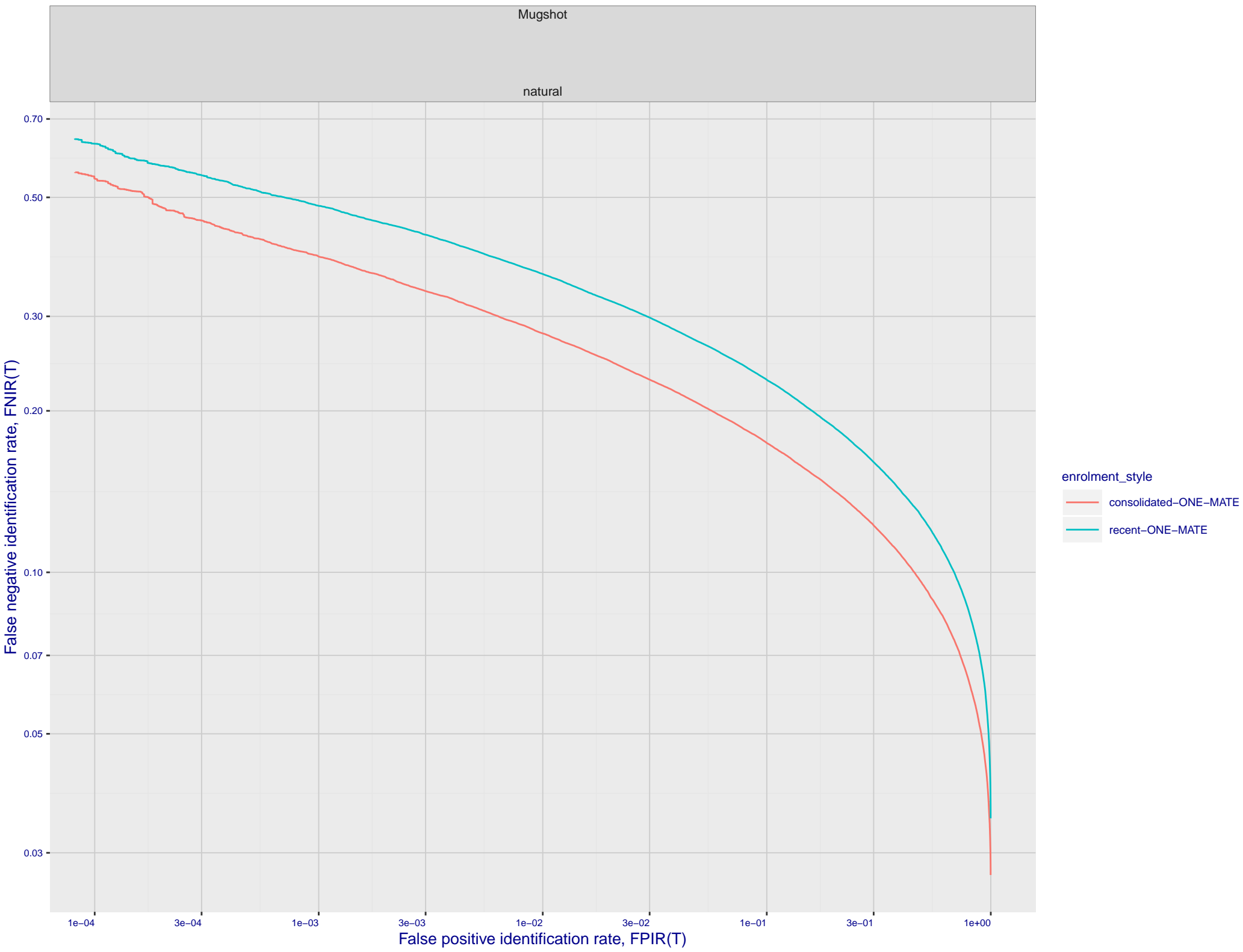
