

Curriculum vitae GIUSEPPE GUIDA

Personal details

- Born in Torino /Turin, Italy
- Nationality: Italian
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Educations

- High school degree, 1992-1993: 60/60
- Medical Doctor Degree, University of Torino, October 2000: 110 with honors / 110
- Postgraduate Degree: Allergology and Clinical immunology Specialist, University of Torino: scheduled in December 2005
- PhD Degree : Doctoral School PhD Program in Experimental Medicine and Therapy, Pharmacology and Clinical and Experimental Therapy, University of Torino, scheduled in January 2011
- Master II degree in "Severe Asthma", Department of Clinical and Biological Sciences, University of Torino, scheduled in February 2023

Participation to Directive Boards of Scientific Societies and/or Institutions:

Italian Society of Allergology Asthma and Clinical Immunology (SIAAIC):

- Coordinator of the Junior Members of the Piedmont-Liguria-Valle d'Aosta Interregional Section in 2008-2009;
- Member of the Piedmont-Liguria-Valle d'Aosta interregional board of SIAAIC.-From 2009 to 2015 and again from 2017, and currently serving
- Active member of the ATIs : Immunomediata Diseases (Vasculitis & Autoinflammatory Diseases) and Rare Diseases in Immuno-Allergology.
- Secretary of the ATI "systemic autoimmunity." Appointed in 2017
- NATIONAL COORDINATOR of the BRONCHIAL ASTHMA IN RESPIRATORY ATI working group: From 2019 to 2022
- NATIONAL COORDINATOR of the RESPIRATORY ATI working group: Appointed in 2022 and currently serving

Piedmont and Aosta Valley Interregional Network for Rare Diseases

- Member qualified to formulate specialist diagnoses and prescribe treatment plans for rare diseases. - Active within the PDTA on Antiphospholipid Antibody Syndrome (APS), Piedmont and Aosta Valley APS Technical Group

Piedmont Regional Allergy Network.

- Appointed Referent for the Azienda Ospedaliera S. Croce e Carle to the Piedmontese Allergology Network (RRA) (Resolution N. 212-2019 DEL 24/04/2019)

European Vasculitis Society (EUVAS):

- Member since 2013
- Collaborator on the Network on Genetic Polymorphism in ANCA-associated Vasculitis (GWAS The first genome wide association study analyzes DNA samples from clinical trials of ANCA-associated vasculitis);

ISAR International Severe Asthma Registry

- Member of the Closed Steering Committee meeting at REG – march 2023, Lisbon

Honors

- *Federation of Societies of Immunology, Allergy and Clinical Immunology (IFIACI) award.* for the poster: "Pathogenic role of clonal CD8 + TCR-VB expanded effector memory cells in Churg Strauss Syndrome", during the First Federative Day, Florence 14-10-2008
- *Award for Best Abstract in the SCIT session: Immunological Assays in Immunotherapy* with the poster: "Lymphocytes proliferation assay and cytokine profile in mixed specific dendritic cell T cell lines to natural Bet v1 and wild type, chemical modified and genetically modified recombinant Bet v1" at the XXVII EAACI Congress, 7-11 June 2008, Barcelona, Spain
- *Award for Best Abstract in the Autoimmunity and Immunodeficiencies session* with the poster: "Pathogenic role of CD4 + IL4 cytotoxic T cells in Churg-Strauss Syndrome "at the 28th EAACI Congress, 6-10 June 2009, Warsaw, Poland.

