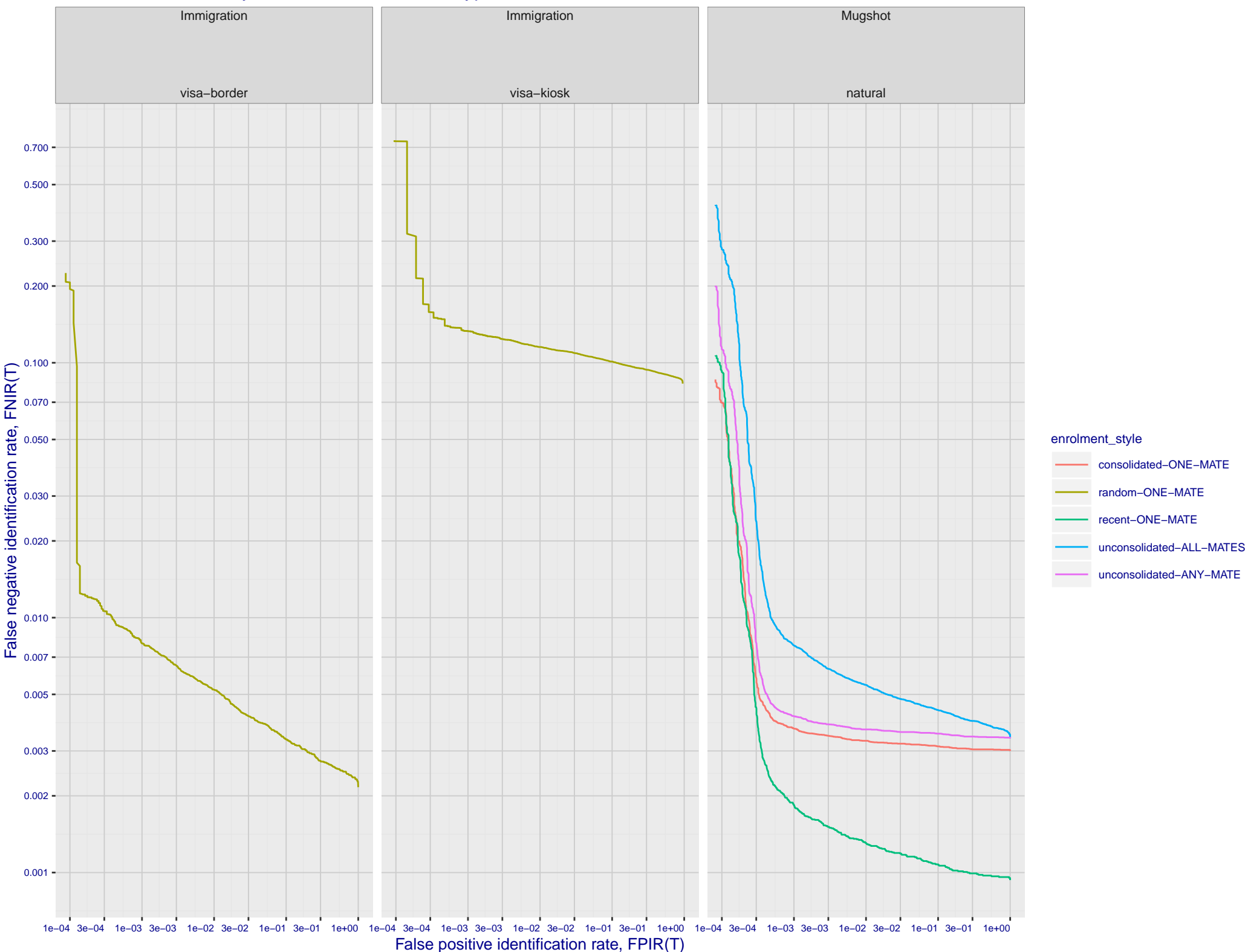
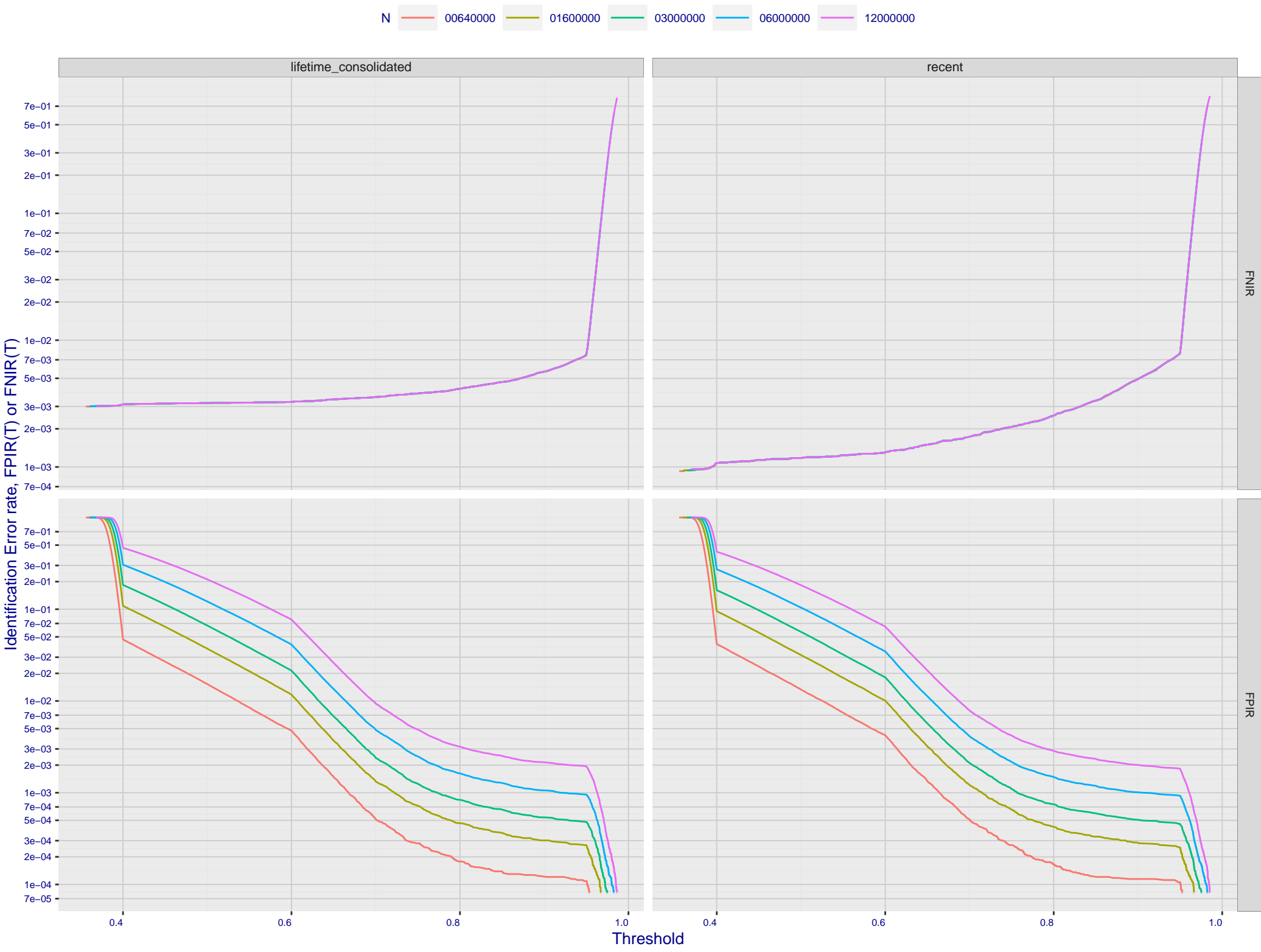


