

Antonio Sica

Curriculum vitae

PERSONAL DATA

Place and date of birth: Palermiti il 4 maggio 1958

Tel: +39.0321.375881

CURRICULUM VITAE ET STUDIORUM

ANTONIO SICA GRADUATED IN BIOLOGICAL SCIENCES AT THE STATE UNIVERSITY OF MILAN, IN 1983 AND OBTAINED HIS PHD IN IMMUNOLOGY AT THE ISTITUTO DI RICERCHE FARMACOLOGICHE MARIO NEGRI, MILANO, IN 1990. NEXT, HE MOVED TO THE NATIONAL CANCER INSTITUTE (1990-1995), FREDERICK, MARYLAND (USA), WHERE HE ACTED AS ASSOCIATE RESERACHER AND GROUP LEADER IN THE LABORATORY OF EXPERIMENTAL IMMUNOLOGY. SINCE 2009 HE IS ASSOCIATE PROFESSOR OF GENERAL PATHOLOGY AT THE TATE UNIVERSITY OF WESTERN PIEDMONT, DEPARTMENT OF PHARMACOLOGICAL SCIENCES.

UNIVERSITY CAREER

1979-1983	Degree in Biooogical Sciences
1984-1985	Felloship, aboratory of microbiology, Rho-Hospital
1986-1990	PhD student, ISTITUTO MARIO NEGRI, MILANO

UNIVERSITY POSITIONS

2016	Member of the Research Commission of the Department of Pharmaceutical Sciences, University of Piemonte Orientale
2009	Member of the faculty of the PhD in “Chemistry and Biology”, University of Piemonte Orientale
2012	Member of the faculty of the PhD in “Pharmaceutical and Food Biotechnology”, University of Piemonte Orientale

SCIENTIFIC POSITIONS

1990	Member of the Itaian Society of Clinical Immunology and Clinical (SIICA)
2011-2014	Member of Scientific committee of “Milan Meets Immunology”
2011-2013	Member of “European Society of Macrophages and Dendritic Cells”
1995	Membere of the “cytokines and interferon-gamma Society”
2005	Member EACR- European Society for Cancer Research
2009	<i>Director, laboratory of Pathology. Department of Pharmacological Sciences,</i>

	<i>Novara</i>
2005	<i>Director, laboratory of Molecular Immunology, ISTITUTO CLINICO HUMANITAS, ROZZANO MILANO</i>

MAIN FIELDS OF INTEREST

1. Innate immunity
2. Myeloid cells
3. inflammation
4. tumor
5. Immunotherapy

CURRENT ISSUES OF RESEARCH

1. TUMOR IMMUNOLOGY
2. CANCER AND INFLAMMATION

Abstract

The laboratory investigates circuits and inflammatory cells present into the tumor microenvironment and their role in tumor progression. Central aspects of the research is the role of tumor-associated myeloid cells (tumor-associated macrophages and myeloid-derived suppressor cells) and the mechanisms promoting their tumor-promoting phenotype. The functional significance of microenvironmental signals and conditions (e.g. inflammatory cytokines, hypoxia) in the modulation of immune responses is of crucial importance in our studies.

CURRENT FUNDED PROJECTS

<p>PRIN 2015</p> <p>PROGETTO AUTOIMMUNITÀ E ALLERGIE, REGIONE PIEMONTE</p>	<p>-Molecular control of activation and suppression of innate immune cells.</p> <p>-CARATTERIZZAZIONE IMMUNO-INFIAMMATORIA DI ALCUNI CEPPI DI LATTOBACILLI CON SVILUPPO DI UN NUOVO PRODOTTO PROBIOTICO INDICATO NELLE ALLERGIE</p>
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TOP FIVE PAPERS-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-Monocytopoiesis. CANCER CELL. 2015 Aug 10;28(2):253-69

-Sica A, Mantovani A (2012). Macrophage plasticity and polarization: in vivo veritas . JOURNAL OF CLINICAL INVESTIGATION

-Porta C, Rimoldi M, Raes G, Brys L, Ghezzi P, Di Liberto D, Dieli F, Ghisletti S, Natoli G, De Baetselier P, Mantovani A, Sica A (2009). Tolerance and M2 (alternative) macrophage polarization are related processes orchestrated by p50 nuclear factor-KB. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 106, p. 14978-14983

-Mantovani A, Allavena P, Sica A, Balkwill F. (2008). Cancer-related Inflammation. NATURE, vol. 454, p. 436-444

-Biswas SK, Gangi I, Paul S, Schioppa T, Sacconi A, Sironi M, Bottazzi B, Doni A, Bronte V, Pasqualini F, Vago L, Nebuloni M, Mantovani A, Sica A (2006). A distinct and unique transcriptional programme expressed by tumor-associated macrophages: defective NF- κ B and enhanced IRF-3/STAT1 activation. BLOOD, vol. 107, p. 2112-2122

FURTHER INFORMATION

PROF. SICA IS EDITORIAL ASSOCIATE OF SEVERAL INTERNATIONAL SCIENTIFIC JOURNALS AND AUTHOR OF MORE THAN 120 PUBLISHED MANUSCRIPTS ON INTERNATIONAL PEER REVIEWED JOURNALS, INCLUDING NATURE, NATURE COMMUNICATIONS, IMMUNITY, JOURNAL OF CLINICAL INVESTIGATION, PROCEEDING NATIONAL ACADEMY OF SCIENCES, JOURNAL OF IMMUNOLOGY, BLOOD, CANCER CELL, JOURNAL OF EXPERIMENTAL MEDICINE.