

NICOLA ROMANINI

CANCER IMMUNOTHERAPY RESEARCHER

WORK EXPERIENCE

RESEARCH BIOLOGIST

Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST), Meldola (FC) | May 2022 - Current

- Solid tumors and tumor microenvironment
- Immunotherapy (CAR-T, CAR-NK, Immune Checkpoint Inhibitors etc.)
- iPSC- derived NK cancer immunotherapy

MOLECULAR BIOLOGY LABORATORY INTERNSHIP

University of Ferrara | Jan 2019 - Oct 2019

- Genome Editing by CRISPR-Cas9 and Tc-PNA on PBMCs and K562.

EDUCATION AND TRAINING

MASTER'S DEGREE IN PHARMACEUTICAL CHEMISTRY AND TECHNOLOGY, 99

University of Ferrara | Sept 2010 - Oct 2019

PHD IN TRANSLATIONAL AND PRECISION MEDICINE

University of Siena | Nov 2023 - Current

POSTER ABSTRACTS

EXPLOITING MULTI-OMIC INTEGRATED DATA FROM DC-VACCINATED MELANOMA PATIENTS FOR THE GENERATION OF AN ADVANCED ADOPTIVE T CELL THERAPY

NIBIT Melanoma Clinical Science [Award](#), Padova | Oct 2022

ACTIVITY ASSESSMENT OF GD2.CAR T CELLS IN PRECLINICAL 3D MODELS OF METASTATIC MELANOMA

New technologies and strategies to fight cancer ACC, Rome | Sept 2022

GD2 CAR-T CELL THERAPY: UNRAVELING ITS POTENTIAL IN IMMUNE- RESISTANT MELANOMA

New technologies and strategies to fight cancer ACC, Genoa | Sept 2023

MELANOMA-ASSOCIATED FIBROBLASTS RESTRICT CAR.GD2 ANTI-TUMOR EFFICACY VIA PROSTAGLANDIN E2

IV Conference on advanced therapies and radiopharmaceuticals [Award](#), Rimini | Sept 2024

ADVANCING CAR-NK CELL IMMUNOTHERAPY: SCALABLE PRODUCTION OF NATURAL KILLER CELLS FROM INDUCED PLURIPOTENT STEM CELLS USING BIOREACTORS

ESGCT, Rome | Oct 2024

STANDARDIZED GENERATION OF IPSC-DERIVED NK CELLS FOR IMMUNOTHERAPY: GENE EDITING AND ALGORITHM-GUIDED PROCESS OPTIMIZATION

ESGCT, Seville | Oct 2025

TITLES AND COURSES

B2 LEVEL ENGLISH COURSE

British School, Lugo (RA) | oct 2019 - jun 2020

QUALIFICATION AS A PHARMACIST

Ferrara | Nov 2019

IPSC COURSE

Thermo Fisher Scientific | July 2023 - Aug 2023

IMMUNO-ONCOLOGY COURSE

Harvard Medical School | Sept 2023 - Nov 2023

ANNUAL GOOD CLINICAL PRACTICE (GPC) UPDATE COMPLETED

Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST), Meldola (FC) | Nov 2023

GENE THERAPY COURSE

Harvard Medical School | Sept 2024 - Nov 2024

TRAINING IN CELL THERAPY AND IMMUNO-ONCOLOGY: HANDS-ON INTERNSHIP ON TUMOR-INFILTRATING LYMPHOCYTES

National Center for Cancer Immune Therapy (CCIT-DK), University Hospital, Copenhagen | Nov 2024 - Dec 2024

ADVANCE COURSE ON CELL AND GENE THERAPIES

National Institute of Health, Rome | Feb 2025

CREATING KNOCK-OUT AND KNOCK-IN USING CRISPR/CAS9

CBEHx | Jun 2025

TRAINING COURSE FOR REPRESENTATIVES

Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST), Meldola (FC) | Gen 2024 - Current

AWARDS

EARLY BIONEERS - IPSC-DERIVED CANCER IMMUNOTHERAPY

Belgian Embassy, Rome | Nov 2023

ESGCT 3 MINUTE THESIS CONTEST

ESGCT, Rome | Oct 2024

GRANTS

PNRR SPOKE 10 - IOTHERAPY

IRST-IRCCS, Meldola | Nov 2024 - Nov 2025

MAJOR PUBLICATIONS

EFFICIENT CRISPR-CAS9-BASED GENOME EDITING OF B-GLOBIN GENE ON ERYTHROID CELLS FROM HOMOZYGOUS B 0 39-THALASSEMIA PATIENTS

CHALLENGES AND OPPORTUNITIES OF HUMAN IPSC-DERIVED NK AS "OFF-THE-SHELF" CELLULAR THERAPIES (UNDER REVIEW)

COUPLING ADOPTIVE CELL THERAPY WITH BORON NEUTRON CAPTURE THERAPY: USING FUNCTIONAL TUMOR-INFILTRATING LYMPHOCYTES FOR TUMOR DELIVERY OF BORON CARBIDE NANOPARTICLES (UNDER REVIEW)

VACCINE-EXPANDED PLASMABLAST-LIKE B CELLS ARE ASSOCIATED WITH RESPONSE TO DENDRITIC CELL THERAPY IN METASTATIC MELANOMA (UNDER REVIEW)

