

A: Datasheet

Algorithm: dahua\_004

Developer: Dahua Technology Co Ltd

Submission Date: 2021\_11\_18

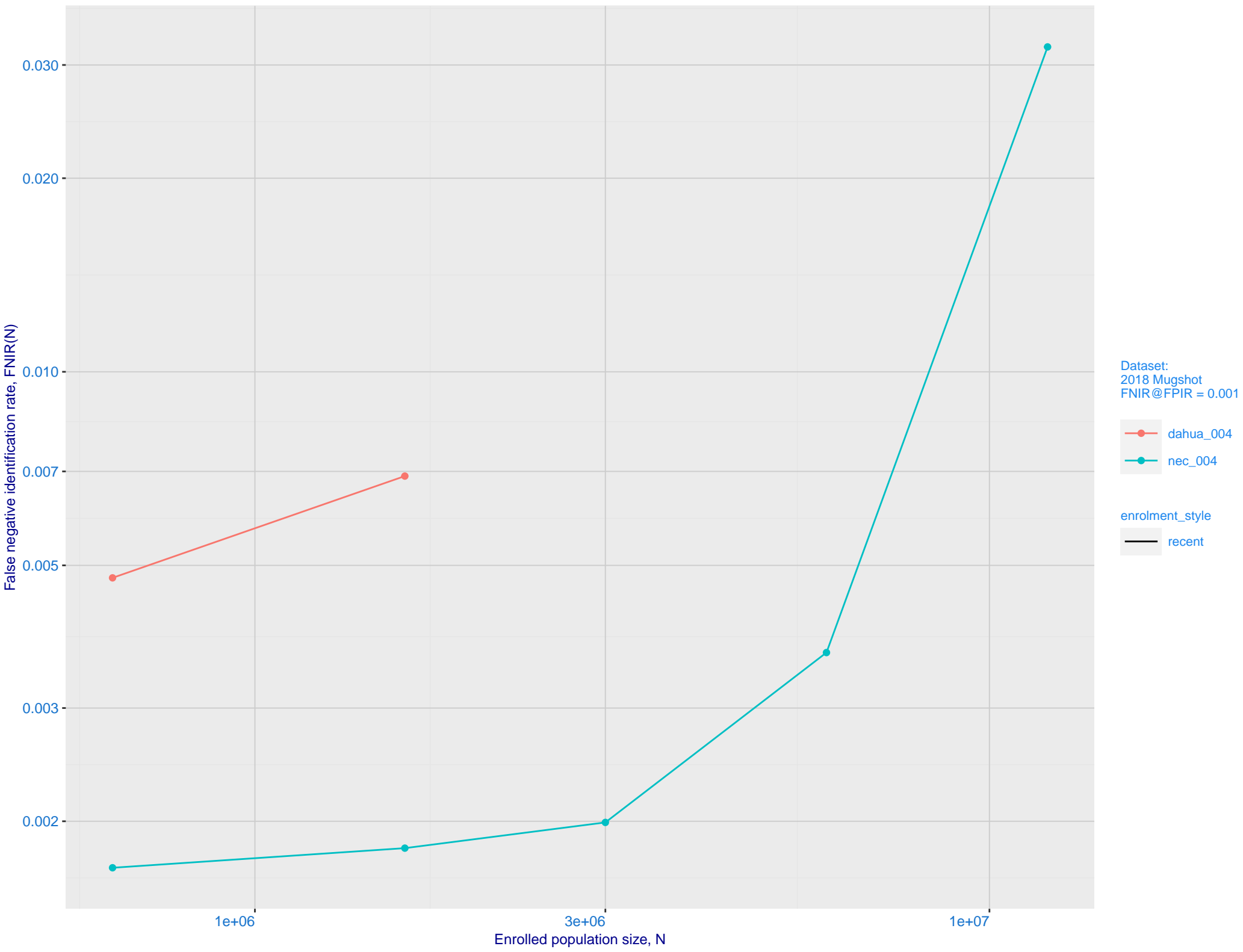
Investigation:

Frontal mugshot ranking 7 (out of 319) -- FNIR(1600000, 0, 1) = 0.0011 vs. lowest 0.0009 from sensetime\_006

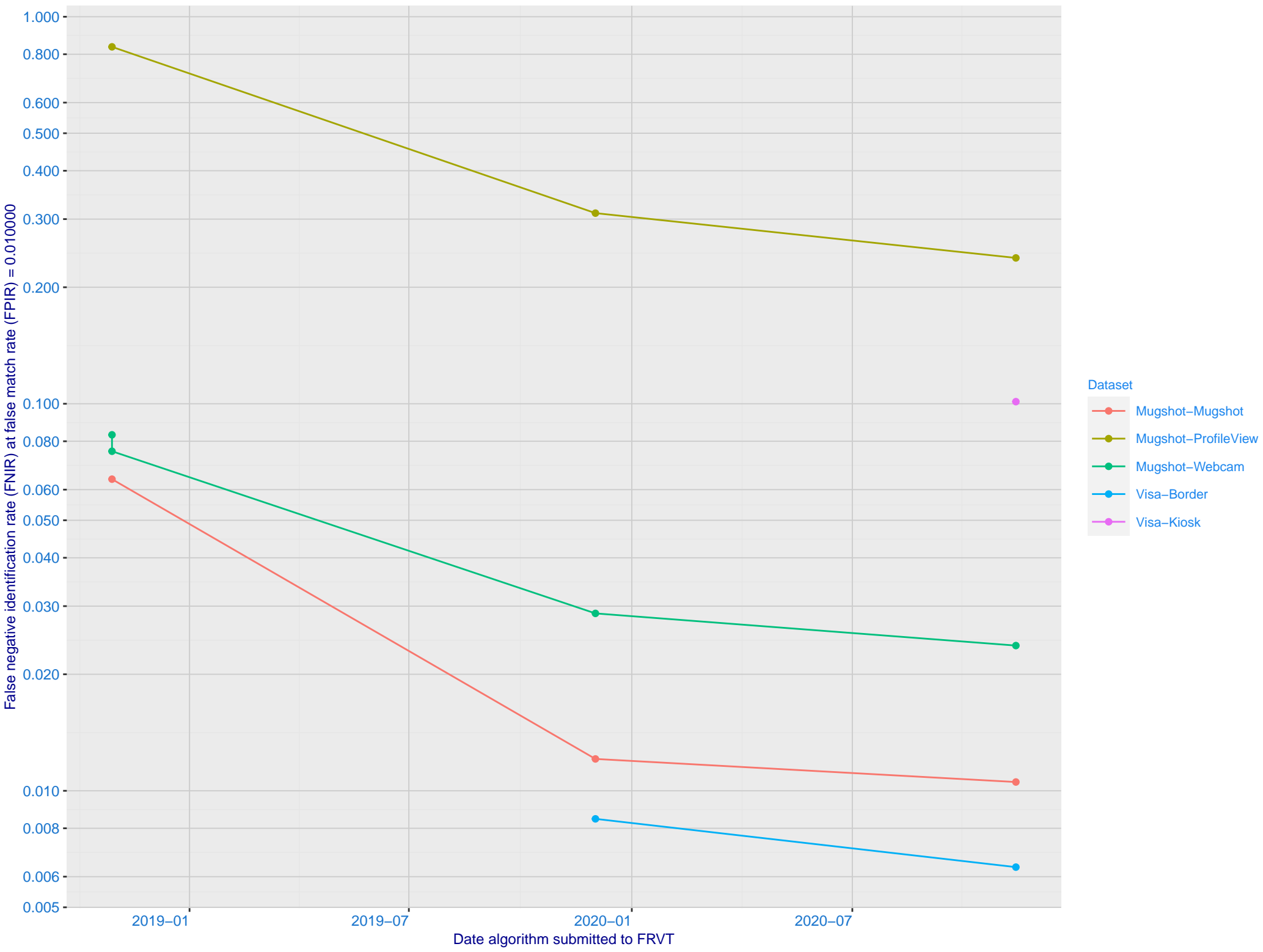
Identification:

