



Gabriele Di Sante

● WORK EXPERIENCE

01/11/2020 – CURRENT – Rome, Italy
ASSISTANT PROFESSOR – UNIVERSITÀ CATTOLICA DEL SACRO CUORE

15/07/2020 – 30/10/2020 – Rome, Italy
RESEARCH FELLOW – FONDAZIONE POLICLINICO UNIVERSITARIO A. GEMELLI - IRCCS

Grant Manager of different research projects in the field of Tumor Immunology

01/06/2017 – 31/05/2020 – Rome, Italy
RESEARCH FELLOW – UNIVERSITÀ CATTOLICA DEL SACRO CUORE

Grant Manager for international and national research projects in the field of Tumor Immunology (AIRC, PRIN, PON, POR, HyberCell, LifeArc, Ricerca Finalizzata, MAE-Cina, MISE, ColoMed) and ImmunoPathology (FISM, MOH-Ricerca Finalizzata, PRIN).

01/03/2015 – 31/05/2017 – Rome, Italy
POST-DOC POSITION IN RHEUMATOLOGY UNIT – UNIVERSITÀ CATTOLICA DEL SACRO CUORE

Coordination and implementation of research work in the field of Rheumatology interacting with patients and with clinicians to reach a connection between basic and clinical research and clinical practice
Production of manuscripts, management of the databases, development of new and ongoing projects
Supporting of the clinicians and of the students/trainers for research/academic aspects
Diagnostic for specific Rheumatologic tests: ELISA, Chemiluminescent immunoassay and immunofluorescence.

www.unicatt.it | Via Moscatti 14, 00168, Roma, Italy

01/07/2011 – 08/07/2016 – Rome, Italy
RESIDENT STUDENT IN CLINICAL LABORATORY ("PATOLOGIA CLINICA") – UNIVERSITÀ CATTOLICA DEL SACRO CUORE

Principal Investigator in the research project "Host- Pathogen interaction in EAE",
Supervisor and Collaborator in many projects about autoimmune diseases like MS, Rheumatoid Arthritis and their murine models.

Tutoring in the courses of General Pathology and Immunology and Immunopathology.

Largo F. Vito 1, 00168, Rome, Italy

01/11/2007 – 16/03/2011 – Rome, Italy
PHD IN CELLULAR AND MOLECULAR CARDIOLOGY – UNIVERSITÀ CATTOLICA DEL SACRO CUORE

Principal Investigator in research project about Host- Pathogen interaction in EAE;
definition and regulation of T cell specific for self-antigens of the CNS during the course of EAE.
project supervisor and tutoring

Professional, scientific and technical activities | Largo Francesco Vito 1, 00168, Rome, Italy

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Roma, 27 Agosto 2021

● EDUCATION AND TRAINING

01/11/2007 – 16/03/2011 – Largo F. Vito 1, Rome, Italy

DOCTORATE IN CELLULAR AND MOLECULAR CARDIOLOGY – Catholic University - Policlinico Gemelli

Molecular Analysis of T lymphocytes in the epicardial adipose tissue of patients affected by acute coronary disease and chronic stable angina

Field(s) of study

- research, healthcare and cardiology

PhD

10/10/1999 – 25/07/2007 – Largo F. Vito 1, Rome, Italy

DEGREE IN MEDICINE AND SURGERY – Catholic University - Policlinico Gemelli

Molecular analysis of autoreactive T lymphocytes in experimental and human pathology

Field(s) of study

- Medical / healthcare

MD

● LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

Haemophilus parasuis (Glaesserella parasuis) as a Potential Driver of Molecular Mimicry and Inflammation in Rheumatoid Arthritis

doi.org/10.3389/fmed.2021.671018

<https://www.frontiersin.org/articles/10.3389/fmed.2021.671018/full> – 2021

Di Sante G, Gremese E, Tulusso B, Cattani P, Di Mario C, Marchetti S, Alivernini S, Tredicine M, Petricca L, Palucci I, Camponeschi C, Aragon V, Gambotto A, Ria F and Ferraccioli G (2021) Haemophilus parasuis (Glaesserella parasuis) as a Potential Driver of Molecular Mimicry and Inflammation in Rheumatoid Arthritis. Front. Med. 8:671018