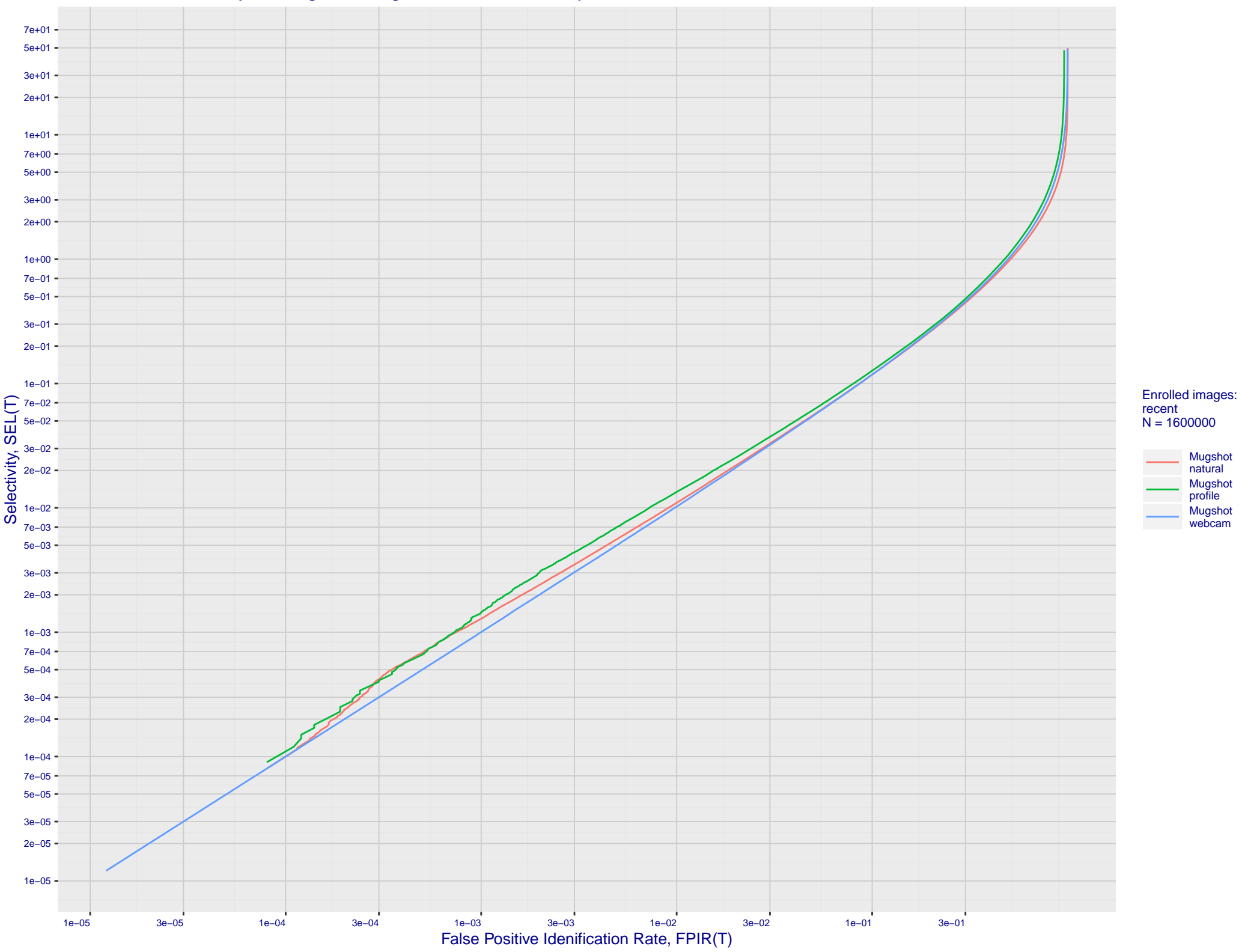
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



