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LANGUAGES

Italian	NATIVE
English	PROFESSIONAL
Spanish	BASIC

SOFT SKILLS

Interpersonal skills:

communication, relationship building, leadership.

Intellectual skills: Propensity to learn, analytical thinking, flexible thinking, holistic view.

Technical and managerial skills: decision-making, propension to the result, organization, planning, troubleshooting.

HOBBIES

- **Editor** for Frontiers in Oncology and for AIRI association;
- **Peer reviewer** for Cancers and Frontiers in Oncology;
- Interests in AI applications.

ABOUT ME

- Problem solving aptitude;
- Critical Thinking;
- Resilient;

THEY SAY ABOUT ME

- Trustworthy;
- Patient person;
- Positive thinking;

Di Matteo Sabina

I FIRMLY BELIEVE IN LIFELONG LEARNING AND I HAVE NO INTENTION TO STOP MY SELF

I am a highly **proactive** and **dynamic person**. My **passion for science** drove me to be part of prestigious research teams in **national and international setting** that strongly stimulated me professionally. My thirst for knowledge and natural curiosity have led me to continually improve my skills and share them with the **students and teams** I work with.

I have a track record as a **tutor for Master's and Ph.D. students**, along with **experience as a teacher**. I am a highly motivated **expert in Hepatobiliary-Gastrointestinal disease and cancer, Oncology, and Cancer Immunotherapy**. I hold a Ph.D. and have nine years of experience in translational and clinical research.

With **nine years of research experience**, a dedicated commitment to high standards, and robust **interpersonal and communication skills**, I am well-suited for a researcher and teaching role. I am eager to make a significant contribution to Unicamillus's mission of enhancing lives through education, in a role that aligns perfectly with my background and aspirations.

WORK EXPERIENCE

From Mar 2020 **Teaching**

to Date

MIUR, Rome and Naples, Italy. Secured a permanent secondary school teaching position through a competitive examination.

Teacher of Biotechnology, Health Biotechnology, Chemical and Biological Sciences at secondary school for adults (evening classes). I have actively developed and refined my **leadership skills** by coordinating groups, both in-person and online. This role has honed my **interpersonal and communication skills**, enabling me to effectively use various channels to deliver messages and enhance my **ability to communicate with a heterogeneous, non-specialist audience**. I have earned a total of 60 university credits in Didactics, Educational Mediation, Teaching Methodologies, Psychology, Learning Psychology, Pedagogy, and Communication from Sapienza University of Rome (2018) and Pegaso Online University (2024).

From May 2019 **Senior postdoc researcher**

to Date

Tumor and Translational Immunology Area, IRCCS Bambino Gesù Children's Hospital, Vatican State. Prof. Lorenzo Moretta labs.

Preclinical Research areas: Recipient of a **three-year AIRC fellowship**, through a competitive peer-reviewed grant, to study Neuroblastoma. My research aims to identify **new therapeutic targets**, including **checkpoint inhibitors**, to treat cancer patients. This research involves studying NK cells within the **tumor microenvironment** with a specific emphasis on **advancing cancer immunotherapy** and refining modern **oncological immunotherapy techniques**. Investigation of new therapeutic targets with the aim of **evaluating new uses for two drugs already in clinical trial**. Operated within laboratories certified under UNI EN ISO 9001:2015 standards, consistently upholding rigorous work standards.

Role Description and Achievements:

- **Management** of several scientific pre-clinical research projects including writing, planning and performing experiments, analyzing data, budget and order management.
- **Engagement of collaborations** with researchers and clinicians.
- **Supervisor** of PhD and Master's students.
- **Scientific presentation and data/literature discussion**.
- **Oral/Poster presentations to National and International conferences**.

ROME, 08/05/2024

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From Apr 2018 **Visiting researcher**

to Apr 2019 Gastrointestinal and liver diseases Area, Biodonostia Health Research Institute, San Sebastian, Spain. Prof. Jesús María Bañales

Awarded a scholarship to study Cholangiocarcinoma at the Biodonostia Health Research Institute, a renowned European center of excellence for the study of **Liver tumors**. My work involved analyzing the tumorigenic capacity of human cholangiocarcinoma (CCA) cell lines *in vitro*, **evaluating** their **proteomes**, and comparing them with normal human cholangiocytes. Additionally, I validated these results using **advanced mouse xenograft models**. This opportunity allowed me to **collaborate with prominent researchers and clinicians from various European institutions** and **supervise a Master's student** in her thesis work for a degree in Medicine and Surgery.

From Nov 2014 **Preclinical and clinical researcher**

to Oct 2018 Department of Translational and Precision Medicine, Policlinico Umberto I Hospital, Sapienza University of Rome, Italy. Prof. Domenico Alvaro labs.

- **Supervised Master's students in Medicine and Medical Biotechnology**, guiding their experimental research and thesis writing. This involved overseeing lab work and providing feedback on thesis drafts.
- **Phase 1 clinical trial**: Isolation of human biliary tree stem cells, according to GMP and GCP standards, for transplantation in advanced **cirrhotic patients** for improvement of liver function.
- Manage the **Biobank for the European Registry Data Collection** on Cholangiocarcinoma for **Rome area** (IFO, Gemelli and Umberto I).
- **Conducted translational research** funded by Intercept Pharmaceuticals on biliary tract **tumours**. This included isolating cancer stem cells from surgical tissue samples and testing various pharmacological combinations on primary human lines, both *in vitro* and *in vivo* using mouse models. The objective was to identify **personalized therapies** and propose new pharmacological approaches for Phase I clinical trials. **This research was awarded the AISF and Minerva Prizes, and one of the studied drugs entered a Phase I Clinical Trial.**
- Conducted **preclinical and translational research on hepatic and biliary tract tumors**, as well as **other liver diseases**, using drug tests and molecular and histo-morphological studies on patient-derived cells and animal models.
- **Coordinated** and led various **research groups across different research centers in Italy**. This experience enhanced my mediation and communication skills, allowing me to act as a bridge between medical doctors, biologists, and chemists.