CONFERENCES, MISSIONS AND INSTITUTIONAL UPDATES

- UPDATE OF EDUCATION AND TRAINING FOR ACCESS TO IRST CRYOBIOLOGICAL ROOMS - 06/06/2022 - 27/06/2022
- DRUG DISCOVERY DAY: BRINGING ACADEMIC DISCOVERIES TO THE ENTERPRISE LEVEL - 10/06/2022
- PHISHING - 2022
- DRUG DISCOVERY DAY: BRINGING ACADEMIC DISCOVERIES TO THE ENTERPRISE LEVEL - 10/06/2022
- SMART WORK SECURITY - 20,21,22/06/2022
- DATA PROTECTION PRIVACY TRAINING - 04/07/2022
- SAFETY PROCEDURES: UPDATING WORKERS - 14/07/2022
- THE INTEGRATED MEDICAL RECORD - 25/07/2022
- PERSONALIZED MEDICINE IN LOCALLY ADVANCED RESECTABLE GASTRIC CANCER: WHERE WE ARE GOING - 13/09/2022
- MINI SYMPOSIUM POST ASCO E POST AACR - 13/09/2022
- ITALIAN CYTOF CONGRESS - 27/10/2022
- 4TH INTERNATIONAL TRANSLATION COURSE IN RARE CANCERS (ITCRC) - 28,29/10/2022
- GENE EDITING: PRESENT AND FUTURE - 02/12/2022
- THE SKILLS INTEGRATION SYSTEM - 21/03/2023
- FROM RESEARCH TO BUSINESS: THE MATERIAS MODEL FOR TECHNOLOGY TRANSFER - 22/03/2023
- SCIENTIFIC WRITING: HOW TO CHOOSE THE RIGHT JOURNAL TAKING ADVANTAGE OF SOME OPPORTUNITIES - 17/04/2023
- GLIOBLASTOMA: NEW HORIZONS IN THE ERA OF PERSONALIZED THERAPY - 04,05/05/2023
- TUMOR INFILTRATING LYMPHOCYTE (TIL) THERAPY, TOWARDS STANDARD OF CARE (MEET THE PROFESSOR: MARCO DONIA) - 15/05/2023
- GOOD CLINICAL PRACTICE: DALLA TEORIA ALLA PRATICA - 15/06/2023
- DRUG DISCOVERY DAY 2: FROM BASIC RESEARCH TO BUSINESS: NEW CHALLENGES AND OPPORTUNITIES FOR THE PRODUCTION OF CELLULAR DRUGS AND ATMPs - 27/06/2023
- ENGLISH MEDICAL SCIENCE. SCIENTIFIC WRITING FOR PUBLICATION - 28/06/2023 - 03,05/07/2023
- A TRANSLATIONAL APPROACH TO ELUCIDATE NEUROENDOCRINE TUMORIGENESIS (MEET THE PROFESSOR: NATALIA PELLEGGATA) - 03/07/2023
- STRATEGIC TRAINING MANAGEMENT - 05/09/2023
- III ITALIAN SYMPOSIUM ON ADVANCED THERAPIES - 27,28,29/09/2023
- INTEGRATING CIRCULATING TUMOR DNA ANALYSIS INTO CLINICAL PRACTICE IN GASTRO ESOPHAGEAL CANCER - 21/11/2023
- NATIONAL ONCOLOGY CONFERENCE - 6/11/2023
- THINKING TRANSLATIONAL FROM LAB TO ATMP MANUFACTURING, HIGHLIGHTS OF OUR VALUE CREATION FUNNEL AND SCALABILITY OPPORTUNITIES - 20/02/2024
- IMMUNOTHERAPY PROJECT UPDATE - 01/02/2024 - 16/12/2024
- NGS PLANNING SCHOOL - 13/02/2024 - 28/02/2024
- MICROTRAINING: PREVENTION OF CUTS, PUNCTURE WOUNDS, AND BIOLOGICAL ACCIDENTS - 04/01/2024 - 12/15/2024
- TRANSLATIONAL RESEARCH MEETS GENDER ONCOLOGY: WHERE ARE WE NOW? - 04,05/04/2024
- CREATING A BIOTECH COMPANY: STRATEGIES FOR LEVERAGING AN IDEA BASED ON TRANSLATIONAL RESEARCH EXCELLENCE - 28/05/2024
- IN VIVO GENOME-WIDE CRISPR SCREENS IDENTIFY TARGETS PROTECTING ALLOGENEIC T-CELLS FROM NK AND T-CELLS MEDIATED REJECTION - 08/05/2024
- STRATEGIC TRAINING MANAGEMENT - TRAINING REFERENTS NETWORK MEETING - 09/05/2024
- IV CONFERENCE ON ADVANCED THERAPIES AND RADIOPHARMACEUTICALS - 25,26,27/09/2024
- THE 31ST ANNUAL MEETING OF THE EUROPEAN SOCIETY OF GENE & CELL THERAPY - ESGCT 2024 - 22,23,24,25/10/2024
- CELL THERAPY SUMMIT: IPSCS APPLICATIONS AND INNOVATIONS - 18,19/12/2024
- INTRODUCTION OF THE CODE OF CONDUCT FOR RESEARCH INTEGRITY - 04/02/2025
- II ITALIAN IPSC USER MEETING - 20/02/2025
- III ANNUAL NOTA MEETING - 27,28/03/2025
- RESEARCH PROJECTS - 13/05/2025 - 20/05/2025
- STRATEGIC TRAINING MANAGEMENT - TRAINING REPRESENTATIVES NETWORK MEETING 03/09/2025
- V CONFERENCE ON ADVANCED THERAPIES AND RADIOPHARMACEUTICALS - 17,18,19/09/2025
- THE 32ST ANNUAL MEETING OF THE EUROPEAN SOCIETY OF GENE & CELL THERAPY - ESGCT 2025 - 7,8,9,10/10/2025

DATA: 14/10/2025

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