

Name: Luigi Cari

My research lies at the interface of pharmacology, immunology, and translational medicine to identify new therapeutic targets and develop innovative strategies to modulate immune responses in cancer and autoimmune diseases. My work focuses on elucidating the molecular and cellular pathways that regulate T cell activation and function, with particular emphasis on regulatory T cells (Tregs), key mediators of immune tolerance and disease progression. Through the study of signaling networks and pharmacologically actionable mechanisms, I aim to understand how Treg activity, stability, and abundance can be manipulated to improve therapeutic outcomes.

An important area of my current research investigates the role of Tregs within the tumor microenvironment and autoimmune contexts. By integrating pharmacological approaches with bioinformatics, high-dimensional spatial proteomics, multiplexed tissue imaging, and advanced immunophenotyping technologies, I seek to characterize the cellular ecosystems that drive immune suppression, tissue remodeling, and therapy resistance. Particular attention is paid to understanding the interaction between hypoxia, immune regulation, and disease progression in solid tumors.

In parallel, I study the phenotypic and functional heterogeneity of tumor-infiltrating lymphocytes and other immune cell populations to identify predictive biomarkers and develop precision immunomodulatory strategies. As an ultimate goal, my research aims to translate mechanistic insights into new therapeutic opportunities for patients with cancer and immune-mediated diseases.

Education:

- 2017: **Ph.D. in Medical Biotechnology, SSD: BIO/14,**
Department of Medicine, Section of Pharmacology, University of Perugia
Final degree mark: Excellent *cum laude*
- 2014: **Master's degree in Biotechnological Sciences Medical, Veterinary, and Forensic (LM-9),**
University of Perugia
Final degree mark: 110 (out of 110) *cum laude*

Research experience:

- Feb 2025-in course: **Administrative and Academic Support Assistant,**
Project "Support to the implementation of the new admission reform and the updated curriculum of the Degree Course in Medicine and Surgery",
Department of Medicine and Surgery, University of Perugia
- 2024-Jan 2025: **Research Fellow,**
Project "Toward a green toxicology: new approach methodologies to screen chemical-induced immunotoxicity - GREENTOX", funded by the PRIN 2022 Research grant,
Department of Medicine and Surgery, Section of Pharmacology, University of Perugia
- 2019-2023: **Research Fellow,**
Project "EDONIS - Endocrine disruptors: investigation of the effects on the immune and nervous systems", funded by the PRIN 2017 Research grant,
Department of Medicine and Surgery, Section of Pharmacology, University of Perugia
- 2018-2019: **Postdoctoral Researcher,**
Department of Medicine, Section of Pharmacology, University of Perugia
- 2014-2017: **Ph.D. student in Medical Biotechnology, SSD: BIO/14,**
Department of Medicine, Section of Pharmacology, University of Perugia
- 2010-2014: **1st degree and master's degree internships,**
Department of Medicine, Section of Pharmacology, University of Perugia

Teaching experience:

- 2024-in course: **National Scientific qualification as Associate Professor** in the Italian higher education system for the disciplinary field of 05/G1 (G.S.D. 2024 05/BIOS-11) - **Pharmacology, clinical pharmacology and pharmacognosy.** The validity of the qualification starts on 24/06/2024 and will expire on 24/06/2036.
- 2024-in course: Course "Transcriptomics data mining-practice" for Ph.D. students (1CFU)

2021-2023: Course "*Transcriptomics data mining*" for Ph.D. students (2CFU) in co-ownership with Professor Giuseppe Nocentini

2019-in course: Member of the graduate commission of degree "Medicine and Surgery"

2018-in course: "Cultore della materia" for Pharmacology course of degree "Medicine and Surgery"

2016-in course: Supervision and tutoring, during the thesis period, of more than 35 students of degrees "Medicine and Surgery" and "Medical Biotechnology"

2016-in course: Exam committee member for the Pharmacology exam of degree "Medicine and Surgery"

Technical skills:

2025-in course: **Key User** of the **Spatial Proteomics facility** of the University of Perugia

Molecular biology: DNA and RNA extraction; cloning; subcloning (expression vectors); primer design and testing; various PCR methods (RT-PCR, NESTED PCR, EMI-NESTED PCR, RT-qPCR); pathway-focused gene expression profiling using RT-qPCR; CHIP assay; telomerase activity (TeloTAGGG Telomerase PCR ELISA)

Flow Cytometry: Cellular characterization by cell surface and intracellular markers (up to 13 parameters at the same time), sample preparation, data acquisition, and analysis; cell cycle analysis (using PI, DAPI, and Ki67); proliferation analysis (using CFSE and Cell-Violet) and apoptosis analysis (using PI); telomeric length (flow-FISH); multidimensional analysis (use of dimensionality reduction algorithms, t-SNE, Fit-SNE, UMAP, TriMap)