Frontal mugshot ranking 26 (out of 319) -- FNIR(1600000, T, L+1) = 0.0069, FPIR=0.001000 vs. lowest 0.0018 from sensetime\_004

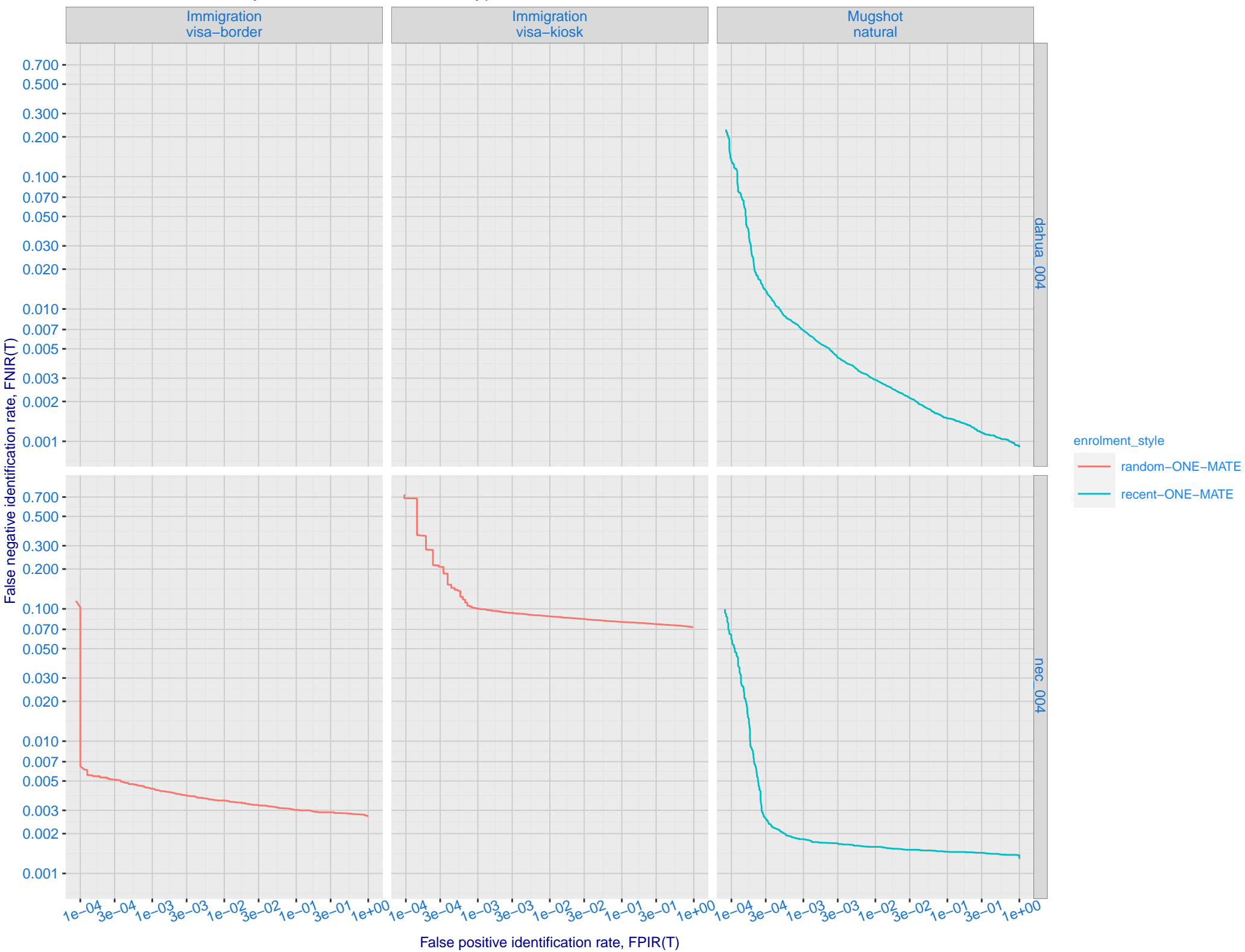
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (nec\_004)