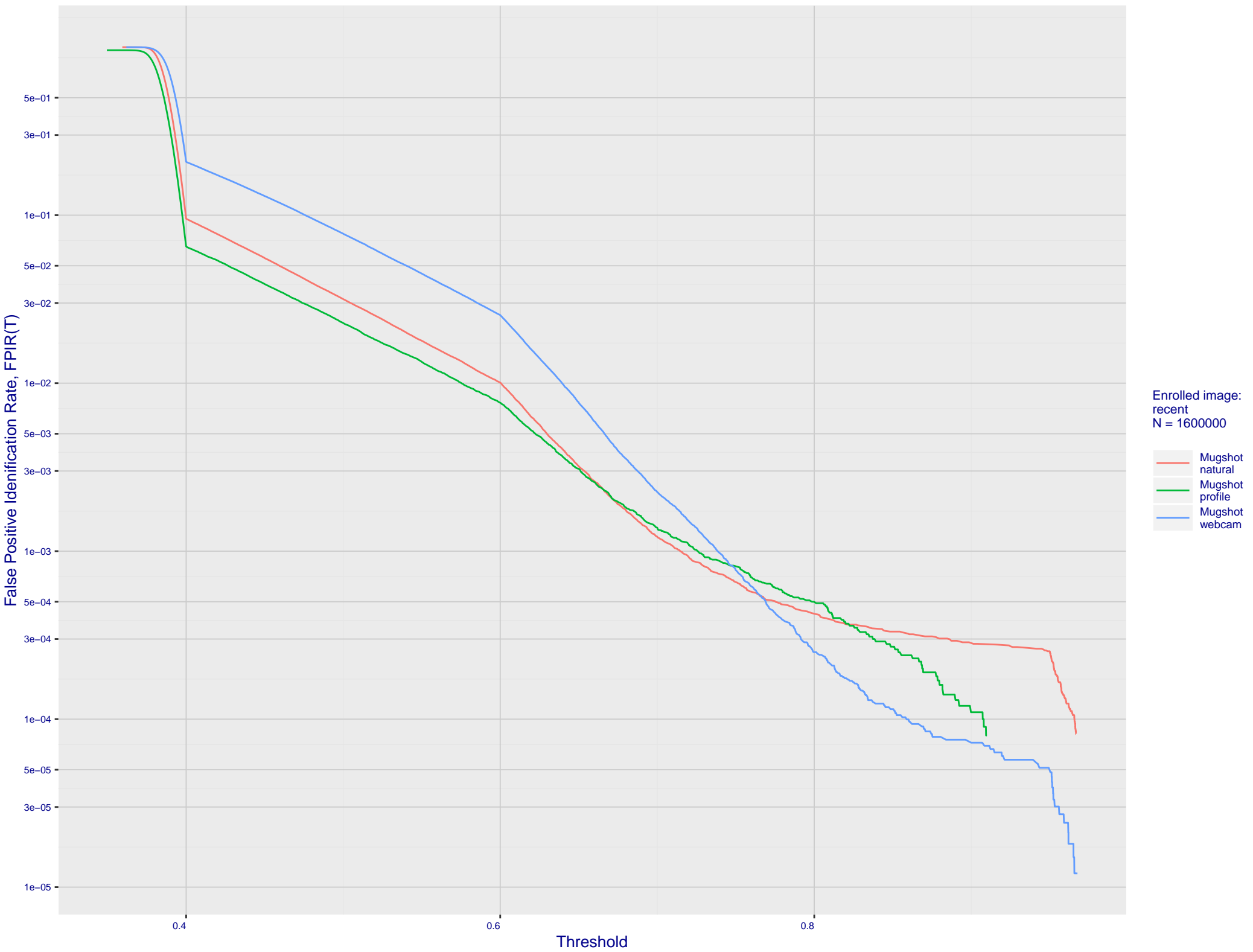
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