Evidence of lung perfusion defects and ongoing inflammation in an adolescent with post-acute sequelae of SARS-CoV-2 infection.

doi: 10.1016/S2352-4642(21)00196-6

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8324416> – 2021

Buonsenso D, Di Giuda D, Sigfrid L, Pizzuto DA, **Di Sante G**, De Rose C, Lazzareschi I, Sali M, Baldi F, Chieffo DPR, Munblit D, Valentini P. Evidence of lung perfusion defects and ongoing inflammation in an adolescent with post-acute sequelae of SARS-CoV-2 infection. Lancet Child Adolesc Health. 2021 Sep;5(9):677-680.

Growing role of S100B protein as a putative therapeutic target for neurological- and nonneurological-disorders.

doi: 10.1016/j.neubiorev.2021.04.035.

<https://www.sciencedirect.com/science/article/abs/pii/S0149763421001986?via%3Dihub> – 2021

Michetti F, **Di Sante G**, Clementi ME, Sampaiolese B, Casalbore P, Volonté C, Romano Spica V, Parnigotto PP, Di Liddo R, Amadio S, Ria F. Neurosci Biobehav Rev. 2021 May 7;127:446-458. doi: 10.1016/j.neubiorev.2021.04.035

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Roma, 27 Agosto 2021

Translational Research in the Era of Precision Medicine: Where We Are and Where We Will Go.

doi: 10.3390/jpm11030216.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8002976/> – 2021

De Maria Marchiano R, **Di Sante G**, Piro G, Carbone C, Tortora G, Boldrini L, Pietragalla A, Daniele G, Tredicine M, Cesario A, Valentini V, Gallo D, Babini G, D'Oria M, Scambia G. J Pers Med. 2021 Mar 18;11(3):216. doi: 10.3390/jpm11030216.

Human Leukocyte Antigen Class II associations in late-onset Myasthenia Gravis.

doi: 10.1002/acn3.51309

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7951107/> – 2021

Spagni G, Todi L, Monte G, Valentini M, **Di Sante G**, Damato V, Marino M, Evoli A, Lantieri F, Provenzano C. Ann Clin Transl Neurol. 2021 Mar;8(3):656-665. doi: 10.1002/acn3.51309

Serum S100B protein as a marker of severity in Covid-19 patients.

doi: 10.1038/s41598-020-75618-0

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7596559/> – 2021

Aceti A, Margarucci LM, Scaramucci E, Orsini M, Salerno G, **Di Sante G**, Gianfranceschi G, Di Liddo R, Valeriani F, Ria F, Simmaco M, Parnigotto PP, Vitali M, Romano Spica V, Michetti F. Sci Rep. 2020 Oct 29;10(1):18665. doi: 10.1038/s41598-020-75618-0.

Alternative splicing of neurexins 1-3 is modulated by neuroinflammation in the prefrontal cortex of a murine model of multiple sclerosis.

doi: 10.1016/j.expneurol.2020.113497.

<https://www.sciencedirect.com/science/article/abs/pii/S0014488620303289?via%3DIihub> – 2020

Marchese E, Valentini M, **Di Sante G**, Cesari E, Adinolfi A, Corvino V, Ria F, Sette C, Geloso MC. Exp Neurol. 2020 Oct 12;113497.

Past and future of the molecular characterization of the T cell repertoire: Some highlights of eli sercarz's contributions.

doi: 10.1615/CritRevImmunol.2020034613.