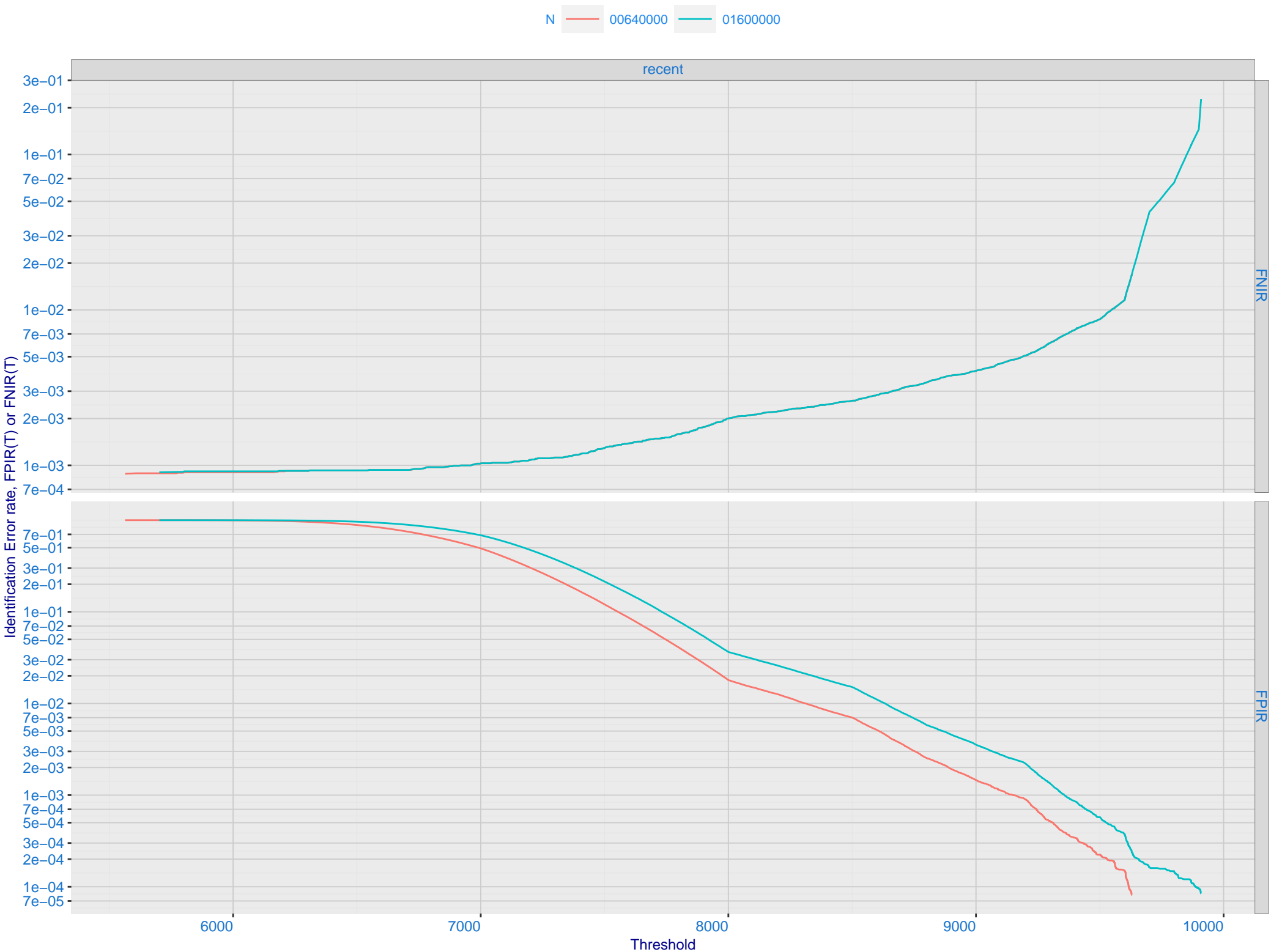
C: Evolution of accuracy for DAHUA algorithms on three datasets 2018 – present



