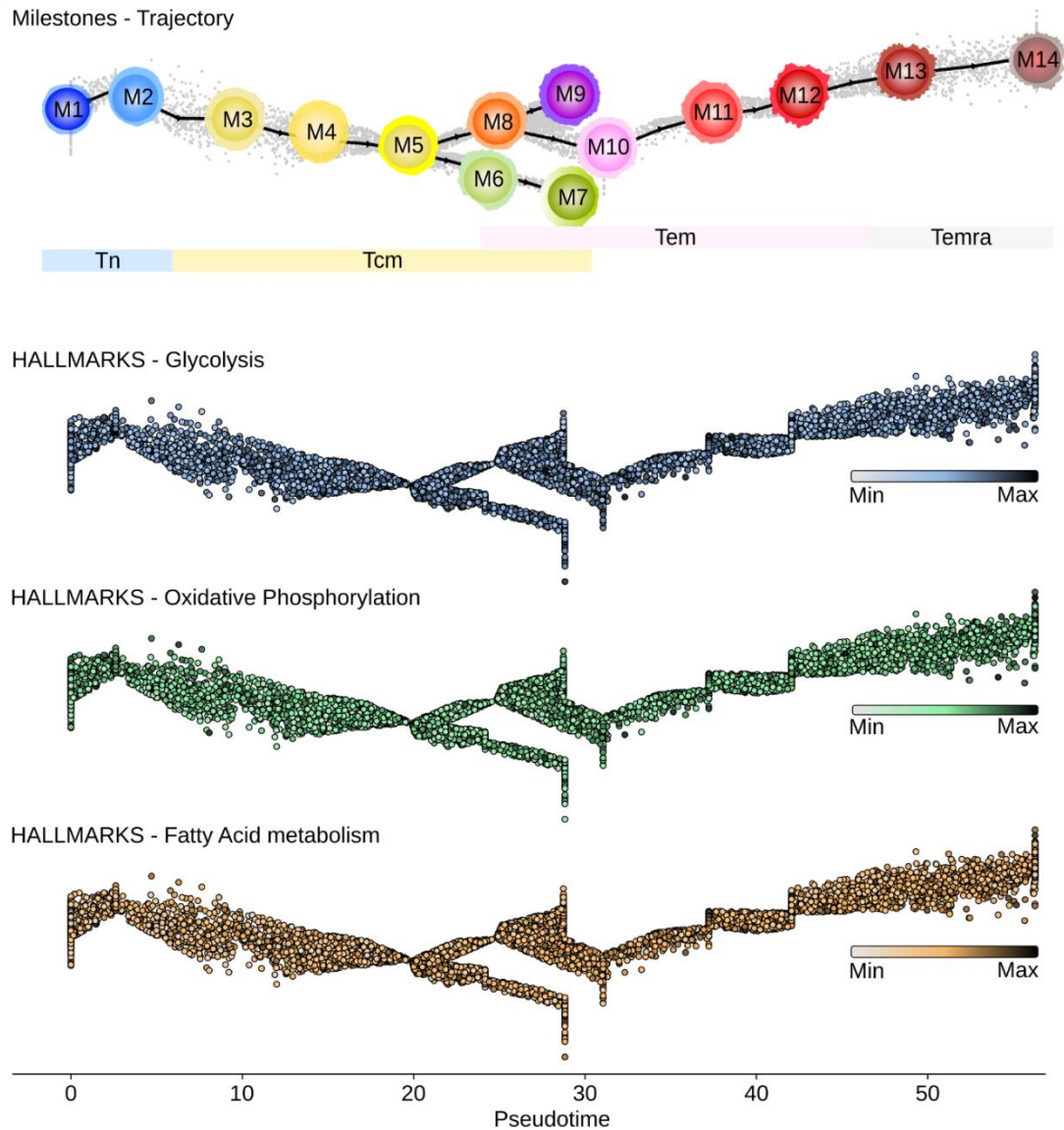


**Figure S1.** Single-Cell\_Injector a) Procedure for injection of *ab extra* single cells on an already available reference trajectory. b) QC test of the procedure: distribution of single cells  $\Delta$  (injected position, initial position) for a test sample of ~7500 cells



**Figure S2.** Consistent expression levels of energetic metabolisms along differentiation of control  $\gamma\delta$  T cells. top:  $\gamma\delta$  T cell differentiation trajectory (top) with milestones and pseudotime at the same scale in all panels. Differentiation pseudotime scale: 0-5: Tn, 5-20: Tcm, 20-48: Tem; 48-55: Temra. Expression levels of the specified energetic pathways (gene signatures from MSigDB-Hallmarks) in reference  $\gamma\delta$  T lymphocytes from healthy donors