<http://www.dl.begellhouse.com/journals/2ff21abf44b19838,73aad42078f5a7a,02a475ac728aedc3.html> – 2020

Di Sante G., Tredicine, M., Rolla, S., Di Pino, A., Ria, F. Critical Reviews in Immunology, 2020, 40(3), pp. 249-253

Cytokine Profile in an Adolescent With Pediatric Multisystem Inflammatory Syndrome Temporally Related to COVID-19.

doi: 10.1097/INF.0000000000002802.

https://journals.lww.com/pidj/Fulltext/2020/08000/Cytokine_Profile_in_an_Adolescent_With_Pediatric.39.aspx – 2020

Buonsenso D, **Di Sante G**, Sali M. Pediatr Infect Dis J. 2020 Aug;39(8):e213-e215

The S100B Inhibitor Pentamidine Ameliorates Clinical Score and Neuropathology of Relapsing-Remitting Multiple Sclerosis Mouse Model.

doi: 10.3390/cells9030748.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7140642/> – 2020

Di Sante G, Amadio S, Sampaolese B, Clementi ME, Valentini M, Volonté C, Casalbore P, Ria F, Michetti F. Cells. 2020 Mar 18;9(3):748. doi: 10.3390/cells9030748.

Complex Muco-cutaneous Manifestations of CARMIL2-associated Combined Immunodeficiency: A Novel Presentation of Dysfunctional Epithelial Barriers.

doi: 10.2340/00015555-3370.

<https://www.medicaljournals.se/acta/content/abstract/10.2340/00015555-3370> – 2020

Marangi G, Garcovich S, **Di Sante G**, Orteschi D, Frangella S, Scaldaferrri F, Genuardi M, Peris K, Gurrieri F, Zollino M. Acta Derm Venereol. 2020 Jan 23;100(1):adv00038



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Selective Inhibitors of T Cell Receptor Recognition of Antigen-MHC Complexes for Rheumatoid Arthritis.

doi: 10.1021/acsmchemlett.8b00601.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6466834/> – 2019

Ria F, Pirolli D, **Di Sante G**, Righino B, Gremese E, Gervasoni J, Nicolò C, Giardina B, Ferraccioli G, De Rosa MC. ACS Med Chem Lett. 2019 Mar 13;10(4):644-649.

Synovial predictors of differentiation to definite arthritis in patients with seronegative undifferentiated peripheral inflammatory arthritis: microRNA signature, histological and ultrasound features.

doi: 10.3389/fmed.2018.00186.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6037719/> – 2018

Alivernini S, Toluoso B., Petricca L., Bui L., Di Mario C., Gigante M.R., **Di Sante G.**, Benvenuto R., Fedele A.L., Federico F, Ferraccioli G., Gremese E. Front. Med. - Accepted 6 Jun 2018 DOI: 10.3389/fmed.2018.00186.

Prevalence and Determinants of Peripheral Microvascular Endothelial Dysfunction in Rheumatoid Arthritis Patients: A Multicenter Cross-Sectional Study. Mediators of inflammation

doi: 10.1155/2018/6548715.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5816852/> – 2018

Erre, G.L., Piga, M., Fedele, A.L., Mura, S., Piras, A., Cadoni, M.L., Cangemi, I., Dessi, M., **Di Sante G**, Toluoso, B., Gremese, E., Cauli, A., Mangoni, A.A., Saba, P.S., Carru, C., Ferraccioli, G., Mathieu, A., Passiu, G. 2018: doi: 10.1155/2018/6548715

Low reliability of anti-KIR4.183-120 peptide auto-antibodies in multiple sclerosis patients

doi: 10.1177/1352458517711275

https://journals.sagepub.com/doi/10.1177/1352458517711275?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub++0pubmed& – 2017

Marino M, Frisullo G, **Di Sante G**, Samengo DM, Provenzano C, Mirabella M, Pani G, Ria F, Bartoccioni E. . Multiple sclerosis, 2017:

MicroRNA-34a dependent regulation of AXL controls the activation of dendritic cells in inflammatory arthritis.

