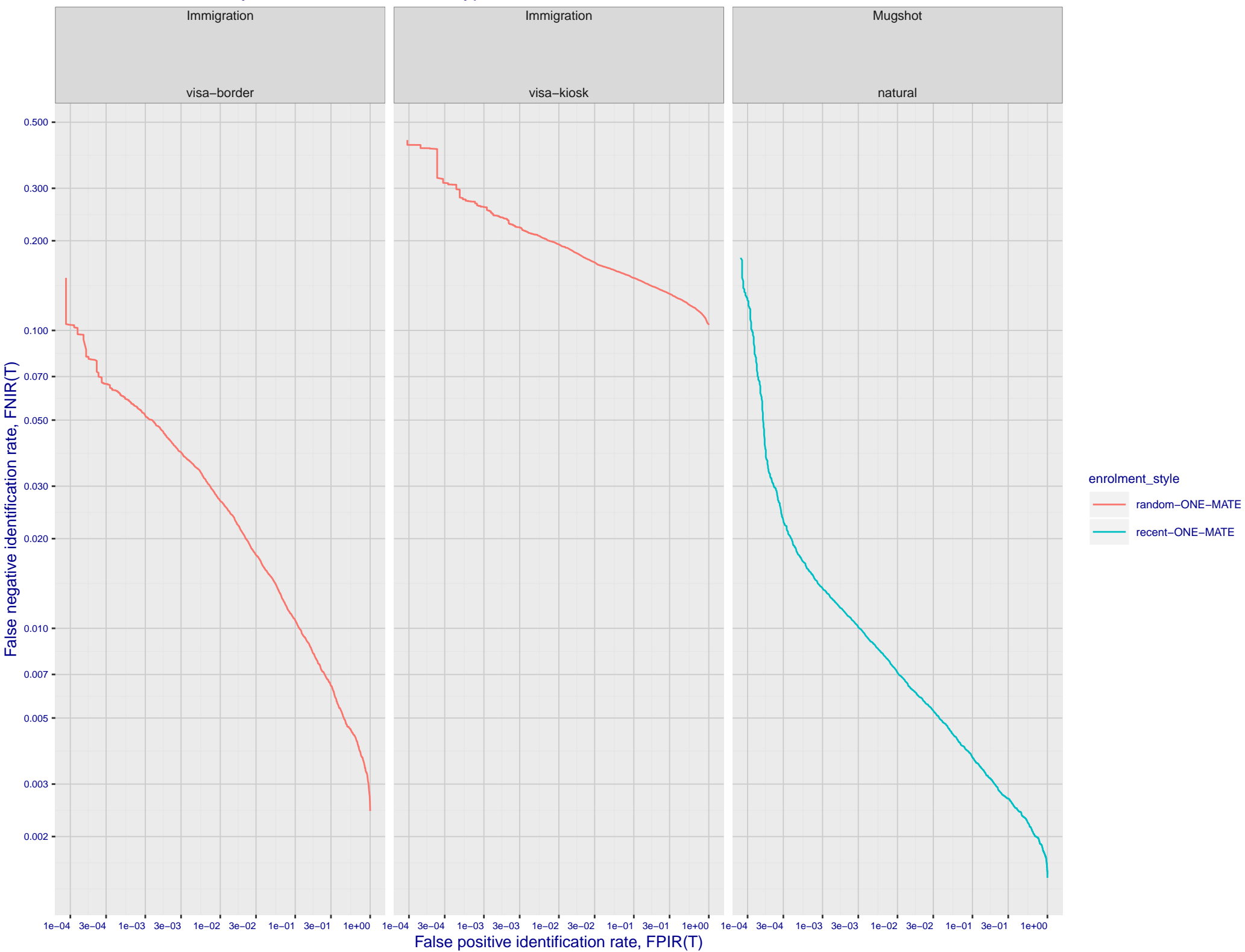
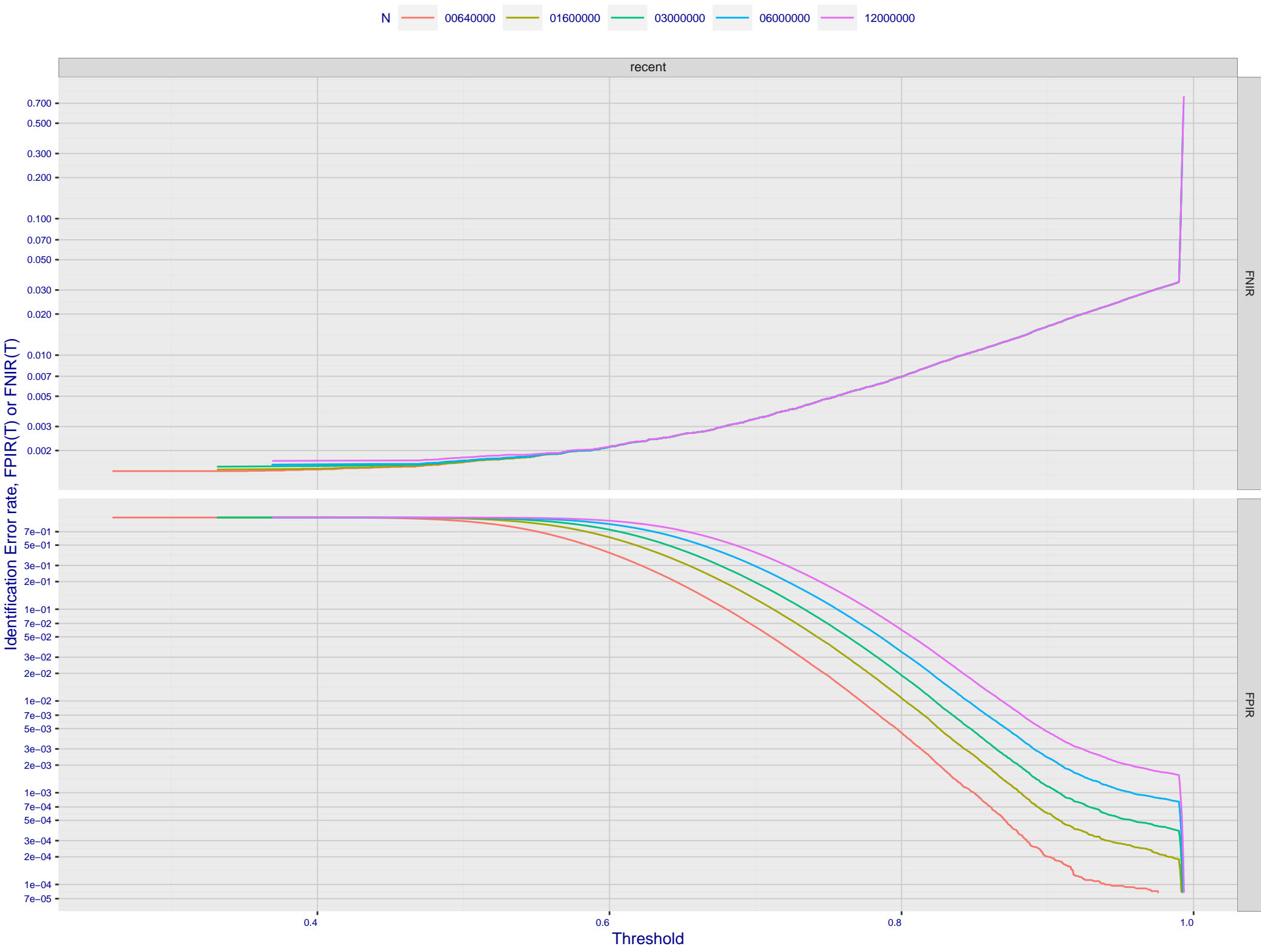


