



MARCO PEREIRA

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ABOUT MYSELF

Biomedical Scientist.
Specialist in Digital Pathology.

WORK EXPERIENCE

Fundação Champalimaud – Lisbon, Portugal

City: Lisbon | Country: Portugal

Digital Pathology Specialist

Senior Biomedical Scientist at the Pathology Center of the Champalimaud Foundation:

He is part of the newly formed Digital Pathology department. Works on implementation and best practices in digital pathology. Works in multidisciplinary teams.

He is part of an international research project with a start-up based at Mount Sinai (New York) involving artificial intelligence algorithms and digital pathology.

He supports research projects at the Champalimaud Foundation.

Portuguese Institute of Oncology of Lisbon Francisco Gentil - E.P.E – Lisbon, Portugal

City: Lisbon | Country: Portugal

Internship Supervisor

[2020 – 2022]

Supervisor of Curricular Internships for the Degree in Biomedical Laboratory Sciences in the area of Histotechnology

Portuguese Institute of Oncology of Lisbon Francisco Gentil - E.P.E – Lisbon, Portugal

City: Lisbon | Country: Portugal

Biomedical scientist

[24/05/2010 – 13/10/2022]

Pathology Technician in the Pathology Department of the Instituto Português de Oncologia de Lisboa Francisco Gentil - E.P.E - Cytopathology Laboratory

Pathology Technician in the Pathology Department of the Instituto Português de Oncologia de Lisboa Francisco Gentil - E.P.E - Histopathology Laboratory. Occasionally working in the Special Techniques Laboratory - Immunocytochemistry and Cytopathology Laboratory.

Performed duties as Clinidata XXI Software Manager - Implementation, adaptation of the software to the reality of the Service, development, integration with various hardware and peripherals. Liaison between Maxdata, the IPOFG Lisbon IT Department and the IPOFG Pathology Department.

Performing functions in the field of Digital Pathology with the APERIO-AT2 system. Implementation and integration with LIS.

Integrating the Quality Management team of the Pathology Department

Portuguese Institute of Oncology of Lisbon Francisco Gentil - E.P.E – Lisbon, Portugal

City: Lisbon | Country: Portugal

Internship

[02/02/2009 – 31/07/2009]

The theoretical and practical training focused on the following topics:

1. Receipt of biological samples for cytopathological examination, with verification of preanalytical criteria;
2. Processing of cytology samples in liquid based, cytospin and cellblock methods;
3. Staining of samples using Papanicolaou and May-Grünwald Giemsa methods;
4. General aspects of laboratory management and quality management in a cytopathology laboratory;
5. Support for fine needle aspiration cytology examination.

EDUCATION AND TRAINING

Artificial Intelligence Course for Beginners

Code for All [04/02/2025 – 20/02/2025]

City: Lisbon | Country: Portugal | Website: <https://codeforall.com/>

Postgraduate course in Digital Pathology

Coimbra School of Health Technology [01/03/2024 – 12/07/2024]

City: Coimbra | Country: Portugal | Website: <https://www.estesc.ipc.pt/> | Level in EQF: EQF level 6

AI for Pathologists 2023

DeePathology [2023 – 2023]

City: Lisbon | Country: Portugal | Website: <https://deepathology.ai/>

Introduction to Image Analysis in Digital Pathology with QuPath

LogicLab [01/12/2023 – 04/12/2023]

City: Porto | Country: Portugal | Website: <https://logicdatascience.wordpress.com/>

Digital Pathology Certificate of Completion Program

National Society for Histotechnology [01/04/2023 – 01/12/2023]

Country: United States | Website: <https://www.nsh.org/home> | Level in EQF: EQF level 6

Microsoft Excel Course

Training Center of the Portuguese Oncology Institute of Lisbon [2022 – 2022]

City: Lisbon | Country: Portugal | Website: <https://academia.ipolisboa.min-saude.pt/index.php/formacoes/>

Basic tools of Quality

STSS - National Union of Diagnostic and Therapeutic Technicians [2020 – 2020]

City: Lisbon | Country: Portugal | Website: <https://www.stss.pt/>

Occupational Health and Safety (OHS) Officer

"Conclusion" - Studies and Training [01/01/2020 – 01/06/2020]