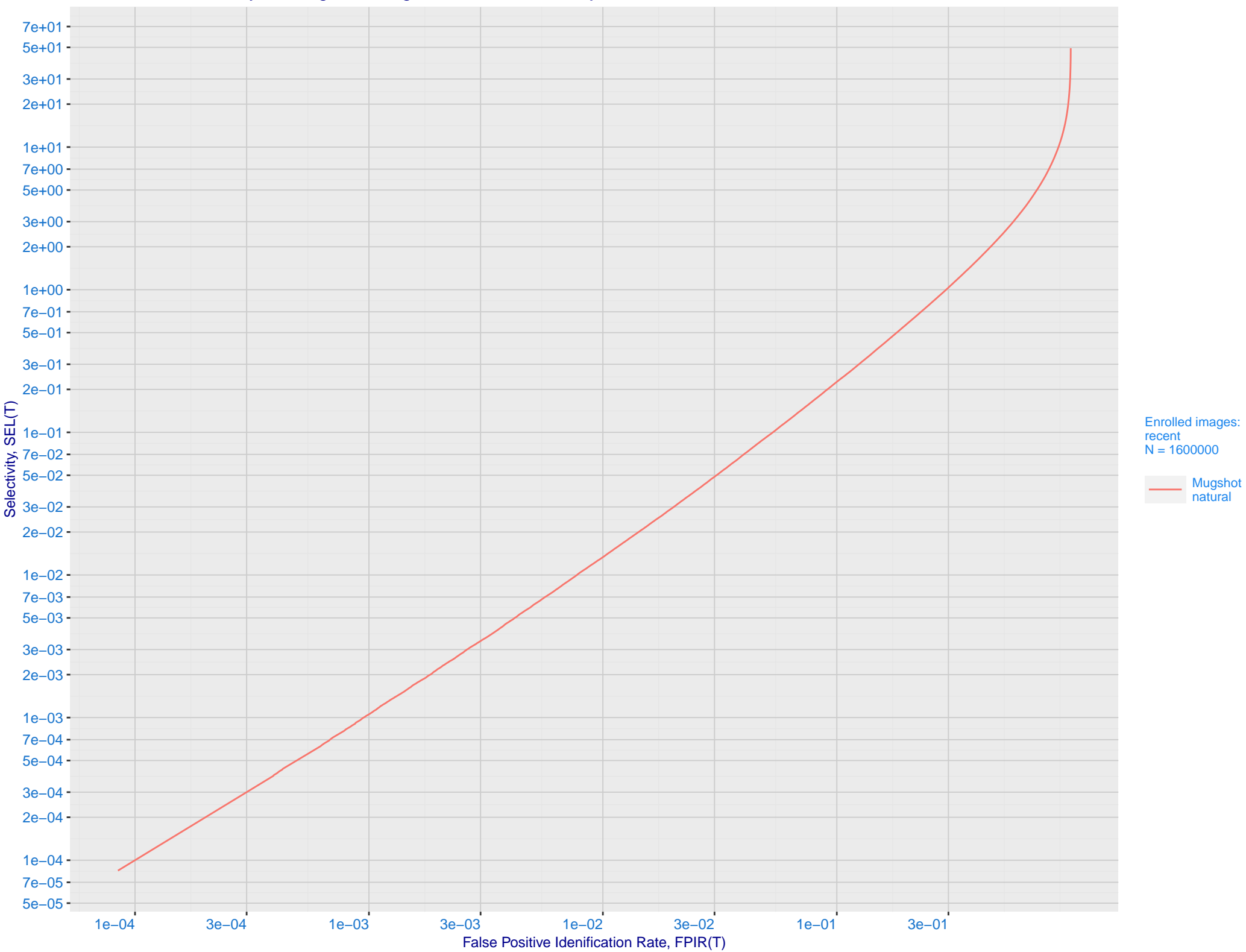
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



