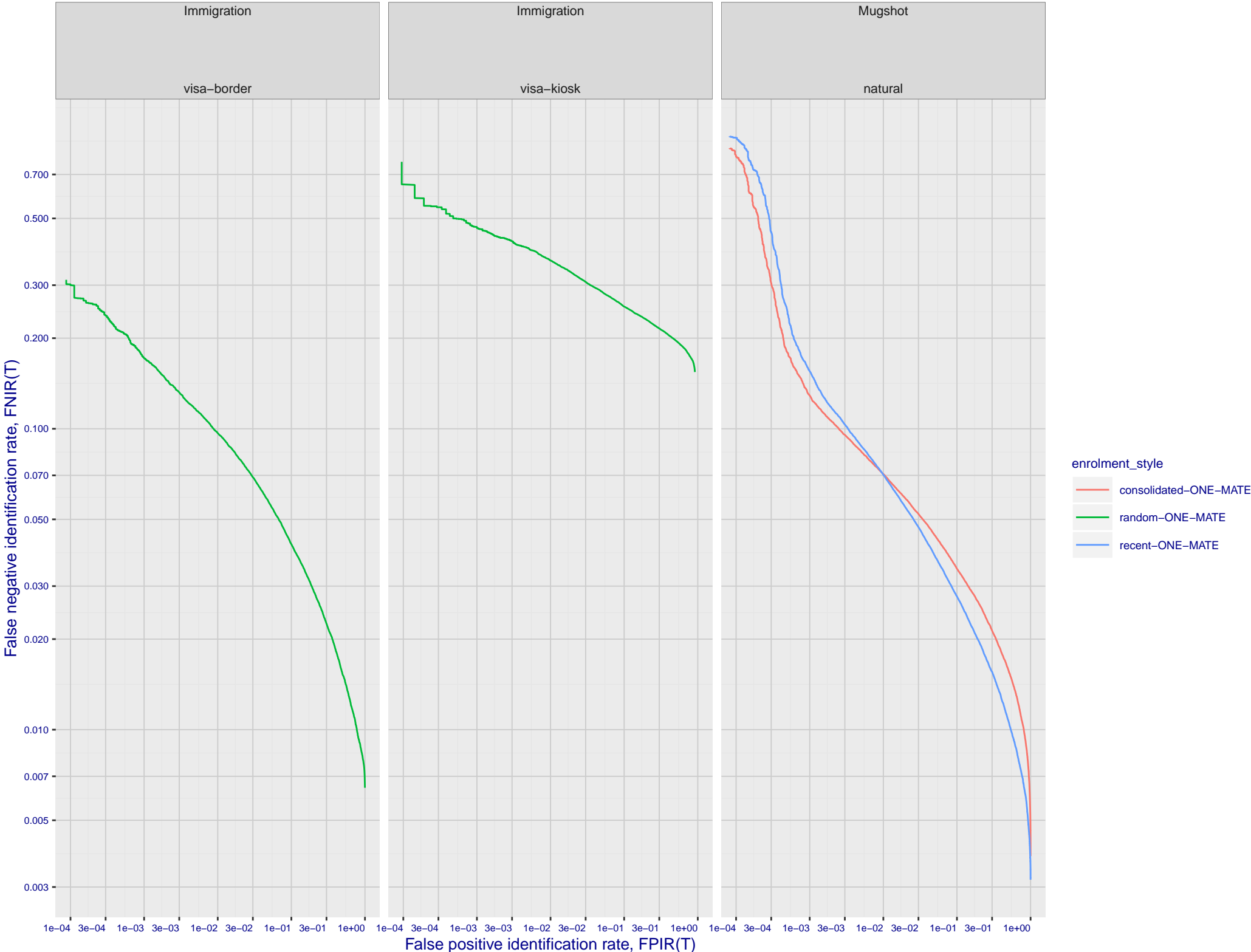