- *2nd annual European Respiratory Society (ERS) Award in Inflammatory Airway Diseases and Clinical Allergy* with the work: "Chronic cough, exhaled nitric oxide and vitamin B12 deficiency", ERS Congress 16 September 2007, Stockholm, Sweden.
- *Travel grant for the XXI World Allergy Congress held in Buenos Aires-Argentina* on 6-10 December 2009 with the work entitled "Response to natural BETV1 in mixed T cell / dendritic cell cultures: effect of SLIT?".
- *Travel Grant for the EAACI Congress 2006, Vienna* 10.14 June for the work entitled "T cell V β clonal expansion with a Th1 phenotype in Churg Strauss Syndrome"
- *Travel Grant for the GA2LEN / EAACI Summer Course held in Chalkidiki, Greece* on 23-27 June 2006 for the work "Monitoring allergic and inflammatory parameters during beta-glucuronidase administration: a case report."
- *Travel Grant for the 5th EAACI.Ga2len.Meeting*, 1-4 February 2007, Davos, Switzerland for the work "Flow cytometry and CDR3 length spectratyping analysis of TCR Vbeta repertoires in Churg Strauss Syndrome"

Teaching activity:

- *Tutoring activities, in agreement with The University of Turin, for students of the Faculty of Medicine, General Medicine Residents and Trainees*, 2009-2017 At the ASLTO2/City of Turin SC Medicine by Intensity of Care 1 (OMV-BV) and S.S Allergology ; 2017-2021 at the SS Allergology and Respiratory Physiopathology ASO S. Croce e Carle - Cuneo;
- *Formal and interactive teaching (ADI) lectures addressed to third-year and fourth-year students of the Bachelor of Medicine (Teaching of Clinical Methodology and Clinical Hematology and Immunology) and students of the Bachelor of Biotechnology: During the years of Graduate School and PhD*
- *2020/2021 and 2021/2022 Teachings at School of Specialization in Allergology and Clinical Immunology: 1st,2nd,3rd,4th YEAR A.Y. IMMUNOLOGY CLINICAL I-II-III-IV-V SSD MED/09 - University of Turin.*
- *2022/2023 Teaching Assignment for Bachelor of Science in Nursing Torino - seat of Ivrea (TO) - year II -semester 2 - Integrated Course of Critical Care Nursing Diseases of the Respiratory System-*
- *Level II Master's Degree in "Severe Asthma" for A.Y. 2022/23: teaching assignment within the Course entitled "Innate immunological mechanisms- Innate immunological mechanism".*

Research main topics

Main fields of research pursued:

- *Relationship between upper airways and bronchial inflammation in rhinitis, sinus and asthmatic pathology with focus on the role of exhaled nitric oxide.*

The FENO measurement can be used to diagnose asthma in rhinitis patients with asthma-like symptoms (Heffler E, et al. *Respir Med* 2006; 100: 1981-1987). Among these patients with chronic rhinitis and inflammatory involvement of the lower airways, the distinction was clinically relevant to those with persistent allergic rhinitis or chronic rhinosinusitis, compared to patients with non-allergic rhinitis. (Rolla G. et al. *Chest* 2007 May; 131 (5): 1345-52.). In particular, patients suffering from nasal polyposis may present symptoms of involvement of the lower airways and inflammation of the lower passages equal to those of asthmatic patients. (Guida G, et al. *Chest*. 2010 Mar; 137 (3): 658-64). Even in patients suffering from obstructive apnea syndrome (OSA) inflammatory mechanisms are recognized which originate in the nasal sinus and mucosa of the oral cavity (Culla B, et al *Respir Med*. 2010 Feb; 104 (2): 316-20). Mechanisms of chronic cough in upper airway pathologies such as laryngeal irritability have been studied by hyperresponsiveness of the extrathoracic airways (LHR) (Bucca CB, et al. *J Allergy Clin Immunol*. 2011 February 2011 ; 127 (2): 412-9). Among the underlying physiopathological mechanism of cough, neuromediated damage by vitamin B12 may play a determining role. (Bucca CB, *Am J Clin Nutr*. 2011 Mar; 93 (3): 542-8). The consolidated role of nitric oxide measurement in the clinical practice of allergic disease has been summarized in the position paper of the Italian Society of Respiration (SIP / IRS) and of the Italian Society of Allergology, Asthma and Clinical Immunology (SIAAIC) (Heffler E, *Multidiscip Respir Med*. 2020 Feb 19; 15 (1): 36)