doi: 10.1038/ncomms15877

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5489689/> – 2017

Kurowska-Stolarska M, Alivernini S, Melchor EG, Elmesari A, Toluoso B, Tange C, Petricca L, Gilchrist DS, **Di Sante G**, Keijzer C, Stewart L, Di Mario C, Morrison V, Brewer JM, Porter D, Milling S, Baxter RD, McCarey D, Gremese E, Lemke G, Ferraccioli G, McSharry C, McInnes IB. Nature communications, 2017;(8);

Synovial features of patients with rheumatoid arthritis and psoriatic arthritis in clinical and ultrasound remission differ under anti-TNF therapy: a clue to interpret different chances of relapse after clinical remission?

doi: 10.1136/annrheumdis-2016-210424.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5530352/> – 2016

Alivernini S, Toluoso B, Petricca L, Bui L, **Di Sante G**, Peluso G, Benvenuto R, Fedele AL, Federico F, Ferraccioli G, Gremese E. Annals of the rheumatic diseases, 2017;(76); 1228-1236.

Is it necessary to be citrullinated to have restricted clonotypes reacting with Collagen type II? Comment to article "A novel HLA-DRB1*10:01 restricted T cell epitope from citrullinated type II collagen relevant for Rheumatoid Arthritis

doi: 10.1002/art.39553

<https://onlinelibrary.wiley.com/doi/full/10.1002/art.39553> – 2016

Di Sante G, Toluoso B, Ria F, Laura Fedele A, Gremese E, Ferraccioli G (2016). . Arthritis & rheumatology, 2016

PE_PGRS33 contributes to Mycobacterium tuberculosis Entry in Macrophages through Interaction with TLR2

doi: 10.1371/journal.pone.0150800.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4792380/> – 2016

Palucci I, Camassa S, Cascioferro A, Sali M, Anoosheh S, Zumbo A, Minerva M, Iantomasi R, De Maio F, **Di Sante G**, Ria F, Sanguinetti M, Palù G, Brennan MJ, Manganelli R, Delogu G. Plos one, 2016;(11

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Toll-Like Receptor 2 Mediates In Vivo Pro- and Anti-inflammatory Effects of Mycobacterium Tuberculosis and Modulates Autoimmune Encephalomyelitis.

doi: 10.3389/fimmu.2016.00191.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4878199/>

Piermattei A, Migliara G, **Di Sante G**, Foti M, Hayrabedian SB, Papagna A, Geloso MC, Corbi M, Valentini M, Sgambato A, Delogu G, Constantin G, Ria F. *Frontiers in immunology*, 2016;(24).

Collagen Specific T-Cell Repertoire and HLA-DR Alleles: Biomarkers of Active Refractory Rheumatoid Arthritis

doi: 10.1016/j.ebiom.2015.11.019.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4703746/> – 2015

Di Sante G, Toluoso B, Fedele AL, Gremese E, Alivernini S, Nicolò C, Ria F, Ferraccioli G. *Ebiomedicine*, 2015;(2); 2037-2045

Immunomodulation by gut microbiota: role of toll like receptors expressed by T cells.

doi: 10.1155/2014/586939.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4131413/> – 2014

Valentini M., Piermattei A., **Di Sante G**, Migliara G., Delogu G., Ria F. (2014). *Journal of immunology research*, vol. 2014, ISSN: 2314-7156,

T cell repertoire in DQ5-positive myasthenia gravis patients.

doi: 10.1016/j.jaut.2013.12.07.

<https://www.sciencedirect.com/science/article/abs/pii/S0896841113001546?via%3Dihub>

Marino M., Maiuri M., **Di Sante G**, Scuderi F, La Carpia F, Trakas N, Provenzano C, Zisimopoulou P, Ria F, Tzartos SJ, Evoli A, Bartoccioni E. *Journal of Autoimmunity*. 2014 Jan 4.