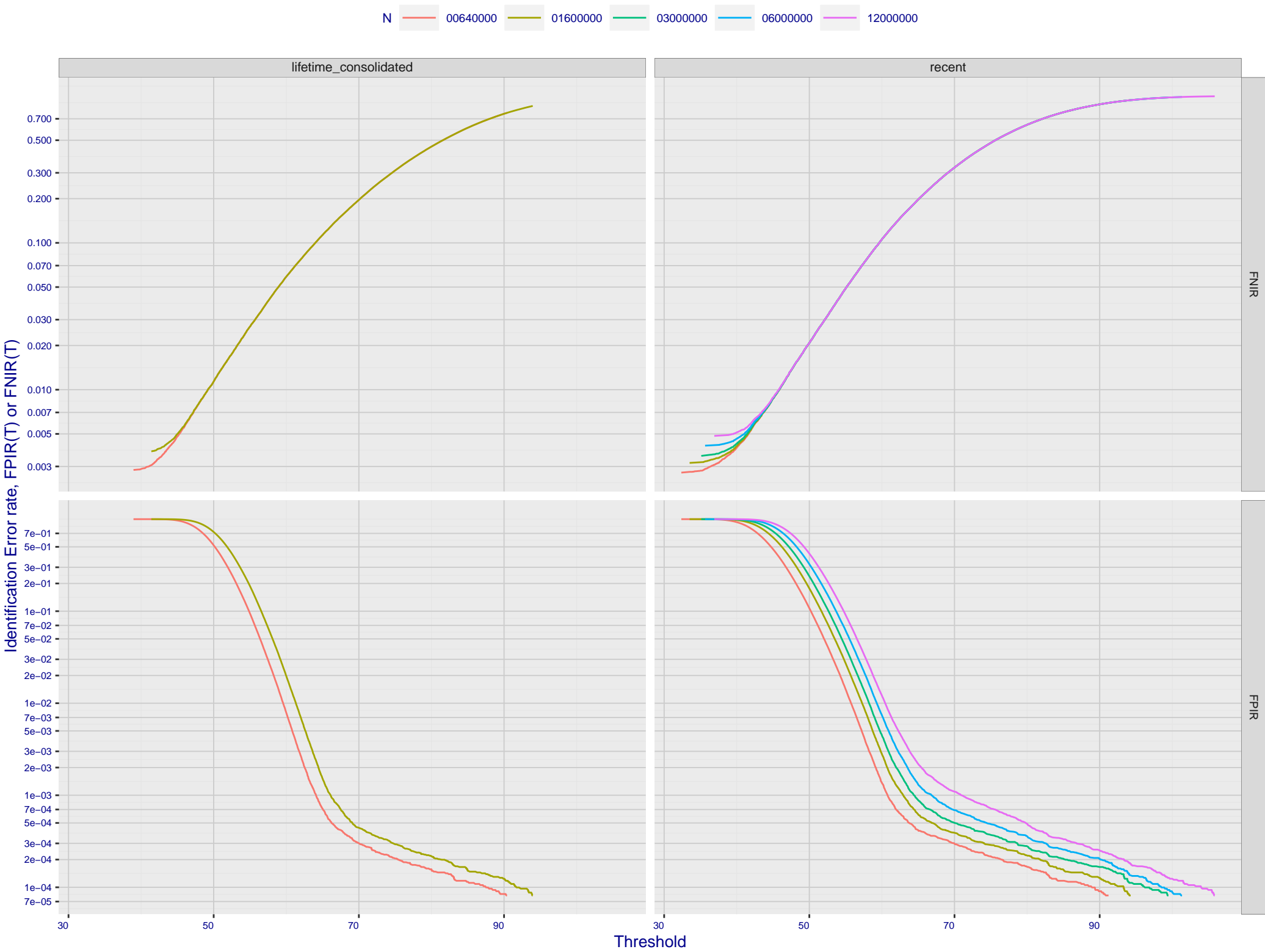