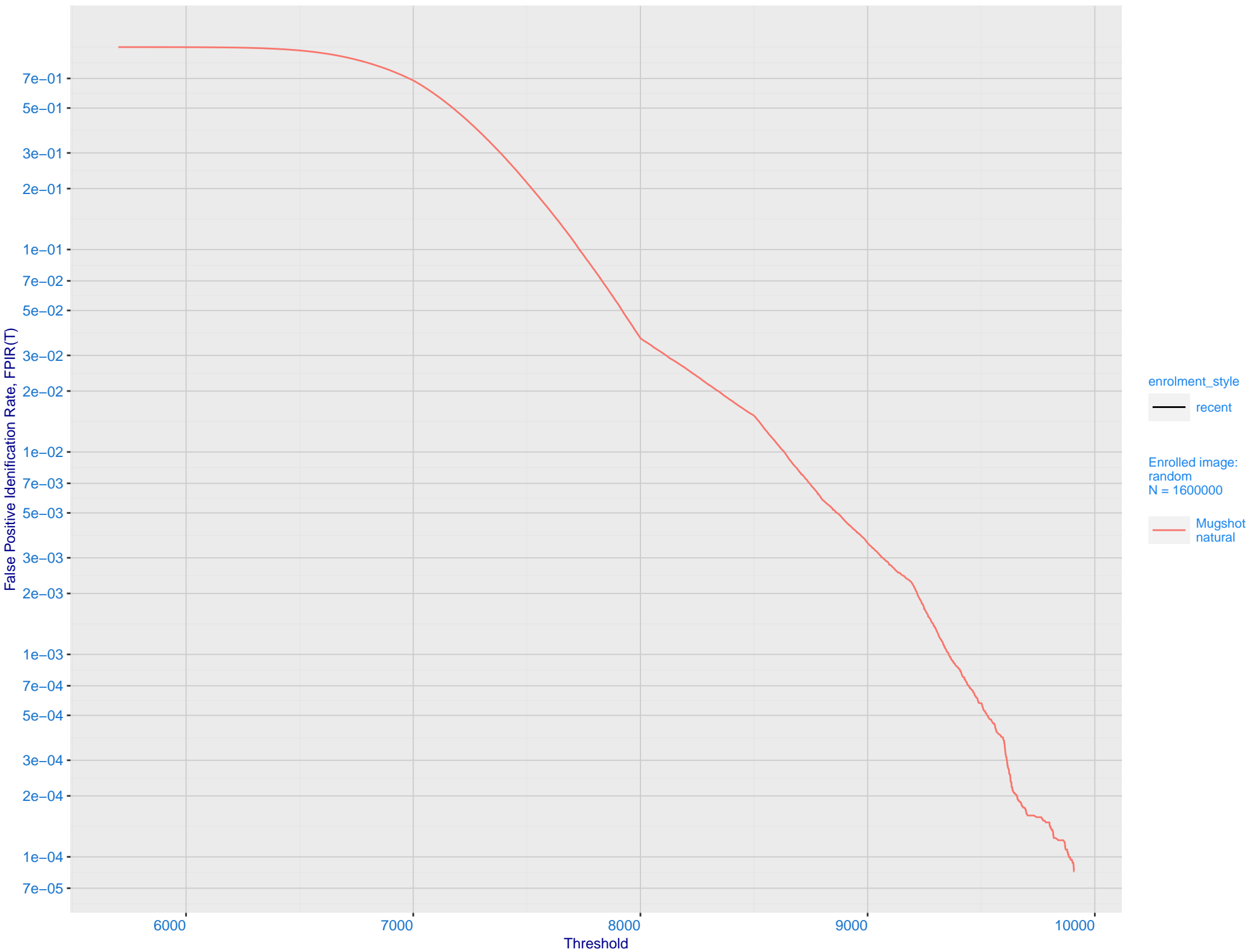
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



