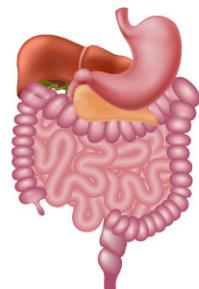


# Genetic and phenotypic characterization of indolent T-cell lymphoproliferative disorders of the GI tract



10 indolent T-cell lymphoproliferative disorders of the gastrointestinal tract



CD4+ (n=4)



CD8+ (n=4)



CD4+/CD8+ (n=1)



CD4-/CD8- (n=1)



Targeted next-generation sequencing



Comprehensive immunophenotypic analysis

80% had genetic alterations (recurrent mutations and novel rearrangements)

Immunophenotypic features



CD4+ (n=4)



CD4+/CD8+ (n=1)



CD4-/CD8- (n=1)

82% Alterations of the JAK-STAT pathway genes

50% STAT3 mutations

17% SOCS1 deletion

17% STAT3-JAK2 rearrangement

67% Concomitant mutations in epigenetic modifier genes (TET2, DNMT3A, KMT2D)



CD8+ (n=4)

50% Structural alterations involving the 3' untranslated region of the IL2 gene



CD4+ (n=4)



CD4+/CD8+ (n=1)

Heterogeneous Th1 (T-bet+), Th2 (GATA3+) or hybrid Th1/Th2 (T-bet+/GATA3+) profiles



Majority of CD8+ (n=4)



CD4-/CD8- (n=1)

Type-2 polarized (GATA3+) effector T-cell (Tc2) phenotype



CD8+ (n=4)

50% CD103 expression