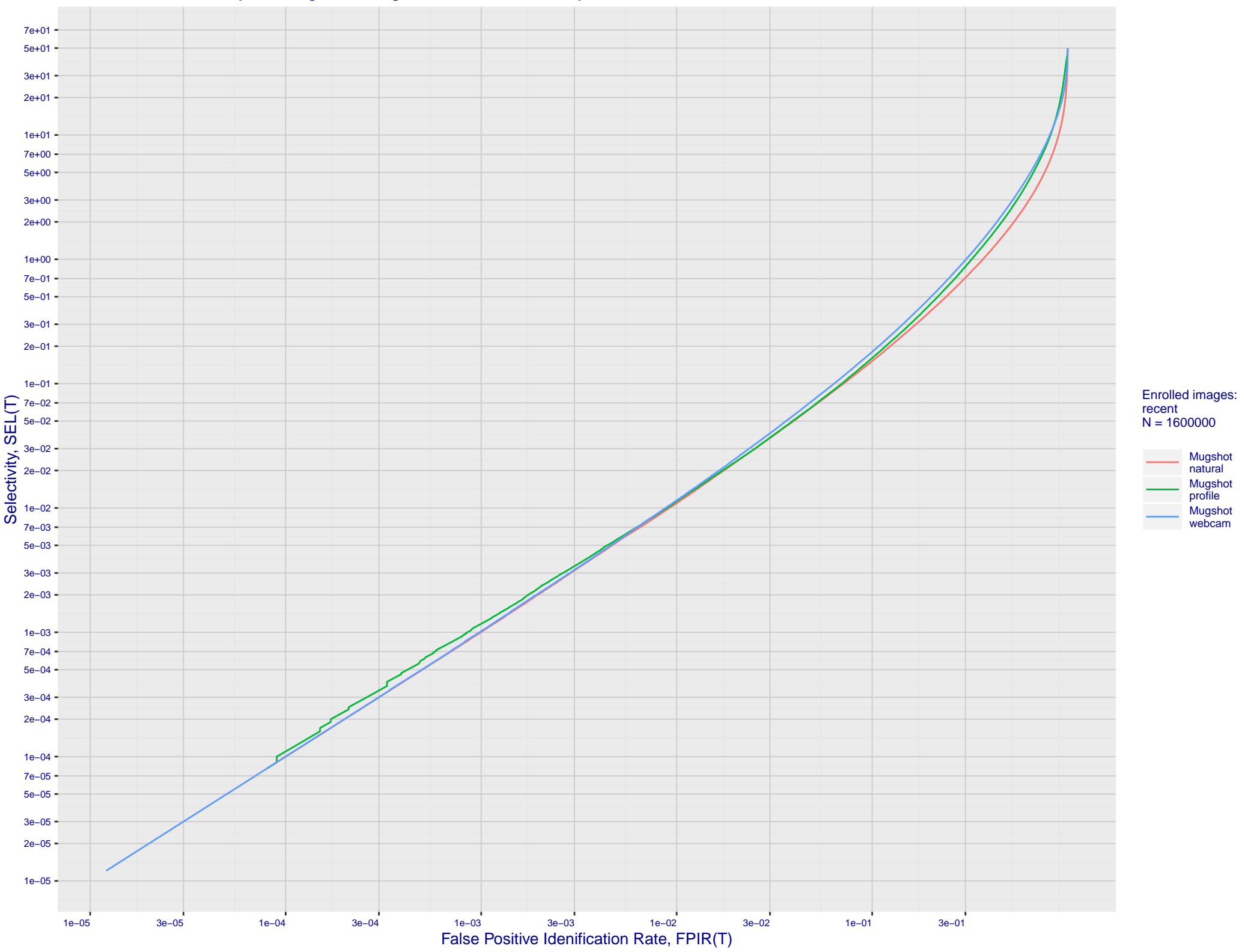
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



