
MARIANA CLAR

Master in Experimental
Biomedical Research. University
of Fribourg. Switzerland (2018)

Biochemistry. Universidad
Nacional del Sur. Argentina
(2005)-University of Granada.
Spain (2009)

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Profile

I am Biochemist with professional experience in laboratory clinical analysis (in the areas of Clinical Chemistry, Microbiology and Immunology) and in laboratory research (with special interest in Biochemistry, Immunology, Molecular Genetics and Cancer) combined with computational skills (particularly, LIMS management and data analysis) with compliance of GLP and GCP quality standards.

Professional experience

Biosample Laboratory Associate (BLA), Hoffmann La Roche – January-December 2020. Full-time (100%).

End-to-end clinical and non-clinical trial samples management activities:

-Handling with frozen biological samples: reception, storage, shipments, disposal, collection and processing according to requirements for different samples types and conduct in-process QC methods to assess quality of samples.

-Organizing shipments from biological samples to internal and external analytical Labs.

-Samples tracking using LIMS tracking Systems and related sample data handling (EPL upload, SaLome, LabWare v5, ELN, Microsoft Excel).

-Conducts manual and/or automated sample processing workflows for various sample types:

- Manual and automated sample aliquoting for different types of samples (i.e. Serum, Plasma, Urine, Whole Blood, DNA, RNA, Aqueous humor vitreous).
- Biology Molecular techniques: DNA/RNA extraction (Automated Isolation & Purification, MagNA Pure 96 Instrument), DNA/RNA quantification (PicoGreen, RiboGreen), DNA/RNA Normalization.
- Utilization of variety of analytical platforms and instrumentation.

-Compliance of all applicable controlled documents (e.g. SOPs, working instructions and working documents) according to protocol requirements & Pharma Biosample Services best practices GLP/ GCP and awareness of the ethical considerations for the use of biological samples while adhering to local health & safety rules.

Assistant research, University of Málaga –December 2012-December 2013

One-year research project in the Platform of Genomics, Proteomics and Genotyping under the supervision of Prof. D. Enrique Viguera Mínguez, regarding the detection of mutations genes BRCA1 and BRCA2 associated with hereditary breast and ovarian cancer.

The main techniques performed were DNA extraction, RT-PCR, qPCR, primer design and High resolution melting analysis (LightCycler® 480).

Sample processed: blood and tumour tissue.

Clinical Analyst, Clinical Laboratory BIOCLON, Málaga –June 2009-December 2009

I worked in the areas and techniques associated with Clinical Biochemistry, Haematology and Microbiology: identification of human pathogens (bacteria and fungi), microbiology staining techniques, antimicrobial susceptibility testing, cell culture methods (plates and flasks), handling aseptic technique, optical microscopy.

Sample reception, sampling (blood extraction by venous puncture), conduct in-process QC methods to assess quality of samples, labelling, samples processing (manual and automated analysis test), storage sample preparation, shipment and destruction of samples.

Equipment maintenance, calibrations and general lab maintenance procedures. Internal and External quality control protocols. SOP's.

Samples processed: blood, plasm, serum, urine, faeces, sputum, nasal and pharyngeal swabs, urethral and vaginal swabs. 80-150 samples/day.

LIMS. GLP.ISO 9001, ISO/IEC 17025.

Clinical Laboratory Analyst, Hospital Regional Universitario Materno-Infantil Dr. Carlos Haya, Málaga – January 2005-September 2007

Long internship under the tutorship of Dr. Vidal Perez Valero, Chief Clinical Analysis Service Hospital R. Univ. Carlos Haya (Malaga) 01/02/2003 - 03/11/2013.

-Immunohistochemistry analysis for detection and quantitation of tumoral markers, hormones, Hepatitis C and HIV, prenatal risk markers (Prenatal screening for Down syndrome and neural tube closure defects) and allergies.

Clinical biochemistry tests by Biochemist automated.

Nephelometer assays.

Samples processed: blood, plasm, serum and urine. 800-1200 samples/day.

Equipment maintenance, calibrations and general lab maintenance procedures. Internal and External quality control protocols. SOP's.

LIMS (Servolab Laboratory Information System by Siemens).GLP. ISO 15189 and ISO/IEC 17025.

Education

2019 — Good Clinical Practice (GCP) Training for Investigators and Study Teams. Swiss Tropical and Public Health Institute (SwissTPH). 2-day-training in Basel, Switzerland. Exam and Certificate.

2016-2018 — Specialized Master in Experimental Biomedical Research: Infection, Inflammation and Cancer option. 90 ECTS. University of Fribourg, Faculty of Science and Medicine. Fribourg, Switzerland.

Master thesis was carried out under the supervision of PhD. Albert Santamaria-Martínez, Tumor Ecology Lab, and Prof. Curzio Rüegg, Chair of Pathology, Department of Oncology, Microbiology and Immunology (OMI).Topic: Targeting Breast Cancer stem cells.

Score: 5.5 /6.0

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- Cell biology: mammalian cell culture, stem cell culture (4T1, PyMT, MDA-MB-231, SUM159PT), Flow Cytometry analysis (FlowJo), Immunostaining.
 - Molecular biology and biochemistry: bacterial culture, molecular cloning (by restriction enzymes and PCR), PCR and qPCR, primer design, lentivirus production, Western blot, ELISA assays. Cell-based assays. Analysis of data (Prism, RStudio).
 - Mice work: genotyping, tumor cell injection, tumor monitoring, organ take and tissue embedding.

2013 — Recognition of a foreign University degree in Biochemistry for work purposes by the Rectors' Conference of the Swiss Universities (CRUS.CH)- Bern, Switzerland.

2009 — Biochemistry. Bachelor and Master Degree. University of Granada (Granada, Spain). Certificate of Homologation 2008/H14715.

2005 — Biochemistry. Universidad Nacional del Sur- Bahía Blanca- Buenos Aires- Argentina. 5 years duration and 1 year of Hospital's practices in the areas of clinical chemistry, clinical microbiology, clinical immunology and Haematology. Hospital Municipal de Agudos Dr. Leónidas Lucero. Bahía Blanca. Argentina. 340 ECTS. Score: 7.00/10.00.

Skills

- Spanish: native
- English: Fluent (B2)
- French: Fluent (B2)
- Computer skills: Microsoft Office (Word, Excel, Power Point), Mac OS X, RStudio, Prism 7, FlowJo, SnapGene, handling of database for scientific research (OMIM, GenBank, NCBI, Pubmed). LIMS: LabWare v.5 and SaLoME management. ELN report.

- References available upon request.