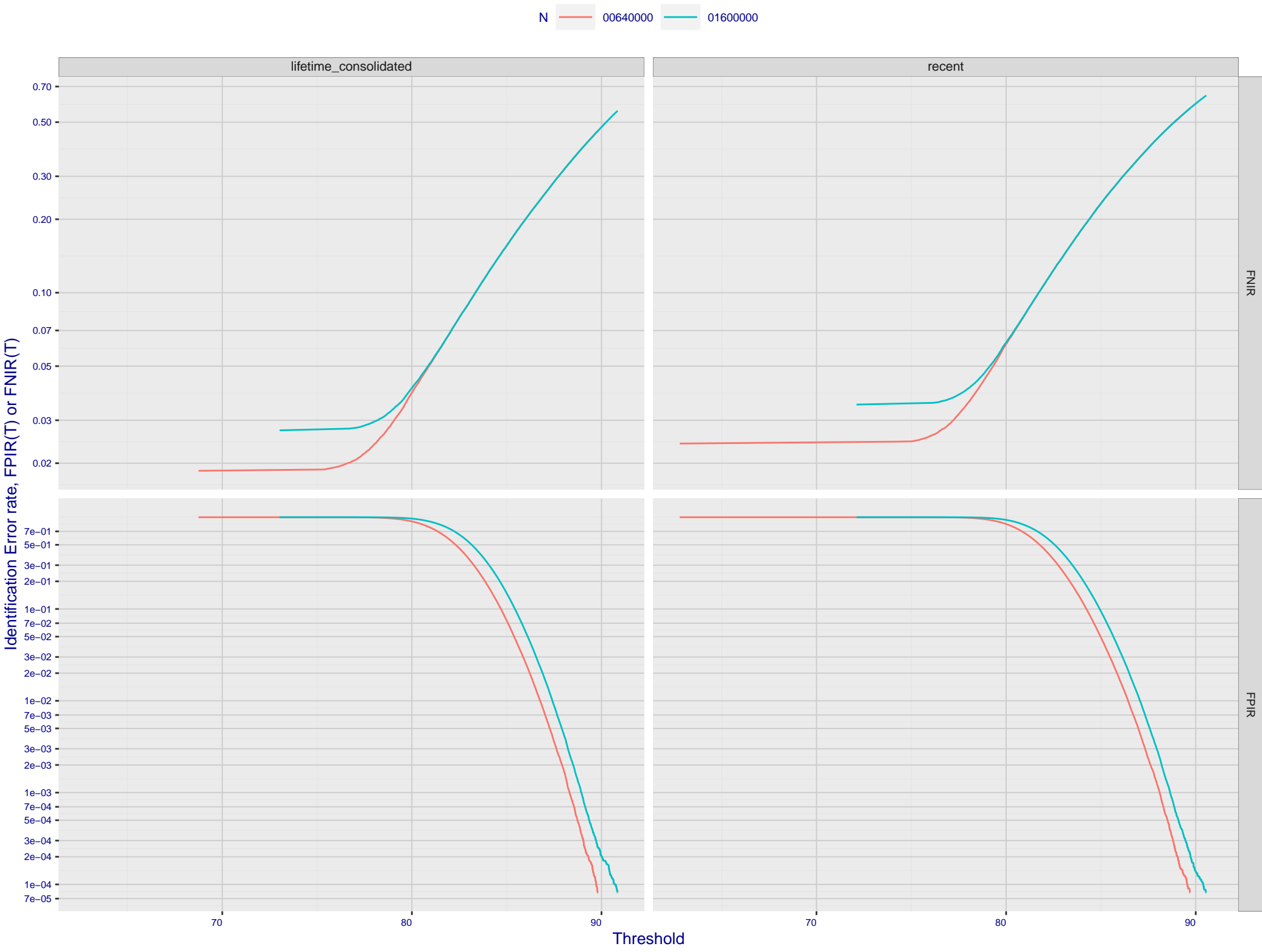