MANAGEMENT SKILLS

- **Thesis Supervision**: I have 8 years of experience in supervising master's thesis projects in Medicine and Surgery, and Medical Biotechnology, guiding students toward successful research outcomes.
- **Management**: I have successfully managed national and international research projects. I have actively and successfully managed groups of up to 30 people in-person and up to 400 people online. I have excellent skills in managing complex systems.
- **Scientific Project Design and Writing**: I have extensive experience in designing and writing research and educational projects.
- **Conference Organization**: Contributed as a member of the Local Scientific Organizing Committee, gaining valuable expertise in organizing conferences. Notably involved in planning the "**II BIENNIAL CONGRESS of the European Network for the Study of Cholangiocarcinoma (ENS-CCA)**" hosted at Sapienza University of Rome in June 2018.
- **Medical Writing**: 10 years of experience in composing scientific papers and reviews, I adhere to Good Publication Practice (GPP) guidelines, ensuring precise and compliant documentation. I also have 5 years of experience as a peer reviewer for scientific articles.
- **Regulatory Expertise**: I am proficient in legal and economic matters related to ICH E6 (R2) GCP, UNI EN ISO standards, Good Manufacturing Practices (GMP), and Standard Operating Procedures (SOPs). I have a solid understanding of Basic GCP qualifications and other regulatory issues.

PROFESSIONAL SKILLS

- **Scientific congresses and meeting**: I have refined my medical and scientific presentation skills at 27 national and **audiences** international congresses, effectively **communicating medical data to leading specialists and broader healthcare**.
- **Data Analysis and literature Research**: Proficient in data analysis techniques and skilled in conducting comprehensive literature searches to support research efforts.
- **Laboratory Protocol Development**: Proficient in **designing**, studying, and validating **laboratory protocols**.
- **Cellular Biology Techniques**:
 - I possess extensive expertise in isolating and cultivating a wide range of cell types, including **primary stem cells, healthy cells, and tumor cells**. My proficiency extends to both adhesion and suspension cell cultures, as well as coculture techniques.
 - Proficient in the **purification of NK and T cells**, cultivating them for use in various molecular and cellular assays.

ROME, 08/05/2024

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- Additionally, I have a proven track record in conducting cell migration and invasion assays, as well as cell differentiation assays.
- My experience includes **co-culturing NK or T cells with target cells** and conducting masking experiments to advance our understanding of cellular interactions.
- Furthermore, I am highly competent in the application of **small interfering RNAs** and proficiently execute cell transfections to manipulate cellular processes effectively.
- **Molecular Biology Techniques:** Proficient in molecular analysis of proteins, mRNA, and DNA, including Western Blot, ELISA assays, PCR/RT-qPCR with primer design, Southern blot, Immunofluorescence, **Immunoprecipitation**, and enzymatic assays. **Purifying recombinant proteins or antibodies expressed in eukaryotic and procaryotic cells. Validating of monoclonal antibodies.**
- **Immunohistochemistry:** Skilled in performing immunohistochemistry for tissue analysis.
- **Flow Cytometry:** Deep expertise in flow cytometry, including **subpopulation identification and sorting**, NK and T cell cytotoxicity assays, cell proliferation assays, and cell apoptosis and cell cycle analyses.
- **DNA Manipulation and Genetic Engineering:** Proficient in gene knockout production through double crossing over, involving the design and production of recombinant plasmids, electroporation, and isolation and study of knockout mutants. Also experienced in vector design, primer design, digestions, ligations, and cloning.
- **Microbiology:** Competent in liquid and solid culture of bacteria, as well as bacterial isolation and transformation. Capable of working in a class II laboratory setting.
- **Pharmacology and Molecular Testing:** Proficient in conducting pharmacological and molecular tests on cell cultures.
- **Bioinformatics:** Proficient in advanced bioinformatics tools and experienced in managing the **Biobank Registry for the European Association of ENS-CCA** in the Rome area.
- **Animal Models:** Proficient in the use of various animal models, such as mice, rats, Balb/c nude mice, and employing methods including xenograft administration of drugs via gavage, intraperitoneal injection, and intravenous injection. Capable of surgically resecting internal organs for subsequent analysis.
- **Clean Room Cell Isolation:** Skilled in cell isolation processes within a clean room environment and maintaining batch records (GMP) for Cell Factory in Human Cell therapy.
- **Statistical Analysis:** Knowledgeable in basic statistical methods.

Computer skills:

I have been developing websites for a long time as a volunteer for the ADEAT-ONLUS charity organization. In April 2013, **I won a student grant for managing the Biotechnology and Hematology Department of Sapienza University website**. From this, I have gained an excellent knowledge of web design tools: HTML, Adobe Dreamweaver, Joomla, Word Press, and related platforms, in addition to cultivating familiarity with database structures and PHP.

My passion for photography and art has driven me to excel in **Adobe Photoshop** for image editing and **Adobe Illustrator** for vector design. Complementing this, I **proficiently leverage PowerPoint** and various **presentation software**, ensuring the creation of compelling **scientific presentations**.

I've gained **proficiency in data analysis**, especially with GraphPad Prism 8 and Excel, CytoFlow platform, FlowJo through my research experience.

Moreover, I possess advanced knowledge in utilizing Discovery Studio Gene, BLAST, NCBI, PubMed, Radar, and NetOGlyc databases. Additionally, I am proficient in the Microsoft Office Suite.