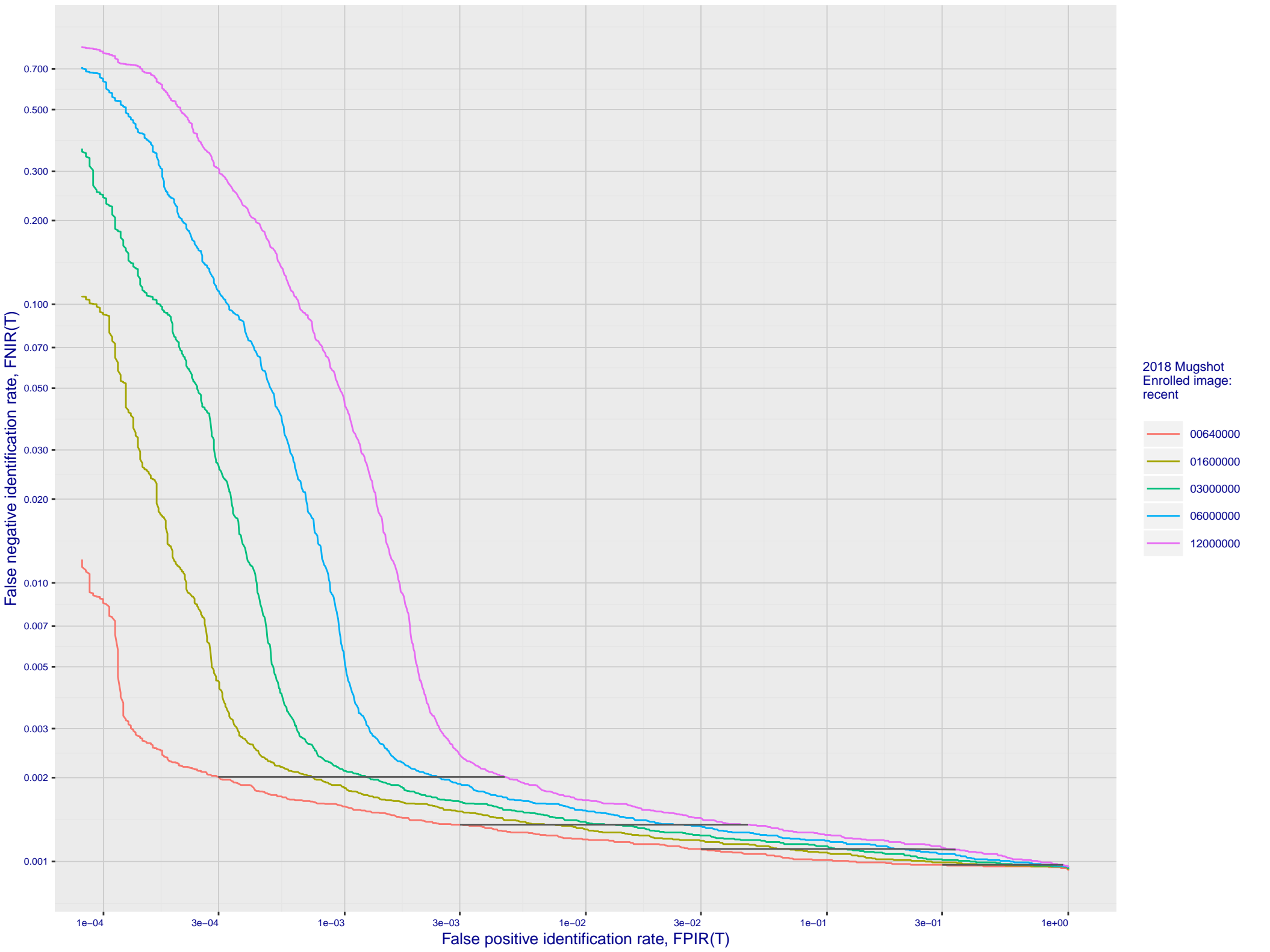
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



