Dr Maria Dermit

Postdoctoral Research assistant

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About me

I am a post-doctoral biochemical scientist with a high publication record in peer-reviewed journals. My current research involves understanding the role of RNA localization during cancer progression. To tackle this question, I use state-of-art multi-omics methodologies to systematically reveal the relationship between RNA localisation and protein expression in mammalian cells.

Research career and qualifications

Postdoctoral Research Assistant — *Barts Cancer institute (BCI), London*

Postdoctoral contract supported by an MRC grant valued £1,2M: __The role of RNA Binding Proteins (RBPs) in breast cancer progression and metastasis__ — *April 2017 - Present*

PhD Biochemistry — *Queen Mary Universty of London*

PhD at Dr Pedro Cutillas laboratory: Understanding the biochemical alterations in cancer cells chronically treated with PI3K/mTOR inhibitors — *2013-2017*

MSc Biochemistry — *University of Navarra Spain*

Erasmus exchange with University of Genève during 12 months — *2008-2011*

BSc Biochemistry and Biology — *University of Navarra Spain*

GPA:3.58 — *2008-2011*

Diploma Bioinformatics — *University of Navarra Spain*

2010

Conferences

- **2020 RNA 2020, Virtual:** Poster presentation.
- **2020 RNA UK, Windermere UK:** Poster presentation.
- **2019 RNA Localization and Local Translation Conference, Snowmass US:** Poster presentation.
- **2017 Proteomics methods forum, Oxford UK:** Selected for oral presentation.
- **2017 LBMSDG summer meeting, London UK:** Selected for oral presentation.
- **2016 British Society for Proteome Research, Glasgow UK:** Selected for oral presentation.
- **2015 British Society for Proteome Research, Reading. UK:** Selected for oral presentation.

Laboratory and bioinformatics skills

- **Mass spectrometry-based proteomics:** sample preparation for bottom-up analysis, TiO2-based phospho-peptide enrichment. Analysis of label-based, label-free quantitative proteomics data.
- **Transcriptomics:** RNA library preparation for NGS. Analysis of 3'QuantSeq and whole transcriptome data.
- **Fluorescent and confocal microscopy:** RNA FISH approaches and protein visualization.
- **Cellular biology and functional assays:** mammalian cancer cell cultures, apoptosis and cell-cycle assays, drug screening assay, siRNA treatment, Seahorse-based metabolism assay.
- **Molecular biology and biochemistry:** qPCR, immunoblotting, enzymatic assays.
- **Programming languages:** R & Unix
- **Computer software:** MaxQuant, Perseus, ImageJ, GraphPad Prism.

Awards

- FASEB Early Career Award.
- Barts and the London School of Medicine and Dentistry Travel Grant.
- Spanish Fundación Patronato de Huérfanos y Protección Social de Médicos award.
- Erasmus grant provided by the European Commission.

- Global internship program award from University of Navarra.

Internships:

- Ximbassador technology transfer program (January 2020-present).
- Internship at Translational Biomarker group (2011), Prof Jean-Charles Sanchez.
- Internship at Molecular Modelling group (2011), Prof Olivier Michelin.
- Summer Placement at Tumoral microenvironment group (2009), Dr Ana Rouzaut.
- Summer Placement at Center for Molecular Recognition group (2010), Prof Matthias Quick.

Student supervision:

- MSc project (April-July 2016), Mr Benjamin Adley Omoregi.
- BSc project (June-Sept. 2016), Miss Sandhya Sridhar.
- MSc project (April-July 2015), Mr Nilesh Bursara.

Peer review:

- Manuscript reviewer for Molecular Omics and ACS Omega.

Additional activities:

- EACR Ambassador
- Member of British Society of Cell Biology (BSCB).
- Member of British Association for Cancer Research (BACR).
- Member of the RNA Society.
- Member of Biochemical Society.

Publications

- Yu J [et al, including **Dermit M**] 2020. RBMS1 Suppresses Colon Cancer Metastasis Through Targeted Stabilization of Its mRNA Regulon. Cancer Discovery.
- **Dermit M**, et al. 2019 Subcellular mRNA localization regulates ribosome biogenesis in migrating cells. bioRxiv.
- Hau HÁ [et al, including **Dermit M**] 2019. Maternal Larp6 controls oocyte development, chorion formation and elevation. Development.
- **Dermit M**, et al, 2017. Oxidative stress downstream of mTORC1 but not AKT causes a proliferative defect in cancer cells resistant to PI3K inhibition. Oncogene.
- **Dermit M**, et al, 2017. Approaches to identify kinase dependencies in cancer signalling networks. FEBS Lett.
- **Dermit M**, et al, 2017. Methods for monitoring and measurement of protein translation in time and space. Mol Biosyst.