

ESP Advanced Training Centre for Nephropathology Monza, Italy

Name of the center and address	Nephropathology Laboratory Fondazione IRCCS San Gerardo dei Tintori Università degli studi di Milano-Bicocca via Pergolesi, 33 20900, Monza, Italy
Chair of the Center	Prof. Fabio Pagni
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Details about specific areas in which training can be offered

The Nephropathology Laboratory of Fondazione IRCCS San Gerardo dei Tintori, University of Milano-Bicocca, Monza, Italy receives over 300 new biopsies of native renal pathology per year, being a center of excellence and recognized national reference. The center is currently responsible for the second opinion diagnostic review of nephropathology cases from native and transplant renal biopsies for various national and international hospitals. It is equipped with a dedicated facility for the preparation of light microscopy and immunofluorescence with the possibility to perform indirect immunofluorescence on formalin fixed paraffin embedded samples after pronase digestion. The electron microscopy facility allows the ultrastructural study and definition of rare immune complex, paraprotein-related and inherited renal conditions. Moreover, a digital pathology facility is available for the digitization of the light microscopy and immunofluorescence slides thanks to the employment of different scanning solutions (Aperio CS2 and ScanScope FL of Leica, MIDI II 3DHISTECH and NanoZoomer S60 from Hamamatsu) with a online platform (NDP.serve) hosting the whole slide images (WSIs) of renal biopsies. The access to a large repository of retrospective renal biopsies with complete clinical and pathological details allows the application of machine learning and artificial intelligence tools for research and clinical purposes. A complementary proteomics application can be investigated thanks to the strong collaboration with the Proteomic Unit of University of Milano-Bicocca with in situ applications through MALDI-MSI for the study of renal amyloidosis and membranous nephropathy. More details can be found at the website: <https://apunimib.it/>

Number of positions offered for each year, expected duration of the training:

A minimum of 1 month is required, usually 3 to 6 months.

The department can accommodate 1 position per training slot.

There is no time restriction, but it is required that the slot is arranged with enough anticipation.

No charges will be required for training.

In case required, we will assist applicants in the request of necessary visa, insurance, or other travel documents and in the research of the accommodation for the training period.

At the end of the training period, a certificate will be provided to the trainees with the description of their work.

Contact address for requesting details by the applicant:

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Research references from the center:

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