Cell Culture: Culturing immortalized mammalian cell lines; transient transfection of cells using lipofectamine-based method and electroporation; stable transfection; primary cell cultures (human PBMC and T lymphocytes); isolation of cell population by cell sorting (MACS); induction of various signaling pathways by treatment of cells with cytokines and antibodies; proliferation analysis

Protein Assays: Protein expression analysis by SDS/PAGE-Western Blot; ELISA assays (commercial and homemade); protein-protein interaction analysis by co-immunoprecipitation/western blot assays in transfected and native cells; production and purification of recombinant proteins expressed in bacteria or eukaryotic cells; production and affinity purification of antibodies by hybridomas; telomerase activity assay

Microscopy: Preparation of samples for immunofluorescence (up to 6 markers at the same time), in-situ proximity ligation assay (duolink) and FISH (PNA-FISH); acquisition and elaboration of data from optical (brightfield and phase contrast) and fluorescence (epifluorescence, semi-confocal, and confocal) microscopes; spatial proteomics (up to 100+ markers at the same time)

Bioinformatics Skills: Use of a large number of bioinformatics online databases and tools (conventional and AI-based) (e.g. NCBI, PUBMED, UCSC, Ensembl, Homim, HUGO, Array Express, ExPasy, EudraVigilance, GEPIA2, UCSC Xena, and many others). Characterization of genes promoter by matinspector suite. Use of GraphPad Prism, GPower, JMP, FlowJo, DataAssist, Icy, ChemBioDraw Ultra, Adobe Illustrator, AxioVision, ZEN, NIS-Elements, FCS Express, SnapGene, CLC Sequence Viewer, Adobe Photoshop, Chipster, T.A.C., GSEA, Cytoscape, and Genevestigator. Analysis omics data (microarray, RNA-seq, Single cell RNA-seq, spatial transcriptomics, spatial proteomics, and metabolomics), from public databases or generated in-house (Xenium Explorer, Loupe Browser, SeqGeq, Phenochart, QuPath, and CytoMAP)

Languages: Native Italian - Scientific English

Supplemental certification:

- European Computer Driving License (ECDL Core)
- Course: "Corretto approccio all'attività di sperimentazione animale"
- Course: "Advanced Experimental and Computational Approaches to Biotechnology"
- Course: "Corso Web Marketing e scrivere per il web" for scientific dissemination
- Course: "Training EVOS M5000 Imaging System"
- Course: "Phenocycler-Fusion training"

Society affiliations:

- 2017-in course: Member of "European Academy of Allergy and Clinical Immunology" (EAACI)
from 2021 – **Core Group Member** of Taskforce on "AllergoOncology in the Era of Personalized, Stratified and Precision medicine" - STRATALLON
from 2021 – **Core Group Member** of Taskforce on "Macrophage role in Allergy and Cancer: Novel therapeutic opportunities" - MACTOOL
from 2020 – member of "AllergoOncology" working group
from 2017 – member of Taskforce on "Immunopharmacology" - TIPCO
- 2014-in course: Member of "Italian Society of Pharmacology" (SIF)
from 2021 – member of "Immunopharmacology" working group
from 2019 – member of "Cancer Pharmacology" working group - CPWG-SIF
from 2016 – member of "Inflammation" working group

Awards:

- 2026: **Springer Nature Author Service Award 2026** for the contributions to *Scientific Reports*; this award recognizes the exceptional service in improving the author's experience and ensuring the peer review process is efficient, constructive and fair
- 2025: **Springer Nature Editorial Contribution Award 2025** for the contributions to *Scientific Reports*; this award recognizes the meticulous assessment of submissions and rigorous management of the peer review process, safeguarding the scientific accuracy of the published record
- 2025: **Springer Nature Author Service Award 2025** for the contributions to *Scientific Reports*; this award recognizes the exceptional service in improving the author's experience and ensuring the peer review process is efficient, constructive and fair
- 2021: **"Premio SIF-FARMINDUSTRIA per ricerche Farmacologiche"** sponsored by *Farmindustria* and *Italian Society of Pharmacology* (SIF)
- 2021: Best oral communication prize at 40° National Congress of the *Italian Society of Pharmacology* (SIF)
- 2018: Best scientific contribution prize at 32° National Congress of the *Italian Society of Geriatrics Hospital and Territory* (SIGOT)
- 2017: Best poster prize at 38° National Congress of the *Italian Society of Pharmacology* (SIF)
- 2015: Best poster prize at 37° National Congress of the *Italian Society of Pharmacology* (SIF)

Other:

- 2025-in course: **Academic editor** of "MEDIATORS OF INFLAMMATION - John Wiley & Sons"
- 2024-in course: **Editorial board member** of "SCIENTIFIC REPORTS - Nature Publishing Group" section "Drug Discovery"
- 2022-in course: **Editorial board member** of "SIF MAGAZINE", the outreach magazine of the Italian Society of Pharmacology (SIF)
- 2025-in course: **Guest Associate Editor** of "FRONTIERS IN IMMUNOLOGY" section "Cancer Immunity and Immunotherapy" for the research topic "Community Series in Immune Cell Therapy Approaches Targeting Tumor Microenvironment: Volume II"
- 2024-2025: **Guest Associate Editor** of "FRONTIERS IN IMMUNOLOGY" section "Cancer Immunity and Immunotherapy" for the research topic "Immune Cell Therapy Approaches Targeting Tumor Microenvironment"
- 2023-2024: **Guest Associate Editor** of "FRONTIERS IN IMMUNOLOGY" section "Cancer Immunity and Immunotherapy" for the research topic "Targeting Regulatory Cells in Cancer: Old and New Approaches in Immunotherapy"
- 2024-in course: **Reviewer Editorial board member** of "FRONTIERS IN MOLECULAR BIOSCIENCES" section "Molecular Diagnostics and Therapeutics"
- 2020-in course: **Reviewer Editorial board member** of "FRONTIERS IN IMMUNOLOGY" section "Inflammation"
- 2015-in course: **Journal Referee** for over 15 indexed journals with impact factors, including *Nature Communications*, *Cell Death & Disease*, *Scientific Reports*, *Frontiers in Immunology*, *Frontiers in Molecular Biosciences*, *BMC Medical Genomics*, *International Journal of Immunopathology and Pharmacology*, *Tissue Engineering*, and *Immunity, Inflammation, and Disease*

Scientific publications:

Total IF (IF2026): **476.5**

Total citations by Scopus: **1057** (H index **20**)

Scientific articles:

- Rosati L., Leoncini G., CARI L., Sette M.R., Procaccini M., Nocentini G., Villanacci V., Riccardi C., Migliorati G., Ronchetti S. (2026) - Glucocorticoid-induced Leucine Zipper (GILZ) is a novel secreted protein by intestinal L-cells and is dysregulated during active colitis - CELL DEATH DISCOVERY, accepted **Current IF: 10.4 – Q1**
- Di Giorgio C., Marchianò S., Biagioli M., Lachi G., Massa C., Sensini B., Giannelli E., Sette M.R., Urbani G., Paniconi F., CARI L., Monti M.C., Sepe V., Natalizi N., Graziosi L., Distrutti E., Donini A., Zampella A., Fiorucci S. (2026) - Pharmacological Inhibition of LIF Signaling Reverses PD-L1-Mediated Immune Suppression in Gastric Cancer - TRANSLATIONAL ONCOLOGY, Jun 8:70:102848. doi: 10.1016/j.tranon.2026.102848 **Current IF: 4.9 – Q2**
- Di Giorgio C., Biagioli M., Marchianò S., Massa C., Lachi G., Urbani G., Bordoni M., Bellini R., CARI L., Morretta E., Monti M.C., Graziosi L., Distrutti E., Donini A., Zampella A., Fiorucci S. (2026) - The Farnesoid X Receptor-Bile Acid Axis Contributes to Immune Evasion in Gastric Cancer and its inhibition enhances efficacy of anti-PDL1 therapy - BIOCHEMISTRY AND BIOPHYSICS REPORTS, May 30:46:102653. doi: 10.1016/j.bbrep.2026.102653 **Current IF: 3.3 – Q3**