EDUCATION

From Feb 2024 **Postgraduate Master's in Nutrition Science and Applied Dietetics**

To Date Unitelma Sapienza University of Rome.

I am currently enrolled in an annual Postgraduate Master's program, focusing on clinical nutrition and dietetic therapy in **oncology patients and patients with gastrointestinal disease**.

From May 2023 **Clinical Research Training Course**

to Jul 2023 Postgraduate specialization course at: ClinOpsHub CRO and Yghea CRO. Full votation.

Successfully completed **Clinical Research training course**. The curriculum covered **clinical trial design, national and international clinical trial regulations, including GCP (ICH-GCP) standards and clinical trial methodology**.

From Nov 2015 **Ph.D. in Experimental and Clinical Hepato-Gastroenterology**

to Oct 2018 Policlinico Umberto I Hospital and Sapienza University of Rome, Italy. With full votation.

Thesis work focused on **liver tumours and liver diseases**, under the supervision of Prof. Domenico Alvaro

- From Jan 2012 to Mar 2014** **Master's Degree Medical Biotechnology**
Istituto Superiore di Sanità and Sapienza University of Rome (Italy). With full votation: 110/110 summa cum laude.
Experimental thesis work in molecular virology and parasitology; at the **European Reference Institute for Toxoplasmosis** (UNI EN ISO 9001:2015) in the **Italian Istituto Superiore di Sanità**.
- From Nov 2008 to Jan 2012** **Bachelor's Degree Biotechnology**
Department of Biochemical Sciences, Sapienza University of Rome, Italy. With votation: 104/110.
Experimental thesis work in **biochemistry and tumours**, I conducted functional and qualitative tests on protein interactions, supervisor Prof. Fabio Altieri.

Certificates & Courses:

- **Current license to practice: AA_089000**. Issued by **Ordine Nazionale dei Biologi**. 1 Gen 2021.
- Achievement of the **"IT Certification EIPASS 7 Modules IT"**. Issued by Eipass. 4 April 2023.
- Achievement of the **"EIPASS TEACHER"**. Issued by Eipass. 21 May 2022.
- **"Certificate of ICH - GCP E6(R2)"**. Issued by ClinOpsHub CRO and Yghea CRO. 8 July 2023.
- **"ICH E6 (R2) GCP investigator site personnel training"**. Issued by Formazione nel Farmaceutico. 31 Mar 2023.
- **"Il trasporto del campione biologico nelle sperimentazioni cliniche (IATA Training)"**. Issued by Formazione nel farmaceutico. 14 Jul 2023;
- **"Computer System Validation in clinical research"**. Issued by Formazione nel Farmaceutico. 31 Mar 2023.
- **"Good Manufacturing Practice (GMP): Introduzione ai principi della Computer System Validation e alle problematiche del Data Integrity"**. Rilasciato da PAT Way Solutions. 10/10/2018.
- **"Good Manufacturing Practice (GMP-NBF) and Training"**. Issued by Sapienza University of Rome. 6 Mar 2015.
- **"Scientific Writing"**. Issued by Sapienza University of Rome. 20 Apr 2016.
- **"Identification and prevention of laboratory risk"**. Issued by Istituto Superiore di Sanità (ISS), Italy. 24 Oct 2012.
- **"The biological and chemical risk in diagnostic laboratories and in the transfusion service. Risk assessment and legislation S.I.M.T. Quality Control Stem Cells"**. Issued by San Camillo Forlanini Hospital of Rome. 30 Sep 2015.
- National legislation, Directive 63/2010 and international guidelines on the protection of **animals used for experimental purposes**. Issued by Sapienza University of Rome, Italy.
- **"La sicurezza aziendale in ambiente ospedaliero: gestione del rischio, prevenzione e protezione"**. Ospedale Pediatrico Bambino Gesù, Roma. Ultimo aggiornamento: 30/05/2021.

PUBLICATIONS:

<https://orcid.org/0000-0002-2586-7159>

[ResearcherID: D-1876-2017](#)

[Scopus Author ID: 57096248000](#)

- I have **authored 25 full research papers** and **34 conference abstract publications** all in accordance with **Good Publication Practice (GPP) guidelines**. My primary areas of publication expertise are in the fields of **oncology** and **cancer immunotherapy**.
- I have served in the **peer-to-peer** review process as **Scientific Reviewer for several international scientific journals** including Cancers (IF 5.2), International Journal of Molecular Sciences (IF 6.2) and Frontiers in Oncology (IF 5.7), cultivating a **critical mindset** and strengthening analytical skills crucial for deciphering complex scientific and clinical research literature.

AWARD:

- ✓ **Winner of "AIRC Fellowships for Italy"** for oncology research; 2020-2023.
- ✓ **Winner of the "Minerva Award for Scientific Research" II Edition**, Winner of the Minerva Award for Scientific Research for the best doctoral thesis at the Sapienza University of Rome; 2019.
- ✓ **Winner of the "Zegna Foundation Prize"** for scientific research to represent Sapienza University at the national level. Rome, 2019.
- ✓ **Recipient of the "Young Investigator Award AISF 2018"** for my work in **Hepato-gastric Oncology**; 2018.
- ✓ **Winner of the "Torno Subito 2018 Scholarship"** from the Lazio region to conduct scientific studies abroad as a Visiting Researcher. Rome, 2018.
- ✓ **Winner of the "Young Investigator Award" for the International Liver Congress EASL**, Monothematic Conference in Oslo; 2017.
- ✓ **Winner of the "Scholarship for Scientific Research"** for the Department of Medical-Surgical Sciences and Biotechnologies, Sapienza University of Rome, Italy, November 27, 2014.

