Faraz Mardakheh

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Research Interests

I am interested in understanding how protein synthesis is dysregulated during cancer progression.

Using cutting-edge quantitative proteomics and RNA-seq based methodologies, my research group studies:

- The role of localised protein translation in controlling cancer cell migration, invasion, and metastasis.
- The role of RNA localisation in post-transcriptional regulation of gene expression.
- How oncogenes trigger malignancy by deregulating gene expression at the level of protein translation.

Major Funders

- Medical Research Council

Contact Details

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Recent Publications

- **Mardakheh FK***, Sailem HZ, Kümper S, Tape CJ, McCully RR, Paul A, Anjomani-Virmouni S, Jørgensen C, Poulogiannis G, Marshall CJ, Bakal C. Proteomics profiling of interactome dynamics by colocalisation analysis (COLA). Mol Biosyst. 2016 Nov 8. [Epub ahead of print]
- **Mardakheh FK***, Self A, Marshall CJ. RHO binding to FAM65A regulates Golgi reorientation during cell migration. J Cell Sci. 2016 Nov 2. pii: jcs.198614. [Epub ahead of print]
- Natrajan R, Sailem H, **Mardakheh FK**, Arias Garcia M, Tape CJ, Dowsett M, Bakal C, Yuan Y. Microenvironmental Heterogeneity Parallels Breast Cancer Progression: A Histology-Genomic Integration Analysis. PLoS Med. 2016 Feb 16;13(2):e1001961.
- Kümper S, **Mardakheh FK**, McCarthy A, Yeo M, Stamp GW, Paul A, Worboys J, Sadok A, Jørgensen C, Guichard S, Marshall CJ. Rho-associated kinase (ROCK) function is essential for cell cycle progression, senescence and tumorigenesis. Elife. 2016 Jan 14;5:e12994.
- **Mardakheh FK***, Paul A, Kümper S, Sadok A, Paterson H, Mccarthy A, Yuan Y, Marshall CJ. Global Analysis of mRNA, Translation, and Protein Localization: Local Translation Is a Key Regulator of Cell Protrusions. Dev Cell. 2015 Nov 9;35(3):344-57.
- Sadok A, McCarthy A, Caldwell J, Collins I, Garrett MD, Yeo M, Hooper S, Sahai E, Kuemper S, **Mardakheh FK**, Marshall CJ. Rho kinase inhibitors block melanoma cell migration and inhibit metastasis. Cancer Res. 2015 Jun 1;75(11):2272-84.

*: corresponding