- Graziosi A., Santoni M., CARI L., Gozzo L., Crucitta S., Di Sotto A., Altamura C., Di Giacomo S., Rizzi L., Ruocco C., Bitto A., Sava G. (2026) - Understanding Online Health Information Consumption Through Web Analytics: A 3-Year Analysis of the Italian Society of Pharmacology Magazine - JMIR FORMATIVE RESEARCH, May 5:10:e93245. doi: 10.2196/93245 **Current IF: 2.4 – Q2**
- Di Giorgio C., Natalizi N., Sette M.R., Bordoni M., Sensini B., Lachi G., Giannelli E., Paniconi F., CARI L., Marchianò S., Biagioli M., Morretta E., Monti M.C., Charlier B., Dal Piaz F., Zampella A., Distrutti E., Graziosi L., Donini A., Fiorucci S. (2026) - Tumor-derived LIF promotes GDF15-driven cachexia and adverse outcomes in gastric cancer - CELLS, Feb 16;15(4):355. doi: 10.3390/cells15040355 **Current IF: 6.0 – Q2**
- Roth-Walter F., Adcock I.M., Benito-Villalvilla C., Bianchini R., Bjermer L., Caramori G., CARI L., Chung K.F., Diamant Z., Eguiluz-Gracia I., Knol E.F., Jesenak M., Levi-Schaffer F., Nocentini G., O' Mahony L., Palomares O., Redegeld F., Sokolowska M., Van Esch B., Zurlo M., Stellato C. (2026) - Update on non-biological and RNA-based therapeutics in chronic inflammatory diseases: precision medicine through small molecules. An EAACI position paper - ALLERGY, Feb 7. doi: 10.1111/all.70235 **Current IF: 11.3 – Q1**
- Leoncini G., Barella M., Droz dit Busset M., Gentili M., Bodini B., Ronchetti S., CARI L., Mazzaferro V. (2026) - Aquaporin-1 differentiates intrahepatic cholangiocarcinoma from liver metastases of pancreatic ductal adenocarcinoma – HISTOPATHOLOGY, Jun;88(7):1360-1372. doi: 10.1111/his.70108 **Current IF: 3.8 – Q1**
- Bianchini R., Escolar-Peña A., Pick V., Poli A., Adams R., Basílio J., CARI L., Chauhan J., Chivato Pérez T., De las Vecillas L., Delgado-Dolset M.I., Escribese M.M., Grandits M., Bax H.J., Martín-Antoniano I.A., De la Cruz L.M., Mayerhofer H., Michelucci A., Nocentini G., Osborn G., Pablo-Torres C., Gracia O.P., Pascal M., Radzikowska U., Rohr-Udilova N., Sokolowska M., Bergmann C., Jensen-Jarolim E., Karagiannis S.N., Rebollido-Rios R., Izquierdo E. (2025) - Molecular Signatures and Functional Pathways of Human Monocytes and Macrophages in Allergy: An EAACI AllergoOncology Scoping Review - ALLERGY, Oct;80(10):2710-2725. doi: 10.1111/all.16672 **Current IF: 11.3 – Q1**
- Fettucciari K., CARI L., Spaterna A., Del Sordo R., Tavanti F., Marconi P., Bassotti G. (2025) - *Clostridioides difficile* meets the adenosine system: the art of manipulating host homeostasis - JOURNAL OF BIOMEDICAL SCIENCE, Jul 11;32(1):66. doi: 10.1186/s12929-025-01160-8 **Current IF: 14.5 – Q1**
- Di Giorgio C., Urbani G., Massa C., Marchianò S., Biagioli M., Bordoni M., Lachi G., Sensini B., Del Sordo R., Paniconi F., Giannelli E., Sette M.R., CARI L., Morretta E., Monti M.C., De Gregorio R., Sepe V., Zampella A., Lapitz A., Milkiewicz P., Milkiewicz M., Banales J.M., Distrutti E., Fiorucci S. (2025) - Leukemia inhibitory factor promotes human cholangiopathies and its inhibition improves cholestasis in Abcb4-/- mice – HEPATOLOGY COMMUNICATIONS, Aug 26;9(9):e0779. doi: 10.1097/HCG.0000000000000779 **Current IF: 6.0 – Q1**

