**Table S1. Summary table of nerve biopsy findings in peripheral neuropathies associated with hematological conditions.**

| Condition | Histological findings on semithin section | Histological findings on paraffin section | Ultrastructural findings | Immunohistochemistry | Other findings |
|-----------|------------------------------------------|------------------------------------------|--------------------------|----------------------|-----------------|
| Anti-MAG  | De-remyelination; Intramyelin oedema      | -                                        | Uncompaction myelin lamellae | Deposition of IgM and C3d fragment on myelin sheaths | TF: pale focal swellings |
| Cryoglobulinemia | Asymmetrical axonal neuropathy; petechiae | Epi-endoneurial pericapillaries inflammatory infiltrates; extravasation of red blood cells (petechiae) | Perivascular cryoglobulin deposits | Deposition of IgM or IgG or IgA according to cryoglobulinemia type |
| Neurolymphomatosis | Axonal neuropathy, diffuse or focal; lympho-monocytes infiltrates | From rare to massive lymphocytic infiltrations, with abnormal monomorphic histopathological features | Detection of nuclear atypia | Immunophenotype characterization of neoplastic cells; detection of interspersed reactive T cells | Demonstration of monoclonality by PCR-based clonality analysis |
| AL- Amyloidosis | Axonal neuropathy; peri-capillary amorphous deposits | Congo Red staining: green apple birefringence at polarized light | Detection of nonbranching fibril with a diameter of 7.5-10 nm | Deposits of lambda or kappa chains |
| POEMS | Axonal neuropathy with some de-remyelinated fibers; endoneurial oedema | | Thickened basal lamina of hypertrophic and hyperplastic endothelial cells with narrowing of endoneurial vessels lumen |
| CIPN | Neuronopathy or Axonal neuropathy | | In some neuropathies, disarranged axonal cytoskeleton organization |

TF: Teased fibers.