

A: Datasheet

Algorithm: shaman\_1

Developer: Shaman Software

Submission Date: 2018\_02\_12

Template size: 4096 bytes

Template time (2.5 percentile): 563 msec

Template time (median): 565 msec

Template time (97.5 percentile): 589 msec

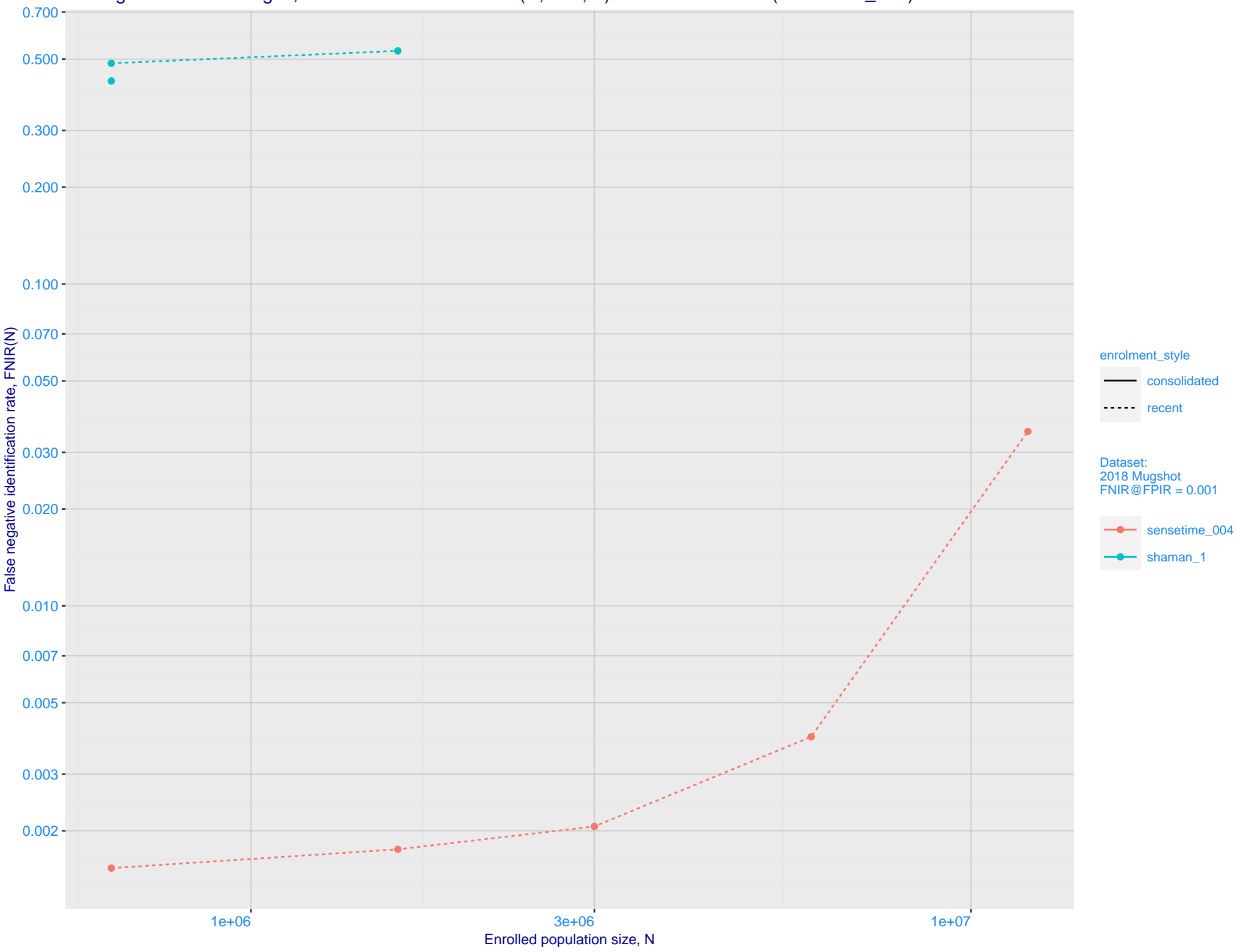
Investigation:

Frontal mugshot ranking 225 (out of 259) — FNIR(1600000, 0, 1) = 0.1696 vs. lowest 0.0009 from sensetime\_005