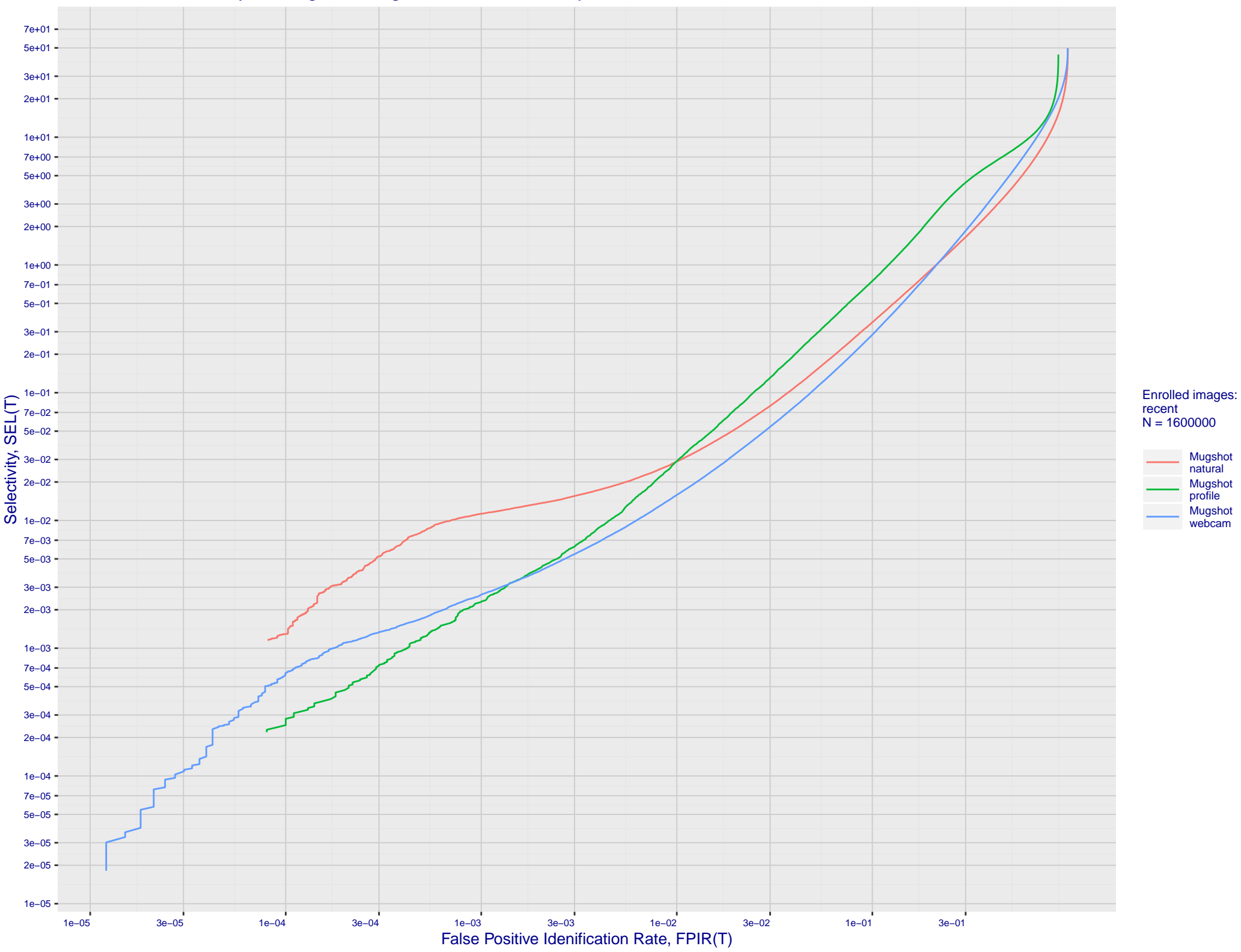
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



