



João Gonçalves Ferreira Sousa Matos

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(Home)

WORK EXPERIENCE

11 JAN 2008 – CURRENT Lisbon, Portugal

BIOMEDICAL SCIENTIST INSTITUTO PORTUGUÊS DE ONCOLOGIA LISBOA

- Receiving biopsies and operative specimens;
- Preparing operative specimens for macroscopic examination;
- Preparation of biopsies for automated processing;
- Preparing and assisting in the macroscopic examination of operative specimens;
- Paraffin embedding, microtomy, and haematoxylin-eosin staining of biopsies and operative specimens;
- Performing histochemical techniques on histological sections of biopsies and operative specimens;
- Conducting macroscopic and microscopic quality control;
- Archiving histological slides and paraffin blocks;
- Immunocytochemistry: both manual and automated (Dako Autostainer, Leica Bond III and Roche BenchMark ULTRA) on cytological material (smear, cytopsin, ThinPrep, and cell lines) and histological material, using different visualisation systems and antigen retrieval methods, with corresponding microscopic quality control (panel of 210 diagnostic antibodies);
- Automated in situ hybridisation (Roche BenchMark ULTRA) using chromogen (CISH) and silver (SISH);
- Semi-quantitative microscopic evaluation of SISH results;
- Digital technology for processing, analysing, and storing digital images of histological slides (Digital Pathology);
- Responsible for Digital Pathology, including the associated quality management system (2024-current)
- Tissue Micro-Array (TMA) technique (2009 to 2016)
- Co-responsible for the quality management system associated with immunocytochemistry techniques. (2024-current)

2012 – CURRENT London, United Kingdom

QUALITY ASSESSOR UKNEQAS

Assessor for HER2 hybridization *in situ* module since 2012 (4 runs per year)

Assessor for HER2 gastric cancer since 2022 (4 runs per year)

EDUCATION AND TRAINING

2003 – 2007 Lisbon, Portugal

BACHELOR'S DEGREE (PRE-BOLOGNA PROCESS) Escola Superior de Tecnologia da Saúde de Lisboa

Pathological, Cytological and Thanatological 3+1 year Bachelor's degree (pre-Bologna Process)

Website <https://www.estesl.ipl.pt/> | **Final grade** 15/20 + 16/20 | **Level in EQF** EQF level 6 | **Type of credits** Pre-Bologna Process |

Number of credits Equivalent to 240

2024 – 2024 Coimbra, Portugal

POS-GRADUATION Escola Superior de Tecnologia da Saúde de Coimbra

Digital Pathology

Website <https://www.estesc.ipc.pt/> | **Final grade** 18/20 | **Type of credits** ECTS | **Number of credits** 30

2023 online

ARTIFICIAL INTELLIGENCE COURSE CINEL

Website <https://www.cinel.pt/appv2> | **Field of study** artificial intelligence | **Final grade** 20/20 | **Type of credits** 26 hours

30 DEC 2023 Online

GENERATIVE AI COURSE Santander Open Academy - MIT

Field of study Generative AI | **Type of credits** 8 hours

28 MAR 2011 – 29 MAR 2011 Kassel, Germany

PROFESSIONAL EXPERT COURSE GASTRIC CANCER - INTERNATIONAL STANDARDISATION OF HER-2 TESTING Targos - Discovery Life Sciences Biomarker Services GmbH

Website <https://www.targos-gmbh.de/>

● **CONFERENCES AND SEMINARS**

10 NOV 2023 Online - United Kingdom

Annual iEQA participant Meeting for UK NEQAS CPT

Speaker of the presentation:

"Digital pathology: 3D and Zstacking in cytology"

20 JUL 2023 Amadora, Portugal

UPLIFT - Her2 dual ish interpretation

Speaker at the event

11 NOV 2022 Online - United Kingdom

Annual iEQA participant Meeting for UK NEQAS CPT

Speaker of the presentation:

"Interpretive Diagnostic cytopathology: Whole slide image"

5 NOV 2022 Porto, Portugal

PD-L1: Difficulties

Speaker of the presentation:

- pre-analytic impact on PD-L1 stain

2 MAY 2014 – 4 MAY 2014 Santarém, Portugal

XV Technical Anatomical Pathology Conference

Moderator for the painel: "QualY - Quality Control in immunohistochemistry"

