Supplementary material
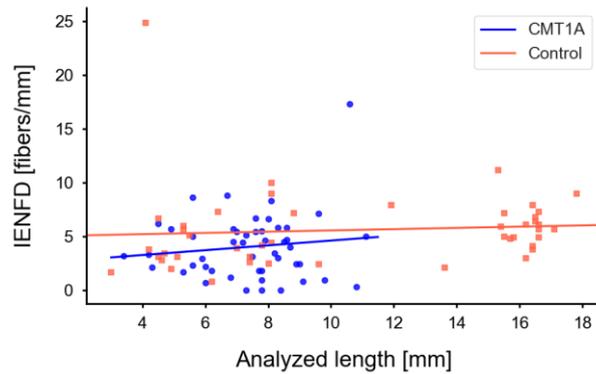
Supplementary Figure 1: Correlations between the intraepidermal nerve fiber densities and the analyzed epidermis length of CMT1A (blue; R=0.13, P=0.39) and healthy controls (red; R=0.08, P=0.60).
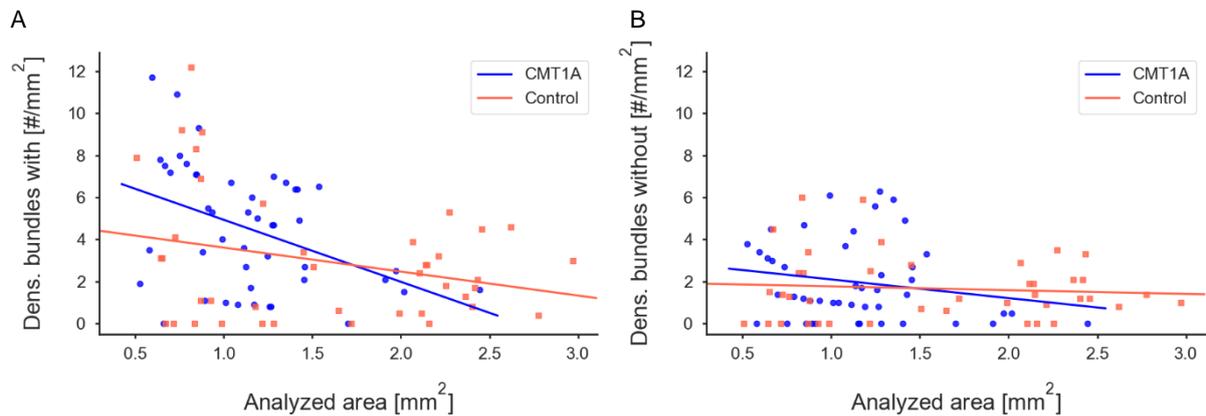
Supplementary Figure 2: Correlation analyses between analyzed tissue and the obtained nerve bundle densities in CMT1A (blue) and healthy controls (red). (A) Bundles with myelinated fibers vs. dermis area (Control: R=-0.276, P=0.08, CMT1A: R=-0.414, P=0.004). (B) Bundles without myelinated fibers vs. dermis area (Control: R=-0.085, P=0.60, CMT1A: R=-0.191, P=0.20).
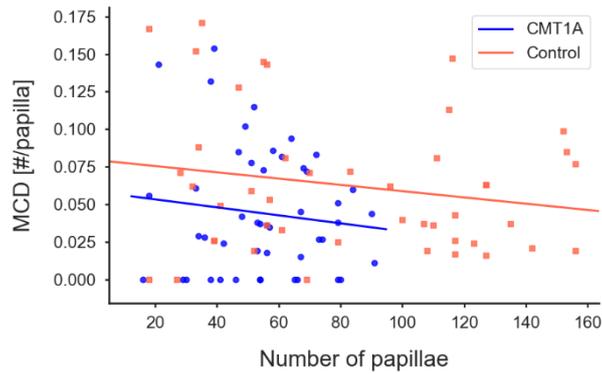
Supplementary Figure 3: Correlations between the Meissner corpuscle densities and the analyzed numbers of papillae in CMT1A (blue; R=-0.117, P=0.43) and healthy controls (red; R=-0.190, P=0.211).
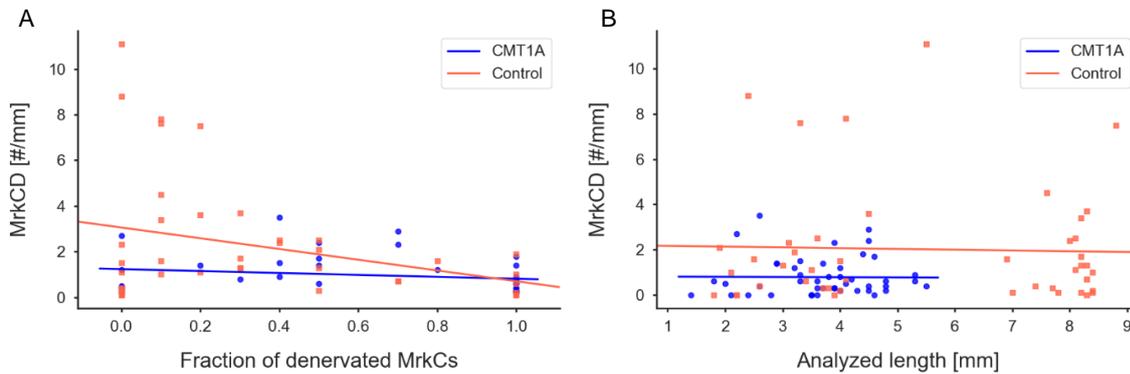
Supplementary Figure 4: Correlations between the Merkel cell densities and other parameters in CMT1A (blue) and healthy controls (red). (A) Merkel cell density vs. density of denervated Merkel cells (Control: R=-0.313, P=0.049; CMT1A: P=0.210, R=-0.205). (B) Merkel cell density vs. analyzed epidermis length (Control: R=-0.0089, P=0.83; CMT1A: R=-0.010, P=0.94).
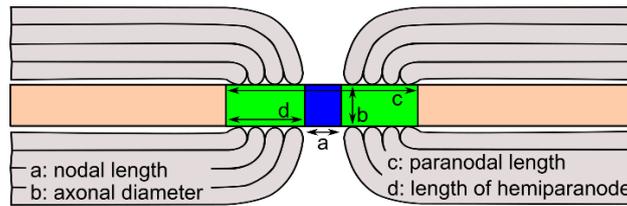
Supplementary Figure 5: Schematic of the node of Ranvier. Structures measured for the evaluation of the nodal parameters: node (blue), hemiparanodes (green). For measurements, samples were double-labeled with anti-Caspr and anti-pan-sodium channel as described in the methods.
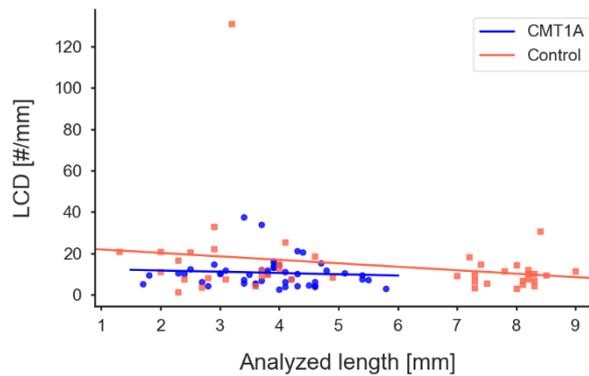
Supplementary Figure 6: Correlation between Langerhans cell density and analyzed epidermis length in CMT1A (blue, R=-0.084, P=0.58) and healthy controls (red, R=-0.217, P=0.157).