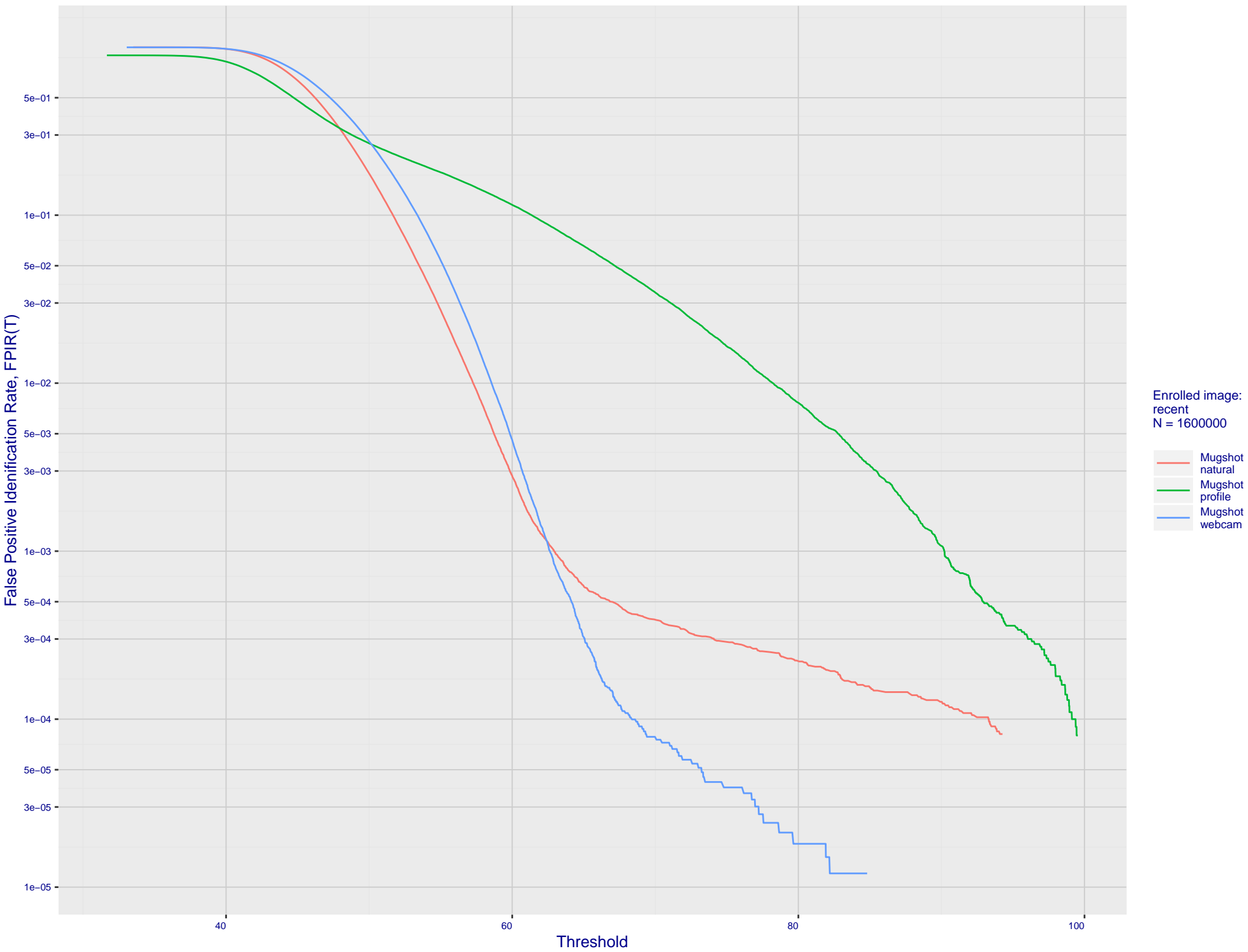
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