22 JAN 2014 Lisboa, Portugal

"Basic FISH notions - Her2 e problem solving" Workshop

Workshop speaker

25 MAY 2012 Figueira da Foz, Portugal

XII Technical Anatomical Pathology Conference

Speaker of the presentation:

- Digital pathology - scanning and image analysis

16 NOV 2011 Porto, Portugal

II immunohistochemistry and hybridization for cytotechnicians

Workshop speaker

16 JUN 2011 Amadora, Portugal

Personalized healthcare in Oncology

Speaker of the presentation:

- Her2 in gastric cancer - Technical and pratical issues

19 MAY 2023 – 21 MAY 2023 Santa Maria da Feira, Portugal

XXIII Technical Anatomical Pathology Conference

Attendee at the event

19 MAY 2023 Santa Maria da Feira, Portugal

Workshop - Digital Pathology - First hand implementation

Attendee at the workshop

30 MAR 2023 Online, Portugal

Webinar APTAP - IVDR - In vitro Diagnostics Regulation

10 MAR 2023 – 12 MAR 2023 Porto, Portugal

I Biomedlab congress

Attendee at the event

online, Portugal

Webinar APTAP - digital pathology

Attendee at the event

20 MAY 2022 – 22 MAY 2022 Luso, Portugal

XXII Technical Anatomical Pathology Conference

Attendee at the event

20 MAY 2022 Luso, Portugal

Workshop - Digital transformation integrated in Pathology departments

Attendee at the workshop

25 MAY 2018 – 28 MAY 2018 Ilha Terceira, Portugal

XIX Technical Anatomical Pathology Conference

Attendee at the event

6 JUN 2017 Aalborg, Denmark

3rd NordiQC conference on applied immunohistochemistry

Attendee at the event

26 MAY 2017 Coimbra, Portugal

XVIII Technical Anatomical Pathology Conference

Attendee at the event

9 JUN 2015 – 11 JUN 2015 Aalborg, Denmark

2nd NordiQC conference on applied immunohistochemistry

Attendee at the event

8 MAY 2015 Lisbon, Portugal

XVI Technical Anatomical Pathology Conference

Attendee at the event

17 MAY 2013 – 19 MAY 2013 Covilhã, Portugal

XIV Technical Anatomical Pathology Conference

Attendee

17 MAY 2013 Covilhã, Portugal

Workshop - Digital Pathology at XIV XIV Technical Anatomical Pathology Conference

Attendee at the workshop

25 MAY 2012 – 27 MAY 2012 Figueira da Foz, Portugal
XIII Technical Anatomical Pathology Conference

Attendee at the event

MAY 2011 Espinho, Portugal
XII Technical Anatomical Pathology Conference

Attendee at the event

2 JUL 2010 – 4 JUL 2010 Dublin, Ireland
UKNEQAS ICC & ISH Conference: Tissued based diagnostics, the next decade

Attendee at the event

7 MAY 2010 – 9 MAY 2010 Portugal
XI Technical Anatomical Pathology Conference

Attendee at the event

4 NOV 2007 – 5 NOV 2007 Tomar, Portugal
VII Technical Anatomical Pathology Conference

Attendee at the event.

● PUBLICATIONS

2023
[DNA aneuploidy identifies a subset of Luminal subtype breast carcinoma patients with worse clinical outcome](#)

2022
[S-phase fraction, lymph node status and disease staging as the main prognostic factors to differentiate between young and older patients with invasive breast carcinoma](#)

2016
[Evaluation of Pax5 expression and comparison with BLA.36 and CD79αcy in feline non-Hodgkin lymphoma](#)

2014
[LDL-cholesterol signaling induces breast cancer proliferation and invasion](#)

2013
[Bone marrow-derived CD11+Jagged2+ cells promote epithelial-to-mesenchymal transition and metastasization in colorectal cancer](#)

● LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1

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

● **DIGITAL SKILLS**

General

Microsoft Office (Outlook, Excel, Word, PowerPoint) | Blockchain Technology Utilisation | Statistical analyses softwares (SPSS, R / R Studio, Amos, NVivo) | Python Language - Basic knowledge | MacOS and Windows

Laboratory/Diagnosis

Laboratory Information System (LIS) | Sectra PACS, IDS7® and UniView® (Sectra) | Clinidata Software User

Artificial Intelligence

QPath | Large Language Models (chatgpt, deepseek, claude, etc) | Visiopharm diagnostic tools