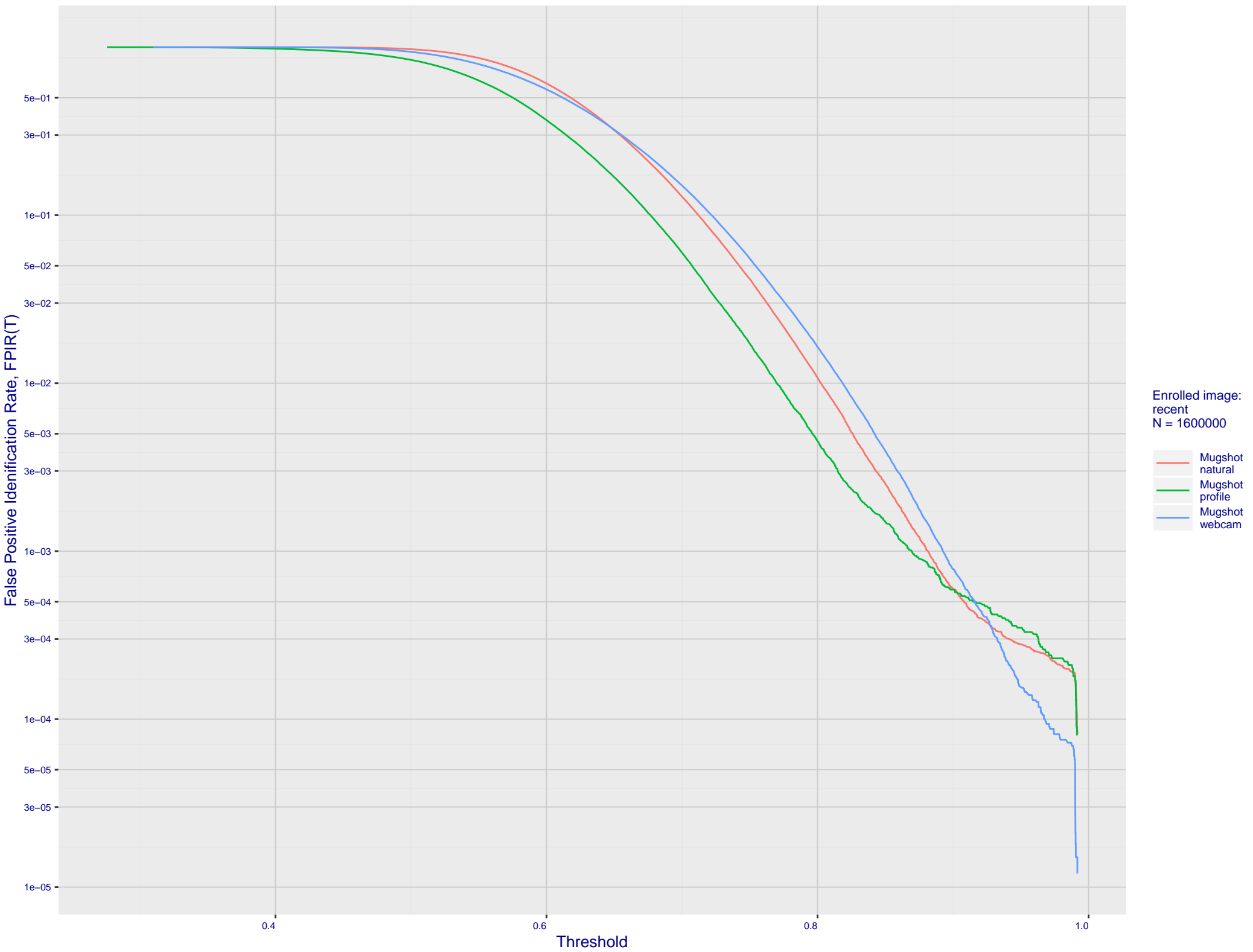
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