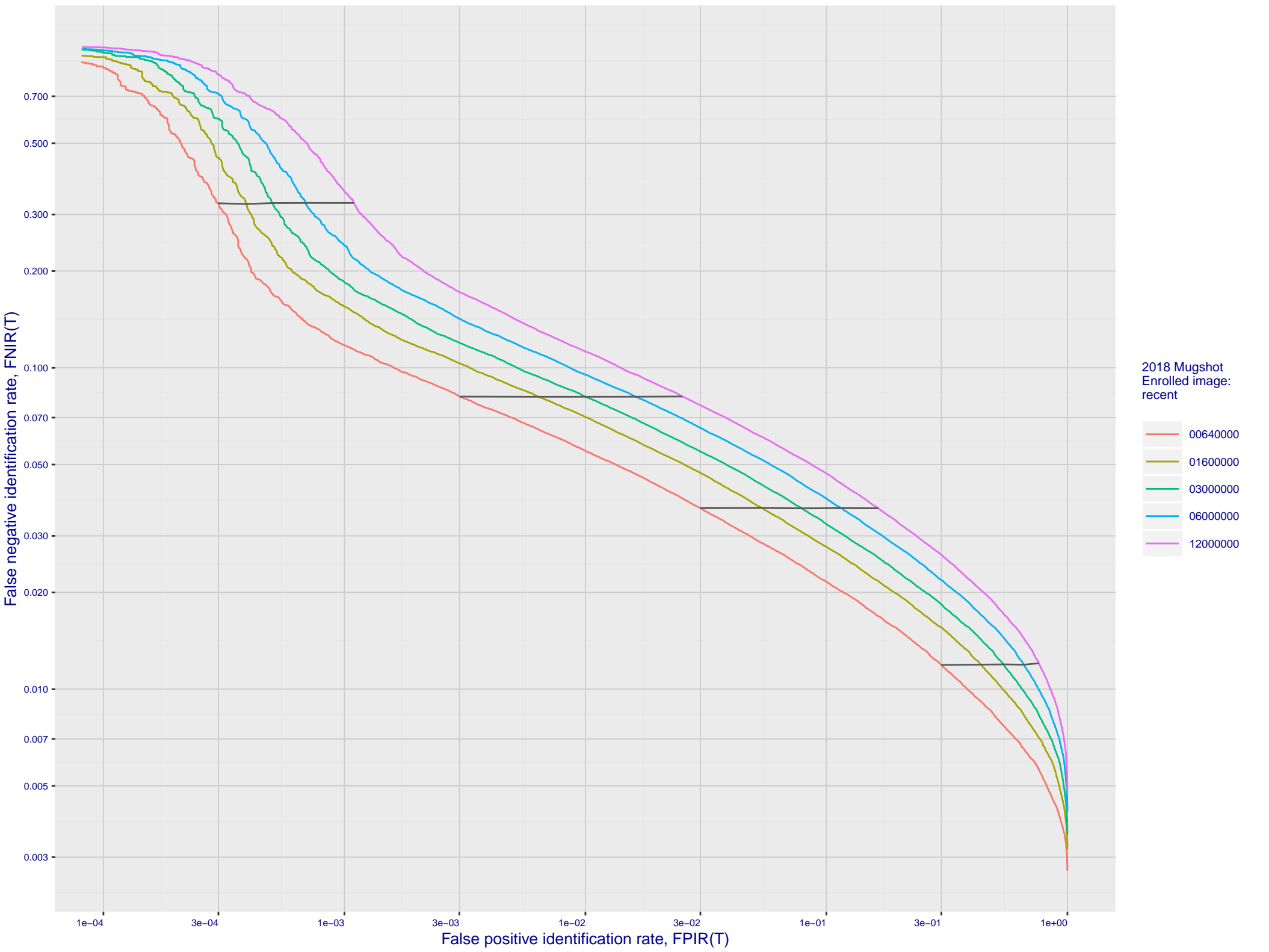
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