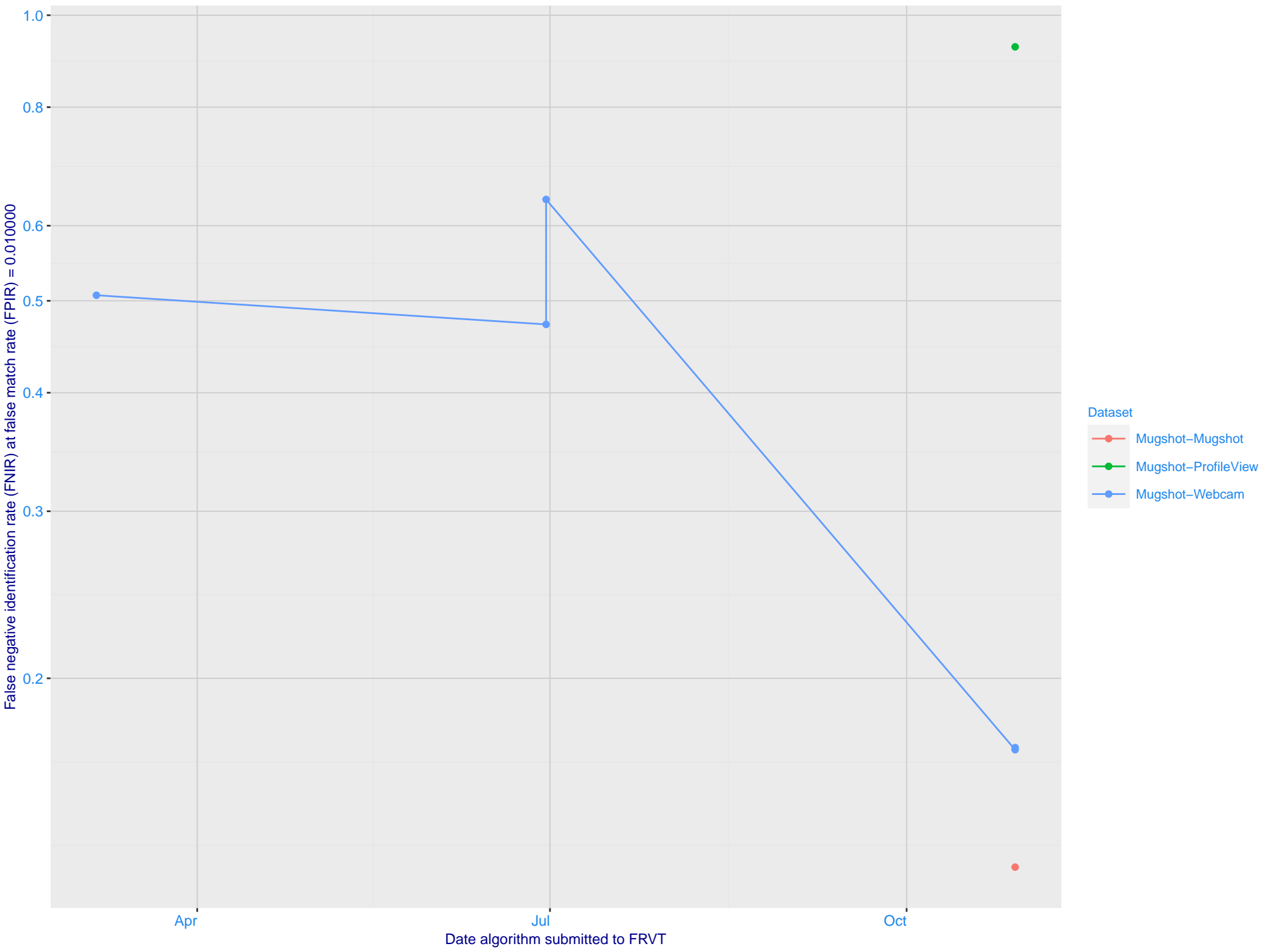
Identification:

Frontal mugshot ranking 216 (out of 259) — FNIR(1600000, T, L+1) = 0.5304, FPIR=0.001000 vs. lowest 0.0018 from sensetime\_004