Porphyromonas gingivalis and the pathogenesis of rheumatoid arthritis: analysis of various compartments including the synovial tissue.

doi: 10.1186/ar4243.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4060366/> – 2014

Totaro MC, Cattani P, Ria F, Toluoso B, Gremese E, Fedele AL, D'Onghia S, Marchetti S, **Di Sante G**, Canestri S, Ferraccioli G. *Arthritis Research Therapy* 2013 15(3) R56.

Functional dissection of protein domains involved in the immunomodulatory properties of PE_PGRS33 of Mycobacterium tuberculosis.

doi: 10.1111/2049-632X.12096.

<https://academic.oup.com/femspd/article/69/3/232/2399006> – 2013

Zumbo A., Palucci I., Cascioferro A., Sali M., Ventura M., D'Alfonso P., Iantomasi R., **Di Sante G**, Ria F., Sanguinetti M., Fadda G., Manganeli R., Delogu G., *Pathogens and Disease* 2013, 69(3):232-239.

Regulation of and regulation by CD44: a paradigm for complex regulatory networks.

https://www.researchgate.net/profile/Gabriele-Di-Sante/publication/256708324_Regulation_of_and_regulation_by_CD44_A_paradigm_complex_regulatory_network/links/0c9605260e6be2a4ec000000/Regulation-of-and-regulation-by-CD44-A-paradigm-complex-regulatory-network.pdf –

2013

Di Sante G., Migliara G, Valentini M, Delogu G, Ria F. *International trends in immunity*, 2013; 2 (4): 33-42

M tuberculosis in the adjuvant modulates time of appearance of CNS specific effector T cells in the spleen through a polymorphic site of TLR2.

doi: 10.1371/journal.pone.0055819.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3569447/> – 2013

Nicolò C, **Di Sante G.**, Procoli A., Migliara G., Piermattei A., Valentini M., Delogu G., Cittadini AM., Constantin G. and Ria F. *PLoS ONE* 8(2): e55819. Feb 11 2013.

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Intracellular Bacteria can cause EAE in SJL mice or modify cell-specific T cell repertoire.

doi: 10.1016/j.jns.2011.08.042

[https://www.jns-journal.com/article/S0022-510X\(11\)00539-9/fulltext](https://www.jns-journal.com/article/S0022-510X(11)00539-9/fulltext) – 2011

Nicolò C., **Di Sante G.**, Migliara G., Valentini M., Piermattei A., Delogu G., Ria F. Journal of Neurological Sciences. 2011 Dec 15; 311 (1-2):103-. Epub 2011 Sep 13.

Skewed T cell receptor repertoire (more than a marker of malignancy. A tool to dissect the immunopathology of inflammatory diseases).

PMID: 21880203

2011

Pandolfi F., Cianci R., Casciano F., Pagliari D., De Pasquale T., Landolfi R., **Di Sante G.**, Kurnick JT., Ria F. Journal of Biol. Reg. and hom. agents. 2011 Apr-Jun; 25 (2) 153-61.

Surface expression ofMPT64 as a fusion with the PE domain ofPE_PGRS33 enhances BCG protective activity against Mycobacterium tuberculosis in mice.

doi: 10.1128/IAI.00267-10

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2981302/> – 2010

Sali M., **Di Sante G.**, Cascioferro A., Zumbo A., Nicolò C., Donà V., Rocca S., Procoli A., Morandi M., Ria F., Palù G., Fadda G., Manganelli R., Delogu G. Infection and immunity, december 5 2010 vol. 78(12); p. 5202-5213.

Modeling the Ternary Complex TCR-Vbeta CollagenII(261- 273)/HLA-DR4 Associated with Rheumatoid Arthritis.

doi: 10.1371/journal.pone.0011550.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2904365/> – 2010

De Rosa MC., Giardina B., Bianchi C., Carelli Alinovi C., Pirolli D., Ferraccioli GF., De Santis M., **Di Sante G.**, Ria F. PLOS ONE July 14 2010, ISSN: 1932- 6203.

ErbB2 DNA vaccine combined with Treg cell deletion enhances antibody response and reveals latent low-avidity T cells. Potential and limits of its therapeutic efficacy.

doi: 10.4049/jimmunol.0901215.