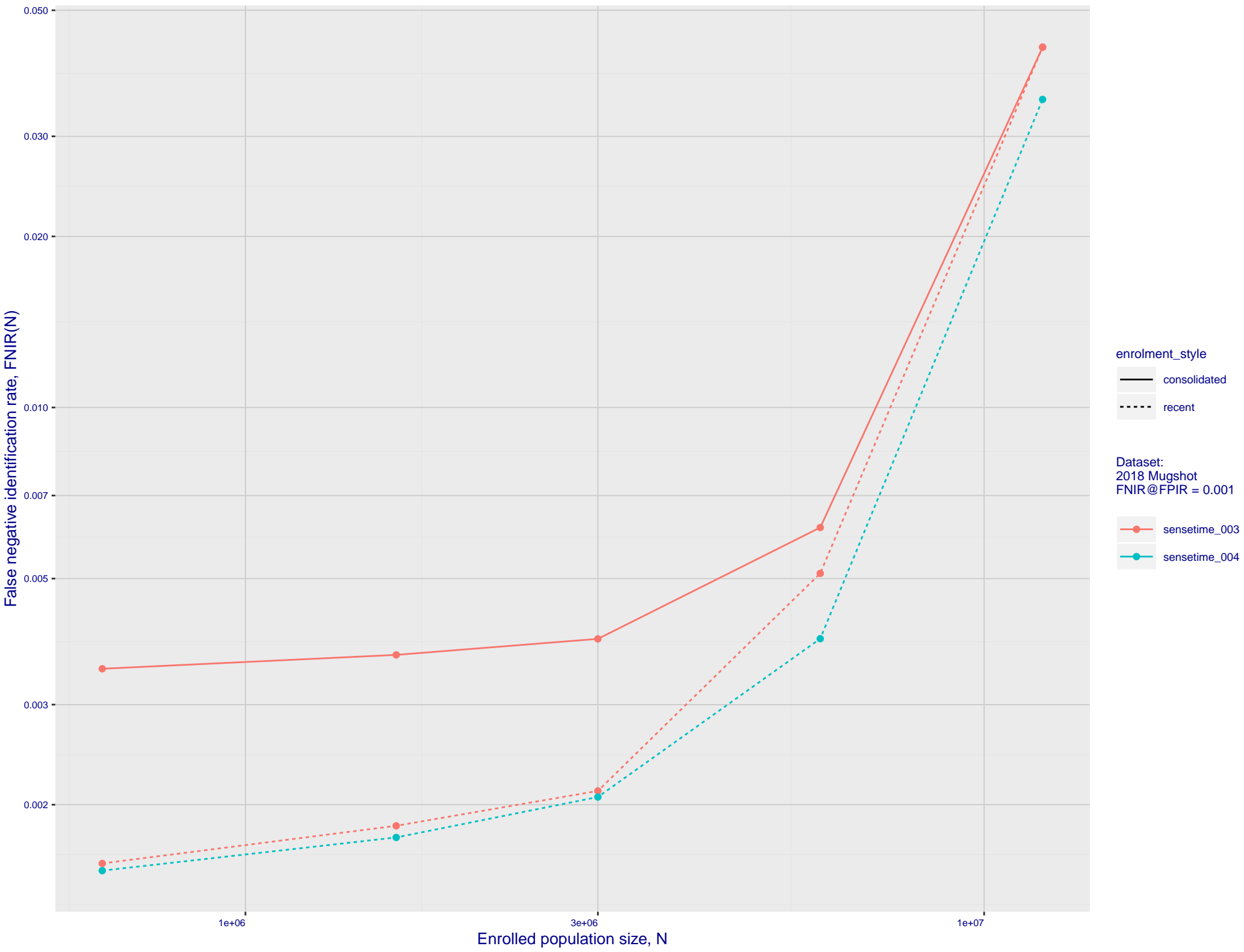
D: FPIR dependence on T by probe type for N = 1600000 subjects



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: [sensetime_003](#)

Developer: [Sensetime Group](#)

Submission Date: [2019_12_02](#)

Template size: 2056 bytes

Template time (2.5 percentile): 907 msec

Template time (median): 911 msec

Template time (97.5 percentile): 991 msec

Frontal mugshot investigation rank 2 --- [FNIR\(1600000, 0, 1\) = 0.0010](#) vs. lowest 0.0010 from [sensetime_004](#)

natural investigation rank 1 --- [FNIR\(1600000, 0, 1\) = 0.0067](#)

natural investigation rank 12 --- [FNIR\(1600000, 0, 1\) = 0.0851](#) vs. lowest 0.0492 from [paravision_005](#)

natural investigation rank 12 --- [FNIR\(1600000, 0, 1\) = 0.0851](#) vs. lowest 0.0492 from [paravision_005](#)

natural investigation rank 8 --- [FNIR\(1600000, 0, 1\) = 0.0026](#) vs. lowest 0.0014 from [visionlabs_009](#)

natural investigation rank 9 --- [FNIR\(1600000, 0, 1\) = 0.0911](#) vs. lowest 0.0694 from [cib_000](#)

Frontal mugshot identification rank 2 --- [FNIR\(1600000, T, L+1\) = 0.0018](#) vs. lowest 0.0018 from [sensetime_004](#)