- *Clinical and real-life phenotyping of severe asthma*

*Phenotyping the patient with asthma makes it necessary a more precise determination of the basic inflammatory, molecular and functional etiopathogenetic mechanisms, such as for example the remodeling of the airways (Guida G, *Semin Immunol*. 2019 Dec), as well as the search for clinical and biological biomarkers to identify which patients can benefit from the new biological therapies (Bagnasco D., *Allergy*. 2019 Nov 26.). In particular, in allergic and / or eosinophilic patients, severe asthma is often associated with rhinosinusitis and nasal polyposis with an increase in respiratory tract diseases and worsening of quality of life. (Canonica GW,*

Respir Med. 2020 May; 166: 105947.) The advent of the pandemic due to the SARS-Cov2 virus has placed particular attention on the risks for asthmatic patients of complications and the need to understand the relationships between this infection and asthmatic pathology (Heffler E, Allergy. 2020 Aug 1: 10.1111 / all.14532).

- *Eosinophilic granulomatosis with polyangiitis (EGPA, formerly Churg-Strauss Syndrome): immunophenotyping and genetics*

Studies on the pathogenesis of Churg-Strauss syndrome (CSS), systemic vasculitis of small vessels with predominant airway involvement, have been conducted through the phenotypic and molecular characterization of circulating lymphocytes of patients affected by this disease. V β family expression analysis of TCR by flow cytometry and gene rearrangement of TCR by heteroduplex PCR were evaluated to discover and then characterize expanded T lymphocytes. (Guida G et al, Clin Immunol. 2008 Jul; 128 (1): 94-102) In all patients with CSS one or two V β families were found to be expanded in CD8 + lymphocytes, with an "effector memory" phenotype. This anomaly can represent a "marker" of disease and a possible therapeutic target cells (Boita M, et al Clin Exp Rheumatol. 2012 Jan-Feb). A more defined characterization of the clonal restriction of pathogenic T lymphocytes in CSS has finally emerged through spectratyping and sequencing methods of TCR molecules (Boita M, Clin Immunol 2014). The clinical problems associated with the diagnosis of EGPA, especially in its initial unclear forms, and the pathogenetic mechanisms have been the subject of other scientific publications (Rolla G et al, Ann Allergy Asthma Immunol. 2007 Jun; 98 (6): 595-7) and discussed both in editorial form (Rolla G et al - Exp Rev Clin Immunol vol. 3 (6) 833-837 (2007) and as a book chapter: "Churg Strauss Syndrome: Clinical and Pathogenetic Approach to Therapy, Advances in the Diagnosis and Treatment of Vasculitis, "Dr. Luis Mamezcua-Guerra (Ed.), Intech, 2009. A multi-year collaboration with a network of experts has also been carried out for the genetic characterization of predisposing factors for the development of the disease, which has shown both the association with single nucleotide polymorphism, such as PTPN22 620W and with the defect of Fc γ -receptor 3B (FCGR3B) (Martorana D, Rheumatology (Oxford) 2012 May; 51 (5): 805-12, J Allergy Clin Immunol. 2016 May; 137 (5): 1597-1599) and through Genome-wide association studies 3 genetic loci associated with EGPA: HLA-DQ, BCL2L11 and TSLP (Paul A Lyons et al. #, NATURE COMMUNICATIONS | (2019) 10: 5120).

- *Biology and clinical aspects of anaphylaxis, allergic response and allergen immunotherapy.*

Proteomic and molecular basis of allergic diseases have been performed with particular interest in the characterization of animal (Argas Reflexus, processionary caterpillar, horse lipocalin) and vegetable (litchi, buckwheat) allergens through SDS-page and immunoblotting approach. These studies have been integrated with clinical observations about severe allergic reactions (anaphylaxis). (Rolla G, et al International Archives of Allergy and Immunology 2004; 135: 293-295) (Guida G et al. Allergy 2005; 60: 1088-1089). (Heffler E, et al, Allergy 2011 Feb; 66 (2): 264-70). A case of anaphylaxis observed in a beekeeper during specific desensitizing therapy showed an increased production of nitric oxide (NO) during anaphylaxis in humans (Rolla G et al - Ann Allergy Asthma Immunol 2006; 97: 264-265). Mechanisms underlying specific immunotherapy (ITS) have been described through a model of cellular T response in vitro to the allergen in patients with respiratory allergy to birch. (Guida G, et al. Allergy Asthma Proc. 2012 Sep; 33 (5): 411-5)