- Maresca D.C., La Civita E., Romano B., Ambrosio M.R., Somma F., Wiss T., Rocco B., Rubino V., CARI L., Krebs P., Rodriguez-Calero A., Ferro M., TrabANELLI S., Jandus C., Crocetto F., Ianaro A., Terracciano D., Ercolano G. (2025) - Circulating Innate lymphoid cells are dysregulated in prostate cancer patients - CELLULAR & MOLECULAR BIOLOGY LETTERS, Apr 18;30(1):48, doi: 10.1186/s11658-025-00725-7 **Current IF: 12.2 – Q1**
- Ceccarelli S., Marzolesi V.P., Vannucci J., Bellezza G., Floridi C., Nocentini G., CARI L., Traina G., Petri D., Puma F., Conte C. (2025) - Toll-like receptor 4 and 8 are overexpressed in lung biopsies of human non-small cell lung carcinoma - LUNG, Mar 1;203(1):38, doi: 10.1007/s00408-025-00793-8 **Current IF: 4.3 – Q1**
- Alhosseini M.N., Maddalon A., CARI L., Ronchetti S., Migliorati G., Corsini E., Nocentini G. (2025) - Imbalance of human CD4+ T lymphocyte subsets following atrazine treatment - ARCHIVES OF TOXICOLOGY, Apr;99(4):1455-1469, doi: 10.1007/s00204-025-03974-9 **Current IF: 10.9 – Q1**
- Di Giorgio C., Urbani G., Marchianò S., Biagioli M., Bordoni M., Bellini R., Massa C., Lachi G., CARI L., Morretta E., Monti M.G., Zampella A., Distrutti E., Banales J.M., Lapitz A., Milkiewicz P., Milkiewicz M., Fiorucci S. (2025) - Liver GPBAR1 associates with immune dysfunction in primary sclerosing cholangitis attenuating cholestasis in Abcb4^{-/-} mice – LIVER INTERNATIONAL, Feb;45(2):e16235, doi: 10.1111/liv.16235 **Current IF: 6.2 – Q1**
- Buoso E., Masi M., Limosani R.V., Fagiani F., Oliviero C., Colombo G., CARI L., Gentili M., Rosati L., Pasini A., Lenti M.V., Di Sabatino A., Mobbs C.L., Przyborski S., Ronchetti S., Travelli C., Racchi M. (2025) - Disruption of epithelial barrier integrity via altered GILZ/c-Rel/RACK1 signaling in inflammatory bowel disease – JOURNAL OF CROHN'S AND COLITIS, Dec 18;jjae191, doi: 10.1093/ecco-jcc/jjae191 **Current IF: 10.3 – Q1**
- Biagioli M., Di Giorgio C., Massa C., Marchianò S., Bellini R., Bordoni M., Urbani G., Roselli R., Lachi G., Morretta E., Dal Piaz F., Charlier B., Fiorillo B., Catalanotti B., CARI L., Nocentini G., Ricci P., Distrutti E., Sepe V., Zampella A., Monti M.C., Fiorucci S. (2024) - Microbial-derived bile acid reverses inflammation in IBD via GPBAR1 agonism and RORγt inverse agonism – BIOMEDICINE & PHARMACOTHERAPY, Dec 9;181:117731, doi: 10.1016/j.biopha.2024.117731 **Current IF: 7.5 – Q1**
- Boccardi V., CARI L., Alhosseini M.N., Bastiani P., Scamosci M., Cecchetti R., Mancinetti F., Caironi G., Aprea G., Nocentini G., Mecocci P. (2024) - Immunonutrition in acute geriatric care: clinical outcomes, inflammatory profiles, and immune responses – NUTRIENTS, Dec 5;16(23):4211, doi: 10.3390/nu16234211 **Current IF: 5.8 – Q1**
- Gentili M., Sabbatini s., Nunzi E., Lusenti E., CARI L., Mencacci A., Ballet N., Migliorati G., Riccardi C., Ronchetti S., Monari C. (2024) - GILZ protein and Yeast Extracted Compound Alleviate Colitis and Reduce Fungal Dysbiosis – BIOMOLECULES, Oct 17;14(10):1321, doi: 10.3390/biom14101321 **Current IF: 5.6 – Q1**
- CARI L., Sorrentino R., Akkaya B., Nocentini G. (2024) - Editorial: Targeting Regulatory Cells in Cancer: Old and New Approaches in Immunotherapy – FRONTIERS IN IMMUNOLOGY, Jul 16;15:1458280, doi: 10.3389/fimmu.2024.1458280 **Current IF: 7.0 – Q1**
- Boccardi V.*, CARI L.*, Bastiani P., Scamosci M., Cecchetti R., Nocentini G., Mecocci P. (2024) - Aberrant telomeric structures and serum markers of telomere dysfunction in aging: a preliminary study – BIOGERONTOLOGY, Nov;25(6):1069-1077, doi: 10.1007/s10522-024-10120-y *joint first author **Current IF: 5.3 – Q1**
- Alhosseini M.N., Ebadi P., Karimi M.H., Migliorati G., CARI L., Nocentini G., Soleimanian S. (2024) - Therapy with regulatory T-cell infusion in autoimmune diseases and organ transplantation: A review of the strengths and limitations – TRANSPLANT IMMUNOLOGY, Aug;85:102069, doi: 10.1016/j.trim.2024.102069 **Current IF: 1.6 – Q3**
- Leoncini G., CARI L., Ronchetti S., Donato F., Caruso L., Calafà C., Villanacci V. (2024) - Mucin expression profiles in Ulcerative Colitis. New insights on the histological mucosal healing - INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, Feb 3;25(3):1858, doi: 10.3390/ijms25031858 **Current IF: 5.6 – Q1**
- Turner M.C.; Radzikowska U.; Ferastraoar D.E.; Pascal M.; Wesseling P.; McCraw A.; Backes C.; Bax J.H.; Bergmann C.; Bianchini R.; CARI L.; De Las Vecilla L.; Izquierdo E.; Lind-Holm Mogensen F.; Michelucci A.