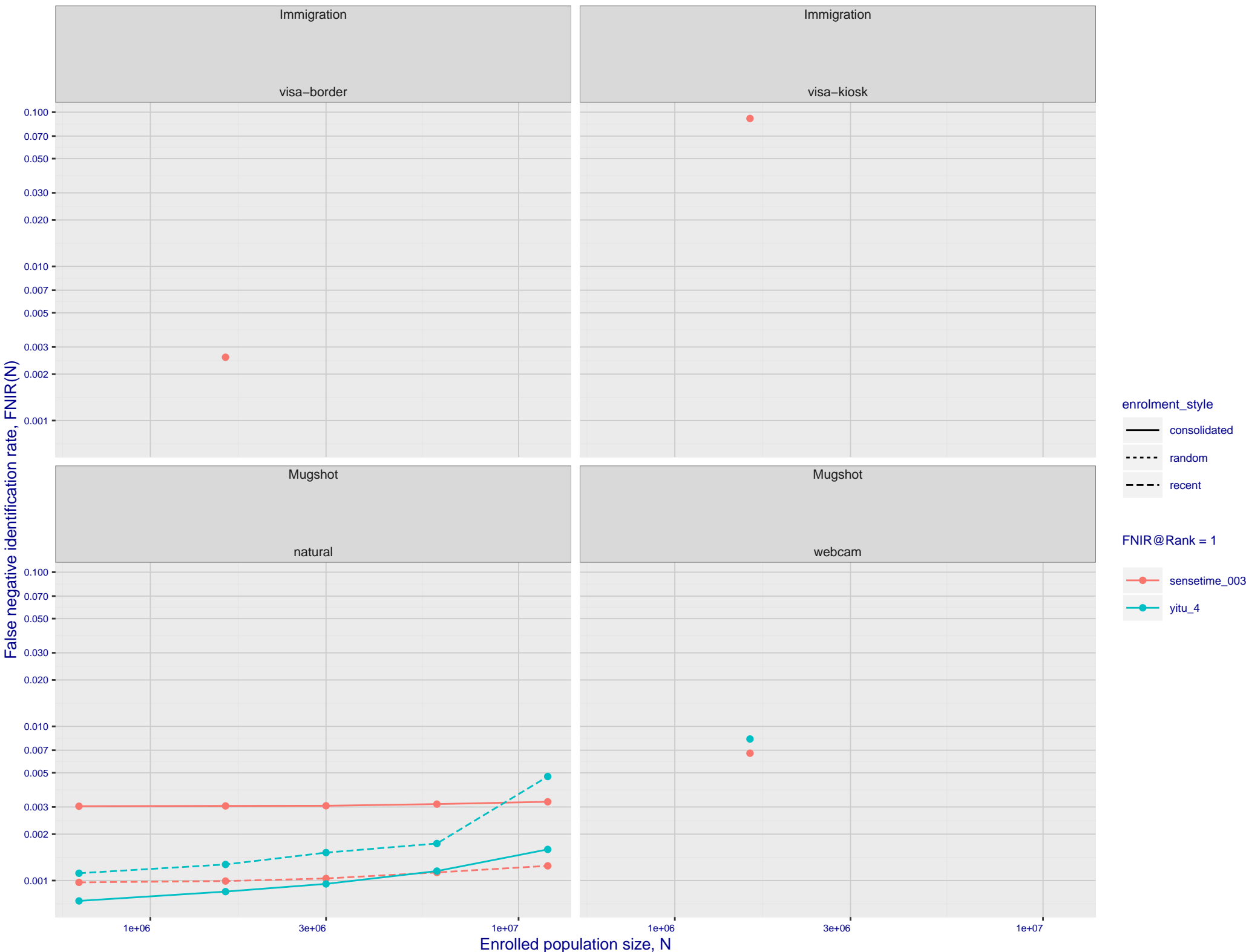
natural identification rank 1 --- [FNIR\(1600000, T, L+1\) = 0.0122](#)

natural identification rank 7 --- [FNIR\(1600000, T, L+1\) = 0.2546](#) vs. lowest 0.1020 from [sensetime_004](#)