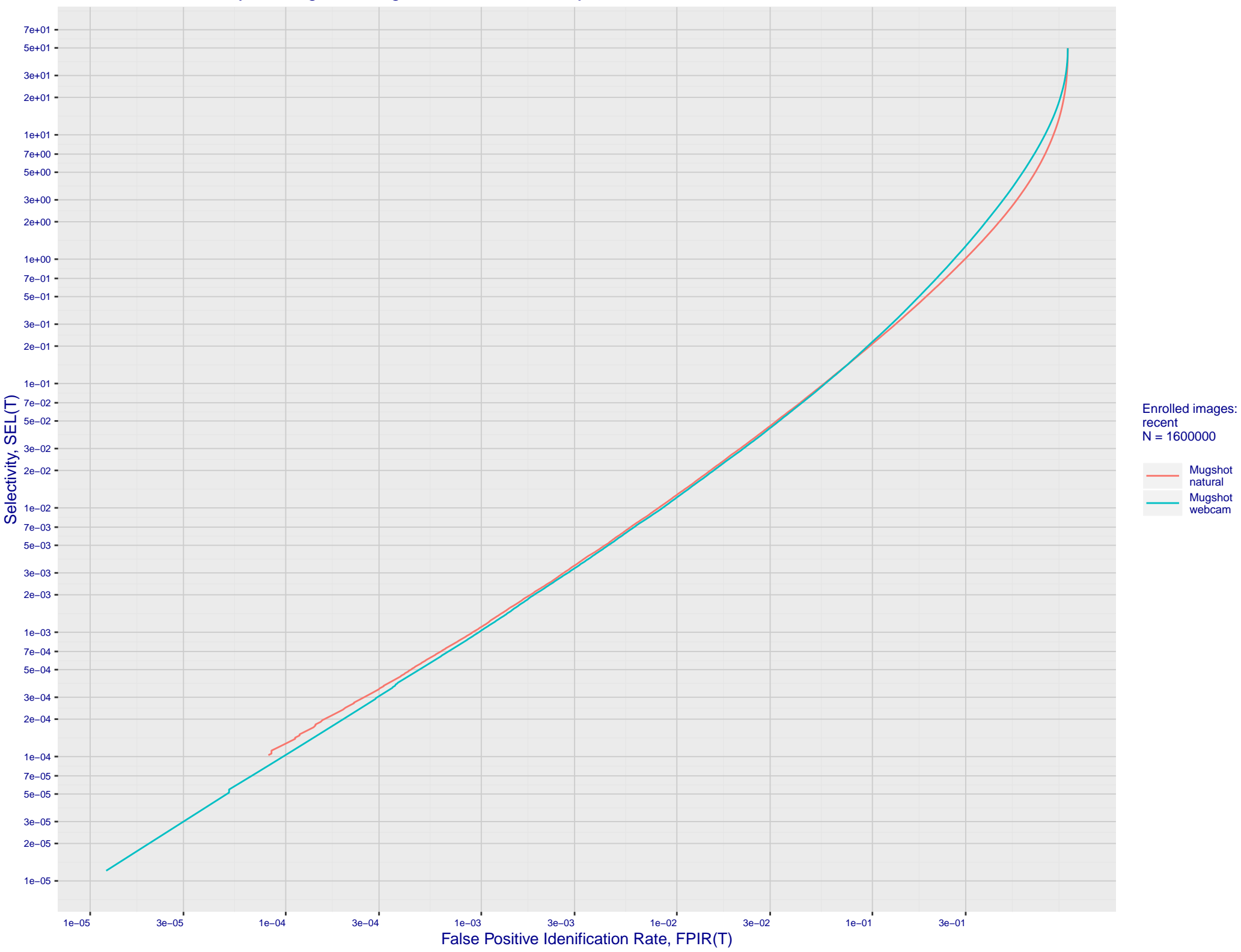
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