City: Lisbon | Country: Portugal | Website: <https://conclusao.pt/portal/> | Level in EQF: EQF level 6

ISO 9001 update course

Training Center of the Portuguese Institute of Oncology of Lisbon [01/05/2019 – 20/05/2019]

City: Lisbon | Country: Portugal | Website: <https://academia.ipolisboa.min-saude.pt/index.php/formacoes/>

Degree in Pathological, Cytological and Thanatological Anatomy

Lisbon School of Health Technologies [01/09/2004 – 01/09/2008]

Website: <https://www.estesl.ipl.pt/> | Level in EQF: EQF level 6

Cambridge English: Advanced (CAE)

[2004]

LANGUAGE SKILLS

Mother tongue(s): Portuguese

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

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

CONFERENCES & SEMINARS

[03/2025] Lisbon

"AI - New Laboratories, New Realities"

Speaker at the lecture "AI - New Laboratories, New Realities" as part of the scientific panel "Artificial Intelligence: Shaping Healthcare Landscape" at the III BioMedLab Congress

Link: <https://biomedlab.pt/3-congresso/>

[11/2024] Rotterdam, The Netherlands

"Biomedical Scientists Unleashed: Shaping Sustainable Healthcare!"

Key Note Speaker at the EPBS Conference 2024 "Biomedical Scientists Unleashed: Shaping Sustainable Healthcare!" Rotterdam, The Netherlands

Link: <https://epbs.net/events/epbs-conference-2024/>

[2023]

XVIII Health Informatics Conference, JIS Summit

Participant in the XVIII Health Informatics Conference, JIS Summit 2023

[2023] Santa Maria da Feira, Portugal

National Congress of Pathological Anatomy

Speaker at the National Congress of Pathological Anatomy, on the panel Artificial Intelligence and Digital Pathology

Link: <https://23congressoaptap.wixsite.com/23congressotap>

[2023] New York. USA

World Congress on Artificial Intelligence and Digital Pathology

Participation in the World Congress on Artificial Intelligence and Digital Pathology in New York

[2022]

Webinar on Digital Pathology

Speaker at the webinar on Digital Pathology organized by APTAP (Portuguese Association of Pathology Technicians)

[2021] Luso, Portugal

National Congress of Pathological Anatomy

Speaker at the National Congress of Pathological Anatomy, on the panel on Safety at Work

PUBLICATIONS

[2025]

Mitotic Count in Breast Carcinoma - are there differences between Microscope vs Digital assessment?

Mitotic count (MC) is one of the three characteristics evaluated to determine the histological grade of invasive breast carcinoma (IBC), besides tubule formation and nuclear pleomorphism. Besides the well-known existence of a substantial inter- and intra-observer variation among pathologists when visually counting mitotic figures, the impact of the evaluation on whole slide images (WSI) generated by digital pathology (DP) is not well categorized. We this pilot study, we aim to assess and compare visual mitotic count in targeted areas of IBC in core needle biopsy (CNB) samples using traditional light microscope (LM) vs WSI of the same target-areas.

Authors: Raquel Graca-Lopes 1 , Carlos Faria 2 , Marco Pereira 1 , Sofia Lerias 3 , Leonardo Lordello 1 , Rafaela Lima-Rego 1 , Maria Brito 1 , Mireia Castillo-Martin 1 , Rita Canas-Marques 1 | **Journal Name:** Laboratory Investigation | **Volume, Issue and Pages:** Volume 105, Issue 3, Supplement, 2025, 102379, ISSN 0023-6837,

Raquel Graca-Lopes 1 , Carlos Faria 2 , Marco Pereira 1 , Sofia Lerias 3 , Leonardo Lordello 1 , Rafaela Lima-Rego 1 , Maria Brito 1 , Mireia Castillo-Martin 1 , Rita Canas-Marques 1,

Link: <https://www.sciencedirect.com/science/article/pii/S0023683724020579?via%3Dihub>

TEACHING EXPERIENCE

[2022 – Current]

Guest Lecturer - Lisbon School of Health Technology

Lecture to the CBL degree course, 2nd year, Histotechnology II CI on Digital Pathology.

Guest Lecturer - Lisbon School of Health Technology

Lecture to the Master's course in Clinical-Laboratory Technologies, on Laboratory Methods Applied to Oncological Diseases