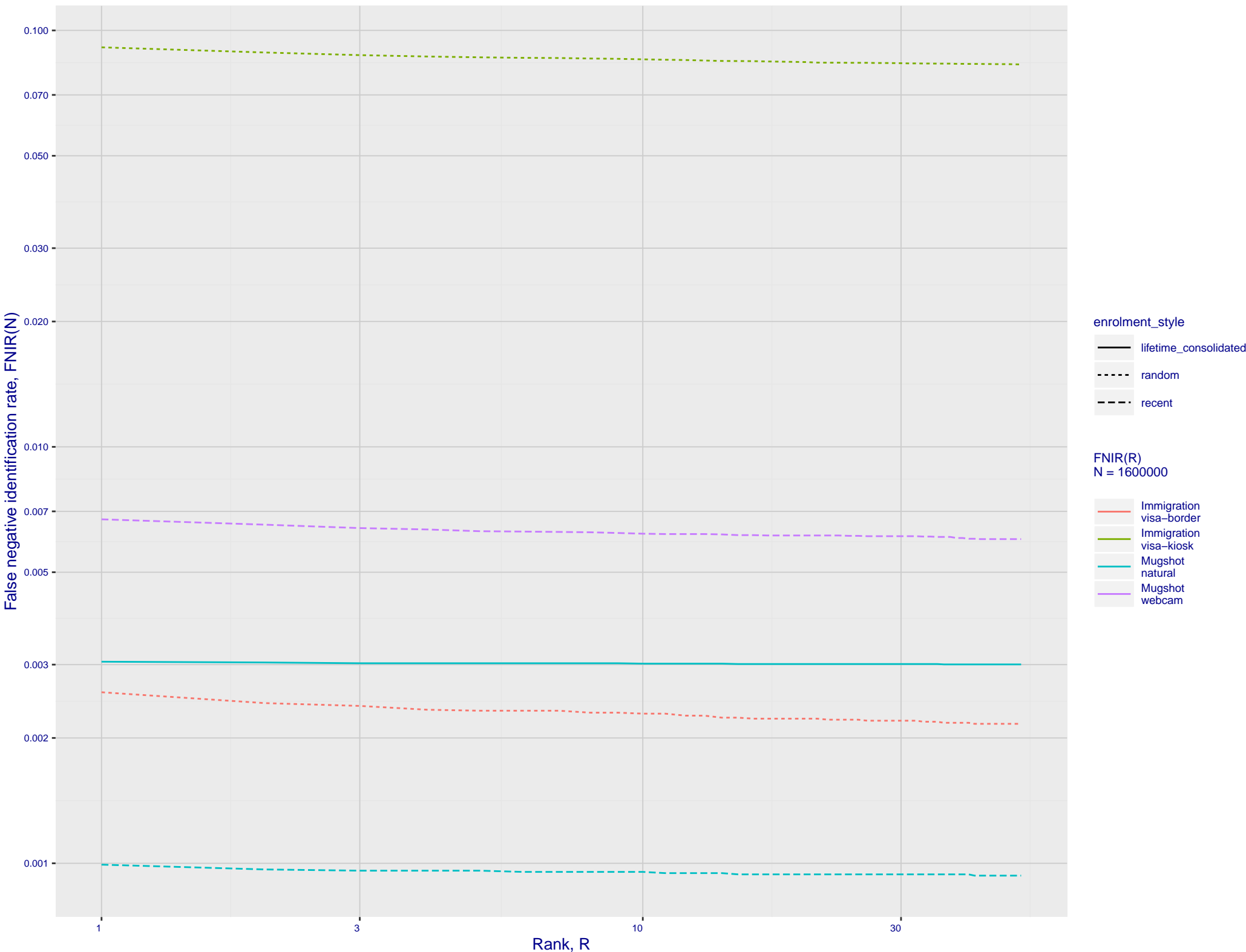
natural identification rank 4 --- [FNIR\(1600000, T, L+1\) = 0.0079](#) vs. lowest 0.0059 from [sensetime_004](#)

natural identification rank 4 --- [FNIR\(1600000, T, L+1\) = 0.1332](#) vs. lowest 0.1129 from [visionlabs_009](#)

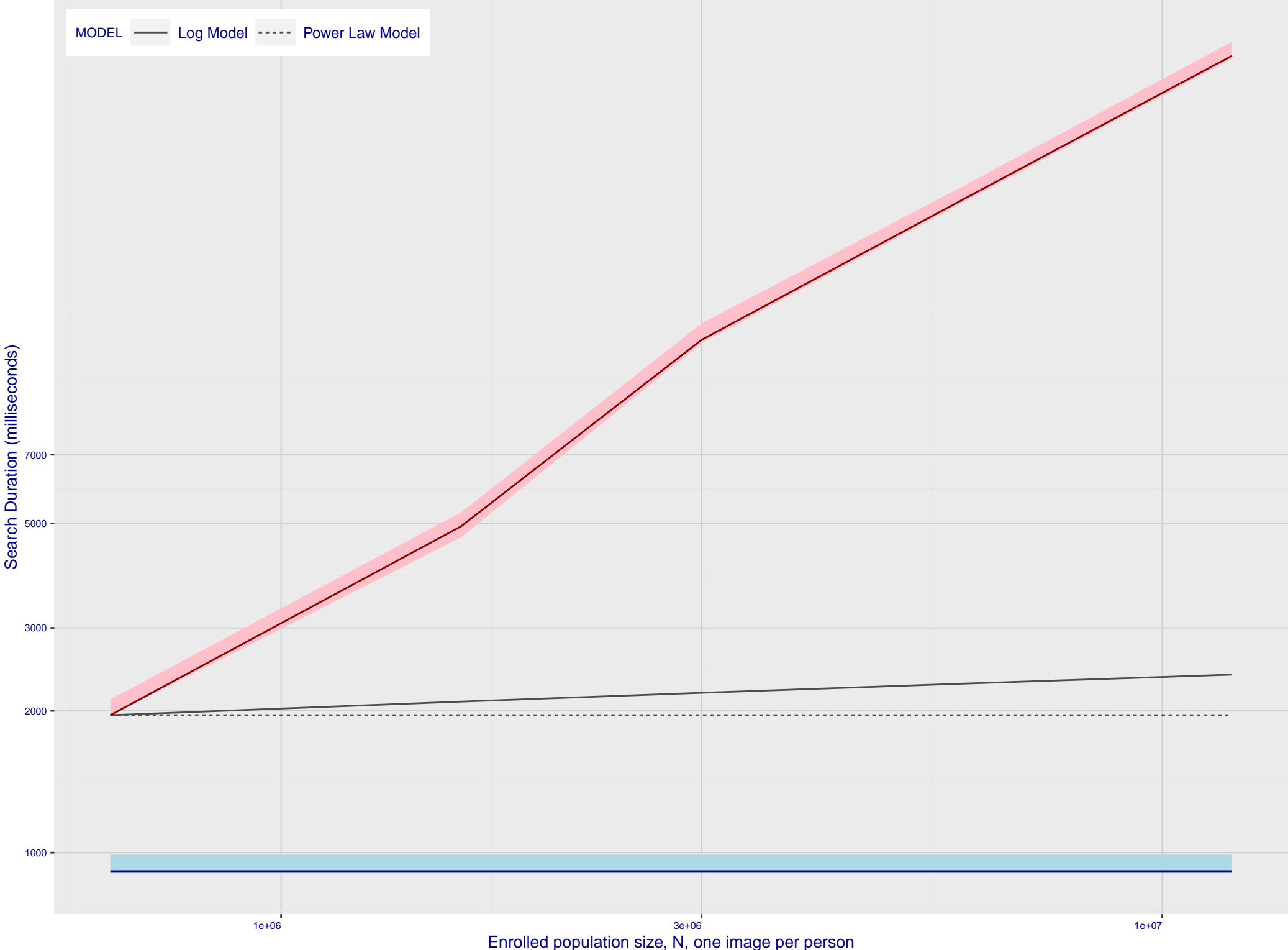
H: Investigational mode: FNIR(N, 1, 0) vs. most accurate (yitu_4)



