem Cells Exerts Reduced A $\beta$  Plaque Burden in Early Stages of a Preclinical Model of Alzheimer's Disease. *Cells.* 2019 Sep 10;8(9).

Riva F, Ponzoni M, Supino D, Bertilaccio MTS, Polentarutti N, Massara M, Pasqualini F, Carriero R, Innocenzi A, Anselmo A, Veliz-Rodriguez T, Simonetti G, Anders HJ, Caligaris-Cappio F, Mantovani A, Muzio M, Garlanda C.

IL1R8 Deficiency Drives Autoimmunity-Associated Lymphoma Development. *Cancer Immunol Res.* 2019 Jun;7(6):874-885.

Romano B, Elangovan S, Erreni M, Sala E, Petti L, Kunderfranco P, Massimino L, Restelli S, Sinha S, Lucchetti D, Anselmo A, Colombo FS, Stravalaci M, Arena V, D'Alessio S, Ungaro F, Inforzato A, Izzo AA, Sgambato A, Day AJ, Vetrano S.

TNF-Stimulated Gene-6 Is a Key Regulator in Switching Stemness and Biological Properties of Mesenchymal Stem Cells. *Stem Cells.* 2019 Jul;37(7):973-987

Crisafulli L, Muggeo S, Uva P, Wang Y, Iwasaki M, Locatelli S, Anselmo A, Colombo FS, Carlo-Stella C, Cleary ML, Villa A, Gentner B, Ficara F.

MicroRNA-127-3p controls murine hematopoietic stem cell maintenance by limiting differentiation. *Haematologica.* 2019 Sep;104(9):1744-1755.

Recalcati S, Gammella E, Buratti P, Doni A, Anselmo A, Locati M, Cairo G.

Macrophage ferroportin is essential for stromal cell proliferation in wound healing. *Haematologica.* 2019 Jan;104(1):47-58.

Russo RC, Savino B, Mirolo M, Buracchi C, Germano G, Anselmo A, Zammataro L, Pasqualini F, Mantovani A, Locati M, Teixeira MM.

The atypical chemokine receptor ACKR2 drives pulmonary fibrosis by tuning influx of CCR2+ and CCR5+ IFN $\gamma$ -producing  $\gamma$ DT cells in mice. *Am J Physiol Lung Cell Mol Physiol.* 2018 Jun 1;314(6):L1010-L1025.

Sereni L, Castiello MC, Marangoni F, Anselmo A, di Silvestre D, Motta S, Draghici E, Mantero S, Thrasher AJ, Giliani S, Aiuti A, Mauri P, Notarangelo LD, Bosticardo M, Villa A.

Autonomous role of Wiskott-Aldrich syndrome platelet deficiency in inducing autoimmunity and inflammation. *J Allergy Clin Immunol.* 2018 Oct;142(4):1272-1284.

Veronica Larcher, Paolo Kunderfranco, Marco Vacchiano, Pierluigi Carullo, Marco Erreni, Irene Salamon, Federico Simone Colombo, Enrico Lugli, Marta Mazzola, Achille Anselmo\* and Gianluigi Condorelli\*

An autofluorescence-based method for the isolation of highly purified ventricular cardiomyocytes. *Cardiovasc Res.* 2018 Mar 1;114(3):409-416.\*The authors are equally contributed.

Marelli G, Erreni M, Anselmo A, Taverniti V, Guglielmetti S, Mantovani A, Allavena P. Heme-oxygenase-1 Production by Intestinal CX3CR1+ Macrophages Helps to

Resolve Inflammation and Prevents Carcinogenesis. *Cancer Res.* 2017 Aug 15;77(16):4472-4485.

Lizier M, Anselmo A, Mantero S, Ficara F, Paulis M, Vezzoni P, Lucchini F, Pacchiana G. Fusion between cancer cells and macrophages occurs in a murine model of spontaneous neu+ breast cancer without increasing its metastatic potential. *Oncotarget.* 2016 Sep 20;7(38):60793-60806.