Nazarov P.; Niclou S.P.; Nocentini G.; Ollert M.; Preusser M.; Rohr-Udilova N.; Scafidi A.; Toth R.; Weller M.; Jappe U.; Escribese M.M.; Jensen-Jarolim E.; Karagiannis S.N.; Poli A. (2024) - AllergoOncology: Biomarkers and Refined Classification for Research in the Allergy and Glioma Nexus - a Joint EAACI-EANO Position Paper - ALLERGY, Jun;79(6):1419-1439, doi: 10.1111/all.15994 **Current IF: 11.3 – Q1**

- Roth-Walter F., Adcock I.M., Benito-Villalvilla C., Bianchini R., Bjermer L., Caramori G., CARI L., Chung K.F., Diamant Z., Eguluz-Gracia I., Knol E.F., Jesenak M., Levi-Schaffer F., Nocentini G., O'Mahony L., Palomares O., Redegeld F., Sokolowska M., Van Esch B., Stellato C. (2024) - Metabolic pathways in immune senescence and inflammaging: novel therapeutic strategy for chronic inflammatory lung diseases An EAACI Position Paper from the Task Force for ImmunoPharmacology (TIPCO) - ALLERGY, May;79(5):1089-1122, doi: 10.1111/all.15977 **Current IF: 11.3 – Q1**
- Di Giorgio C., Bellini R., Lupia A., Massa C., Urbani G., Bordoni M., Marchianò S., Rosselli R., De Gregorio R., Rapacciuolo P., Sepe V., Morretta E., Monti M.C., Moraca F., CARI L., Rana K., Ullah S., Natalizi N., Graziosi L., Distrutti E., Biagioli M., Catalanotti B., Donini A., Zampella A., Fiorucci S. (2024) - The Leukemia Inhibitory Factor Regulates Fibroblast Growth Factor Receptor 4 Transcription in In Gastric Cancer – CELLULAR ONCOLOGY, Apr;47(2):695-710, doi: 10.1007/s13402-023-00893-8 **Current IF: 5.6 – Q1**
- Marchianò S., Biagioli M., Bordoni M., Morretta E., Di Giorgio C., Vellecco V., Roselli R., Bellini R., Massa C., CARI L., Urbani G., Ricci P., Monti M.C., Giordano A., Brancaleone V., Bucci M., Zampella A., Distrutti E., Cieri E., Cirino G., Fiorucci S. (2023) - Defective bile acid signaling promotes vascular dysfunction supporting a role for GPBAR1/FXR agonism and statins in the treatment of NAFLD - JOURNAL OF THE AMERICAN HEART ASSOCIATION, Dec 5;12(23):e031241, doi: 10.1161/JAHA.123.031241 **Current IF: 6.0 – Q1**
- Maddalon A.*, CARI L.*, Iulini M., Alhosseini M.N., Galbiati V., Marinovich M., Nocentini G., Corsini E. (2023) - Impact of endocrine disruptors on peripheral blood mononuclear cells: role of gender - ARCHIVES OF TOXICOLOGY, Dec;97(12):3129-3150, doi: 10.1007/s00204-023-03592-3 *joint first author **Current IF: 10.9 – Q1**
- CARI L., Alhosseini M.N., Mencacci A., Migliorati G., Nocentini G. (2023) - Differences in the expression levels of SARS-CoV-2 spike protein in cells treated with mRNA-based COVID-19 vaccines: A study on vaccines from the real world - VACCINES, Apr 21;11(4):879, doi:10.3390/vaccines11040879 **Current IF: 3.5 – Q2**
- Paladini A., Cochetti G., Felici G., Russo M., Saqer E., CARI L., Bordini S., Mearini E. (2023) - Complications of Extraperitoneal Robot-Assisted Radical Prostatectomy in High-Risk Prostate Cancer: Single High-Volume Center Experience - FRONTIERS IN SURGERY, 10:2023, doi: 10.3389/fsurg.2023.1157528 **Current IF: 1.9 – Q2**
- Alhosseini M.N., Palazzo M., CARI L., Migliorati G., Ronchetti S., Nocentini G. (2023) - Overexpression of potential markers of regulatory and exhausted CD8+ T cells in the peripheral blood mononuclear cells of patients with B-acute lymphoblastic leukemia - INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 24(5):4526, doi: 10.3390/ijms24054526 **Current IF: 5.6 – Q1**
- CARI L., Rosati L., Leoncini G., Lusenti E., Gentili M., Nocentini G., Riccardi C., Migliorati G., and Ronchetti S. (2023) - GILZ cooperates with MUC2 and Toll-like receptors in the regulation of human intestinal barrier functions - INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 24(3),2235, doi: 10.3390/ijms24032235 **Current IF: 5.6 – Q1**
- CARI L., Alhosseini M.N., Bergamo A., Pacor S., Pierro S., Sava G., Nocentini G. (2022) - Thrombotic events with or without thrombocytopenia in recipients of adenovirus-based COVID-19 vaccines – FRONTIERS IN CARDIOVASCULAR MEDICINE, 9:967926, doi: 10.3389/fcvm.2022.967926 **Current IF: 3.0 – Q2**
- Cochetti G., CARI L., Maulà V., Cagnani R., Paladini A., Del Zingaro M., Nocentini G., Mearini E. (2022) - Validation in an independent cohort of miR-122, miR-1271, and miR-15b as urinary biomarkers for the potential early diagnosis of clear cell Renal Cell Carcinoma – CANCERS, 14(5),1112, doi: 10.3390/cancers14051112 **Current IF: 4.8 – Q2**
- Cochetti G., De Vermandois J.A.R., Maulà V., CARI L., Cagnani R., Suvieri C., Balducci P.M., Paladini A., Del Zingaro M., Nocentini G., Mearini E. (2022) - Diagnostic performance of the Bladder EpiCheck™ methylation test and photodynamic diagnosis-guided cystoscopy in the surveillance of high-risk non-muscle invasive