ROME, 08/05/2024

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SCIENTIFIC PUBLICATIONS DI MATTEO SABINA

<https://orcid.org/0000-0002-2586-7159>

ResearcherID: D-1876-2017

SciProfiles: 972308

Scopus Author ID: 57096248000

Loop profile: 1406305

Pubblicazioni scientifiche presentate da Sabina Di Matteo ai fini della candidatura:

1. **Di Matteo Sabina**, Enrico Munari, Piera Filomena Fiore, Silvia Santopolo, Camilla Sampaoli, Andrea Pelosi, Salem Chouaib, Nicola Tumino, Paola Vacca, Francesca Romana Mariotti, Stefan Ebert, Markus Machwirth, Dorothee Haas, Marco Pezzullo, Gabriella Pietra, Melania Grottoli, Stephanie Buart, Erwan Mortier, Enrico Maggi, Lorenzo Moretta, Ignazio Caruana and Bruno Azzarone. **The roles of different forms of IL-15 in human melanoma progression.** *FRONTIERS IN IMMUNOLOGY*. 2023 Jun 2;14:1183668. Journal IF: 7.3. DOI: <http://dx.doi.org/10.3389/fimmu.2023.1183668>
2. **Di Matteo Sabina**, Maria Teresa Bilotta, Andrea Pelosi, Dorothee Haas, Tobias Theinert, Gerrit Weber, Paul-Gerhardt Schlegel, Matthias Berg, Lorenzo Moretta, Enrico Maggi, Bruno Azzarone, Paola Vacca, Nicola Tumino and Ignazio Caruana. **Transition to a mesenchymal state in neuroblastoma may be characterized by a high expression of GD2 and by the acquisition of immune escape from NK cells.** *FRONTIERS IN IMMUNOLOGY*. 2024 Apr. Volume 15-2024. Journal IF: 7.3. DOI: <https://doi.org/10.3389/fimmu.2024.1382931>
3. **Di Matteo Sabina**, Maria Antonietta Avanzini, Gloria Pelizzo, Valeria Calcaterra, Stefania Croce, Grazia Maria Spaggiari, Charles Theuer, Gianvincenzo Zuccotti, Lorenzo Moretta, Andrea Pelosi and Bruno Azzarone. **Neuroblastoma Tumor-Associated Mesenchymal Stromal Cells Regulate the Cytolytic Functions of NK Cells.** *CANCERS* 2022 Dec 20;15(1):19. Journal IF: 6.6. DOI: <https://doi.org/10.3390/cancers15010019>
4. **Di Matteo Sabina**, Claudia Canzonetta, Andrea Pelosi, Irene Veneziani, Nicola Tumino, Paola Vacca, Enrico Munari, Marco Pezzullo, Charles Theuer, Rita De Vito, Vito Pistoia, 1 Luigi Tomao, Franco Locatelli, Lorenzo Moretta, Ignazio Caruana, Bruno Azzarone. **Identification of neuroblastoma cell lines with uncommon TAZ+/mesenchymal stromal cell phenotype with strong suppressive activity on natural killer cells.** *JOURNAL for IMMUNOTHERAPY of CANCER*. 2021 Jan;9(1):e001313. Journal IF: 12.5. DOI: <http://dx.doi.org/10.1136/jitc-2020-001313>
5. **Di Matteo Sabina**, Lorenzo Nevi, Diletta Overi, Nadine Landolina, Jessica Faccioli, Federico Giulitti, Chiara Napoletano, Andrea Oddi, Augusto M. Marziani, Daniele Costantini, Agostino M. De Rose, Fabio Melandro, Maria C. Bragazzi, Gian Luca Grazi, Pasquale B. Berloco, Felice Giuliani, Giuseppe Donato, Lorenzo Moretta, Guido Carpino, Vincenzo Cardinale, Eugenio Gaudio & Domenico Alvaro. **Metformin exerts anti-cancerogenic effects and reverses epithelial-to-mesenchymal transition trait in primary human intrahepatic cholangiocarcinoma cells.** *SCIENTIFIC REPORTS*. 2021 Jan 28;11(1):2557. Journal IF: 4.6. DOI: <https://doi.org/10.1038/s41598-021-81172-0>
6. **Di Matteo Sabina**, Chiara Di Meo, Guido Carpino, Nicole Zoratto, Vincenzo Cardinale, Lorenzo Nevi, Diletta Overi, Daniele Costantini, Claudio Pinto, Elita Montanari, Marco Marzoni, Luca Maroni, Antonio Benedetti, Marco Viola, Tommasina Coviello, Pietro Matricardi, Eugenio Gaudio, Domenico Alvaro. **Therapeutic effects of dexamethasone-loaded hyaluronan nanogels in the experimental cholestasis.** *DRUG DELIVERY AND TRANSLATIONAL RESEARCH*. 2022 Aug;12(8):1959-1973. Journal IF: 5.4. DOI: <https://doi.org/10.1007/s13346-022-01132-7>
7. **Di Matteo Sabina**, L. Nevi, D. Costantini, D. Overi, G. Carpino, S. Safarikia, F. Giulitti, C. Napoletano, E. Manzi, A. M. De Rose, F. Melandro, M. Bragazzi, P.B. Berloco, F. Giuliani, G. Grazi, A. Giorgi, V. Cardinale, L. Adorini, E. Gaudio, D. Alvaro. **The FXR agonist obeticholic acid inhibits the cancerogenic potential of human cholangiocarcinoma.** *PLOS ONE*. 2019 Jan 24;14(1):e0210077. Journal IF: 3.7. DOI: <https://doi.org/10.1371/journal.pone.0210077>
8. **Di Matteo Sabina**, Nevi Lorenzo, Carpino Guido, Zizzari Ilaria Grazia, Safarikia Samira, Ambrosino Valeria, Costantini Daniele, Overi Diletta, Giancotti Antonella, Monti Marco, Bosco Daniela, De Peppo Valerio, Oddi Andrea, De Rose Agostino Maria, Melandro Fabio, Bragazzi Maria Consiglia, Faccioli Jessica, Massironi Sara, Grazi Gian Luca, Panici Pierluigi Benedetti, Berloco Paquale Bartomeo, Giuliani Felice, Cardinale Vincenzo, Invernizzi Pietro, Caretti Giuseppina, Gaudio Eugenio, and Alvaro Domenico. **DCLK1, a putative novel stem cell marker in human cholangiocarcinoma.** *HEPATOLOGY*. 2021 Jan;73(1):144-159. Journal IF: 17.3. DOI: <https://doi.org/10.1002/hep.31571>