Greco CM, Kunderfranco P, Rubino M, Larcher V, Carullo P, Anselmo A, Kurz K, Carell T, Angius A, Latronico MV, Papait R, Condorelli G. DNA hydroxymethylation controls cardiomyocyte gene expression in development and hypertrophy. *Nat Commun.* 2016 Aug 4;7:12418.

Anselmo A, Riva F, Gentile S, Soldani C, Barbagallo M, Mazzon C, Feruglio F, Polentarutti N, Somma P, Carullo P, Angelini C, Bacci M, Mendolicchio GL, Voza A, Nebuloni M, Mantovani A, Garlanda C. Expression and function of IL-1R8 (TIR8/SIGIRR): a regulatory member of the IL-1 receptor family in platelets. *Cardiovasc Res.* 2016; 111, 373–384

A Anselmo, E Lauranzano, C Soldani, C Ploia, R Angioni, G D'amico, A Sarukhan, C Mazzon and A Viola. Identification of a novel agrin-dependent pathway in cell signaling and adhesion within the erythroid niche. *Cell Death and Differentiation* 2016; Aug;23(8):1322-30

Bonavita O, Massara M, Anselmo A, Somma P, Brühl H, Mack M, Locati M, Bonecchi R. Flow Cytometry Detection of Chemokine Receptors for the Identification of Murine Monocyte and Neutrophil Subsets. *Methods Enzymol.* 2016;570:441-56.

Galletti G, Scielzo C, Barbaglio F, Rodriguez TV, Riba M, Lazarevic D, Cittaro D, Simonetti G, Ranghetti P, Scarfò L, Ponzoni M, Rocchi M, Corti A, Anselmo A, van Rooijen N, Klein C, Ries CH, Ghia P, De Palma M, Caligaris-Cappio F, Bertilaccio MT. Targeting Macrophages Sensitizes Chronic Lymphocytic Leukemia to Apoptosis and Inhibits Disease Progression. *Cell Rep.* 2016 Feb 23;14(7):1748-60.

Abbonante V, Di Buduo CA, Gruppi C, Malara A, Gianelli U, Celesti G, Anselmo A, Laghi L, Vercellino M, Visai L, Iurlo A, Moratti R, Barosi G, Rosti V, Balduini A. Thrombopoietin/TGF- $\beta$ 1 loop regulates megakaryocyte extracellular matrix component synthesis. *Stem Cells.* 2016 Apr;34(4):1123-33.

Strauss L, Sangaletti S, Consonni FM, Szebeni G, Morlacchi S, Totaro MG, Porta C, Anselmo A, Tartari S, Doni A, Zitelli F, Tripodo C, Colombo MP, Sica A. RORC1 Regulates Tumor-Promoting "Emergency" Granulo-Monocytopenia. *Cancer Cell.* 2015 Aug 10;28(2):253-69

Sala E, Genua M, Petti L, Anselmo A, Arena V, Cibella J, Zanotti L, D'Alessio S, Scaldaferrì F, Luca G, Arato I, Calafiore R, Sgambato A, Rutella S, Locati M, Danese S, Vetrano S. Mesenchymal Stem Cells Reduce Colitis in Mice via Release of TSG6, Independently of Their Localization to the Intestine. *Gastroenterology.* 2015 Jul;149(1):163-176

Savino B, Caronni N, Anselmo A, Pasqualini F, Borroni EM, Basso G, Celesti G, Laghi L, Tournalaki A, Boneschi V, Brambilla L, Nebuloni M, Vago G, Mantovani A, Locati M, Bonecchi R. ERK-dependent downregulation of the atypical chemokine receptor D6 drives tumor aggressiveness in Kaposi sarcoma. *Cancer Immunol Res.* 2014 Jul;2(7):679-89.

