### Materials and Methods

- **CDR**: Current Digitization round
- **PBMC**: Peripheral blood mononuclear cells
- **nPOD**: Next-Generation Randomized Olfactory Profiling
d- **TCR**: T-cell receptor
- **V**: Variable region
- **D**: Diversity region
- **J**: Joining region

### Results

**Top Variable-region β-chain Clones in nPOD Samples**

- **Top 20 TCR V Genes in T1D-C peptide**: 60.78 (log2)
- **Top 20 TCR V Genes in T1D-C peptide**: 20.78 (log2)
- **Top 20 BCR V Genes in T1D-C peptide**: 60.78 (log2)
- **Top 20 BCR V Genes in T1D-C peptide**: 20.78 (log2)

**Repertoire Overlap in T cells**

- **pancLN**: Pancreatic lymph node
- **CD4+ T cells**: CD4-positive T cells
- **PMBC**: Peripheral mononuclear cells

**Figure 4. TCR V genes Analysis Heat Map of FACS**

- **AAR**: Autoimmune response
- **DQA1**: DQ alpha 1
- **DQB1**: DQ beta 1
- **DRB1**: DR beta 1

**Figure 5. (a-f). Enrichment of TCR Variable-region β-chains (V-beta) TCRBV05-01 in the pancreato-draining lymph node (pancLN)**

- **T1D**: Type 1 diabetes
- **T2D**: Type 2 diabetes
- **AAB**: Autoimmune disease

### Demographics

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<th>ETHNICITY</th>
<th>BMI</th>
<th>C-peptide (ng/mL)</th>
<th>Disease (y)</th>
<th>AAB</th>
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<th>HLA-B</th>
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### Conclusions & Future Directions

- **Adaptive’s**
- **nPOD**: Next-Generation Randomized Olfactory Profiling
- **TCR**: T-cell receptor
- **β**: Beta chain

**Figure 6. TCR Enrichment in Case 6265**

- **AAB**: Autoimmune disease
- **nPOD**: Next-Generation Randomized Olfactory Profiling
- **TCRV**: T-cell receptor
- **β**: Beta chain

**Analysis of AIDP tissues provides the unique ability to make comparisons of TCR and BCR usage in cross-sectional patient cohorts from various tissue sources relevant to the disease pathogenesis.**

**Acknowledgements**

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