9. **Di Matteo Sabina**, Piera Filomena Fiore, Nicola Tumino, Francesca Romana Mariotti, Gabriella Pietra, Selene Ottonello, Simone Negrini, Barbara Bottazzi, Lorenzo Moretta, Erwan Mortier, Bruno Azzarone. **Interleukin-15 and cancer: some solved and many unsolved questions.** *JOURNAL for IMMUNOTHERAPY of CANCER*. 2020 Nov;8(2):e001428. Journal IF: 12.5. DOI: <http://dx.doi.org/10.1136/jitc-2020-001428>. Articolo di rassegna (Review)
10. Mikel Ruiz de Gauna, Francesca Biancaniello, Francisco González-Romero, Pedro M. Rodrigues, Ainhoa Lapitz, Beatriz Gómez-Santos, Paula Olaizola, **Sabina Di Matteo**, Igor Aurrekoetxea, Ibone Labiano Ane Nieva-Zuluaga, Asier Benito-Vicente, María J. Perugorria, Maider Apodaka-Biguri, Nuno A. Paiva, Diego Sáenz de Urturi, Xabier Buqué, Igotz Delgado, César Martín, Mikel Azkargorta, Felix Elortza, Diego F. Calvisi, Jesper B. Andersen, Domenico Alvaro, Vincenzo Cardinale, Luis Bujanda, Jesús M. Banales, Patricia Aspichueta. **Cholangiocarcinoma progression depends on the uptake and metabolism of extracellular lipids.** *HEPATOLOGY*. 2022 Dec;76(6):1617-1633. Journal IF: 17.3. DOI: <https://doi.org/10.1002/hep.32344>
11. Daniele Costantini, Diletta Overi, Luca Casadei, Vincenzo Cardinale, Lorenzo Nevi, Guido Carpino, **Sabina Di Matteo**, Samira Safarikia, Mariacristina Valerio, Fabio Melandro, Mariano Bizzarri, Cesare Manetti, Pasquale Bartolomeo Berloco, Eugenio Gaudio & Domenico Alvaro. **Simulated microgravity promotes tridimensional cultures and stimulates pluripotency and a glycolytic metabolism in human hepatic and biliary tree stem/progenitor cells.** *SCIENTIFIC REPORTS*. 2019 Apr 3;9(1):5559. Journal IF: 4.9. DOI: <https://doi.org/10.1038/s41598-019-41908-5>
12. Guido Carpino, Diletta Overi, Fabio Melandro, Alessio Grimaldi, Vincenzo Cardinale, **Sabina Di Matteo**, Gianluca Mennini, Massimo Rossi, Domenico Alvaro, Vincenzo Barnaba, Eugenio Gaudio and Carmine Mancone. **Matrisome analysis of intrahepatic cholangiocarcinoma unveils a peculiar cancer-associated extracellular matrix structure.** *CLINICAL PROTEOMICS*. 2019 Oct 30;16:37. Journal IF: 3.4. DOI: <https://doi.org/10.1186/s12014-019-9257-x>
13. Alessandra Gentilini, Giulia Lori, Alessandra Caligiuri, Chiara Raggi, Giovanni Di Maira, Mirella Pastore, Benedetta Piombanti, Tiziano Lottini, Annarosa Arcangeli, Stefania Madiati, Nadia Navari, Jesus M. Banales, **Sabina Di Matteo**, Domenico Alvaro, Lea Duwe, Jesper B. Andersen, Alessandro Tubita, Ignazia Tusa, Luca Di Tommaso, Claudia Campani, Elisabetta Rovida, and Fabio Marra. **Extracellular signal-regulated kinase 5 regulates the malignant phenotype of cholangiocarcinoma cells.** *HEPATOLOGY*. 2021 Oct;74(4):2007-2020. Journal IF: 17.3. DOI: <https://doi.org/10.1002/hep.31888>
14. Guido Carpino, Lorenzo Nevi, Diletta Overi, Vincenzo Cardinale, Wei-Yu Lu, **Sabina Di Matteo**, Samira Safarikia, Pasquale Bartolomeo Berloco, Rosanna Venere, Paolo Onori, Antonio Franchitto, Stuart J. Forbes, Domenico Alvaro, and Eugenio Gaudio. **Peribiliary Gland Niche Participates in Biliary Tree Regeneration in Mouse and in Human Primary Sclerosing Cholangitis.** *HEPATOLOGY*. 2020 Mar;71(3):972-989. Journal IF: 17.3. DOI: <https://doi.org/10.1002/hep.30871>
15. Guido Carpino, Vincenzo Cardinale, Trine Folseraas, Diletta Overi, Krzysztof Grzyb, Daniele Costantini, Pasquale Bartolomeo Berloco, **Sabina Di Matteo**, Tom Hemming Karlsen, Domenico Alvaro, and Eugenio Gaudio. **Neoplastic transformation of the peribiliary stem cell niche in cholangiocarcinoma arisen in primary sclerosing cholangitis.** *HEPATOLOGY*. 2019 Feb;69(2):622-638. Journal IF: 17.3. DOI: <https://doi.org/10.1002/hep.30210>
16. Andrea Pelosi, Piera Filomena Fiore, **Sabina Di Matteo**, Irene Veneziani, Ignazio Caruana, Stefan Ebert, Enrico Munari, Lorenzo Moretta, Enrico Maggi, and Bruno Azzarone. **Pediatric Tumors-Mediated Inhibitory Effect on NK Cells: The Case of Neuroblastoma and Wilms' Tumors.** *CANCERS*. 2021 May 14;13(10):2374. Journal IF: 6.9. DOI: <https://doi.org/10.3390/cancers13102374> . Articolo di rassegna (Review)
17. Alessandra Gentilini, Alessandra Caligiuri, Chiara Raggi, Krista Rombouts, Massimo Pinzani, Giulia Lori, Margherita Correnti, Pietro Invernizzi, Elisabetta Rovida, Nadia Navari, Sabina Di Matteo, Domenico Alvaro, Jesus M. Banales, Pedro Rodrigues, Carlotta Raschioni, Matteo Donadon, Luca Di Tommaso, Fabio Marra. **CXCR7 contributes to the aggressive phenotype of cholangiocarcinoma cells.** *BIOCHIM BIOPHYS ACTA MOLECULAR BASIS OF DISEASE*. 2019 Sep 1;1865(9):2246-2256. Journal IF: 6.6. DOI: <https://doi.org/10.1016/j.bbadis.2019.04.020>
18. Lorenzo Nevi, Daniele Costantini, Samira Safarikia, **Sabina Di Matteo**, Fabio Melandro, Pasquale Bartolomeo Berloco and Vincenzo Cardinale. **Cholest-4,6-Dien-3-One Promote Epithelial-To-Mesenchymal Transition (EMT) in Biliary Tree Stem/Progenitor Cell Cultures In Vitro.** *CELLS*. 2019 Nov 15;8(11):1443. Journal IF: 6. DOI: <https://doi.org/10.3390/cells8111443>