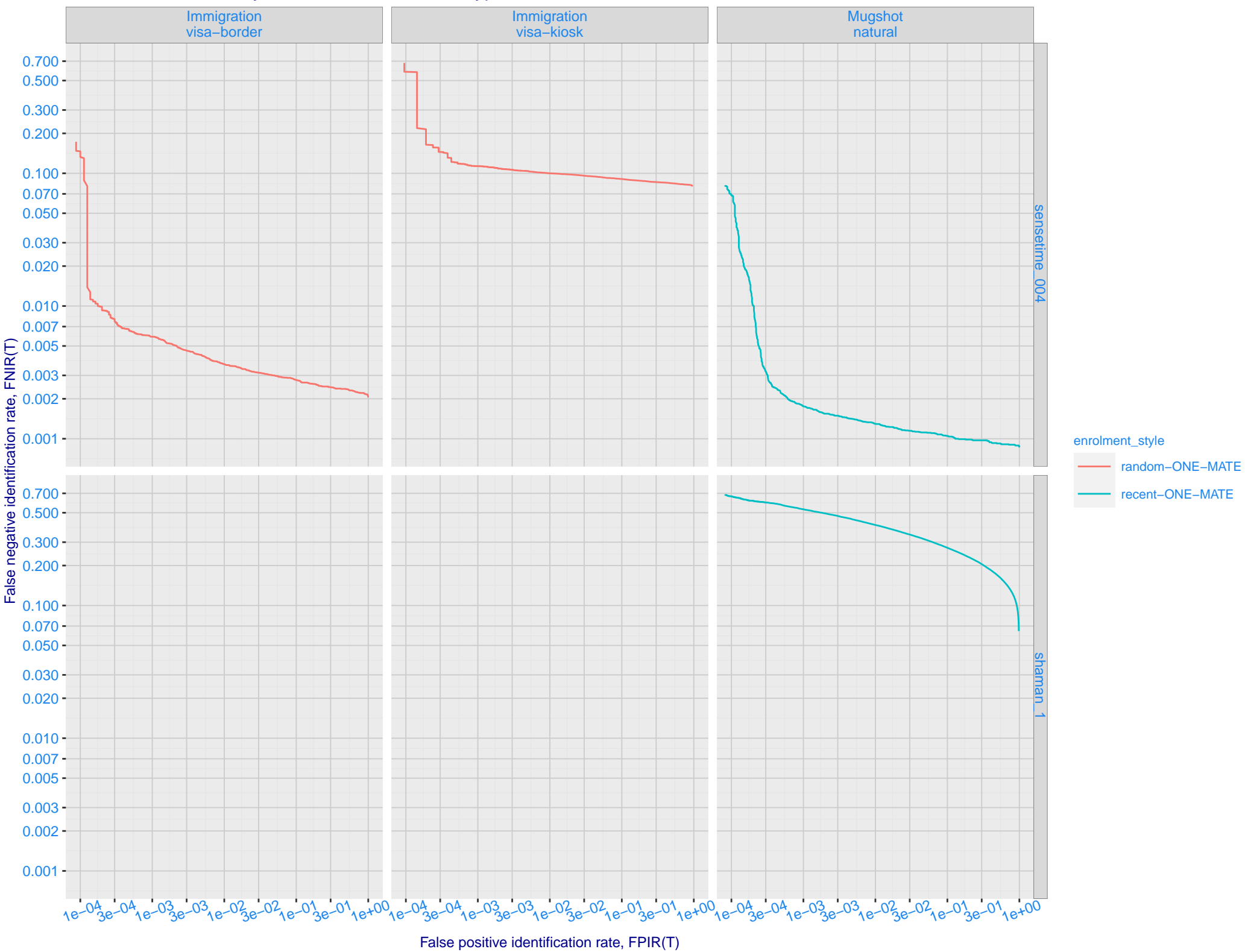
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime\_004)



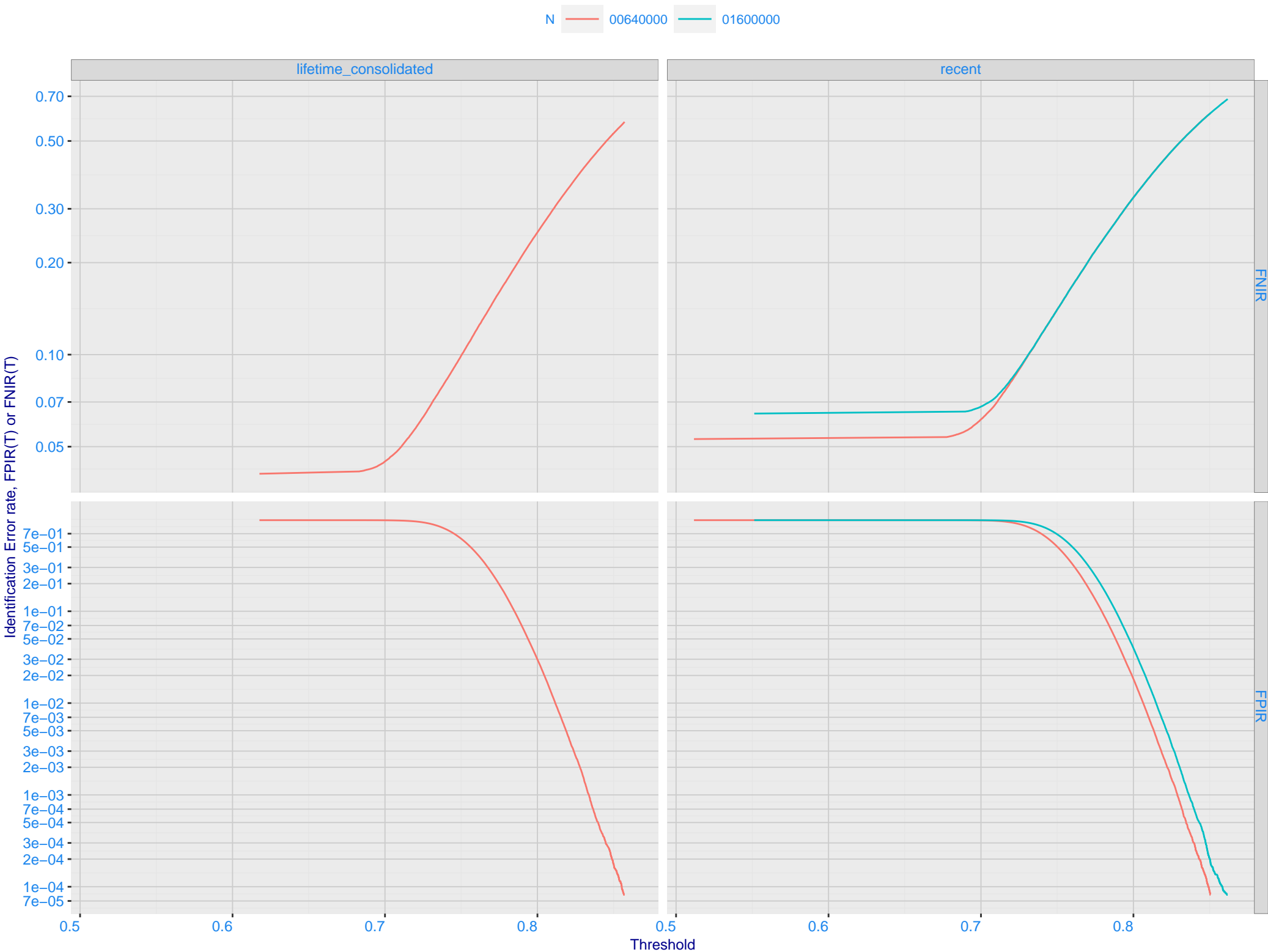
C: Evolution of accuracy for SHAMAN algorithms on three datasets 2018 – present



