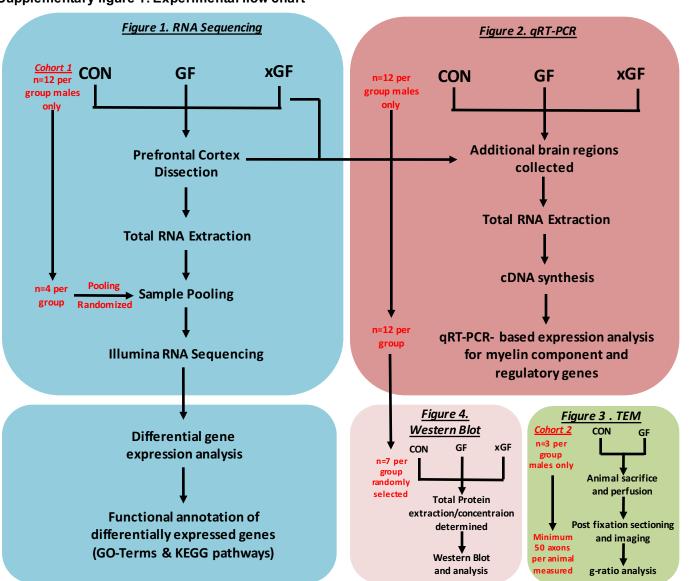


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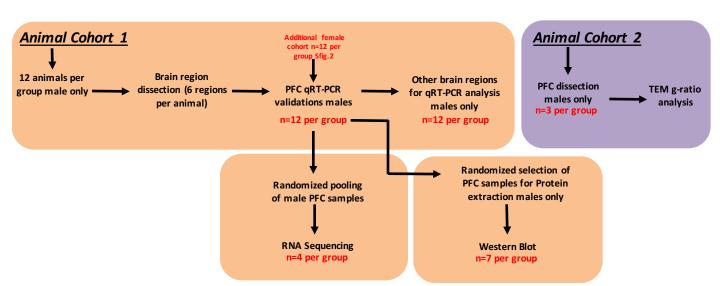


Figure S1: Experimental flowchart. Graphical depiction of the animal number and usage for each individual experiment. Each Panel represents the outcome of tissue used for each of the individual main figure.

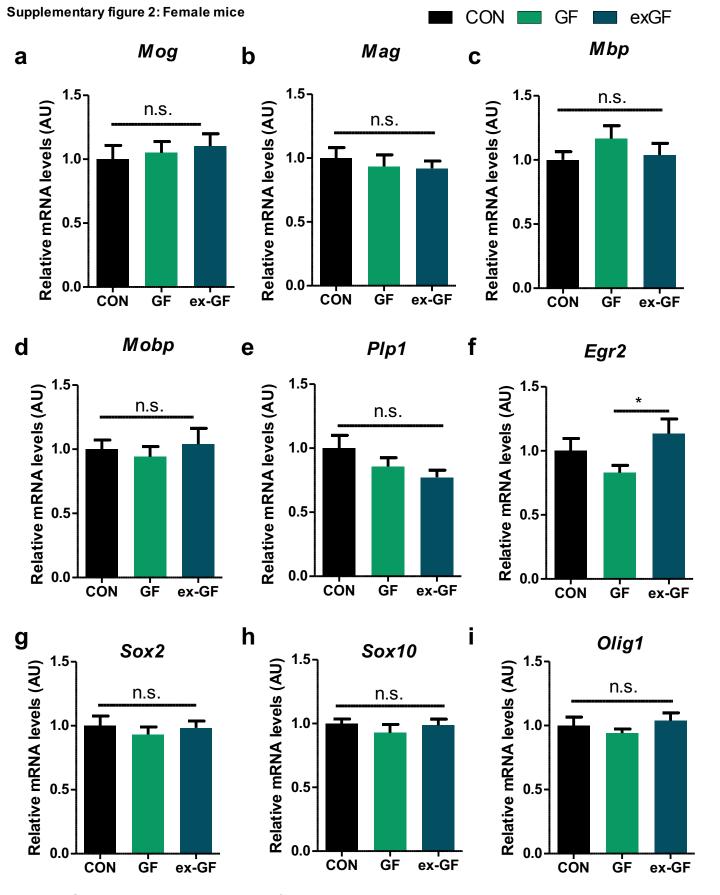


Figure S2: mRNA expression levels of myelin component and upstream myelin regulatory genes in the PFC of <u>female</u> CON, GF and exGF mice. No male-equivalent changes in myelin component mRNA levels were found in the PFC of female GF and exGF mice. (a-i) qRT-PCR of myelin component gene transcript and myelin regulating transcription factors in the PFC. Bar graphs indicate average values of 12 animals after β -actin normalization relative to average control levels (p<0.05 *). Data graphed as +/- SEM.

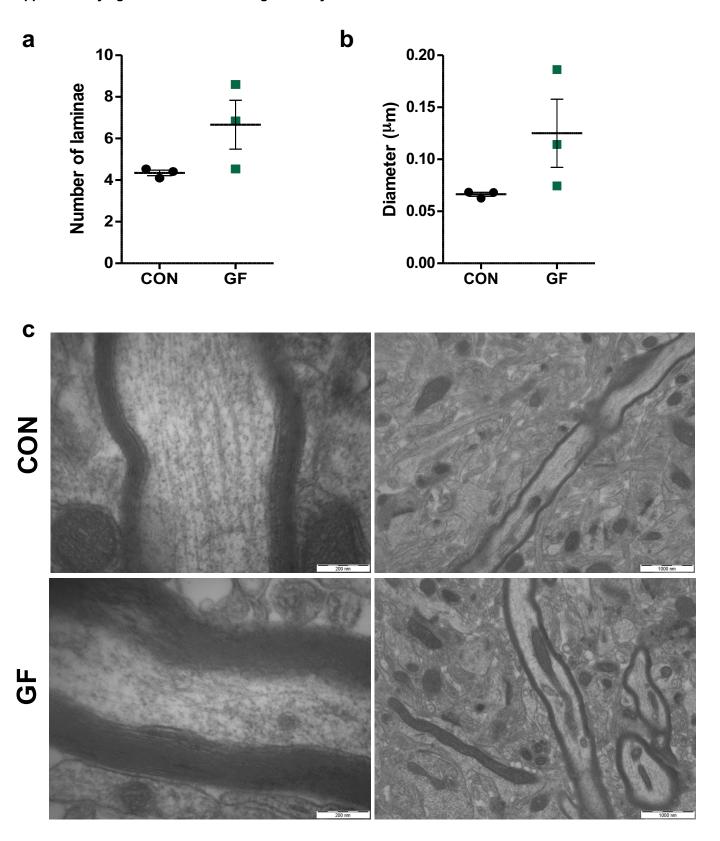


Figure S3: Increased g-ratio coincides with stronger trend to higher lamina number and myelin diameter. (a) Average lamina number per animal in the PFC of GF and CON mice. (b) Average myelinated diameter per animal (c) Electron micrograph of longitudinally sliced axons in the PFC of CON and GF mice. Scale bar 200nm and 1µm. Bar graph data is shown as mean +/- SEM. n.s. indicated p>0.05; n=3 animals per group; n=>50 axons per animal (CON n=187 axons; GF n=390 axons).