19. Nevi Lorenzo, Safarikia Samira, **Sabina Di Matteo**, Biancaniello Francesca, Chiappetta Michele Francesco, Cardinale Vincenzo. **Hyaluronan-Based Grafting Strategies for Liver Stem Cell Therapy and Tracking Methods.** *STEM CELLS INTERNATIONAL*. 2019 Jul. 1;2019:3620546. Journal IF: 4.3. DOI: <https://doi.org/10.1155/2019/3620546>
Articolo di rassegna (Review)
20. Lorenzo Nevi, Vincenzo Cardinale, Guido Carpino, Daniele Costantini, **Sabina Di Matteo**, Alfredo Cantafora, Fabio Melandro, Roberto Brunelli, Carlo Bastianelli, Camilla Aliberti, Marco Monti4, Daniela Bosco, Pasquale Bartolomeo Berloco, Pierluigi Benedetti Panici, Lola Reid, Eugenio Gaudio & Domenico Alvaro. **Cryopreservation protocol for human biliary tree stem/progenitor hepatic and pancreatic precursors.** *SCI REP*. 2017 Jul 20;7(1):6080. Journal IF: 4.3. DOI: <https://doi.org/10.1038/s41598-017-05858-0>
21. Lorenzo Nevi, Guido Carpino, Daniele Costantini, Vincenzo Cardinale, Olga Riccioni, **Sabina Di Matteo**, Fabio Melandro, Pasquale Bartolomeo Berloco, Lola Reid, Eugenio Gaudio, and Domenico Alvaro. **Hyaluronan coating improves liver engraftment of transplanted human biliary tree stem/progenitor cells.** *STEM CELL RES THER*. 2017 Mar 20;8(1):68. Journal IF: 5. DOI: <https://doi.org/10.1186/s13287-017-0492-7>
22. Maria Consiglia Bragazzi, Lorenzo Ridola, Samira Safarikia, **Sabina Di Matteo**, Daniele Costantini, Lorenzo Nevi, Vincenzo Cardinale. **New insights into cholangiocarcinoma: multiple stems and related cell lineages of origin.** *ANN GASTROENTEROL*. 2018 Jan-Feb;31(1):42-55. Journal IF: 2.3. DOI: <https://doi.org/10.20524/aog.2017.0209> Articolo di rassegna (Review)
23. Anna Maria Lustri, **Sabina Di Matteo**, Alice Fraveto, Daniele Costantini, Alfredo Cantafora, Chiara Napoletano, Maria Consiglia Bragazzi, Felice Giuliani, Agostino M. De Rose, Pasquale B. Berloco, Gian Luca Grazi, Guido Carpino, Domenico Alvaro. **TGF- β signaling is an effective target to impair survival and induce apoptosis of human cholangiocarcinoma cells: A study on human primary cell cultures.** *PLOS ONE*. 2017 Sep 5;12(9):e0183932. Journal IF: 3.8. DOI: <https://doi.org/10.1371/journal.pone.0183932>
24. Alice Fraveto, Vincenzo Cardinale, Maria Consiglia Bragazzi, Felice Giuliani, Agostino Maria De Rose, Gian Luca Grazi, Chiara Napoletano, Rossella Semeraro, Anna Maria Lustri, Daniele Costantini, Lorenzo Nevi, **Sabina Di Matteo**, Anastasia Renzi, Guido Carpino, Eugenio Gaudio, Domenico Alvaro. **Sensitivity of Human Intrahepatic Cholangiocarcinoma Subtypes to Chemotherapeutics and Molecular Targeted Agents: A Study on Primary Cell Cultures.** *PLOS ONE*. 2015 Nov 16;10(11):e0142124. Journal IF: 4.17. DOI: <https://doi.org/10.1371/journal.pone.0142124>
25. Maria Consiglia Bragazzi, Lorenzo Ridola, Samira Safarikia, **Sabina Di Matteo**, Daniele Costantini, Lorenzo Nevi, Vincenzo Cardinale. **Intrahepatic cholangiocarcinoma: review and update.** *HEPATOMA RESEARCH*. 18 Jun 2018;4:20. Journal IF: 0.43. DOI: <https://doi.org/10.20517/2394-5079.2018.46> . Articolo di rassegna (Review)