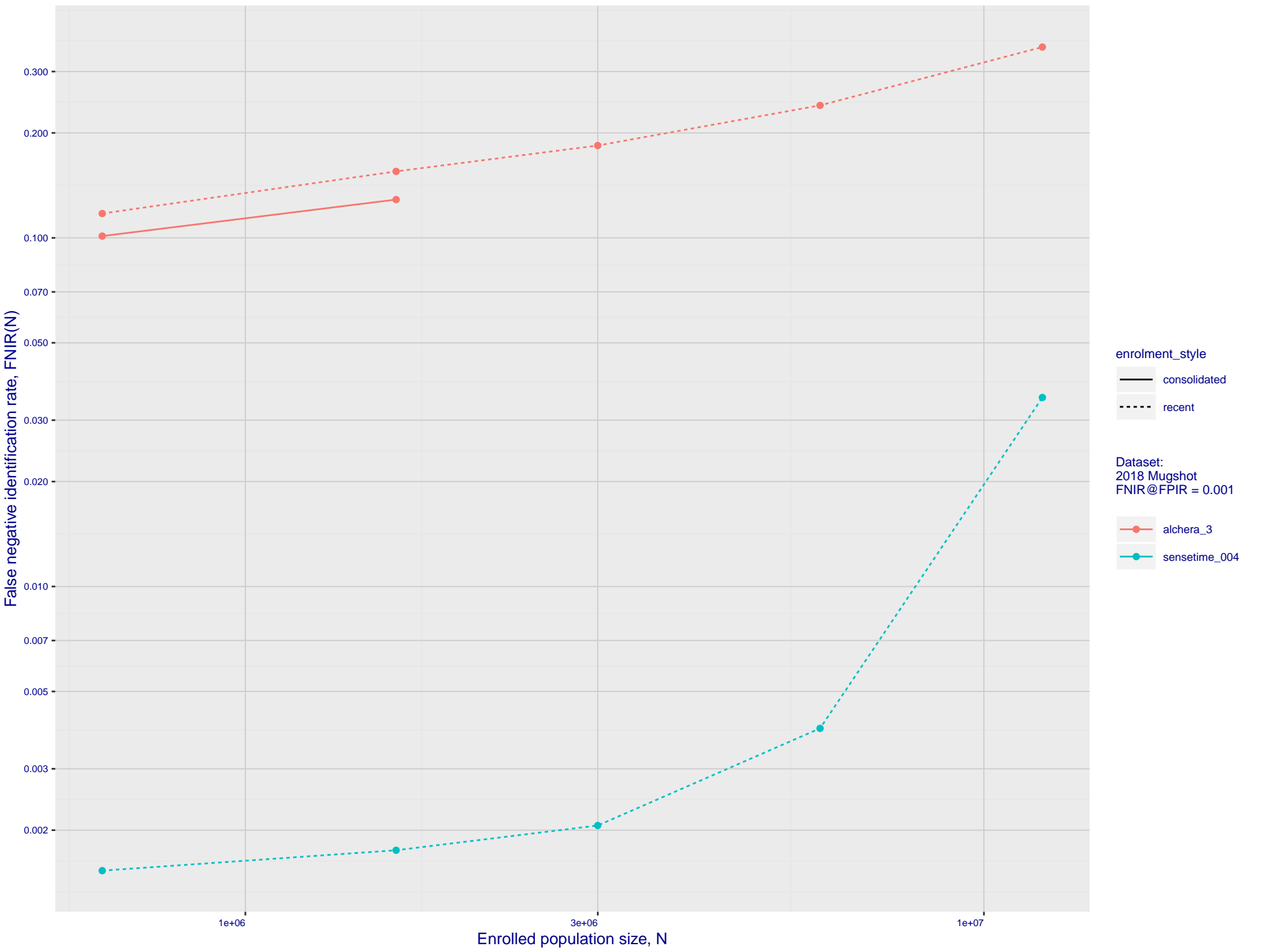
D: FPIR dependence on T by probe type for N = 1600000 subjects