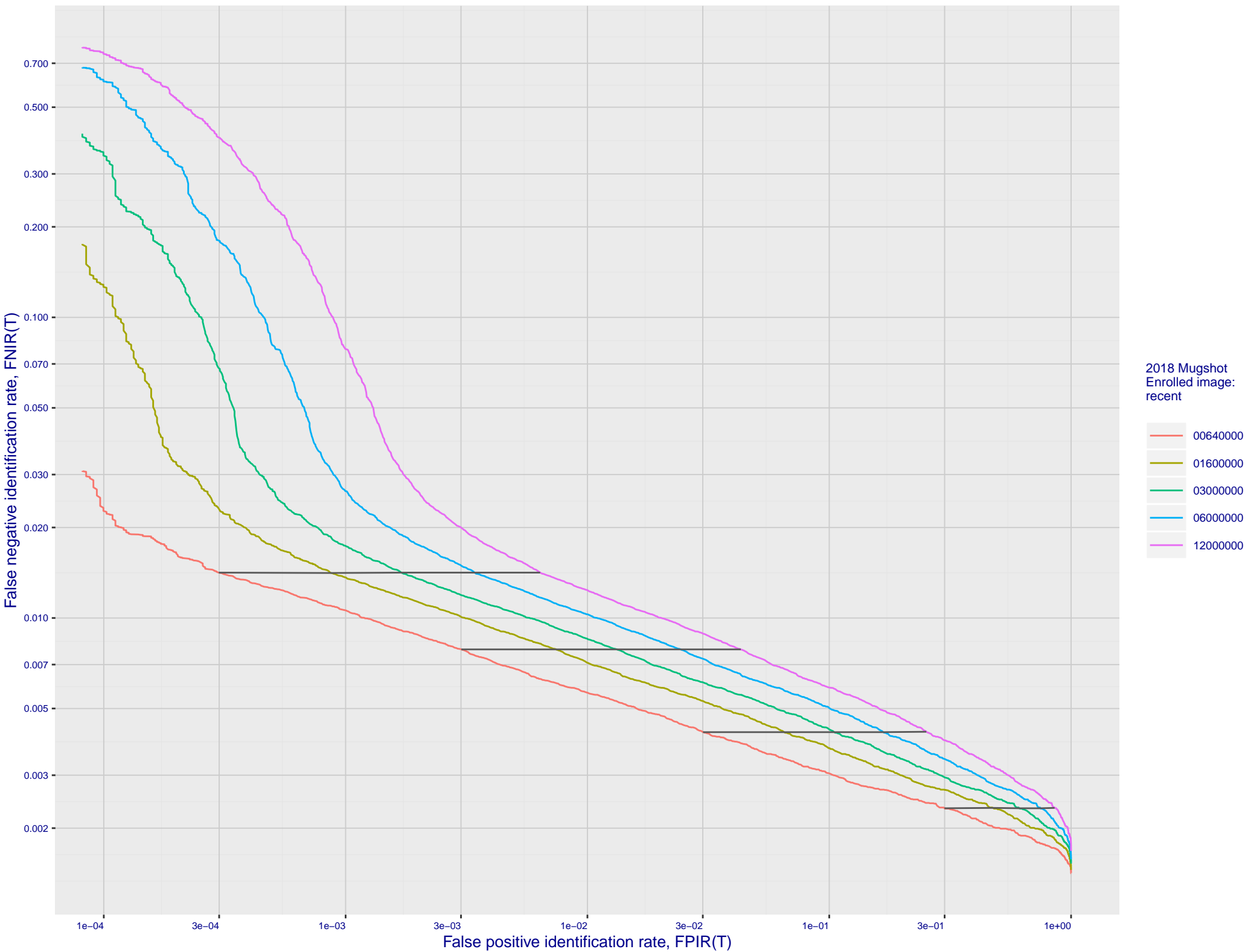
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