ATTI A CONGRESSO IN CUI LA CANDIDATA DI MATTEO SABINA HA FATTO **PRESENTAZIONI ORALI A CONFERENZE COME PRIMO NOME:**

- 1) **EASL:** European Association for the Study of the Liver. OSLO 2017. **ORAL PRESENTATION AS SPEAKER: Di Matteo S.**, Costantini D., Nevi L., Giulitti F., Faccioli J., Napoletano C., Safarikia S., Manzi E., Derose A.M., Meandro F., Bragazzi M.C., Grazi G., Berloco P.B., Giuliani F., Carpino G., Cardinale V., Gaudio E., Alvaro D. "Chronic treatment with clinic dose of metformin completely reverses the epithelial to mesenchymal transition (EMT) in human intrahepatic cholangiocarcinomas (iCCAs) by activated AMPK / Foxo3a pathway." Atti a congresso Journal of Hepatology 2017. MO-207.
- 2) **ASIF:** ASSOCIAZIONE ITALIANA STUDIO DEL FEGATO. **ORAL PRESENTATION AS SPEAKER: Di Matteo S.**, Costantini D., Nevi L., Lustri A., Napoletano C., Faccioli J., Giulitti F., Manzi E., DeRose A.M., Bragazzi M.C., Grazi G., Berloco P.B., Giuliani F., Cardinale V., Carpino G., Alvaro D. "Metformin reduces cell migration and down-regulates epithelial to mesenchymal transition (EMT) by AMPK / FOXO3a pathway in human intrahepatic cholangiocarcinoma (CCA)" AISF, Roma 2017.
- 3) **FISMAD:** Federazione Italiana delle Società delle Malattie dell'Apparato Digerente. **ORAL PRESENTATION AS SPEAKER:**

Di Matteo S., Nevi L., Costantini D., Colantonio M., Giulitti F., Napoletano C., Safarikia S., Manzi E., Derose A.M., Meandro F., Bragazzi M.C., Grazi G., Berloco P.B., Giuliente F., Carpino G., Cardinale V., Gaudio E., Alvaro D. "The FXR agonist, obeticholic acid, inhibits the cancerogenic potential of primary human cholangiocarcinoma cells: a study on primary human cell cultures." OC.08.2. 24 °Congresso Nazionale delle Malattie Digestive 21-24 Marzo 2018 - ROMA.

- 4) **ASIF: ASSOCIAZIONE ITALIANA STUDIO DEL FEGATO.** Roma 2018. **ORAL PRESENTATION AS SPEAKER: Di Matteo S.**, Nevi L., Costantini D., Colantonio M., Giulitti F., Napoletano C., Safarikia S., Manzi E., De Rose A.M., Meandro F., Bragazzi M.C., Grazi G., Berloco P.B., Giuliente F., Carpino G., Cardinale V., Gaudio E., Alvaro D. "The FXR agonist, obeticholic acid, inhibits the cancerogenic potential of primary human cholangiocarcinoma cells: a study on primary human cell cultures." *Digestive and Liver Disease*. ORAL COMMUNICATIONS OC.08 PANCREAS AND BILIARY| VOLUME 50, ISSUE 2, E87, MARCH 15, 2018. DOI: [https://doi.org/10.1016/S1590-8658\(18\)30310-4](https://doi.org/10.1016/S1590-8658(18)30310-4)
- 5) **FISMAD: Federazione Italiana delle Società delle Malattie dell'Apparato Digerente.** Congresso Nazionale delle Malattie Digestive. 1 Aprile 2017 Bologna. **ORAL PRESENTATION AS SPEAKER: Di Matteo S.**, Lustri A.M., Costantini D., Nevi L., Faccioli J., Napoletano C., Cantafora A., Manzi E., Melandro F., De Rose A.M., Bragazzi M.C., Grazi G.L., Berloco P.B., Giuliente F., Cardinale V., Carpino G., Alvaro D. "Metformin inhibits proliferation, enhances apoptosis and downregulates epithelial to mesenchymal transition in human cholangiocarcinoma: a study on human primary cell cultures". 23 °Congresso Nazionale delle Malattie Digestive, Bologna, 2017. *Digestive and Liver Disease*. 2017. Vol. 49, Pag. E113, Suppl. 2, Meeting Abstract OC.13.3. DOI: [https://doi.org/10.1016/S1590-8658\(17\)30377-8](https://doi.org/10.1016/S1590-8658(17)30377-8)

ATTI A CONGRESSO IN CUI LA CANDIDATA DI MATTEO SABINA HA PARTECIPATO COME **POSTER PRESENTATION A CONFERENZE COME PRIMO NOME**