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: alchera_3

Developer: Alchera Inc

Submission Date: 2018_10_30

Template size: 2048 bytes

Template time (2.5 percentile): 515 msec

Template time (median): 532 msec

Template time (97.5 percentile): 720 msec

Frontal mugshot investigation rank 116 --- FNIR(1600000, 0, 1) = 0.0104 vs. lowest 0.0010 from sensetime_004

natural investigation rank 105 --- FNIR(1600000, 0, 1) = 0.0352 vs. lowest 0.0067 from sensetime_003

natural investigation rank 125 --- FNIR(1600000, 0, 1) = 0.5889 vs. lowest 0.0492 from paravision_005

natural investigation rank 125 --- FNIR(1600000, 0, 1) = 0.5889 vs. lowest 0.0492 from paravision_005

natural investigation rank 55 --- FNIR(1600000, 0, 1) = 0.0165 vs. lowest 0.0014 from visionlabs_009

natural investigation rank 60 --- FNIR(1600000, 0, 1) = 0.2059 vs. lowest 0.0694 from cib_000

Frontal mugshot identification rank 145 --- FNIR(1600000, T, L+1) = 0.1551 vs. lowest 0.0018 from sensetime_004

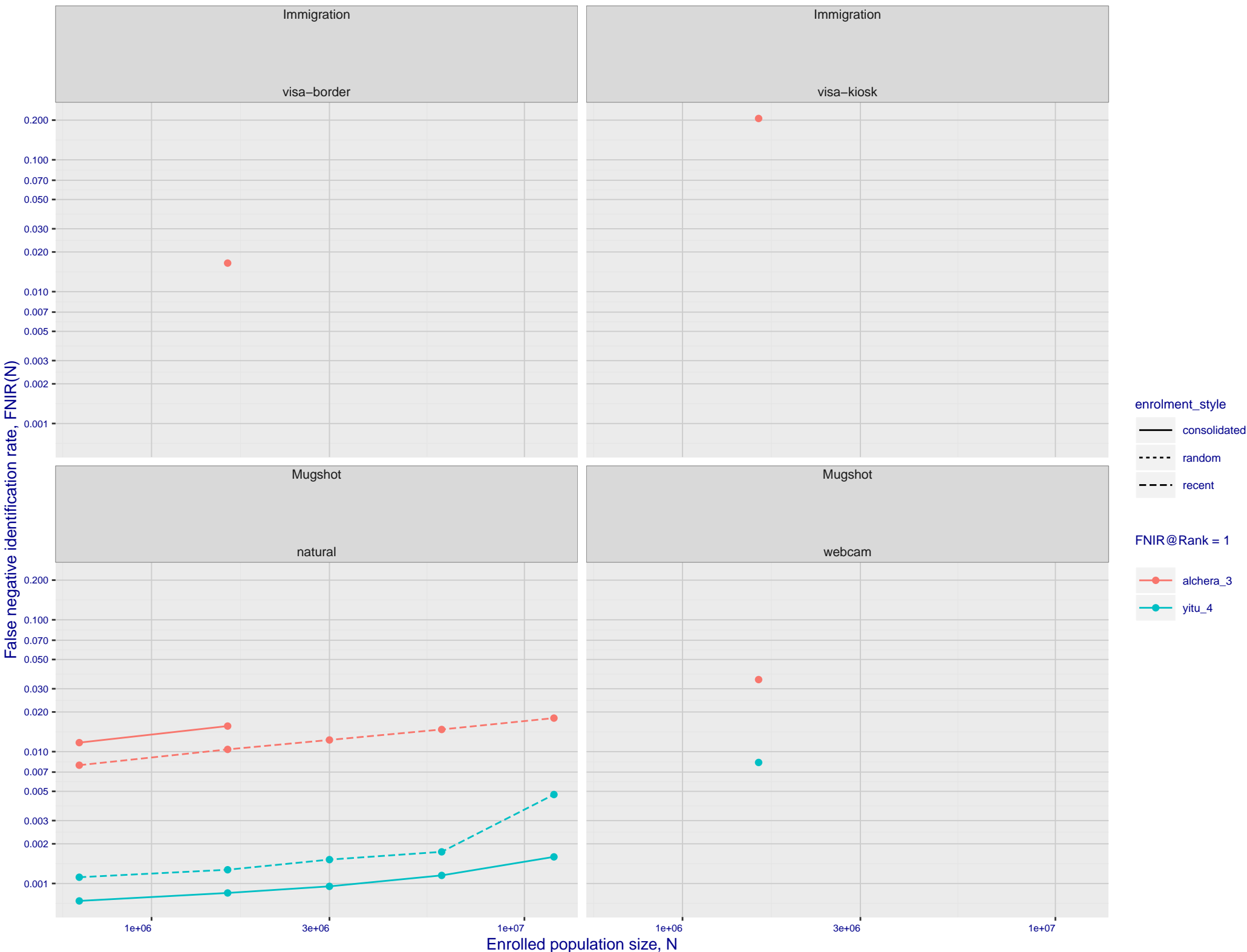
natural identification rank 125 --- FNIR(1600000, T, L+1) = 0.2388 vs. lowest 0.0122 from sensetime_003

natural identification rank 132 --- FNIR(1600000, T, L+1) = 0.9989 vs. lowest 0.1020 from sensetime_004