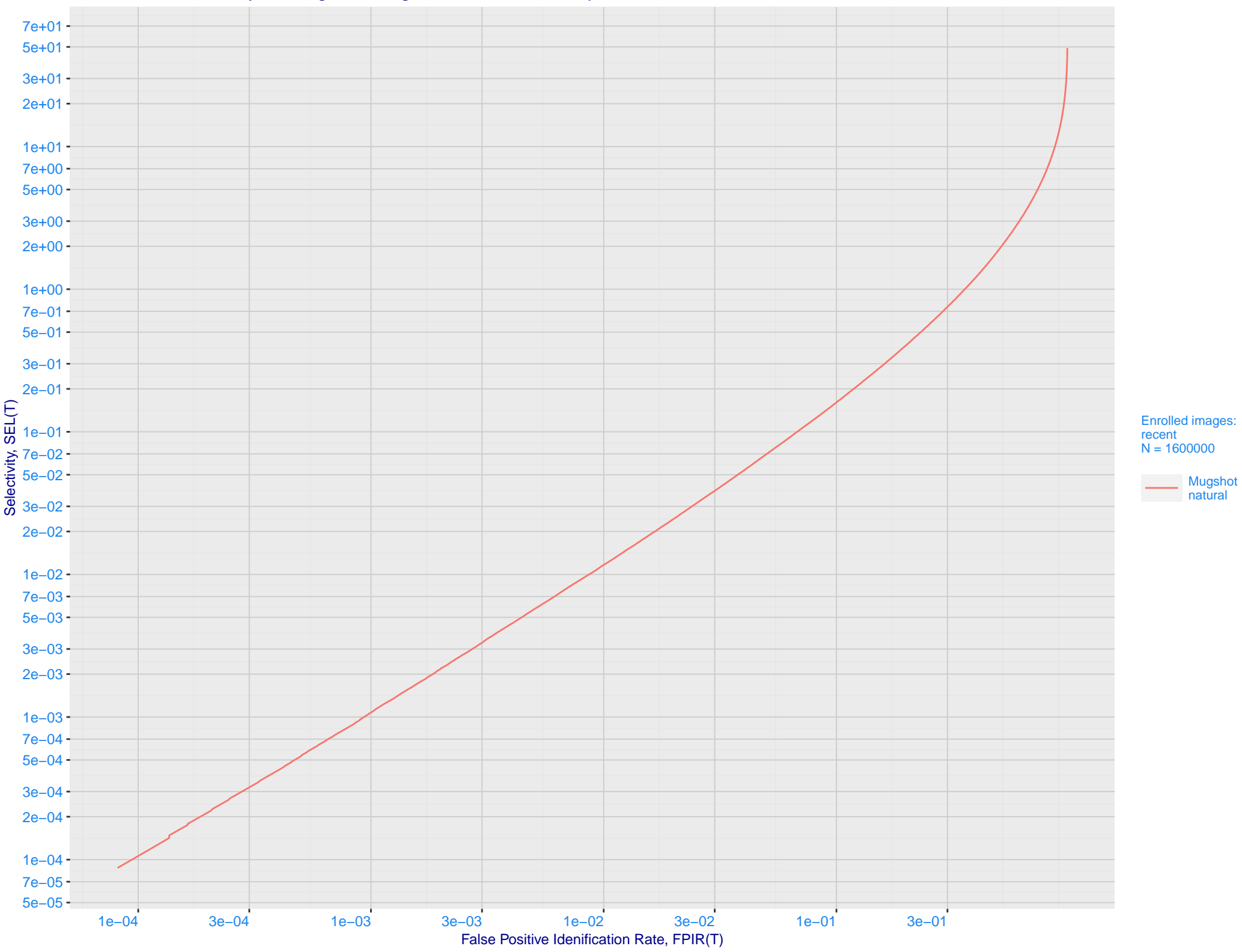
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