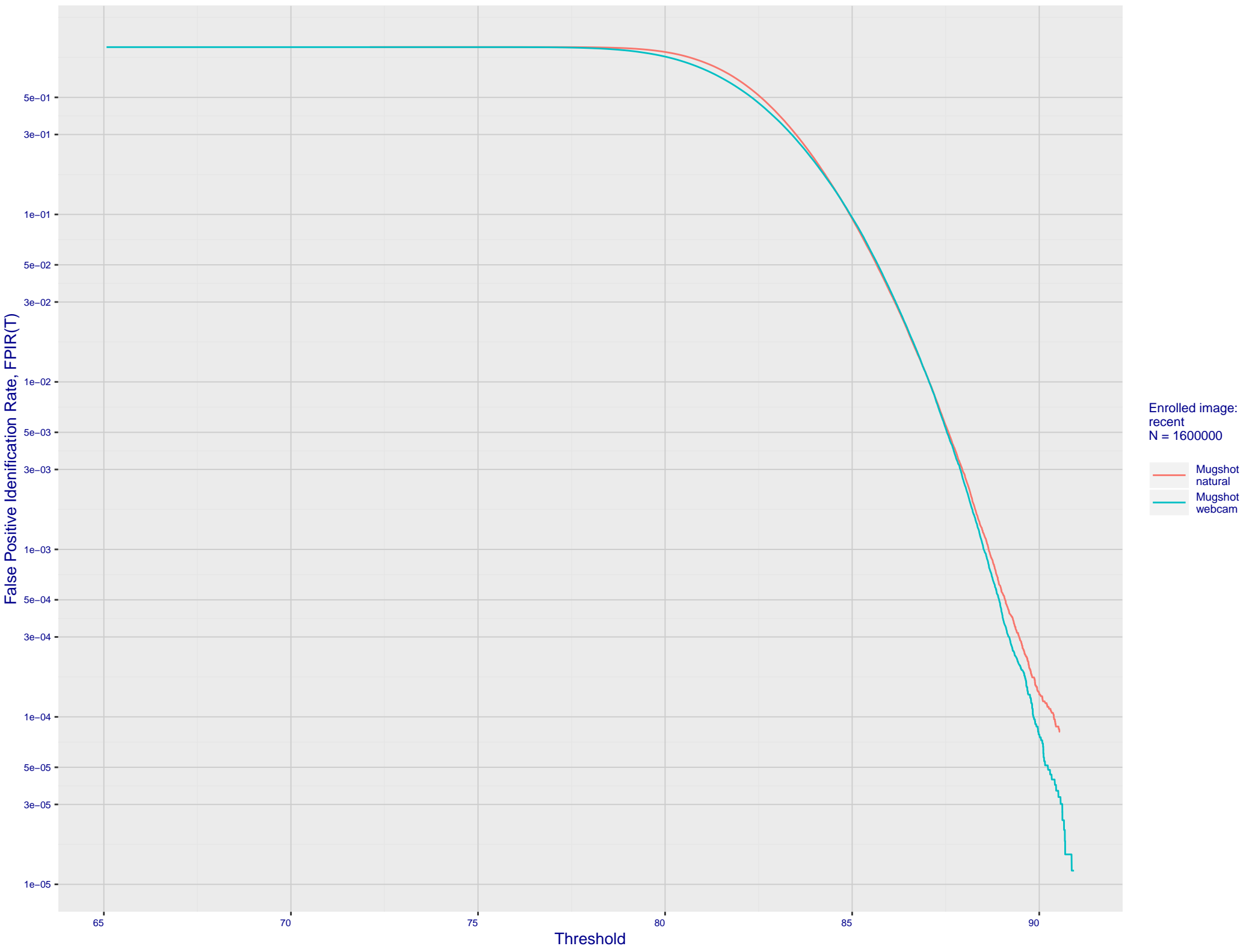
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



