

# University of Malta

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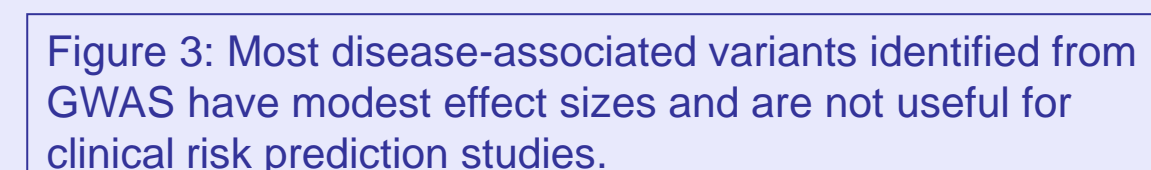
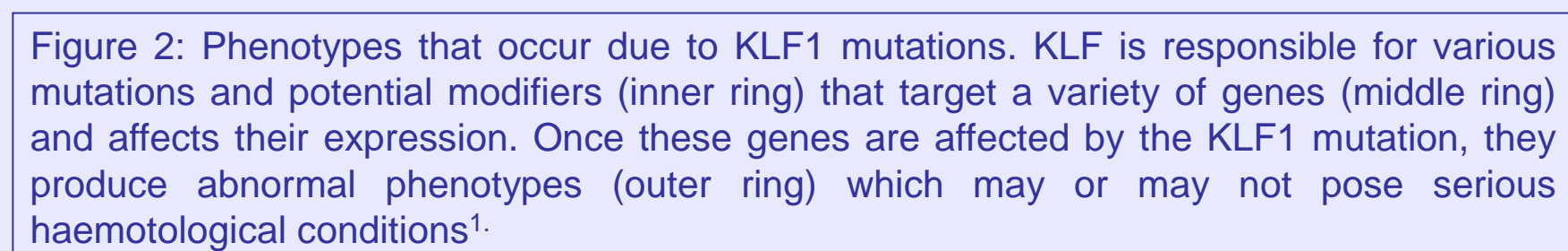


The Department of Physiology & Biochemistry and the Department of Pathology within the Faculty of Medicine & Surgery at the University of Malta carries out various lines of research amongst which are KLF mutation analysis, familial breast cancer, mitochondrial disorders, sudden cardiac death and rare kidney disorders.



Figure 1: -80C freezers and cryoboxes in the Malta BioBank

The Kruppel Like Factor 1 (KLF1) gene was sequenced and the common SNP (-158C→T) of the HBG2 promoter was detected by PCR-RFLP with Xmn I restriction enzyme. Genotyping of individual SNPs in the HBS1L-MYB and BCL11A loci (Figure 2) was performed using a TaqMan genotyping assay.



- <sup>1</sup> Borg J, Patrinos GP, Felice AE, Philipsen S. Erythroid phenotypes associated with KLF1 mutations. *Haematol.* 2011;96(5):635-38.
- <sup>2</sup> Koziell A, Grech V, Hussain S, Lee G, Lenkner U, Tryggvason K *et al.* Genotype/phenotype correlations of NPHS1 and NPHS2 mutations in nephrotic syndrome advocate a functional inter-relationship in glomerular filtration. *Hum Mol Genet.* 2002;11:379-88.
- <sup>3</sup> Renkema KY, Winyard PJ, Skovorodkin IN, Levchenko E, Hindryckx A, Jeanpierre C *et al.* Novel perspectives for investigating congenital anomalies of the kidney and urinary tract (CAKUT). *Nephrol Dial Transplant.* 2011;26:3843-51.
- <sup>4</sup> McCarthy MI, Abecasis GR, Cardon LR *et al.* Genome-wide association studies for complex traits: consensus, uncertainty, and challenges. *Nat Rev Genet.* 2008;9:356-69.



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