- *Clinical and immunologic characterization of B-cell Chronic Lymphocytic Leukemia (B-CLL).*

The research focused on the analysis and definition of immunophenotypic (CD38, ZAP70 by FACS analysis) and molecular (somatic mutations of the immunoglobulin genes) prognostic markers in CLL studying large cohorts of patients also through collaborations for national and international databases. The CD38 molecule has been identified as an excellent marker able to distinguish patients with progressing B-CLL from those with basically stable disease. (Ghia P, et al. Blood. 2003. 101 (4): 1262-1269) as well as the analysis of the mutational status of genes for Ig heavy chains has shown how the different tendency to go into disease progression or not it may be linked to the "fate of the B cell" and therefore to the possibility that it will encounter somatic Ig mutations or not. (Ghia P, et al, Blood. 2005; 105: 1678-1685). Studies have also been carried out on alterations at the level of the B lymphocyte in terms of phenotype, chemokine and proteomic patterns (CD40L, MDC, TARC, HS1) (Ghia P, ASH NOV 2002, San Diego CA, Ghia P et al, European J of Immunol 2002; 32: 1403-1413; Scielzo C, et al JCI 2005; 115: 1644-1650) such as to explain the characteristics of the neoplastic growth of these cells, their ability to trigger altered immune responses and the possibility that a different regulation of these cell signals may explain the different clinical behavior and response to therapy in subgroups of patients.

Main projects as PI:

- Observational Study : "Severe Asthma Network Italy (SANI). Registry." , - promoters: SIP/IRS – Italian Society of Pneumology / Italian Respiratory Society. SIAAIC – Italian Society of Allergy Asthma and Clinical Immunology. *Principal Investigator* (Cuneo, Italy).2017-2022

- MANDARA :” randomized, double blind, active-controlled, parallel group, multicenter 52-week Phase 3 study to compare the efficacy and safety of benralizumab 30 mg versus mepolizumab 300 mg administered by subcutaneous (SC) injection in patients with relapsing or refractory EGPA on corticosteroid therapy with or without stable immunosuppressive therapy.” Promoter: Astrazeneca- *Principal Investigator* (Cuneo, Italy).2020-2022
- “Prevalence of asthma and COPD among patients hospitalized for COVID-19 in the Italian north-west ”, Promoter: AO Ordine Mauriziano Umberto I, Turin, Italy. *Principal Investigator* (Cuneo, Italy).2021-2022
- Self-Management Of Asthma By Forced Oscillation Technique (PIANOFORTE), ClinicalTrials.gov Identifier: NCT04963140. Promoter RESTECH srl, , 201124 Milano, *Principal Investigator* (Orbassano, Italy), ongoing

Bibliometry (2002-present) (www.scopus.com)

- *Web of Science*: 26 H-Index / 110 Total Publications / 2518 Sum of Times Cited /2047 Citing Articles / First 14% Last 3%
- *Scopus*: 70 Documents by author / 2674 Citations by 2271 documents /27 h-index

