Mini-Oral Abstract Presentations 3

#21 Transcriptional Analysis of Lymph Node Derived Follicular CD4 T Cells Reveal Novel Phenotypic Markers and Functions of T Follicular Regulatory (TFR) Cells

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DPP4 and FCRL3 define distinct T follicular regulatory cells in human lymph node tissues

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Basic molecules expressed by Tfr and GC Tfh cells







Study aim: To identify novel biomarkers that distinguish **Tfr from GC Tfh cells using RNA-Seq**



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Tfr cells display a distinct transcriptional program from GC Tfh cells







virology education

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DPP4 and FCRL3 markers discriminate Tfr from GC Tfh cells



INTEREST 2020



DPP4 and FCRL3 expression on Tfr cells is significantly higher

than on Treg and CD8 T cells









Conclusion

- We identify novel surface biomarkers for the consistent identification and isolation of Tfr cells in human LN tissues.
- ii. Our study provides new insights into the

biology of Tfr cells with implications for HIV

vaccine design and cure strategies.







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