Cross-sectional analysis – FA				
	corticospinal tract	corticopontine tract / corticorubral tract	cortico-striatal pathway	perforant path (prox. portion)
controls				
μ	0.379	0.380	0.307	0.191
σ	0.030	0.019	0.031	0.023
threshold	0.365	0.370	0.292	0.180
ALS				
μ	0.350	0.352	0.287	0.184
σ	0.033	0.031	0.038	0.019
p (ALS vs. controls)	$2*10^{-18}$	$2*10^{-28}$	$1*10^{-9}$	$7*10^{-4}$
sensitivity	72 %	72 %	55 %	54 %
specificity	67 %	68 %	65 %	63 %
Longitudinal analysis – ΔFA				
controls				
μ	$2*10^{-6}$	$-2*10^{-6}$	$-2*10^{-6}$	$-4*10^{-6}$
σ	$4*10^{-5}$	$3*10^{-5}$	$3*10^{-5}$	$5*10^{-5}$
ALS				
μ	$-3*10^{-5}$	$-4*10^{-5}$	$-3*10^{-5}$	$-7*10^{-6}$
σ	$5*10^{-5}$	$6*10^{-5}$	$7*10^{-5}$	$4*10^{-5}$
p (ALS vs. controls)	$3*10^{-4}$	$-9*10^{-4}$	$-3*10^{-3}$	0.9

Supplementary Table 3: Cross-sectional and longitudinal comparison by TFAS analysis of data from ALS patients and controls. Mean values, standard deviations and p-values. Longitudinal data are given as ΔFA per day. FA-threshold calculation of data from controls**.**