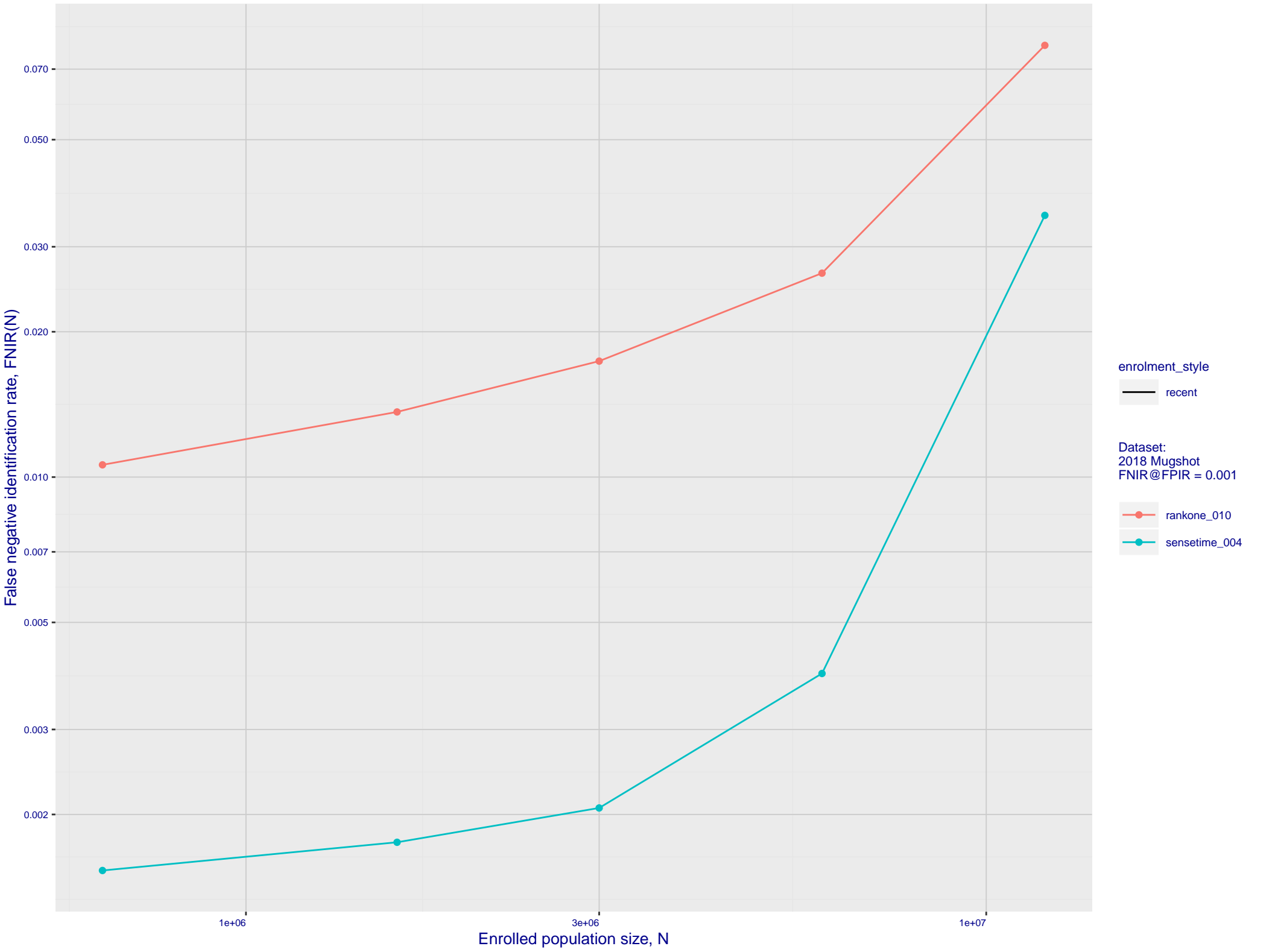
D: FPIR dependence on T by probe type for N = 1600000 subjects



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



F: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)



G: Datasheet

Algorithm: rankone_010

Developer: Rank One Computing

Submission Date: 2020_11_05

Template size: 261 bytes

Template time (2.5 percentile): 194 msec

Template time (median): 198 msec

Template time (97.5 percentile): 218 msec

Frontal mugshot investigation rank 27 --- FNIR(1600000, 0, 1) = 0.0022 vs. lowest 0.0010 from sensetime_004

natural investigation rank 11 --- FNIR(1600000, 0, 1) = 0.0098 vs. lowest 0.0067 from sensetime_003

natural investigation rank 43 --- FNIR(1600000, 0, 1) = 0.2313 vs. lowest 0.0492 from paravision_005

natural investigation rank 43 --- FNIR(1600000, 0, 1) = 0.2313 vs. lowest 0.0492 from paravision_005

natural investigation rank 27 --- FNIR(1600000, 0, 1) = 0.0048 vs. lowest 0.0014 from visionlabs_009

natural investigation rank 36 --- FNIR(1600000, 0, 1) = 0.1263 vs. lowest 0.0694 from cib_000

Frontal mugshot identification rank 14 --- FNIR(1600000, T, L+1) = 0.0136 vs. lowest 0.0018 from sensetime_004