Publications

1. Ghia P, Strola G, Granziero L, Geuna M, **Guida G**, Dallusto F, Ruffing N, Montagna L, Piccoli P, Chilosi M, Caligaris-Cappio F. Chronic lymphocytic leukemia B cells are endowed with the capacity to attract T cells by producing CCL22. EUROPEAN JOURNAL OF IMMUNOLOGY. 2002; 32:1403-1413
2. Ghia P, **Guida G**, Stella S, Gottardi D, Geuna M, Strola G, Scielzo C, and Caligaris-Cappio F. The Pattern of CD38 expression defines a distinct subset of chronic Lymphocytic leukemia (CLL) patients at risk of disease progression. BLOOD. 2003; 101(4):1262-1269.
3. Rolla G, Nebiolo F, **Guida G**, Marsico P, Riva G, Zanotta S. Cotton wool in pine trees. The LANCET. 2003; 361:44. (Elsevier – US) SCOPUS: 2-s2.0-0037417491
4. Ghia P, Prato G, Scielzo C, Stella S, Geuna M, **Guida G**, and Caligaris-Cappio F. Monoclonal CD5+ and CD5- B-lymphocyte expansions are frequent in the peripheral blood of the elderly. Blood. 2004; 103 (6):2337-2342. ([American Society of Hematology](#) - Washington, DC –US)
5. Ghia P, **Guida G**, Scielzo C, Geuna M and Caligaris-Cappio F. CD38 modifications in chronic lymphocytic leukemia: are they relevant? Leukemia. 2004 Oct;18(10):1733-5. Review (Nature Publishing Group Houndmills Basingstoke Hampshire UK)
6. Rolla G, Nebiolo F, Marsico P, **Guida G**, Bigo P, Riva G, Zanotta S. Allergy to Pigeon Tick *Argas Reflexus*: Demonstration of Specific IgE- binding Component. International Archives of Allergy and Immunology 2004; 135: 293-295. (S. Karger A Basel - Switzerland)
7. Ghia P, Stamatopulos K, Belessi C, Moreno C, Stella S, **Guida G**, Michel A, Crespo M, Laoutaris N, Monserrat E, Anagnostopoulos A, Dighiero G, Fassas A, Caligaris-Cappio F, Davi F. Geographic patterns and pathogenetic implication of IGHV gene usage in Chronic lymphocytic leukemia: the lesson of the IGHV3-21 gene. Blood. 2005; 105: 1678-1685. ([American Society of Hematology](#) - Washington, DC –US)
8. **Guida G**, Nebiolo F, Heffler E, Bergia R and Rolla G. Anaphylaxis after a horse bite. Allergy 2005;60:1088-1089. (John Wiley & Sons, Ltd. – Chichester, West Sussex, UK)
9. Cristina Scielzo, Paolo Ghia, Antonio Conti, Angela Bachi, **Giuseppe Guida**, Massimo Geuna, Massimo Alessio and Federico Caligaris-Cappio HS1 protein is differentially expressed in chronic lymphocytic leukemia patient subsets with good or poor prognoses. JCI 2005; 115: 1644-1650. (The American Society for Clinical Investigation- Ann Arbor, MI.US)
10. Rolla G, , Nebiolo F, **Guida G**, Heffler E, Bergia R. Exhaled Nitric Oxide in Diffuse Alveolar Hemorrhage. Thorax 2005, Jul;60(7):614-5. (BMJ Publishing Group Ltd & British Thoracic Society - London UK)
11. G. Rolla, L Bommarito, E. Heffler, **G. Guida**, N. Ferrero, R. Bergia, I. Badiu, F. Nebiolo. Exhaled nitric oxide in asthma. It J Allergy Clin Immunol 2006; 16:141-150 (Pacini Editore – Pisa, Italia)
12. Enrico Heffler, **Giuseppe Guida**, Pietro Marsico, Roberta Bergia, Luisa Bommarito, Nicoletta Ferrero, Franco Nebiolo, Antonella De Stefani, Antonio Usai, Caterina Bucca and Giovanni Rolla: Exhaled nitric oxide as a diagnostic test for asthma in rhinitic patients with asthmatic symptoms. Respir Med 2006;100:1981-1987. (Reed Elsevier Group - London, UK)
13. Giovanni Rolla, Franco Nebiolo, **Giuseppe Guida**, Enrico Heffler, Luisa Bommarito, Roberta Bergia. Level of exhaled nitric Oxide during human anaphylaxis. Ann Allergy Asthma Immunol 2006;97:264-265. (Reed Elsevier Group - London, UK)
14. R Zanotti, A Ambrosetti, M Lestani, P Ghia, C Pattaro, A Remo, F Zanetti, S Stella, O Perbellini, G Prato, **G Guida**, F Caligaris-Cappio, F Menestrina, G Pizzolo and M Chilosi. ZAP-70 expression, as detected by immunohistochemistry on bone marrow biopsies from early-phase CLL patients, is a strong adverse prognostic factor. *Leukemia* (2007) 21, 102–109. (Nature Publishing Group Houndmills Basingstoke Hampshire UK)