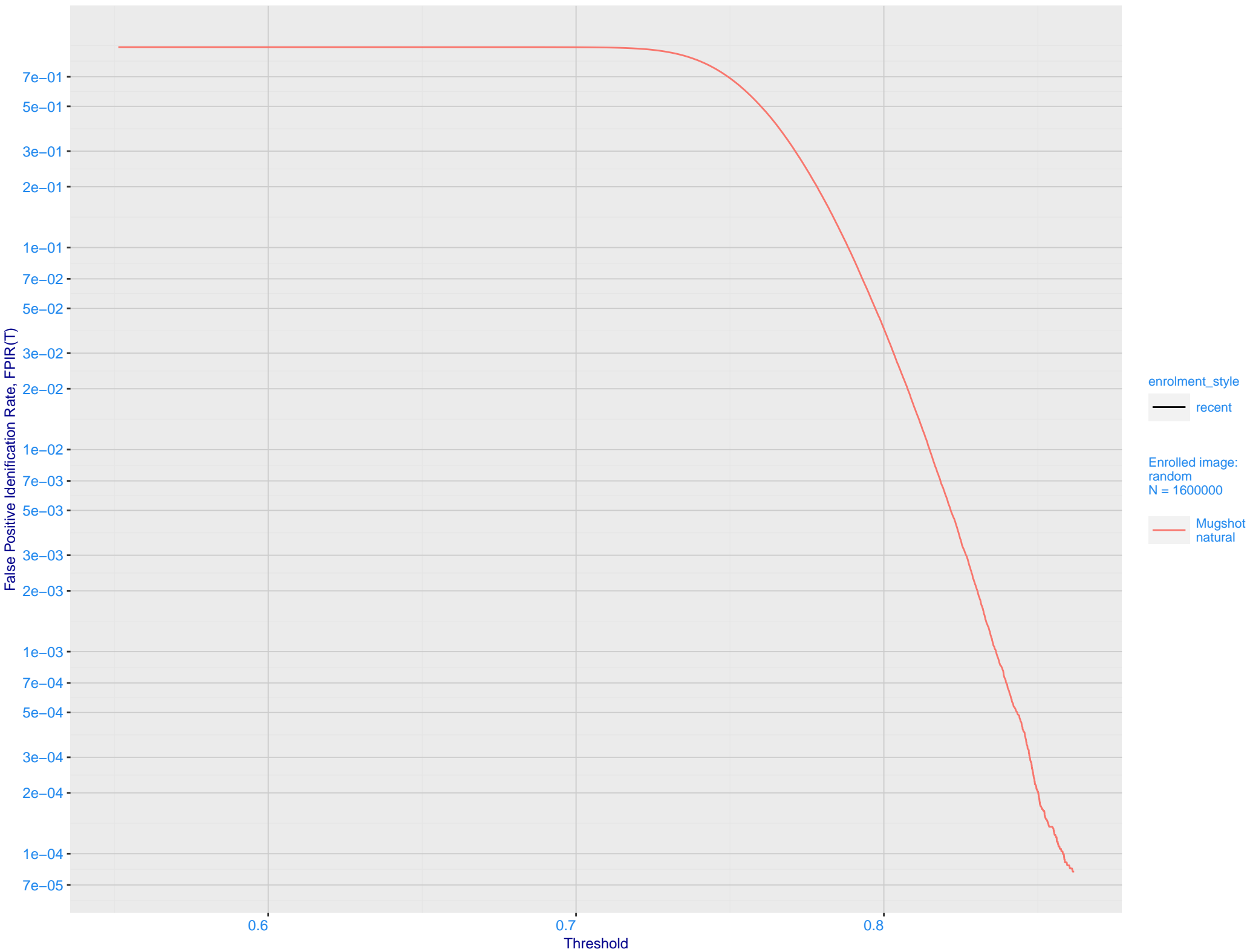
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