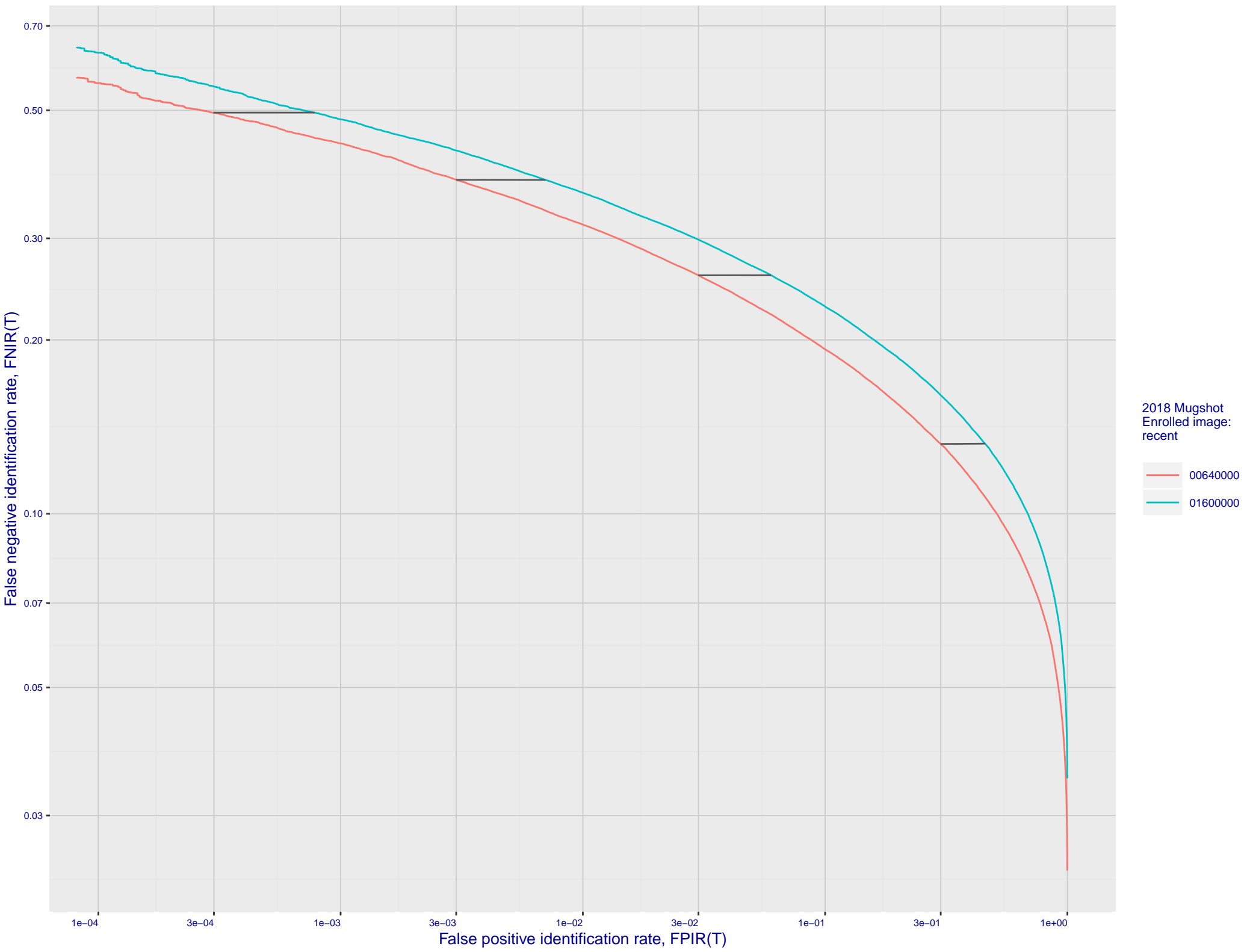
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