Del Prete A, Luganini A, Scutera S, Rossi S, Anselmo A, Greco D, Landolfo S, Badolato R, Gribaudo G, Sozzani S, Musso T. Interferon- $\alpha$  Production by

Plasmacytoid Dendritic Cells Is Dispensable for an Effective Anti-Cytomegalovirus Response in Adaptor Protein-3-Deficient Mice. *J Interferon Cytokine Res.* 2014 Oct 21.

Anselmo A, Mazzon C, Borroni EM, Bonecchi R, Graham GJ, Locati M. Flow cytometry applications for the analysis of chemokine receptor expression and function. *Cytometry A.* 2014 Apr;85(4):292-301.

Maina V, Marrella V, Mantero S, Cassani B, Fontana E, Anselmo A, Del Prete A, Sozzani S, Vezzoni P, Poliani PL, Villa A. Hypomorphic mutation in the RAG2 gene affects dendritic cell distribution and migration. *J Leukoc Biol.* 2013 Dec;94(6):1221-30.

Francesco Acquati, Marta Lualdi, Sabrina Bertilaccio, Laura Monti, Giovanna Turconi, Marco Fabbri, Annalisa Grimaldi, Achille Anselmo, Antonio Inforzato, Cristina Riva, Laura Gribaldo, Paolo Ghia and Roberto Taramelli . Loss of function of RNASET2, an ancient and phylogenetically conserved RNase, plays a crucial role in ovarian tumorigenesis. *Proc Natl Acad Sci U S A.* 2013 May 14;110(20):8140-5.

Germano G, Frapolli R, Belgiovine C, Anselmo A, Pesce S, Liguori M, Erba E, Uboldi S, Zucchetti M, Pasqualini F, Nebuloni M, van Rooijen N, Mortarini R, Beltrame L, Marchini S, Fuso Nerini I, Sanfilippo R, Casali PG, Pilotti S, Galmarini CM, Anichini A, Mantovani A, D'Incalci M, Allavena P. Role of macrophage targeting in the antitumor activity of trabectedin. *Cancer Cell.* 2013 Feb 11;23(2):249-62.

Mazzon C\*, Anselmo A\*, Soldani C, Cibella J, Ploia C, Moalli F, Burden SJ, Dustin ML, Sarukhan A, Viola A. Agrin is required for survival and function of monocytic cells. *Blood.* 2012 Jun 7;119(23):5502-11\*The authors are equally contributed

Benedetta Savino, Marina G Castor, Nicoletta Caronni, Adelaida Sarukhan, Achille Anselmo, Chiara Buracchi, Federica Benvenuti, Vanessa Pinho, Mauro M Teixeira, Alberto Mantovani, Massimo Locati, and Bonecchi Raffaella. Control of murine Ly6Chigh monocyte traffic and immunosuppressive activities by atypical chemokine receptor D6 *Blood.* 2012 May 31;119(22):5250-60.

Véliz Rodriguez T, Moalli F, Polentarutti N, Paroni M, Bonavita E, Anselmo A, Nebuloni M, Mantero S, Jaillon S, Bragonzi A, Mantovani A, Riva F, Garlanda C. Role of Toll Interleukin-1 Receptor (IL-1R) 8, a Negative Regulator of IL-1R/Toll-Like Receptor Signaling, in Resistance to Acute Pseudomonas aeruginosa Lung Infection. *Infect Immun.* 2012 Jan;80(1):100-9.

Mazzon C, Anselmo A, Cibella J, Soldani C, Destro A, Kim N, Roncalli M, Burden SJ, Dustin ML, Sarukhan A, Viola A. The critical role of agrin in the hematopoietic stem cell niche. *Blood.* 2011 Sep 8;118(10):2733-42.

Marta Brambilla, Alessandro Parolari, Marina Camera, Susanna Colli, Sonia Eligini, Chiara Centenaro, Fabio Barili, Achille Anselmo, Francesco Alamanni, Paolo Biglioli, Elena Tremoli. Thromboxane biosynthesis and its relationship to platelet aggregation in patients undergoing coronary surgery: effect of two doses of aspirin. *Thrombosis and Haemostasis,* 2010 Mar 1; 103(3): 516-524.