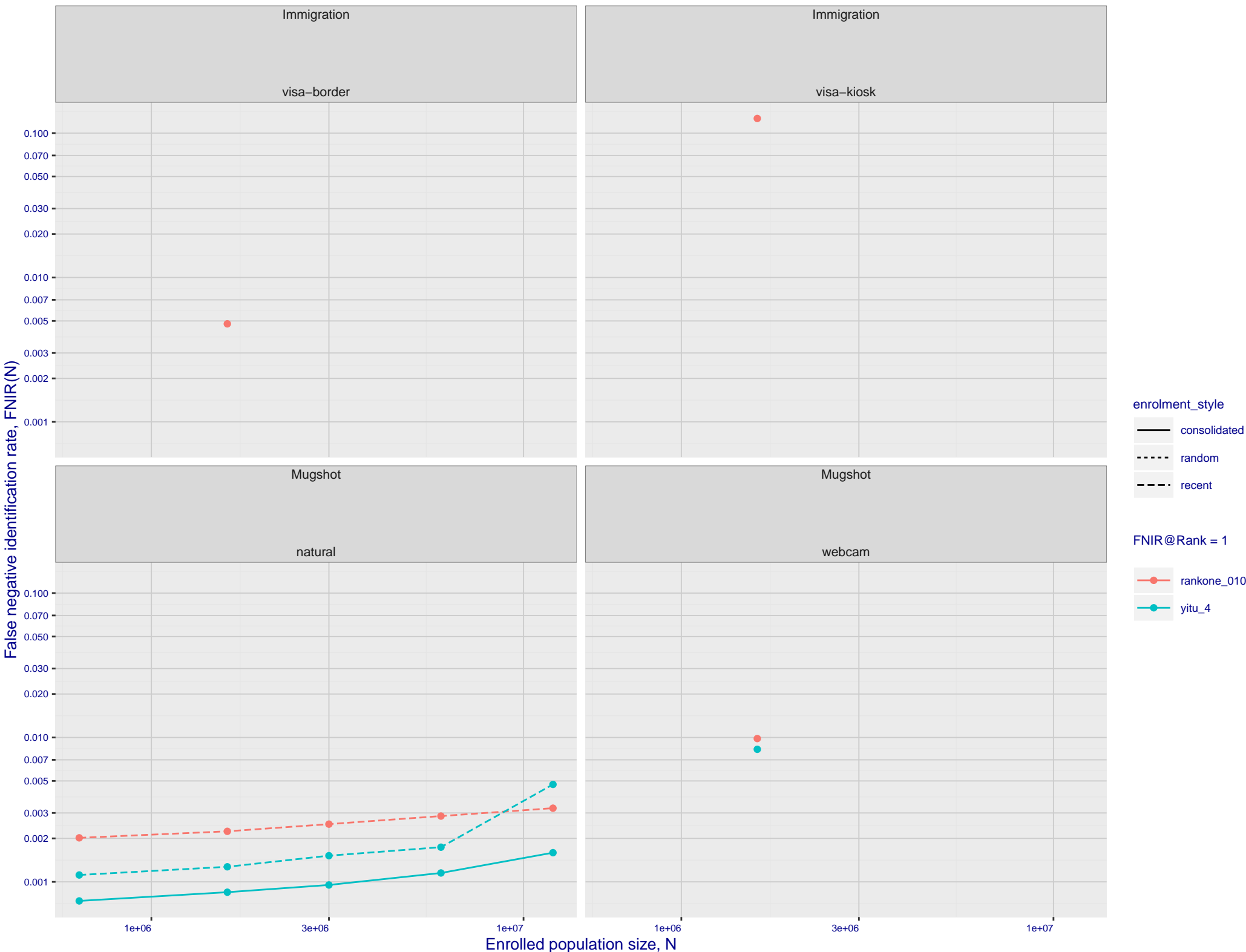
natural identification rank 23 --- FNIR(1600000, T, L+1) = 0.0582 vs. lowest 0.0122 from sensetime_003

natural identification rank 16 --- FNIR(1600000, T, L+1) = 0.5995 vs. lowest 0.1020 from sensetime_004

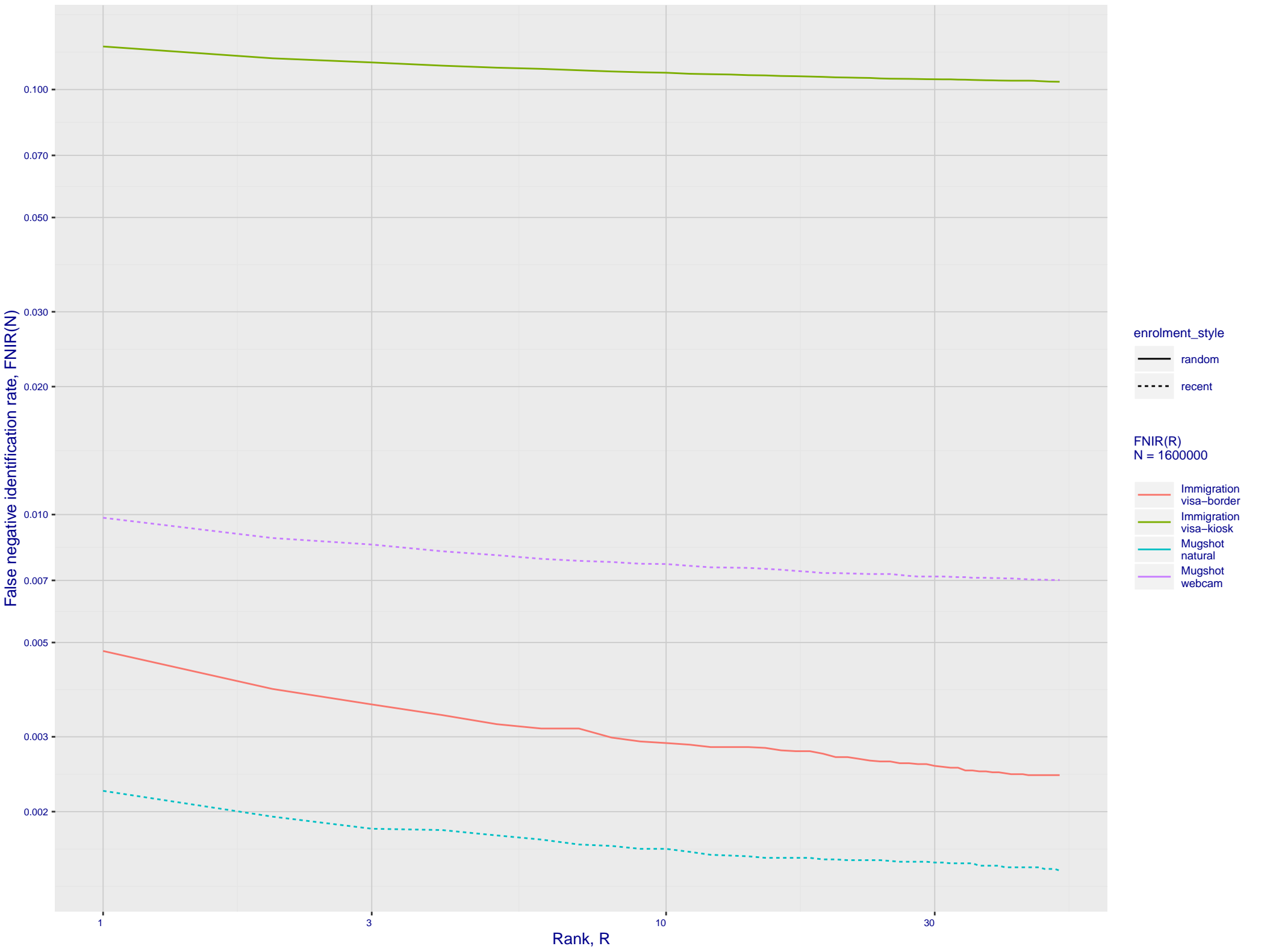
natural identification rank 33 --- FNIR(1600000, T, L+1) = 0.0517 vs. lowest 0.0059 from sensetime_004

