## **COMPLETE METHODS**

## **DNA** extraction

DNA was extracted from FFPE samples using the QIAamp® DNA FFPE Tissue Kit (Qiagen, Valencia, CA). The DNA concentration of each sample was determined using the Nanodrop™ 8000 (Thermo Scientific, Wilmington, DE).

## Genotyping

In order to use the least amount of DNA for genotyping we designed a nested multiplex PCR assay to amplify the two regions of the APOL1 that contain the rs73885319 SNP and the 6 bp indel (rs71785313). The primer sequences for rs73885319 were: 5' TGA ACC CAG CAT CCT GGA AA 3' and 5' TTG CCC CCT CAT GTA AGT GC 3'. The primer sequences for rs71785313 are: 5' GCT GAG GAG CTG AAG AAG GT 3' and 5' GGC ATA TCT CTC CTG GTG GC 3'. Amplification was performed with a mix of each primer at 0.5 uM, 2X Phusion® High Fidelity Polymerase (New England Biolabs Inc., Ipswich, MA) and 1-10 ng DNA in a 5 ul reaction mix. The PCR was performed on a 384 well Veriti<sup>TM</sup> Thermal Cycler (Life Technologies, Carlsbad, CA) using the program 98°C 30 sec, 35 cycles of 98°C 10 sec, 68°C 30 sec, 72°C 10 sec, 72°C 5 min and 4°C hold. Samples were diluted 1:60,000 in water prior to genotyping. Genotyping was performed on the ViiA<sup>TM</sup> 7 Real-Time PCR System in 5 ul reaction in 384 well plates using the 2X genotyping master mix (Life Technologies) and 20X genotyping primer/probes designed by Kopp, et al and synthesized by Life Technologies. On each plate; 10 each of 1/1, 1/2 and 2/2 positive allele samples and 10 no template controls (NTC) were genotyped with the samples. Each run was checked for accuracy of calls in the controls and samples.

## **Statistical Methods**

Genotyping data was analyzed in the ViiA7 sequence detection software v2.0. Amplification plots were assessed for correct genotyping calls. There was > 95% genotype call rate. Clinical and genotype data for all SNPs were entered into a database in SPSS (Statistical Package for Social Sciences) Software Version 20.0 for Windows (Gorinchem, The Netherlands) and analyzed for genetic association. The allele G of rs73885319 and deletions (D) of rs71785313 were considered detrimental and their combination represented 2 risk alleles (G2), whereas the presence of a single risk allele was coded as 1 (either G or D; G1) and their absence was coded as 0 (G0). Case-control genotype associations were assessed by  $\chi^2$  analyses. Association with sub-phenotypes, such as ISN/RPS class, was explored similarly. ANOVA was used for comparing means of continuous variables such as age, chronicity and activity indices. We considered nominal p values <0.05 as significant for all tests.