Giuseppe Danilo Norata, Patrizia Marchesi, Vivek Pulakazhi, Venu, Fabio Pasqualini, Achille Anselmo, Federica Moalli, Irene Pizzitola, Cecilia Garlanda, Alberto Mantovani, Alberico Luigi Catapano. Deficiency of the Long Pentraxin promotes vascular inflammation and atherosclerosis. *Circulation,* 2009 Aug 25;120(8):699-708.

Marchesi F, Piemonti L, Fedele G, Destro A, Roncalli M, Albarello L, Dogliosi C, Anselmo A, Doni A; Bianchi P, Laghi L, Malesci A, Cervo L, Maltosio M, Reni M,

Zerbi A, Di Carlo V, Mantovani A and Allavena P. The chemokine receptor CX3CR1 is involved in the neural tropism and malignant behaviour of ductal pancreatic adenocarcinoma *Cancer Res.* 2008 Nov 1;68(21):9060-9.

Borroni F.M., Bonecchi R., Anselmo A., Doni A., Savino B, Mirolo M, Fabbri M, Jala VR, Haribabu B, Mantovani A., Locati M. Regulation of D6 chemokine scavenging activity by ligand- and Rab11-dependent surface up-regulation. *Blood.* 2008 Aug 1;112(3):493-503.

### **Brevetti**

Method for characterization of cell specific microvesicles

Patent Number: 15193500.4-1405

Reference: BE127975

Inventori: Achille Anselmo, Gianluigi Condorelli, Laura Papa, Chiara Viviani Anselmi

### **Poster e presentazioni orali**

1. Eight colours flow cytometric analysis of dendritic cell subsets in murine lymphoid organs-oral presentation. XXVII Conferenza nazionale di citometria, October 14-17, 2009, Ferrara, Italy
2. Direct and indirect instruction of hematopoietic niches by agrin-poster session. Stem cells 2009 Conference, November 18-22, 2009, Antigua
3. Agrin is essential for the fitness of hematopoietic niches and myeloid cells-poster session. XXV Congress of the international Society for advancement of cytometry, May 8-12, 2010, Seattle, US.
4. Agrin is essential for the fitness of hematopoietic niches - poster session. International Conference of Immunology, June 20-25, 2010, Santorini, Greece.
5. Innate immune responses in bovine forestomachs are mediated by toll like receptors-poster session. The IL-1 family of cytokines: from basic biology to clinical applications, May 8-11, 2011, Clearwater, US
6. The critical role of agrin in the hematopoietic stem cell niche.-poster session. ISSCR 10th annual meeting, June 13-16, 2012, Yokohama, Japan.
7. Platelets express functional IL-1R family members-poster session, 3rd European Congress of immunology, September 5-8, 2012, Glasgow, UK.
8. Role of TIR8/SIGIRR in regulating TLR and IL-1R like-dependent platelet activation-poster session, Gordon conference: cell biology of megakaryocytes & platelets, March 10-15, 2013, Galveston, US.
9. Role of TIR8/SIGIRR in regulating TLR and IL-1R like-dependent platelet activation-poster session, 15th International congress of immunology, August 22-27, 2013, Milan, Italy.
10. Role of TIR8/SIGIRR in regulating TLR and IL-1R like-dependent platelet activation-poster session, 16th International congress of immunology, August 21-26, 2016, Melbourne, AUS.
11. Multicolor flow cytometric analysis of peritumor infiltrating myeloid cells in patients with colon cancer liver metastases-oral presentation. Congress of

the international Society for advancement of cytometry, June 11-15, 2016, Seattle, US.

12. Circulating CD172a+ human cardiac microvesicles are a new biomarker of myocardial ischemic stress. GIC conference, October 03-06, 2017, Paestum, Italy

#### ALLEGATI

---

**Dati personali** Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

Milano, 30 Settembre 2020

FIRMA DIGITALE