natural identification rank 23 --- FNIR(1600000, T, L+1) = 0.2601 vs. lowest 0.1129 from visionlabs_009

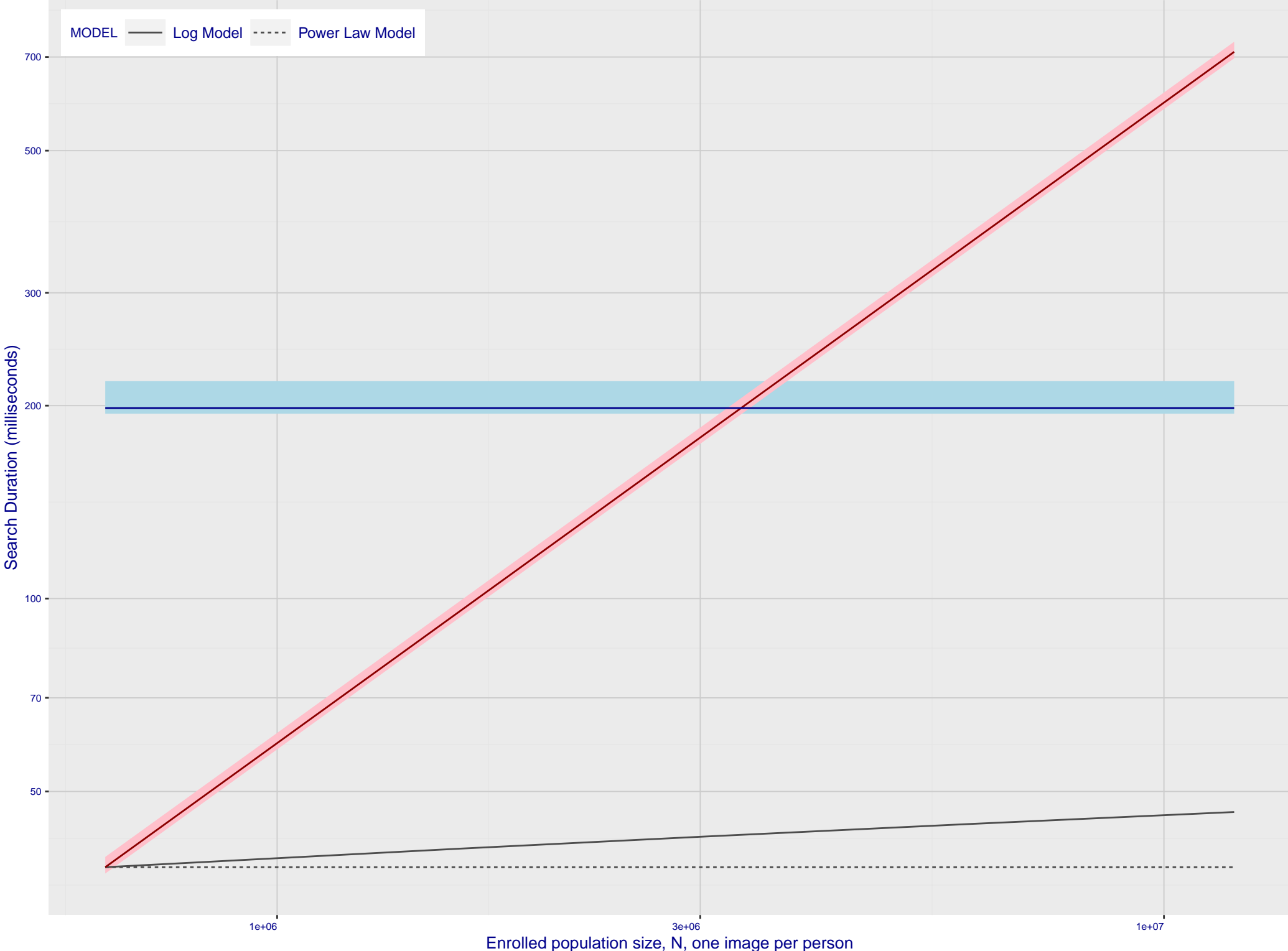
H: Investigational mode: FNIR(N, 1, 0) vs. most accurate (yitu_4)