bladder cancer: A single centre, prospective, blinded clinical trial – UROLOGIC ONCOLOGY: SEMINARS AND ORIGINAL INVESTIGATIONS, Mar;40(3):105.e11-105.e18, doi: 10.1016/j.urolonc.2021.11.001 **Current IF: 2.8 – Q2**

- CARI L., Alhosseini M.N., Fiore P., Pierno S., Pacor S., Bergamo A., Sava G., Nocentini G. (2021) - Cardiovascular, neurological and pulmonary events following BNT162b2, ChAdOx1 nCoV-19, and Ad26.COV2.S vaccine: an analysis of European data – JOURNAL OF AUTOIMMUNITY, Volume 125, Dec2021 e102742, doi: 10.1016/j.jaut.2021.102742 **Current IF: 6.8 – Q1**
- CARI L., Fiore P., Alhosseini M.N., Sava G., Nocentini G. (2021) - Blood clots and bleeding events following BNT162b2 and ChAdOx1 nCoV-19 vaccine: an analysis of European data - JOURNAL OF AUTOIMMUNITY, Volume 122, Aug2021 e102685, doi: 10.1016/j.jaut.2021.102685 **Current IF: 6.8 – Q1**
- Lisi L., CARI L., Sorrentino R., Mini E., Fimognari C., Nocentini G. (2021) - Immune modulation of cancer: mechanisms and resistance – PHARMADVANCES, Volume 3, issue 3, 2021:479-95, doi: 10.36118/pharmadvances.2021.07 **Current IF: N.A. – N.A.**
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Nontechnical publications:

- CARI L. (2025) - Sostituti sintetici del sangue: cosa sono e come funzionano - Contribution for *SIF MAGAZINE*, the online outreach magazine of the *Italian Society of Pharmacology* (SIF)
- CARI L., Pagano E. (2024) - Nuove terapie per il Morbo di Crohn: dai monoclonali alle cellule staminali - Contribution for *SIF MAGAZINE*, the online outreach magazine of the *Italian Society of Pharmacology* (SIF)
- CARI L. (2024) - Quali farmaci si usano per la terapia del lupus eritematoso sistemico? - Contribution for *SIF MAGAZINE*, the online outreach magazine of the *Italian Society of Pharmacology* (SIF)
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Congress Oral Communications:

- CARI L. (2026) - Decoding hypoxia-adapted regulatory T cells in cholangiocarcinoma through spatial proteomics – Oral Communication on 43th national congress of Italian Society of Pharmacology, Torino, Italy
- CARI L. (2026) - Developments in immunotherapies: ADCs, bispecific antibodies – Invited Communication on “Development of anticancer drugs from preclinical testing to clinical practice: quo vadis?” a national meeting of the Oncological Pharmacology Working Group of the *Italian Society of Pharmacology*, Roma, Italy
- CARI L. (2025) - Dissecting the Tumor Microenvironment for the Development of Next-Generation Targeted Therapies – Invited Communication on “SUMMER MEETING PhD School in Pharmacological Sciences” organized by Department of Pharmaceutical and Pharmacological Sciences of Padova University, Venezia, Italy
- CARI L., Procaccini M., Leoncini G., Migliorati G., Nocentini G. (2025) - Mapping Hypoxia-Driven T Cell Plasticity in Cholangiocarcinoma for a Novel Treg-Targeted Immunotherapy - Oral Communication on conference “The impact of micro- and macro-environments on immunity and inflammation: paving the way for novel immunotherapies” of Italian Society of Pharmacology in collaboration with IUPHAR Immunopharmacology Committee e l'International Union of Immunological Societies, Perugia, Italy
- CARI L., Rosati L., Procaccini M., Ronchetti S., Riccardi C., Migliorati G., Nocentini G. (2024) - SECTM1 as a novel ligand of human G1TR: a new tool for immunomodulation - Oral Communication on 42th national congress of Italian Society of Pharmacology, Sorrento, Italy
- CARI L. (2024) - Bioinformatic approach to big data in gastric cancer, a clinician primer – Invited Oral Communication on “Translational Research in Gastric Cancer: Current Status and Future Perspectives” seminar, Perugia, Italy