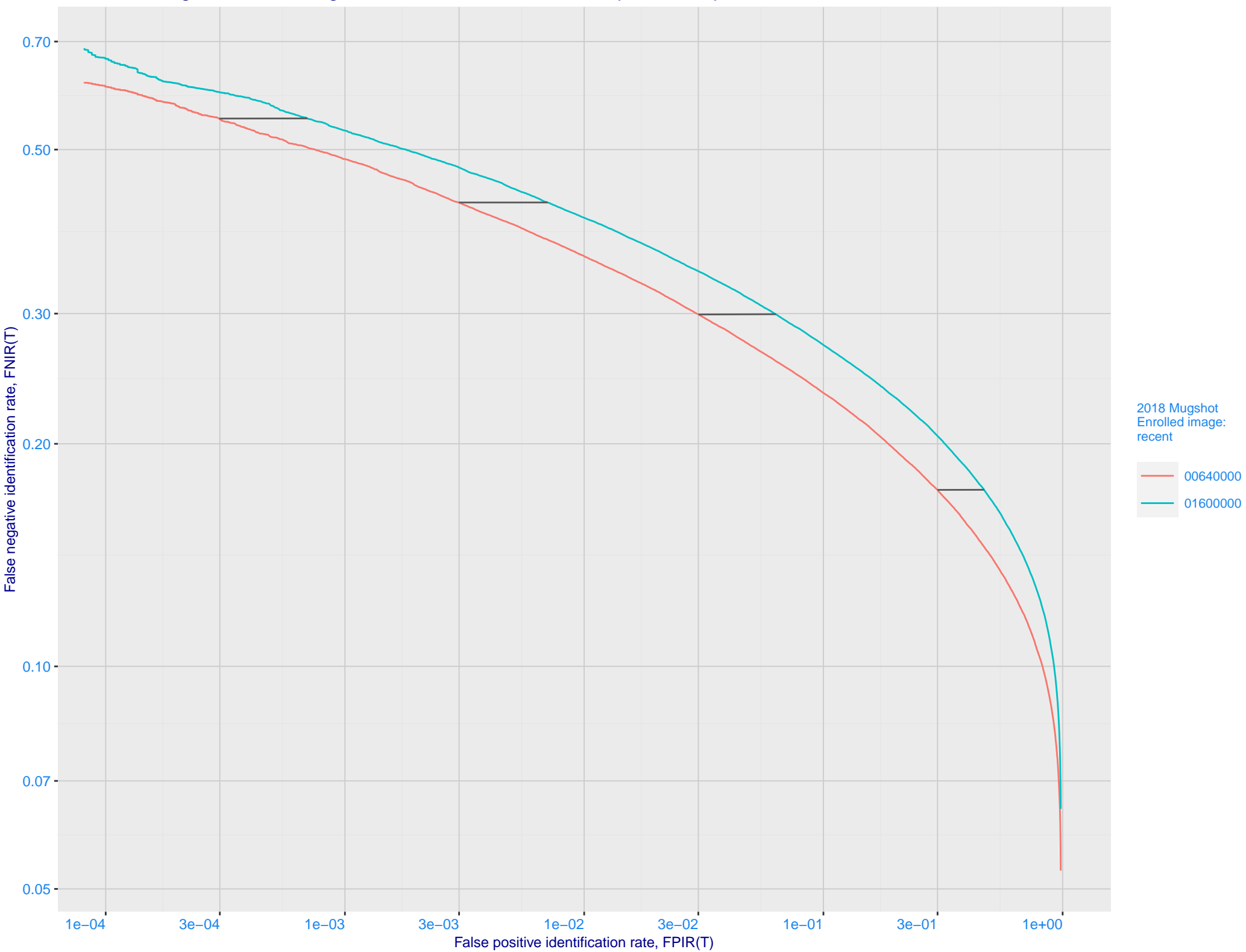
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