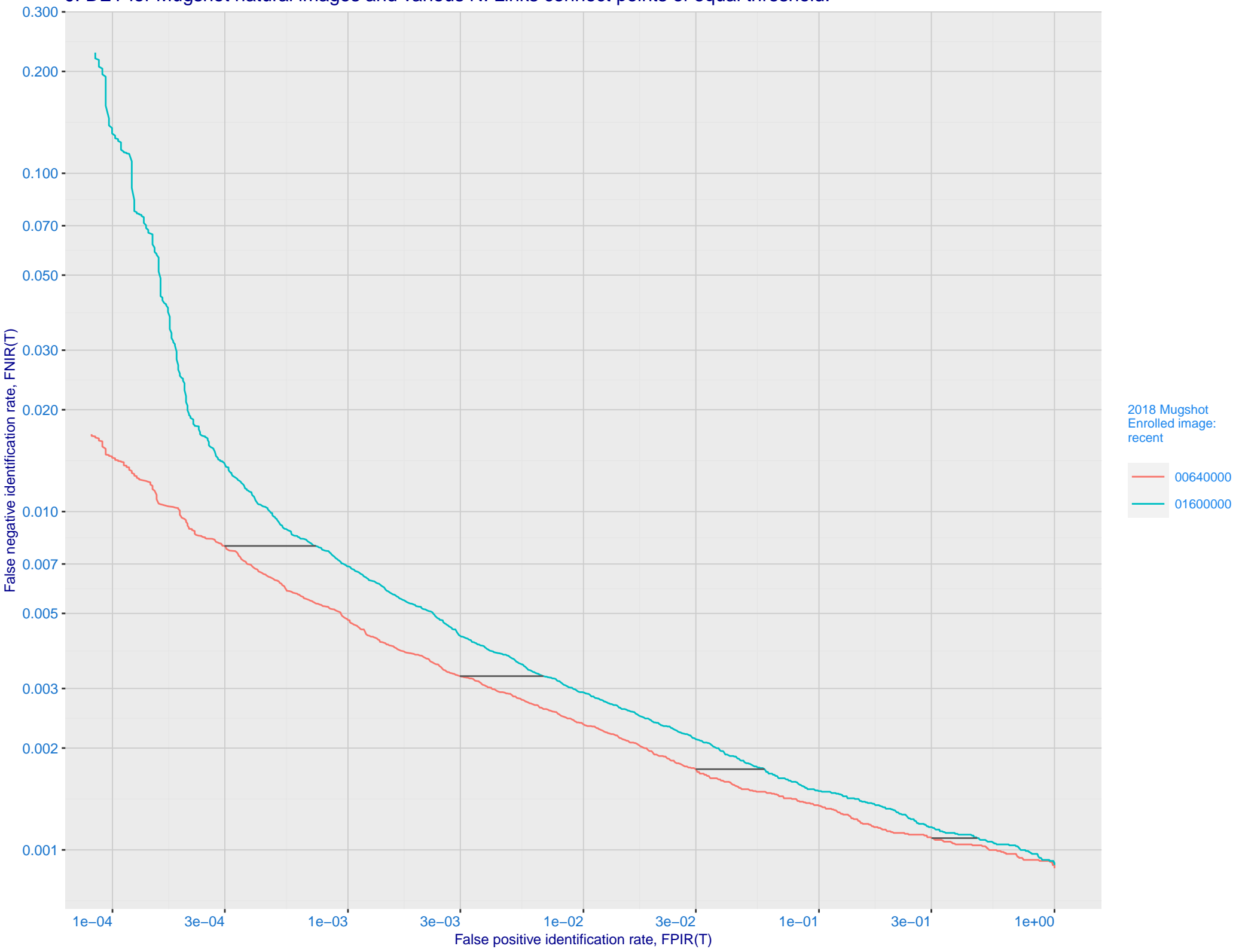
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