<https://www.jimmunol.org/content/184/11/6124.long> – 2010

Rolla S, Ria F, Occhipinti S, **Di Sante G.**, Iezzi M, Spadaro M, Nicolò C, Ambrosino E, Fiore Merighi I, Musiani P, Forni G, Cavallo F (2010). Journal of Immunology 2010 Apr 30. 184:6124-6132.

Mycobacterium Smegmatis expressing a chimeric protein MPT64-PLP139-151 reorganizes the PLP-specific T cell repertoire favouring a CD8-mediated response and induces a relapsing EAE.

doi: 10.4049/jimmunol.0804263

<https://www.jimmunol.org/content/184/1/222.long> – 2010

Nicolò C., Sali M, **Di Sante G.**, Geloso M.C., Signori E., Penitente R., Uniyal S., Rinaldi M., Fazio V.M., Chan B.M.C., Delogu G. and Ria F. The Journal of Imm. 2010 Jan 1;184 (1):222-35.

Collagen-specific T cell repertoire in blood and synovial fluid varies with disease activity in Early Rheumatoid Arthritis (ERA).

DOI: 10.1186/ar2553

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2656238/> – 2008

F. Ria, R. Penitente, M. De Santis, C. Nicolò, **G. Di Sante**, M. Orsini, D. Arzani, A. Fattorossi, A. Battaglia, G.F. Ferraccioli. Arthritis Research & Therapy 2008 Nov 17, 10(6):R135

Administration of PLP139-151 primes T cell distinct from those spontaneously responsive to this antigene.

DOI: 10.4049/jimmunol.180.10.6611

<https://www.jimmunol.org/content/180/10/6611.long> – 2008

R. Penitente, C. Nicolò, P. Van den Elzen, **G. Di Sante**, F. Aloisi, Eli E. Sercarz, and F. Ria. The journal of Immunology; 180(10):6611-22 (2008 May 15).



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Mycobacterium tuberculosis in the adjuvant modulates the balance of Th immune response to self-antigen of the CNS without influencing a "core" repertoire of specific T cells.

doi: 10.1093/intimm/dxh376

<https://academic.oup.com/intimm/article/18/2/363/664606> – 2006

Nicolò C, Di Sante G, Orsini M, Rolla S, Columba-Cabezas S, Romano Spica V, Ricciardi G, Chan BM, Ria F. Int Immunol. 2006 Feb;18(2):363-74. doi: 10.1093/intimm/dxh376. Epub 2006 Jan 13. PubMed PMID: 16415105.

● **ORGANISATIONAL SKILLS**

Organisational skills

good in the organization and administration .
good experience in project management

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

Good attitude to work in a team,
Good adaptability in new contest and in problem solving
good in communication with other people

● **JOB-RELATED SKILLS**

Job-related skills

Cellular biology techniques

- In vitro culture of human dendritic cells from peripheral blood mononuclear cells
- In vitro culture of mammalian cells lines
- Transfections of mammalian cells by viral and non viral methods
- Isolation of T cells clones Antigen specific in humans from blood, synovia, CFS, epicardial and subcutaneous fat tissue.
- Definition of cellular sub-set of human and murine cells by the analysis of the expression of the cell surface markers at the flow cytometer
- Proliferation and T cell response in human cells in vitro.
- Antigen presentation assays to T cells by pentamer staining.
- Cytokines assay by intracellular staining and flow cytometer.
- Culture of bacteria, fibroblasts and immune cells.
- Manipulation of mice
- Proliferation and T cell response in mice ex vivo
- EAE and CIA induction in mice.
- Flow cytometry assays (IL, Navios and FACS-ARIA and kaluza software)
- Synovial membrane biopsy and staining
- Collection of samples for clinical trials