G: FPIR dependence on T by probe type for N = 1600000 subjects

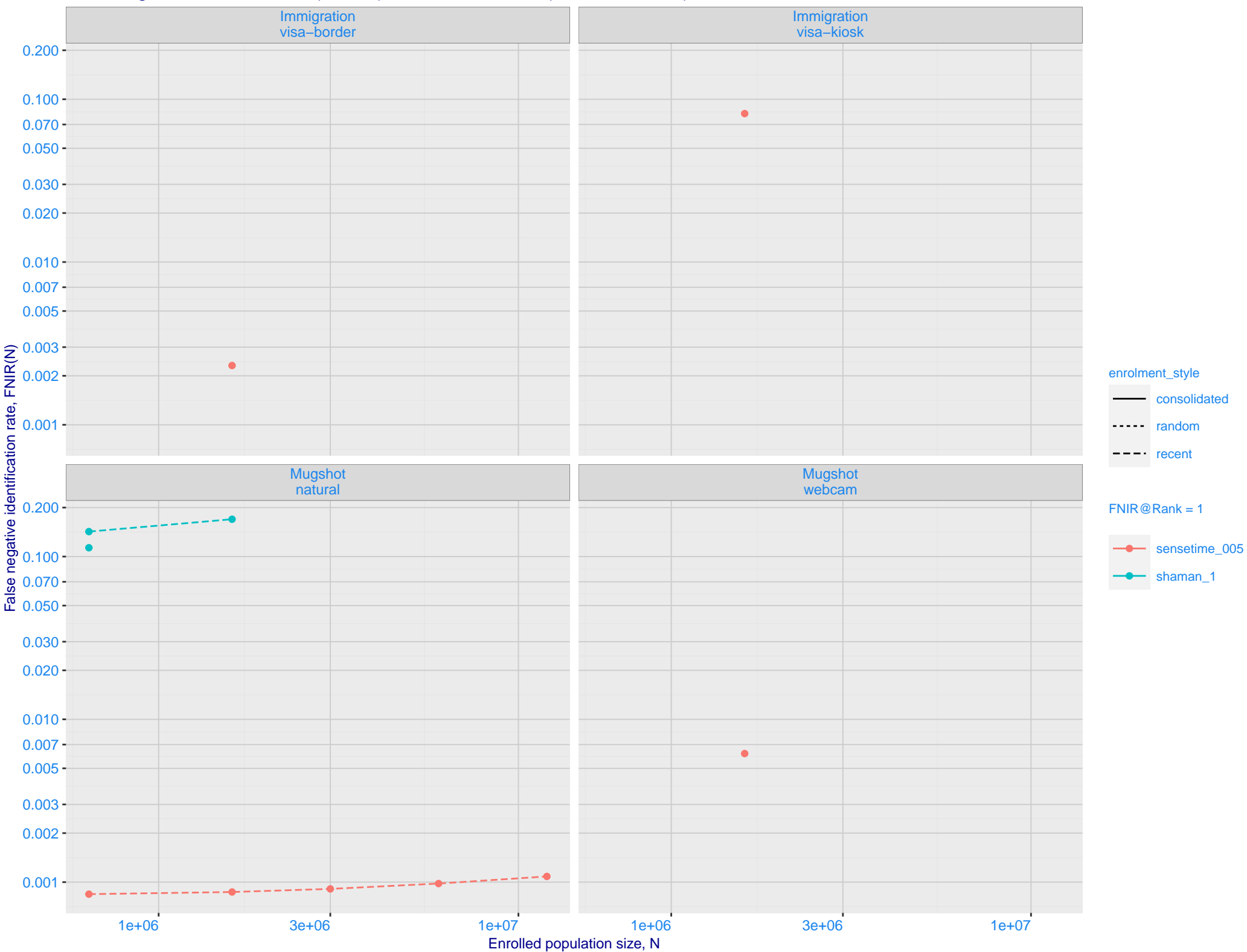


H: DET for Mugshot natural images and various N. Links connect points of equal threshold.