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

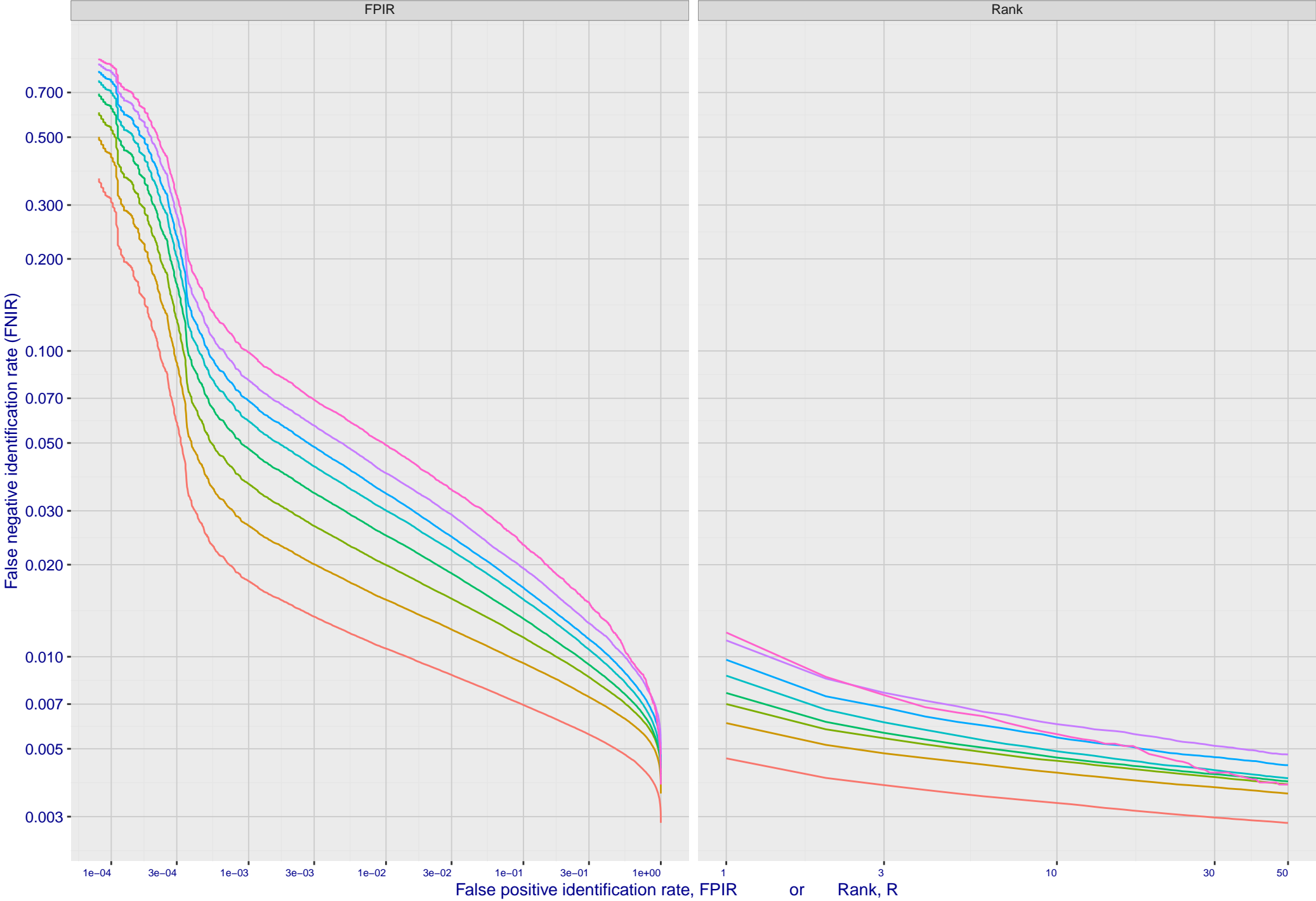


Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power-law models are fit to the first two (N,T) observations



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

Dataset: 2018 Mugshot N = 3068801



N: Decline of genuine scores with ageing

