



**Marco Vicari**

MD, PhD student

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## PROFILE

MD, Clinical Pathology and Biochemistry specialist. Currently PhD student at Joakim Lundeberg's lab (KTH, SciLifeLab, Stockholm), working on spatial multiomics. I am passionate about tech dev in life sciences.

## SKILLS

ST

scRNAseq

FACS

R

## LANGUAGES

Italian ★★★★★

English ★★★★★

Spanish ★★★★★

## FIND ME ON

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## INTERESTS

Comics Nature Tech Food

## EXPERIENCE

PhD Mar 2021 – present

📍 KTH Royal Institute of Technology, SciLifeLab, Stockholm, Sweden

Part of Prof. J.Lundeberg's lab, with focus on spatial multiomics. During my PhD I developed a spatial method to perform metabolomics and transcriptomics on the same tissue section.

Clinical Pathology and Biochemistry residency program Nov 2015 – Oct 2019

📍 Campus Bio-medico University Hospital, Rome, Italy

Clinical trainings in Laboratory Diagnostics, Transfusional Medicine, Microbiology and Pathology. Along with that, I did the following internships:

📍 Weizmann Institute of Science, Rehovot, Israel

technology development for NGS applications, under the supervision of Dr. E.Shema and Prof. L.Shlush.

📍 CIMA Lab Diagnostics, Pamplona, Spain

oncohematological diagnostics, flow cytometry, cell sorting, single cell RNA seq (data production and data analysis using R) and exome seq under the supervision of Dr. B.Paiva and Dr. D.Lara-Astiaso.

📍 IFO – Regina Elena National Cancer Institute, Rome, Italy

oncohematological diagnostics and flow cytometry under the supervision of Dr. I.Cordone

## EDUCATION

Medicine and Surgery degree Sep 2008 – Jul 2014

📍 Catholic University of the Sacred Heart, Rome, Italy

Internships in General Pathology lab under the supervision of Profs. G.Pani and E.Bartoccioni. Internship and thesis in Pathology lab under the supervision of Profs. L.M.Larocca, R.Pallini and M.Martini.

## PUBLICATIONS

– 2024 Spatial Dynamics of the Developing Human Heart Enikő Lázár et al. [view online]

– 2023 Spatial multimodal analysis of transcriptomes and metabolomes in tissues Marco Vicari et al. Nature Biotechnology [view online]

– 2023 A topographic atlas defines developmental origins of cell heterogeneity in the human embryonic lung Alexandros Sountoulidis et al. Nature Cell Biology [view online]

– 2021 Impact of Histology and Tumor Grade on Clinical Outcomes Beyond 5 Years of Follow-Up in a Large Cohort of Renal Cell Carcinomas Manuela Costantini et al. Clinical Genitourinary Cancer [view online]

– 2021 Tumor cells in light-chain amyloidosis and myeloma show distinct transcriptional rewiring of normal plasma cell development Daniel Alameda et al. Blood [view online]

– 2019 Transcriptional profiling of circulating tumor cells in multiple myeloma: a new model to understand disease dissemination Juan-Jose Garcés et al. Leukemia [view online]

– 2019 Morphometric analysis of atypical glandular cells correctly classifies normal, reactive, and atypical cells in cervical smears Marco Vicari et al. Diagnostic Cytopathology [view online]