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

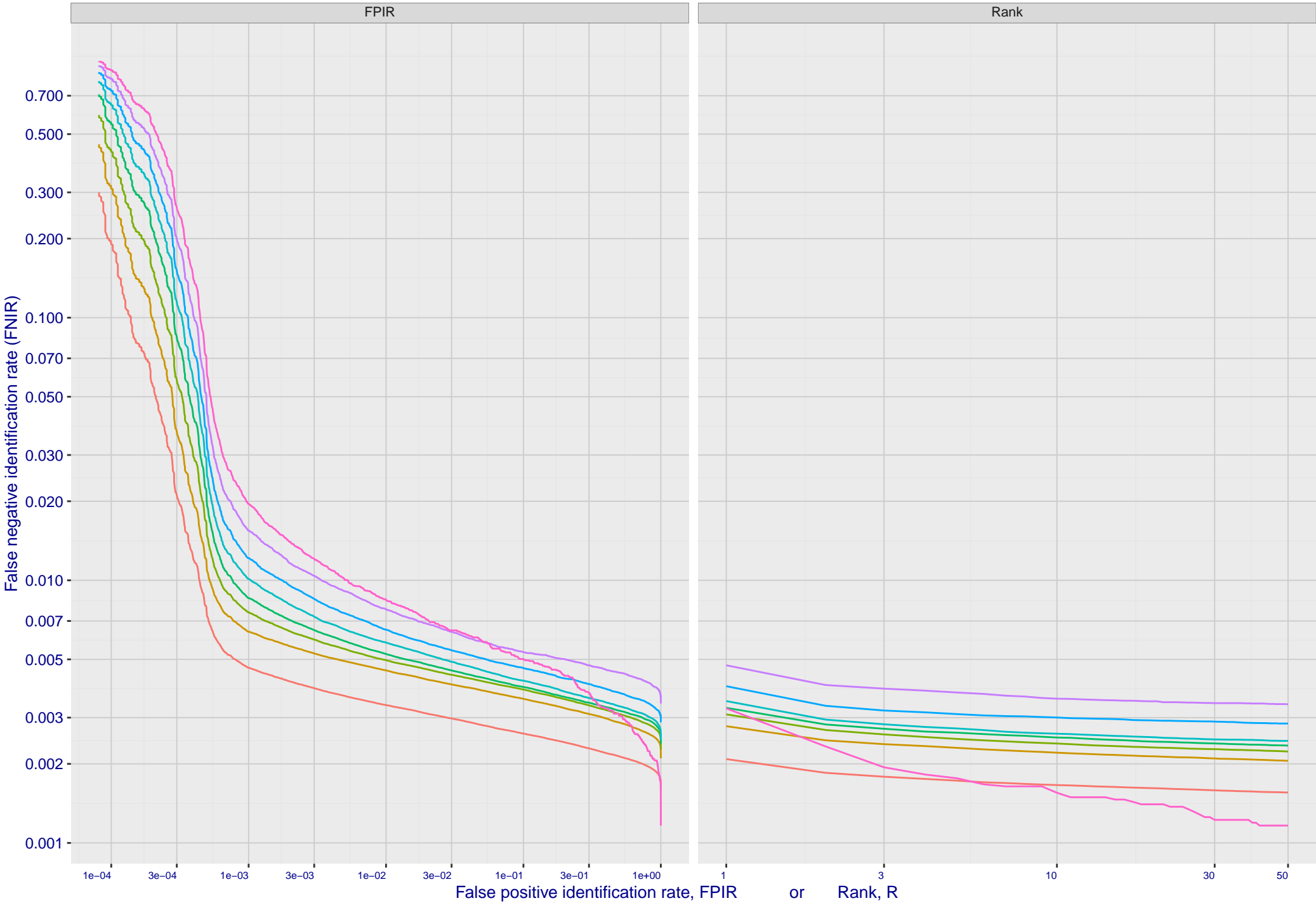


Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power-law models are fit to the first two (N,T) observations



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

