



Vincenzo L'Imperio

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Date of birth: 20/02/1991 **Nationality**: Italian

ABOUT ME

Assistant Professor of Pathology at the University of Milano-Bicocca, Practicing pathologist at the Pathology Department of Fondazione IRCCS San Gerardo dei Tintori in Monza, Italy. Vice President of the European Society of Digital and Integrative Pathology (ESDIP).

WORK EXPERIENCE

University of Milano-Bicocca

City: Monza | **Country**: Italy

[16/01/2023 – Current] **Assistant Professor of Pathology (researcher type A)**

Research activity focused on the application of molecular and digital pathology tools on both oncology (thyroid cancer) and non-oncology (glomerulonephritis) fields thanks to the clinical activity within the Pathology Department of Fondazione IRCCS San Gerardo dei Tintori.

Fondazione IRCCS San Gerardo dei Tintori

City: Monza | **Country**: Italy

[01/12/2020 – Current] **Practicing Pathologist**

Diagnostic activity focused on the assessment of renal biopsies in light microscopy, immunofluorescence and electron microscopy with >400 renal biopsies per year and thanks to the employment of a digital pathology facility including different types of slide scanners.

Molecular pathology activity for the characterization of target mutation for addressing the therapy in different types of solid tumors.

European Society of Digital and Integrative Pathology (ESDIP)

City: Porto | **Country**: Portugal

[01/06/2022 – Current] **Chair of the Scientific Committee**

Responsible for the scientific activities of the **European Society of Digital and Integrative Pathology (ESDIP)** - <https://www.esdipath.org/>

In particular:

- organization of the annual congress (**European Congress of Digital Pathology - ECDP**) within Program and Scientific committees in 2023 (Budapest - <https://www.ecdp2023.org/>), 2024 (Vilnius - <https://www.ecdp2024.org/>) and ongoing in Barcelona (2025 - <https://www.ecdp2025.org/>)
- organization of online webinars in Digital Pathology for the **ESDIP Workshop** series (the IV and V edition - <https://www.esdipevents.org/>)
- author of the **European Guidelines for the implementation of digital pathology in Anatomy Pathology departments** (*Diagnostics (Basel)*. 2021 Nov 22;11(11):2167)

European Society of Digital and Integrative Pathology (ESDIP)

City: Porto | **Country**: Portugal

Responsible for the creation of an online Digital and Integrative Pathology course for pathologists and Computer Scientists, the **ESDIP Academy** (<https://www.esdipath.org/academy/>).

Last author of the scientific publication "**Annotation practices in computational pathology: a European Society of Digital and Integrative Pathology (ESDIP) survey study**" (*Lab Invest.* 2024 Nov 28;102203. doi: 10.1016/j.labinv.2024.102203. Online ahead of print.)

PUBLICATIONS

Author of 100 scientific publications in indexed journals with about 882 citations and an h-index of 17 (source Scopus)

Scopus ID: 56705585900

Researcher ID: R-4242-2018

ORCID: 0000-0002-9284-2998

EDUCATION AND TRAINING

[01/11/2016 – 04/11/2020] **Pathology Residency Program**

University of Milan

City: Monza | **Country:** Italy | | **Final grade:** 70/70 cum laude | **Thesis:** Il laboratorio di nefropatologia come modello applicativo della patologia digitale: dal WSI alla proteomica

Come da oggetto di tesi, il percorso formativo della Scuola di Specializzazione in Anatomia Patologica si è svolto in parallelo ad attività specifiche professionalizzanti così riassumibili:

- Diagnostica oncoematologica
- Patologia molecolare predittiva oncologica
- Patologia digitale
- Sviluppo di device diagnostico/predittivi basati su innovative tecnologie di proteomica spaziale (Matrix assisted laser desorption ionization mass spectrometry imaging, MALDI-MSI) su patologia neoplastica e non.

[01/08/2019 – 31/01/2020] **Fellowship in Renal Pathology**

Vanderbilt University Medical Center | <https://www.vumc.org/pmi/division-renal-pathology>

City: Nashville, Tennessee | **Country:** United States |

Fellowship intensiva nel Renal Lab della Prof.ssa Agnes Fogo al fine di sviluppare alta competenza diagnostica nell'ambito delle patologie renali non neoplastiche (glomerulonefriti), con particolare riferimento allo studio delle malattie in ambito onconefrologico ed ematologico.

Esposto durante la fellowship ad oltre 1000 biopsie renali da rene nativo e trapiantato, oggetto di interpretazione mediante microscopia ottica, immunofluorescenza/ immunohistochimica e microscopia elettronica.

Coinvolto durante la fellowship in diversi progetti di ricerca relativi a patologia da rene nativo e da trapianto, tra i quali:

- valutazione di biomarcatori tissutali con valore prognostico in biopsie renali da trapianto da da donatore HCV+

valutazione del device diagnostico per la detezione precoce del rigetto anticorpo-mediato del trapianto renale mediante liquid biopsy (DNA libero circolante del donatore)

[01/09/2009 – 08/07/2015]

School of Medicine and Surgery

Università degli studi di Milano-Bicocca <https://www.medicina.unimib.it/it>

City: Monza | **Country:** Italy | | **Final grade:** 110/110 cum laude | **Thesis:** Caratterizzazione immunoistochimica della nefropatia membranosa

Lavoro di tesi di laurea consistente nella validazione e standardizzazione di colorazioni immunoistochimiche specifiche (PLA2R, THSD7A e IgG4) nell'iter diagnostico di un particolare gruppo di patologie renali non neoplastiche (nefropatia membranosa).