- 6) **EASL: European Association for the Study of the Liver.** Vienna 2019. **POSTER PRESENTATION AS FIRST NAME: Di Matteo S.**, Nevi L., Cardinale V., Zizzari I.G., Ambrosino V., Biancaniello F., Costantini D., Safarikia S., De Peppo V., De Rose A.M., Melandro F., Bragazzi M., Giuliente F., Berloco P.B., Grazi G., Carpino G., Gaudio E., Alvaro D. "DoubleCortin/Like Kinase 1 (DCLK1) expression characterized specific cancer stem cell subpopulations of human cholangiocarcinoma primary cell cultures where its inhibition exerts anti-neoplastic effects." *Journal of hepatology*. 2019. Vol. 70, Issue 1, Pag. E360-E361, Suppl. 1, Meeting Abstract THU-457. [https://doi.org/10.1016/S0618-8278\(19\)30704-2](https://doi.org/10.1016/S0618-8278(19)30704-2)
- 7) **ASIF: ASSOCIAZIONE ITALIANA STUDIO DEL FEGATO.** **POSTER PRESENTATION AS FIRST NAME: Di Matteo S.**, Costantini D., Nevi L., Lustri A.M., Napoletano C., Faccioli J., Giulitti F., Manzi E., De Rose A.M., Bragazzi M.C., Grazi G., Berloco P.B., Giuliente F., Cardinale V., Carpino G., Alvaro D. "Metformin reduces cell migration and down-regulates epithelial to mesenchymal transition (EMT) by AMPK/Foxo3a pathway in human intrahepatic cholangiocarcinoma (CCA)." *Digestive and Liver Disease*. 2017. Vol. 49, Issue 1, Pag. E13, Suppl. 1, Meeting Abstract OC-25. <https://doi.org/10.1016/j.dld.2017.01.029>
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- 10) **EASL: European Association for the Study of the Liver.** Amsterdam 2017. **POSTER PRESENTATION AS FIRST NAME: Di Matteo S.**, Lustri A.M., Costantini D., Nevi L., Manzi E., Napoletano C., Faccioli J., Giulitti F., De Rose A.M., Bragazzi M.C., Grazi G., Berloco P.B., Giuliente F., Cardinale V., Carpino G., Alvaro D. "Metformin reduces cell migration and down-regulates epithelial to mesenchymal transition by AMPK / Foxo3a pathway in human

intrahepatic cholangiocarcinoma." *Journal of Hepatology*. 2017. Vol. 66, Issue 1 Pag. S636, Suppl. S, Meeting Abstract ST-116. DOI: [https://doi.org/10.1016/S0168-8278\(17\)31723-3](https://doi.org/10.1016/S0168-8278(17)31723-3)

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- 12) Ruiz de Gauna M., Biancaniello F., González-Romero F., Rodrigues P.M., La-pitz A., Gómez Santos B., Olaizola P., **Di Matteo S.**, Aurrekoetxea I., Labiano I., Nieva-Zuluaga A., Benito-Vicente A., Perugorria M.J., Apodaka-Biguri M., Paiva N., Saenz de Ur-turi D., Buque X., Delgado I., Martín C.A., Azkargorta M., Elortza F., Calvisi D., Andersen J., Alvaro D., Cardinale V., Bujanda L., Banales J.M., Aspichueta P. "The uptake of extracellular lipids promotes cholangiocarcinoma progression." POSTER PRESENTATIONS: FRIDAY 24 JUNE *Journal of Hepatology*. 2022. VOLUME 77, SUPPLEMENT 1, S648, JULY 2022. DOI: [https://doi.org/10.1016/S0168-8278\(22\)01611-7](https://doi.org/10.1016/S0168-8278(22)01611-7)
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- 15) Costantini D., Carpino G., Cardinale V., Overi D., Nevi L., **Di Matteo S.**, Safarikia S., Melandro F., Berloco P.B., Gaudio E., Alvaro D. "Different micro-environmental factors induce proliferation, epithelial-mesenchymal transition (EMT) and senescence of primary cultures of human biliary tree stem/progenitor cells (hBTSCs), recapitulating the pathological features typical of human cholangiopathies." *Journal of Hepatology*. 2018. Vol. 68, Pag. S124-S125, Suppl. 1, Meeting Abstract THU-002. Poster Presentation 12 Aprile 18 *Journal of Hepatology*. DOI: [https://doi.org/10.1016/S0168-8278\(18\)30461-6](https://doi.org/10.1016/S0168-8278(18)30461-6)
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- 20) Safarikia S., Cardinale V., Costantini D., **Di Matteo S.**, Nevi L., Carpino G., Bosco D., Alvaro D. "Generation of 3D organoids of human fetal biliary tree stem cells (hBTSCs) as innovative tool for the regenerative medicine of liver and pancreas." *Digestive and Liver Disease*. 2018. Vol. 50, Issue 2, Pag. E77, Suppl. S, Meeting Abstract OC.04.1. ORAL COMUNICATION EASL. DOI: [https://doi.org/10.1016/S1590-8658\(18\)30285-8](https://doi.org/10.1016/S1590-8658(18)30285-8)
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- 30) Gentilini A., Lori G., Caligiuri A., Raggi C., Di Maira G., Pastore M., Piombanti B., Lottini T., Arcangeli A., Madiati S., Taddei A., Banales J.M., **Di Matteo S.**, Alvaro D., Andersen J.B., Duwe L., Tubita A., Rovida E., Marra F.

"Extracellular signal-regulated kinase 5 regulates the malignant phenotype of cholangiocarcinoma cells" AISF 53rd AISF Virtual Annual Meeting March 3rd-4th-5th, 2021. Poster presentation *Digestive and Liver Disease* OC-12 | VOLUME 53, SUPPLEMENT 1, S6, MARCH 2021. DOI: <https://doi.org/10.1016/j.dld.2020.12.026>

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