- CARI L., Naghavi A.M., Cagnani R., Cochetti G., Mearini E., Nocentini G. (2023) - Targeting GITR for the Next Generation of Cancer Therapies – Oral Communication on XXV Conference of Young SIF Pharmacologists of *Italian Society of Pharmacology*, Urbino, Italy
- CARI L., Alhosseini M.N., Migliorati G., Nocentini G. (2022) - In vitro spike protein production of SARS-CoV-2 mRNA vaccines in the real-world setting: efficacy and safety implications - Oral Communication on 41th national congress of *Italian Society of Pharmacology*, Rome, Italy
- CARI L., Alhosseini M.N., Colopi C., Migliorati G., Nocentini G. (2021) - Bioinformatics analysis of the immune infiltrate in Hodgkin's lymphoma: prognostic and therapeutic implications – Oral Communication on 1st national meeting of the Immunopharmacology Working Group of *Italian Society of Pharmacology*, Perugia, Italy, PHARMADVANCES, doi: 10.36118/pharmadvances.2021.17
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- CARI L., Migliorati G., Nocentini G., (2020) - Human Tissue-Resident T Cell Subsets Trough Bioinformatics: A Landscape - Smart Communication on 18th Immunology Winter School on Basic Immunology Research in Allergy and Clinical Immunology of *European Academy of Allergy and Clinical Immunology*, Chamonix, France
- CARI L., De Rosa F., Migliorati G., Nocentini G., Riccardi C., (2019) - A New bioinformatic tool in the precision medicine perspective: preliminary evidence of its prognostic and predictive value - Smart Communication on 39th national congress of *Italian Society of Pharmacology*, Firenze, Italy
- CARI L., Nocentini G., Maulà V., De Rosa F., Cagnani R., De Vermandois J.R., Paladini A., Mearini E. (2019) - Evaluation of potential targets for ADCC induction against regulatory T cells in Renal Cell Carcinoma - Smart Communication on 92th national congress of *Italian Society of Urology*, Venice, Italy
- Maulà V., Cochetti G., De Vermandois J.R., CARI L., Suvieri C., Panciarola M., Marsico M., Ciarletti S., Nocentini G., Mearini E. (2019) - Detection of the microRNAs miR-1271 in the urine of patients with clear cell Renal Cell Carcinoma (ccRCC) - Smart Communication on 92th national congress of *Italian Society of Urology*, Venice, Italy
- CARI L., De Rosa F., Migliorati G., Riccardi C., Nocentini G. (2018) - A New T-Cell Signature to Study T-Cell Infiltration of Human Cancers: Prognostic and Predictive Value - Oral Communication on 10th *Protein & Antibody Engineering Summit (PEGS) Europe*, Lisbon, Portugal
- Boccardi V., Arosio B., CARI L., Casati M., Ferri E., Gussago C., Scamosci M., Bastiani P., Cesari M., Dionigi Rossi P., Mecocci P. (2018) - Serum β -carotene levels, Alzheimer's disease risk and peripheral telomerase activity in old age subjects - Oral Communication on 32th national congress of *Italian Society of Geriatrics Hospital and Territory (SIGOT)*, Roma, Italy
- Ronchetti S., Ricci E., Pericolini E., Gabrielli E., CARI L., Gentili M., Roselletti E., Migliorati G., Vecchiarelli A., Riccardi C. (2017) - Glucocorticoid-induced leucine zipper (GILZ) interacts with PU.1 thus promoting Annexin a1 expression under dexamethasone treatment in migrating neutrophils - Oral Communication on 38th national congress of *Italian Society of Pharmacology*, Rimini, Italy
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- Montanucci P., Nocentini G., CARI L., Basta G., Ricci E., Petrillo M.G., Shimizu J., Pescara T., Riccardi C., Calafiore R. (2017) - Prevention of diabetes in NOD mice by graft (TX) of G3C MAb releasing hybridoma cells within ultrapure alginate-based microcapsules (AGmc) - Oral Communication on 16th International Pancreas and Islet Transplant Association Congress, Oxford, UK

Il sottoscritto CARI LUIGI dichiara che tutti i fatti riportati nel presente curriculum corrispondono a verità ai sensi e per gli effetti degli artt. 46 e 47 del D.P.R. 445/2000.

Il sottoscritto dichiara di essere a conoscenza delle sanzioni penali cui incorre in caso di dichiarazione mendace o contenente dati non più rispondenti a verità, come previsto dall'art. 76 del D.P.R. 28.12.2000, n. 445.

Il sottoscritto dichiara di essere a conoscenza dell'art. 75 del D.P.R. 28.12.2000, n. 445, relativo alla decadenza dai benefici eventualmente conseguenti al provvedimento emanato, qualora l'Amministrazione, a seguito di controllo, riscontri la non veridicità del contenuto della suddetta dichiarazione.

Si allega a tale scopo copia del documento di identità in corso di validità.

Perugia,
21-07-2026