LANGUAGE SKILLS

Mother tongue(s): Italiano

Other language(s):

Inglese

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Artificial Intelligence | Foto e video editing - Adobe Photoshop, Adobe Illustrator, Adobe Indesign, Adobe Premiere | Software di analisi di immagini ImageJ, Cell Profiler, QuPath, Gimp | LIMS (Laboratory Information Management System) | Python, Google Colab, Kaggle, TensorFlow, Modelli Deep Learning (CNN, Autoencoder) | Digital Pathology

PROJECTS

[24/04/2023 – Current]

A Digital Pathology Platform for Molecular Onconephrology: the PROFOUND project (GR-2021-12374235)

Principal collaborator for the IRCCS San Gerardo dei Tintori Foundation in the project entitled:

"A Digital Pathology Platform for Molecular Onconephrology: the PROFOUND project"

Funded by the Italian Ministry of Health under the 2021 Finalized Research call (GR-2021-12374235)

The project essentially focuses on the validation of various medical devices in the field of non-neoplastic renal pathology (glomerulonephritis):

- digital pathology platform to create a Lombardy-level nephropathology network for the primary diagnosis of glomerulonephritis
- validation and standardization of immunofluorescence/immunohistochemistry methods for the characterization of glomerulonephritis
- application of in situ proteomics methods (MALDI/MSI) to identify new diagnostic/prognostic biomarkers in glomerulonephritis

[01/01/2023 – Current]

ANTHEM: AdvANced Technologies for HumancentrEd Medicine (cod. PNC0000003)

Main collaborator for the University of Milano-Bicocca in the project entitled:

"ANTHEM: AdvANced Technologies for Humancentred Medicine"

funded by the National Plan complementary to the PNRR (code PNC0000003) intended for research initiatives for innovative technologies and paths in the health and welfare sector

[01/12/2024 – Current]

Computational pathology as Laboratory Assistant for Risk stratification in Invasive Follicular thyroid-cell tumors with Artificial Intelligence: the CLARIFAI project

Project funded by Google to face the challenge of reducing the number of diagnostic thyroidectomies in those cases (25%) affected by thyroid nodules with indeterminate cytology results. To do so, the project will apply digital and computational tools to:

- extension of the capabilities of the already consolidated histology-based classifier NUTSHELL on cytological samples;
- application of multiple instance learning (MIL) on labeled cytology samples

[26/11/2024 – Current]

Dissecting the tumour-immune landscape of ccRCC: the role of altered lipid metabolism in resistance to immunotherapy

Principal collaborator in the project entitled

"Dissecting the tumour-immune landscape of ccRCC: the role of altered lipid metabolism in resistance to immunotherapy"

funded by the Associazione Italiana Ricerca nel Cancro (AIRC) within the program my first AIRC grant (MFAG) 2024

The project will focus on spatial multi-omics to map T-cell infiltration in renal tumours and characterise the molecular mechanisms through which they modulate response to immune checkpoint inhibitors

HONOURS AND AWARDS

[15/01/2024]

Young researchers award 2023 Awarding institution: University of Milano-Bicocca and Accademia dei Lincei

"For the valuable results obtained in the field of pathology, focused in particular in the field of the histomolecular characterization of neoplastic pathologies; and for the use of innovative approaches of digital pathology and spatial multiomics"

Link: <https://www.unimib.it/news/premio-giovani-talenti-ecco-vincitori-delledizione-2023>

[23/05/2016]

Travel award Awarding institution: Association for Pathology Informatics

Travel award for the Pathology Informatics Summit 2016 (23-26 May, Pittsburgh, PA) with the presentation on "The putative role of MALDI-MSI in the study of membranous nephropathy"

[10/11/2018]

Travel award Awarding institution: American Society of Cytopathology (ASC)

Travel award for the 66° Annual Meeting of the American Society of Cytopathology (ASC) in Washington (10-13 Nov 2018) with 2 accepted posters and 1 oral presentation

[10/09/2018]

Travel award Awarding institution: Università degli studi di Bari

Travel award to participate to the Summer School "Biomarcatori, trasferimento tecnologico e innovazione di prodotto, BIOTRAIN" (10-18 Sept 2018, Bari) organized by the University of Bari Aldo Moro (Bari)

[06/06/2020]

Registration award Awarding institution: ERA-EDTA

Registration award for the online meeting of the ERA EDTA (6-9 June 2020)

SERVICE TO PROFESSION AND MEMBERSHIPS

[01/10/2019 – 01/10/2022]

Junior member fo the Board of the Italian Society of Pathology and Cytology (SIAPEC)

Responsible of the organization of the Junior pathologists and resident session during the annual and triennial SIAPEC congresses.

[11/02/2022 – Current]

Component of the Membership Committee of the Renal Pathology Society

Management of the new membership requests and participation in the activities to engage colleagues in joining the society

PUBLIC ENGAGEMENT

Telepathology document for patients endorsed by FAVO (federazione italiana delle associazioni di volontariato in oncologia)

<https://osservatorio.favo.it/tredicesimo-rapporto/parte-terza/digital-pathology/>

Responsible of the creation and management of the website for Pathology Residency program of the University of Milano-Bicocca

www.apuniimb.it

Manager of different Social Media Platforms for scientific dissemination

X account: @VImperioMD

Instagram account: vlimperiomd

Linkedin: limperiomd

Monza, 23/07/2025



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