15. Kostas Stamatopoulos, Chrysoula Belessi, Carol Moreno, Myriam Boudjograh, **Giuseppe Guida**, Tatjana Smilevska, Lynda Belhoul, Stefania Stella, Niki Stavroyianni, Marta Crespo, Anastasia Hadzidimitriou, Laurent Sutton, Francesc Bosch, Nikolaos Laoutaris, Achilles Anagnostopoulos, Emili Montserrat, Athanasios Fassas, Guillaume Dighiero, Federico Caligaris-Cappio, Hélène Merle-Béral, Paolo Ghia, and Frédéric Davi: Over 20% of patients with chronic lymphocytic leukemia carry stereotyped receptors: pathogenetic implications and clinical correlations. *Blood*, 1 January 2007, Vol. 109, No. 1, pp. 259-270. (American Society of Hematology - Washington, DC –US)
16. Rolla G, Tartaglia N, Motta M, Ferrero N, Bergia R, **Guida G**, Heffler E. Warning nonrespiratory symptoms in asthma: catastrophic abdominal involvement in a case of Churg-Strauss syndrome. *Ann Allergy Asthma Immunol*. 2007 Jun;98(6):595-7 (Reed Elsevier Group - London, UK)
17. Bommarito L, Migliore E, Bugiani M, Heffler E, **Guida G**, Bucca C, de Marco R, Rolla G. Exhaled Nitric Oxide in a Population Sample of Adults. *Respiration*. 2008;75(4):386-92. (S.Karger A.G. – Basel, Switzerland)
18. Rolla G, **Guida G**, Heffler E, Badiu I, Bommarito L, De Stefani A, Usai A, Cosseddu D, Nebiolo F, Bucca C. Diagnostic classification of persistent rhinitis and its relationship to exhaled nitric oxide and asthma: a clinical study of a consecutive series of patients. *Chest*. 2007 May;131(5):1345-52. Epub 2007 Feb 22. (American College of Chest Physicians - Northbrook, Illinois, USA)
19. Heffler E, **Guida G**, Badiu I, Nebiolo F, Rolla G. Anaphylaxis after eating Italian pizza containing buckwheat as the hidden food allergen. *J Investig Allergol Clin Immunol*. 2007;17(4):261-3. (ESMOND Publicidad S.A. – Barcelona, Spain)
20. Rolla G, **Guida G**, Heffler E. (2007). Churg-Strauss syndrome: still a clinical challenge?. *Expert Review of Clinical Immunology*. vol. 3 (6) 833-837 (2007) (Expert Reviews Ltd. - London, UK)
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22. **Guida G**, Vallario A, Stella S, Boita M, Circosta P, Mariani S, Prato G, Heffler E, Bergia R, Sottile A, Rolla G, Cignetti A. Clonal CD8+ TCR-Vbeta expanded populations with effector memory phenotype in Churg Strauss syndrome. *Clin Immunol*. 2008 Jul;128(1):94-102. Epub 2008 May 23. (Reed Elsevier Group - London, UK)
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30. **Giuseppe Guida**, Beatrice Culla, Tiziana Scirelli, Graziella Bellone, Savino Sciascia, Luisa Brussino, Domenico Novero, Giorgio Palestro, Enrico Heffler, Paolo Gavarotti, Giovanni Rolla, and Caterina Bucca. Exhaled nitric oxide and nitric oxide synthase expression in Hodgkin's disease. *International Journal of immunopathology and pharmacology*, Vol 22 no 4, 1027-1034 (2009) (Biolife S.a.S – Chieti, Italia).
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