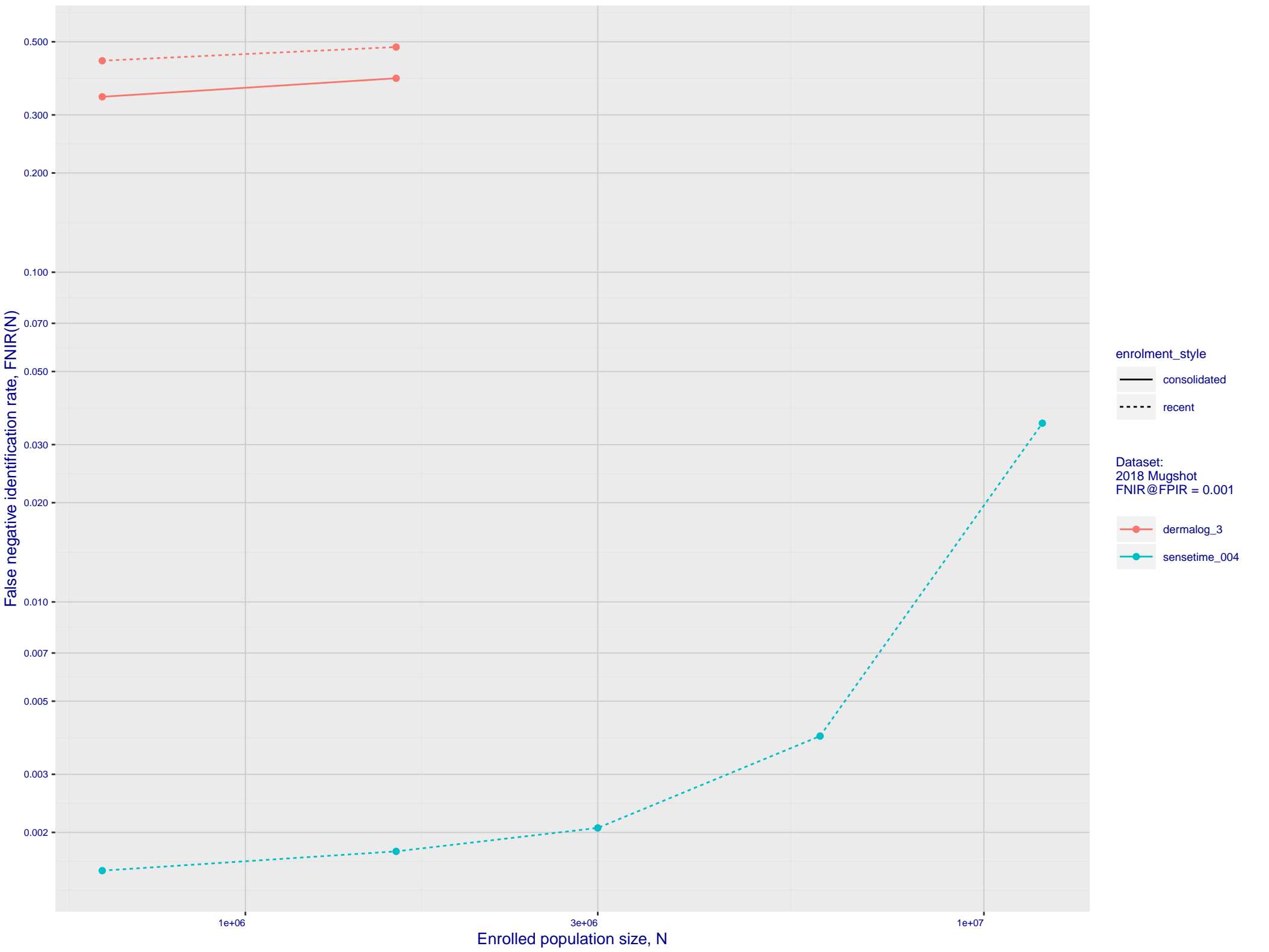
D: FPIR dependence on T by probe type for N = 1600000 subjects



