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Honorary Senior Fellow, University of Melbourne, Carlton, Victoria, Australia.

21 July 2016

Dr [redacted]
Neurologist

Dear [redacted]

I am a member of a research team at the Bio21 Institute at the University of Melbourne. Our team has been using metabolomics and genomic data to assess patients with chronic pain and fatigue disorders. [redacted] came to see me and we examined her pathology and gene data and found that she carriers a single nucleotide polymorphism in the NF-Kappa-β inhibitory protein α and also has intermittent low serum urea levels. The protein is a regulatory component involved in regulation of NF-Kappa-β signalling. We also have at least 15 other individuals with this same SNP mutation and they all have a similar failure to upregulate inflammatory proteins such as arginase 2 in the kidney (I have attached a paper we have recently had accepted for publication). During an inflammatory response they fail to upregulate the arginase and appear to loose amino acid and other metabolites due to a failure to reabsorb them in the kidney. The research is a work in progress and we are unable to give you a final publication to show the data.

I hope this is helpful in your assessment of [redacted].

If you have any questions or if I can be of further assistance please do not hesitate to contact me.

Kind regards,

Neil McGregor
BDS, MDSc, PhD.