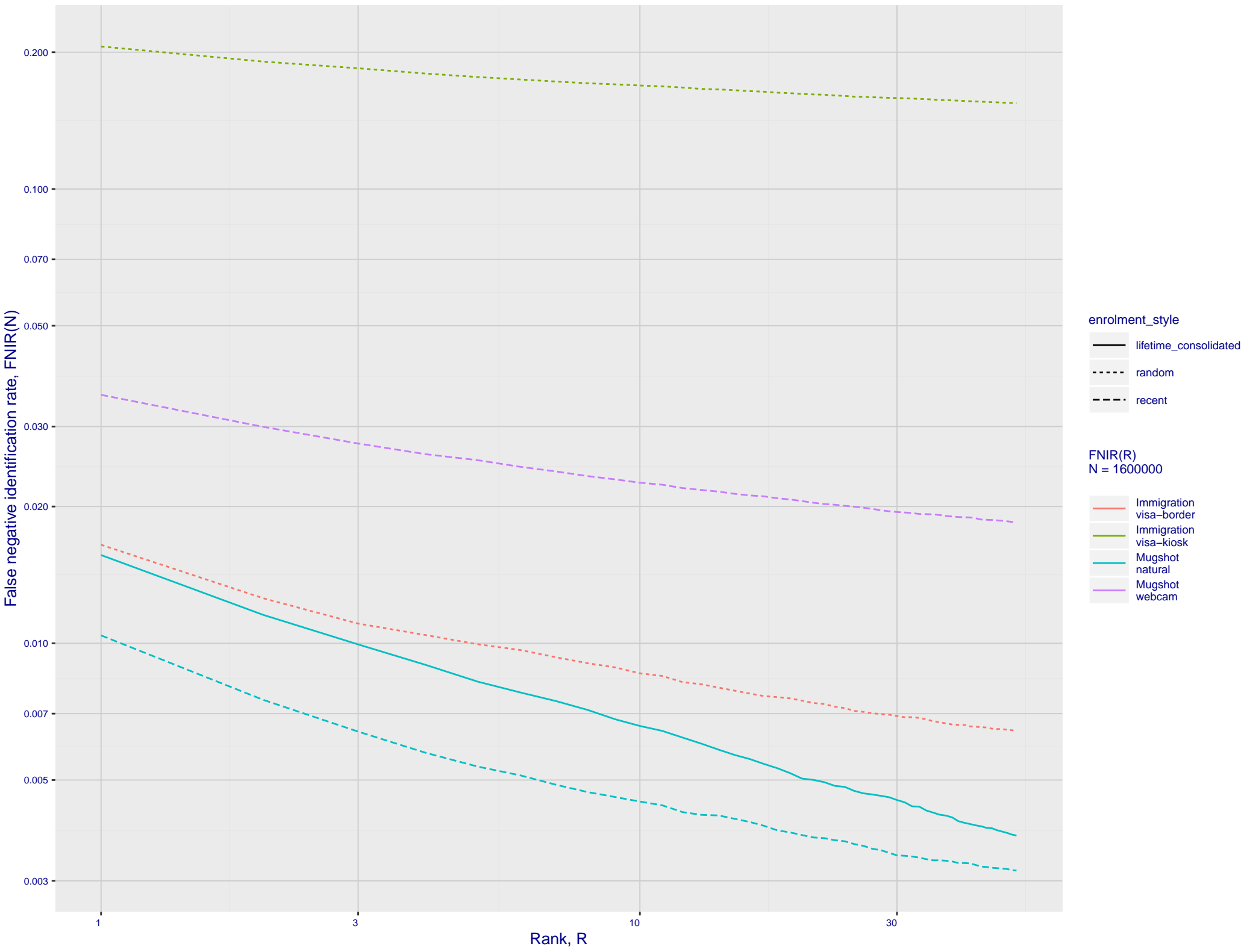
natural identification rank 63 --- FNIR(1600000, T, L+1) = 0.1717 vs. lowest 0.0059 from sensetime_004

natural identification rank 44 --- FNIR(1600000, T, L+1) = 0.4684 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