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: dermalog\_3

Developer: Dermalog

Submission Date: 2018\_06\_21

Template size: 128 bytes

Template time (2.5 percentile): 193 msec

Template time (median): 208 msec

Template time (97.5 percentile): 249 msec

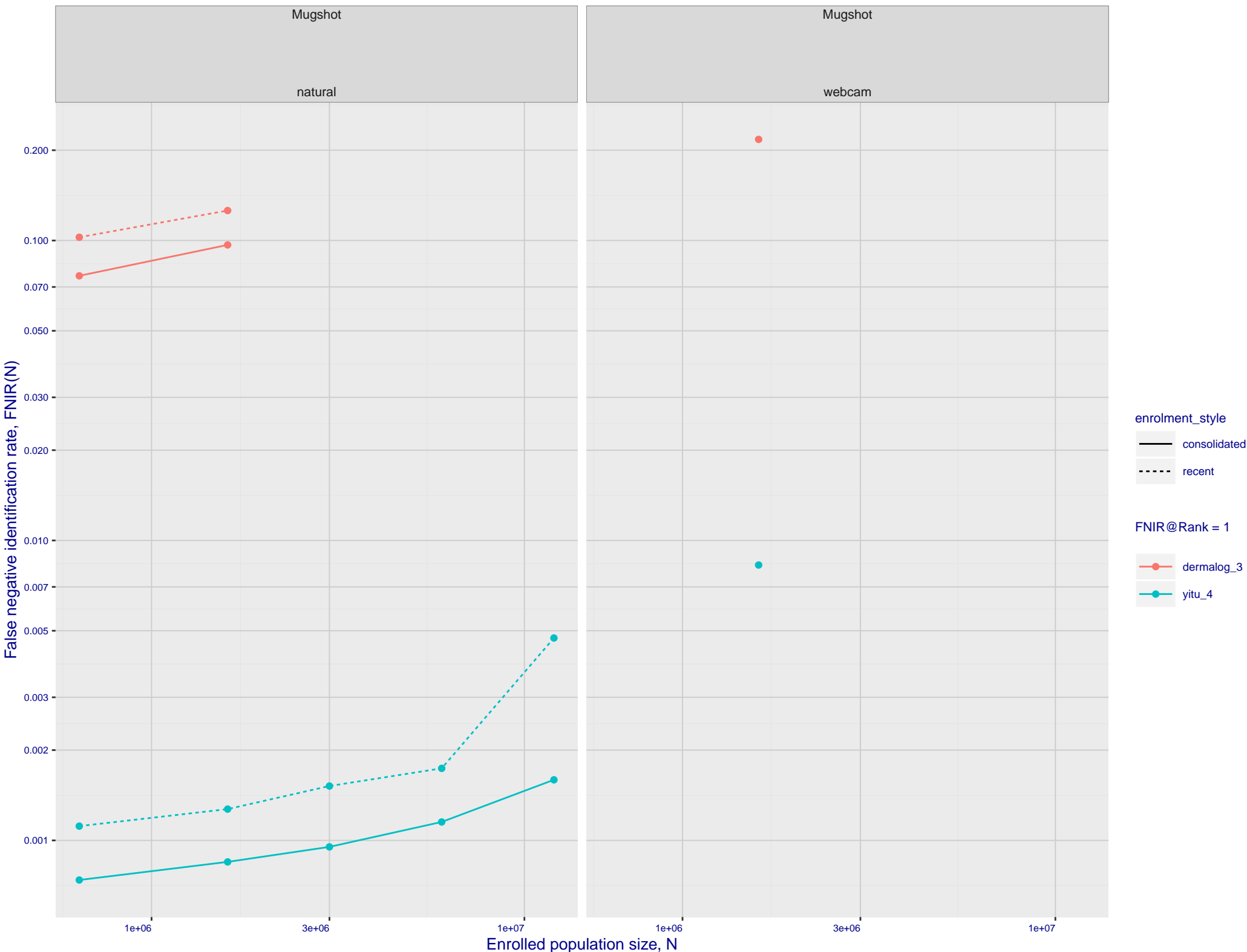
Frontal mugshot investigation rank 209 --  $\text{FNIR}(1600000, 0, 1) = 0.1259$  vs. lowest 0.0010 from sensetime\_004

natural investigation rank 181 --  $\text{FNIR}(1600000, 0, 1) = 0.2174$  vs. lowest 0.0067 from sensetime\_003

Frontal mugshot identification rank 204 --  $\text{FNIR}(1600000, T, L+1) = 0.4819$  vs. lowest 0.0018 from sensetime\_004