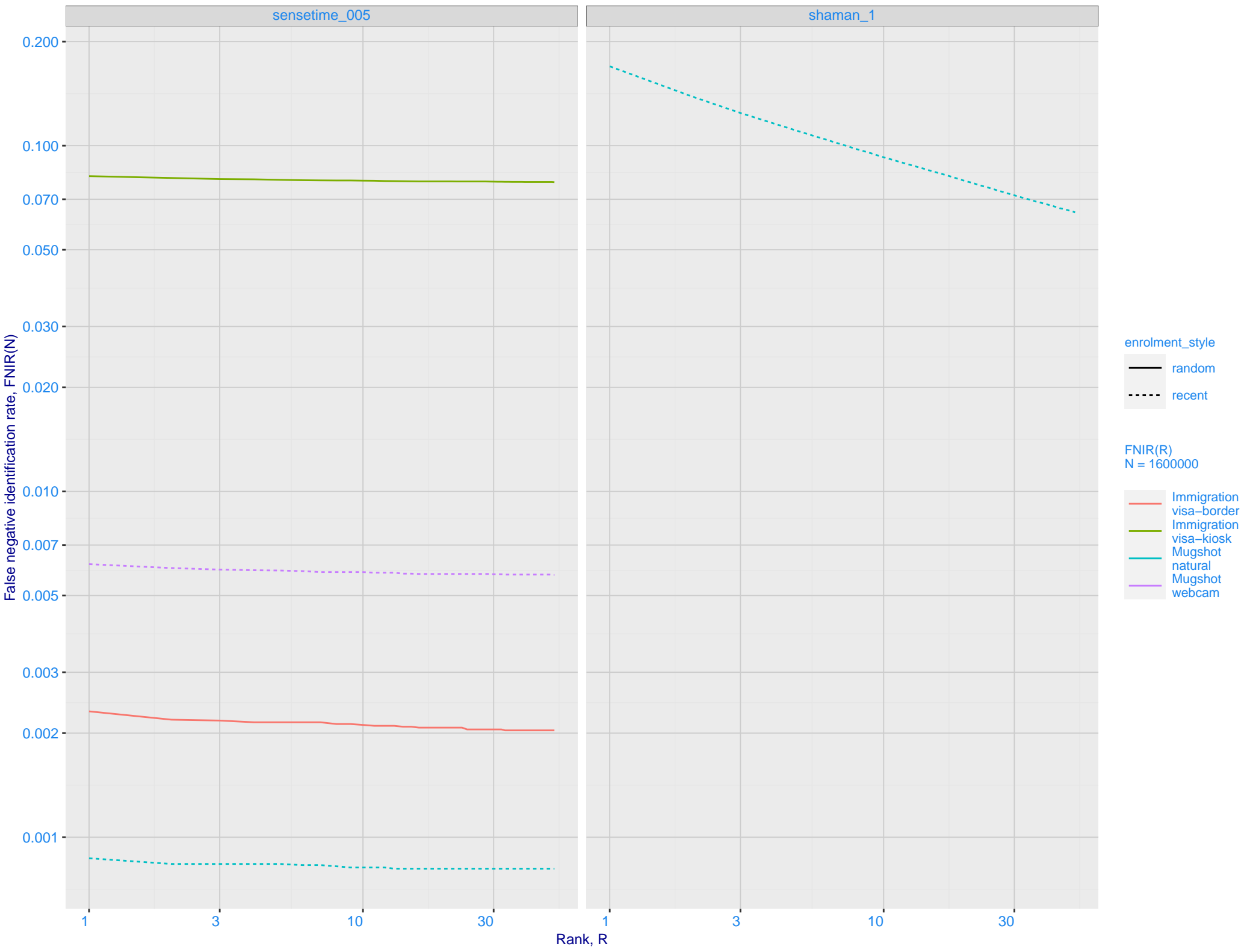




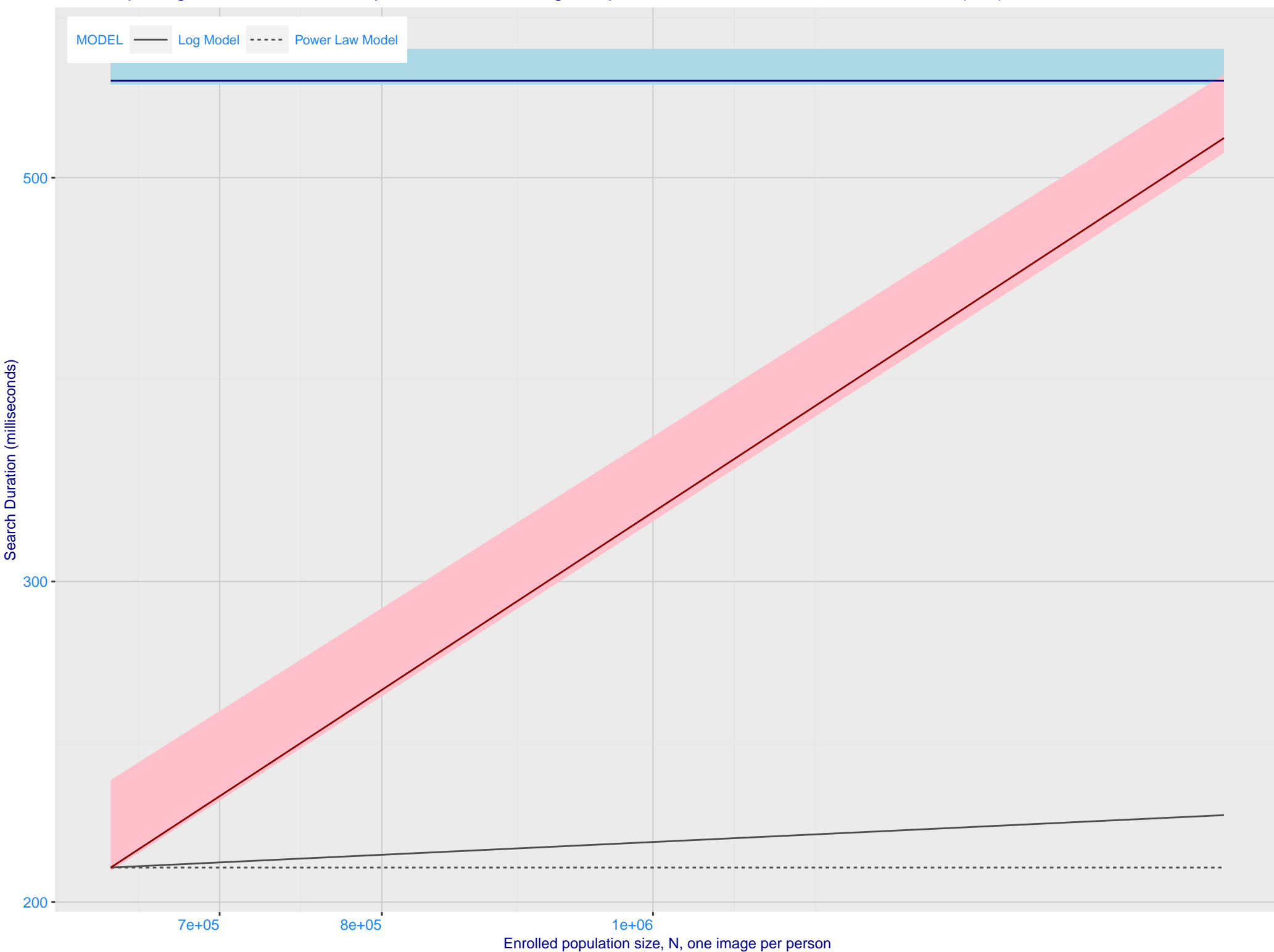
# I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime\_005)



J: Investigational mode: FNIR(1600000, R, 0) by probe type



Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements.  
The template generation time is independent of N. The log and power-law models are fit to the first two (N,T) observations



M: Identification FNIR(N, T, L+1) and Investigational FNIR(N, 0, R) under ageing

Dataset: 2018 Mugshot N = 3068801