Molecular Biology techniques

- Identification of protein-protein interactions by the "Two hybrid system"
- Amplification and purification of bacteria plasmid vectors by "heat shock" transformation
- DNA extraction from bacteria and DNA cloning
- Construction of viral vector for human transfections.
- CDR3 fragment length polymorphisms analysis of the beta chain of the TCR.
- Real time PCR (SYbrGreen, Taqman and Scorpio)
- Sequencing from plasmids or PCR products with Sanger technique
- HLA analysis with hybridization in situ method and Innogenetics kit

Biochemistry techniques:

- Protein's electrophoresis on SDS-PAGE
- Western Blotting

Computer and statistical skills:

- European Computer Driving License since 2003 (qualified for the use of the main applications on Windows and Macintosh platforms);
- Expertise in SPSS, Graphpad/prism, R and Eplnfo softwares for computation and statistical analysis.

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● PROCEEDINGS, ABSTRACTS AND CONGRESS

Proceedings, Abstracts and Congress

26/05/2021 – 28/05/2021

XII SIICA congress, virtual

G Di Sante, D Buonsenso, C De Rose, M Tredicine, I Palucci, M Sanguinetti, F Ria^{1,2}, P Valentini, M Sali. SARS COV-2 childhood infection immunopathology: the counterbalance of Th2/Treg compartment and the protective role of immunoregulatory profile.

Tredicine M., Valentini M., Lucchini M., Geloso MC., Mirabella M, Fidaleo M, Piermattei A., Migliara G., Falcicchia R, Giorda E, Foti M, Constantin G, Ria F, Di Sante G. The modulation of Toll like Receptors/CD44 axis regulates clinical features of experimental and human Multiple Sclerosis.

C Camponeschi, G Di Sante, S Amadio, B Sampaolese, ME Clementi, M Tredicine, C Volonté, P Casalbore, R Di Liddo, V Romano Spica, PP Parnigotto, F Ria and F Michetti. The use of arundic acid as novel therapy for multiple sclerosis Falcicchia R., Tredicine M., Di Sante G., Lucchini M., Valentini M., Poerio N., Bianco A., Nociti V.1, Desa F, Camponeschi C, Moliterni C, De Carluccio M, Mirabella M, Fraziano M and Ria F. Janus-faced liposomes as therapeutic tools to drive T suppressor phenotype in multiple sclerosis.

13/10/2019 – 16/10/2019

II Joint Meeting DGFI-SIICA, Munich, Germany

G. Di Sante, M. Valentini, G. Migliara, A. Piermattei, B. Tolusso, G. Constantin, E. Stigliano, MC. Geloso, S. Hayrabyan, G. Delogu, F. Ria. Involvement of infectious agents on trafficking of effector T cells is mediated by a polymorphic site of TLR2 and CD44 isoforms expression

Marchese E., Valentini M., Di Sante G., Corvino V., Ria F., Sette C., Geloso M.C. Synaptic proteins and neuronal circuits involved in brain plasticity are modulated during relapsing-remitting experimental autoimmune encephalomyelitis.

G Di Sante, S Amadio, B Sampaolese, ME Clementi, M Tredicine, C Volonté, P Casalbore, R Di Liddo, V Romano Spica, PP Parnigotto, F Ria and F Michetti. Decrease of disease score in in vivo model of multiple sclerosis targeting S100B

Di Sante G., Lucchini M., Valentini M., Mirabella M., Ria F. MBP85-99 specific TCR repertoire in DR2+ patients affected by multiple sclerosis.

06/05/2019 – 09/05/2019

AINI 2019, Camogli, GE, Italy

Di Sante G., Valentini M., Volonté C., Clementi E., Amadio S., Sampaolese B., Ria F., Michetti F. Reduction of the clinical outcome in in vivo models of multiple sclerosis targeting S100B

Valentini M, Marchese E., Di Sante G., Corvino V., Sette C., Ria F., Geloso MC. Synaptic Proteins And Neuronal Circuits Involved In Brain Plasticity Are Modulated During Relapsing-remitting Experimental Autoimmune Encephalomyelitis.

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