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

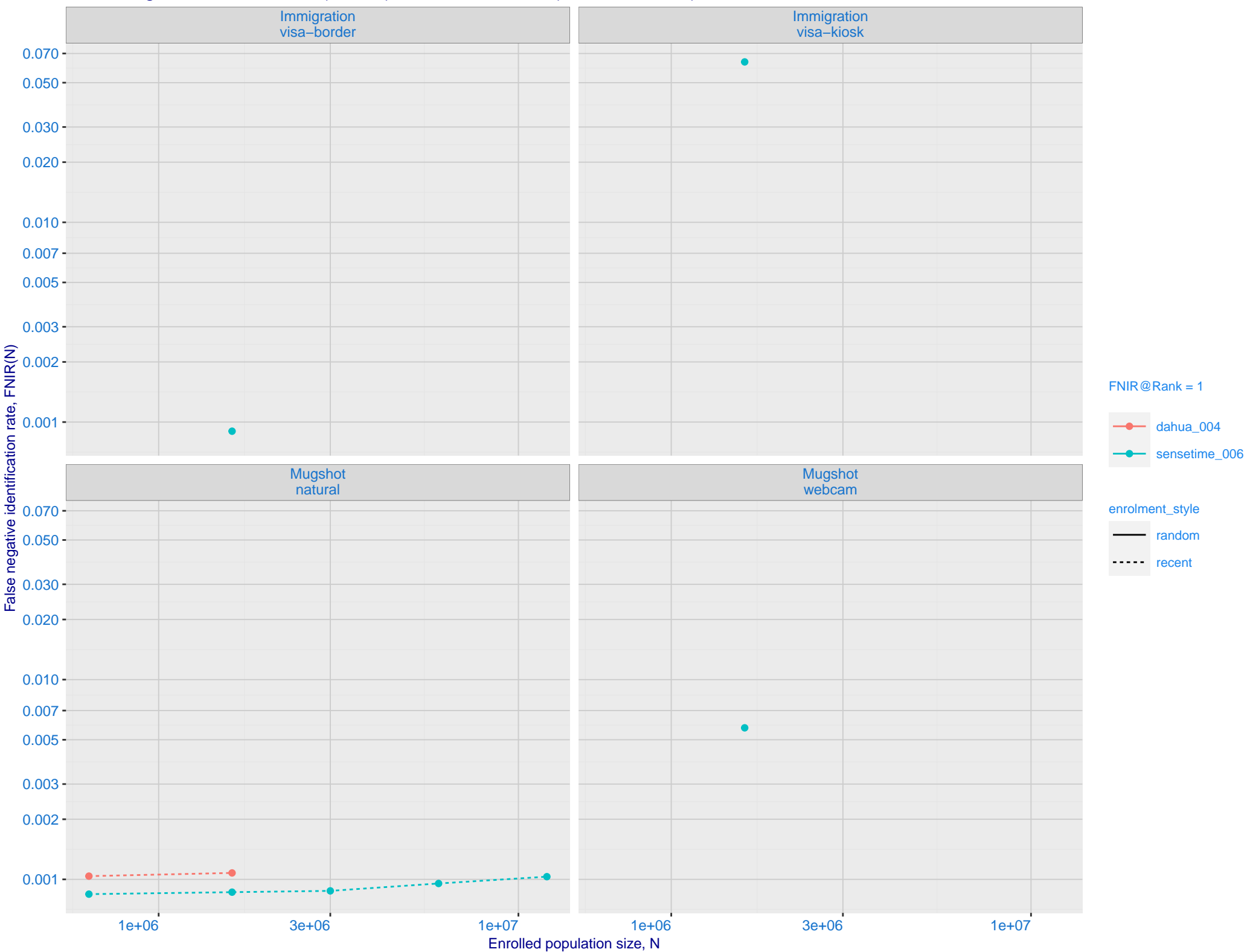


J: DET for Mugshot natural images and various N. Links connect points of equal threshold.





K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime\_006)





M: 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

Search Duration (milliseconds)

Enrolled population size, N, one image per person

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

Dataset: 2018 Mugshot N = 3068801