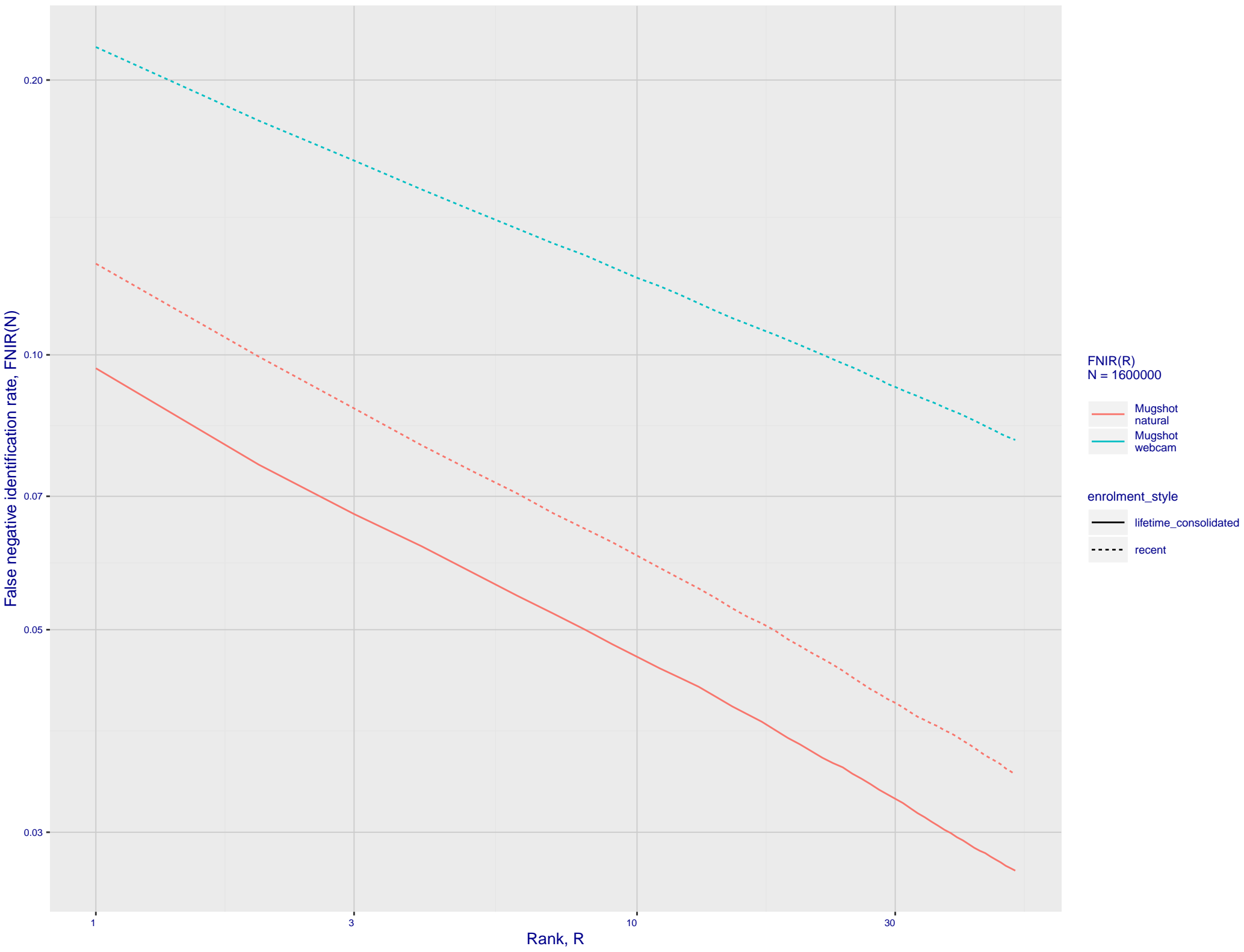
natural identification rank 180 --  $\text{FNIR}(1600000, T, L+1) = 0.6547$  vs. lowest 0.0122 from sensetime\_003

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

