

## ● WORK EXPERIENCE

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01/11/2019 – CURRENT – Milan, Italy  
**ONCOLOGY RESIDENT** – ISTITUTO NAZIONALE DEI TUMORI

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03/2019 – 09/2019  
**FREELANCE MEDICAL DOCTOR** – MERRY HOUSE CLINIC

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- Run of the Hospice department (9 beds)
  - Home visits for terminally ill patients (36 patients)
- Rome, Italy

## ● EDUCATION AND TRAINING

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01/11/2019 – CURRENT – Milan, Italy  
**ONCOLOGY RESIDENCY** – Università degli studi di Milano

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09/2012 – 07/2018 – Rome, Italy  
**MEDICINE AND SURGERY DEGREE - LAUREA IN MEDICINA E CHIRURGIA** – Campus Bio-medico University

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Final grade: 110/110 *cum laude*

12/2014 – 07/2018 – Rome, Italy  
**TRASLATIONAL ONCOLOGY LABORATORY/MEDICAL ONCOLOGY DEPT.** – Campus Bio-medico University

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- Active participation to the Laboratory research (experiments execution, data interpretation, writing of papers)
  - Acquisition of laboratory basic skills
- Procedures I can carry out by myself: use of laminar flow cabinet, maintenance of a cell culture, serum and cells extraction from peripheral blood, protocols for macrophage differentiation into osteoclasts, protein, DNA or RNA extraction from cell culture, western blot, PCR, real time PCR.*

09/2018 – 11/2018  
**VISITING RESEARCHER** – University of Zurich (Switzerland)

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- Bioinformatics analyses with R and Bioconductor, comprising:
- CyTof data
  - Lung cancer mutation data

09/2017 – 10/2017 – Antwerp, Belgium  
**PHASE I CLINICAL TRIALS UNIT - ANTWERP** – Antwerp University Hospital

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Writing of several papers concerning personalized therapy of NSCLC under the supervision of Prof. Christian Rolfo

09/2016 – Richmond, United States  
**OBSERVERSHIP AT THE PHILIPS INSTITUTE FOR ORAL HEALTH RESEARCH** – Virginia Commonwealth University

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- Familiarization with experiments conducted on animal cancer models (mice)

## ● PUBLICATIONS

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### Publications

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**13 articles in impacted journals:**

**H index: 5 - Citations: 87** (Google Scholar, 20th October 2019)

1. **P Manca**, Russano M, Pantano F, Tonini G, Santini D. Change from lung adenocarcinoma to small cell lung cancer as a mechanism of resistance to afatinib.
2. **P Manca**, I Mallona, D Santini, G Tonini, CD Rolfo, MD Robinson, F Pantano A new bioinformatic pipeline allows the design of small, targeted gene panels for efficient TMB estimation
3. Rolfo C, **P Manca**, Salgado R, ..., Peeters M, Pauwels P. Multidisciplinary molecular tumour board: a tool to improve clinical practice and selection accrual for clinical trials in patients with cancer.
4. LE Raez, **P Manca**, C Rolfo, V Singh ROS-1 Rearrangements in Circulating Tumor Cells
5. C Rolfo, **P Manca**, R Salgado, ..., P Pauwels Integrating Liquid Biopsy in Molecular Tumor Board Decision for Lung Cancer Patients
6. C Rolfo, D Arias, JF Gaudia, **P Manca**, E Santos, LE Raez Ceritinib: an orphan drug for ALK positive non-small cell lung cancer with robust clinical evidence
7. **P Manca**, LE Raez, M Salzberg, ..., C Rolfo The value of immunotherapy in head and neck cancer
8. **P Manca**, F Pantano, M Iuliani, G Ribelli, D De Lisi, R Danesi, M Del Re, ... Determinants of bone specific metastasis in prostate cancer
9. P Reclusa, S Taverna, M Pucci, E Durendez, S Calabuig, **P Manca**, ... Exosomes as diagnostic and predictive biomarkers in lung cancer
10. M Fioramonti, D Santini, M Iuliani, G Ribelli, **P Manca**, N Papapietro, ... Cabozantinib targets bone microenvironment modulating human osteoclast and osteoblast functions
11. F Passiglia, C Caglevic, E Giovannetti, JA Pinto, **P Manca**, S Taverna, ... Primary and metastatic brain cancer genomics and emerging biomarkers for immunomodulatory cancer treatment
12. D Santini, F Pantano, M Iuliani, G Ribelli, **P Manca**, B Vincenzi, G Tonini Bone-Modifying Agents and Anticancer Agents with Bone Effects
13. CD Rolfo, **P Manca**, R Salgado, P Van Dam, A Dendooven, AM Coelho, ... Effects of molecular tumor board and different NGS panels implementation for the treatment of patients with cancer.

Complete list on Google Scholar: <https://scholar.google.it/citations?user=iaIN5qgAAAAJ&hl=it>

## ● CONFERENCES AND SEMINARS

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### Conferences

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- Oral presentation at WCGC 2021
- **ELCC 2019** (Geneve, April 2019)
- **AIOM XVIII, XIX and XX National Congresses** (Rome, October 2016, 2017 and 2018)

## ● HONOURS AND AWARDS

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### Honours and awards

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**Merit Award** from ESMO (European Society of Medical Oncology) for the participation to the European Lung Cancer Congress for the poster "A new bioinformatic pipeline allows the design of small, targeted gene panels for efficient TMB estimation" (April 2019)

**Best Medical Student** of Campus Bio-Medico University for the academic year 2016 - 2017

## ● PATENTS

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### Patents

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I'm the main inventor of a **patent** request for a bioinformatic pipeline developed to estimate the **tumor mutational burden** in cancer

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## Grants

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- **April 2019:** travel grant provided by ESMO for the attendance of the conference "ELCC 2019" in which I presented my poster concerning a computational method for the management of lung cancer
- **September 2016:** 1000 euro travel grant provided by "Campus Bio-medico Alumni Association" on the basis of academic merit for the attendance of the course "A primer on clinical and traslational research" in Richmond, Virginia.
- **Academic year 2012/2013:** 6000 euro grant provided by "Regione Sardegna" for first year students on the basis of academic merit

## ● COURSES

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### Courses

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- **"Multidisciplinary Course in Oncology for Medical Students"** (Antwerp University, Belgium)  
*A two weeks course during which I attended lessons concerning the multidisciplinary approach to different tumors. Acceptance was on a merit basis*