

Identity-by-descent (IBD) detection

HGDP
1kGP
(4,091)

HPRCv2
Samples
(232)

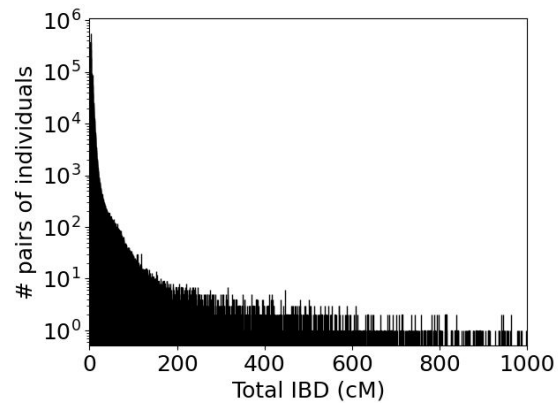
Labelled
data
(4,091)

VCF QC

IBD
segments

IBD QC

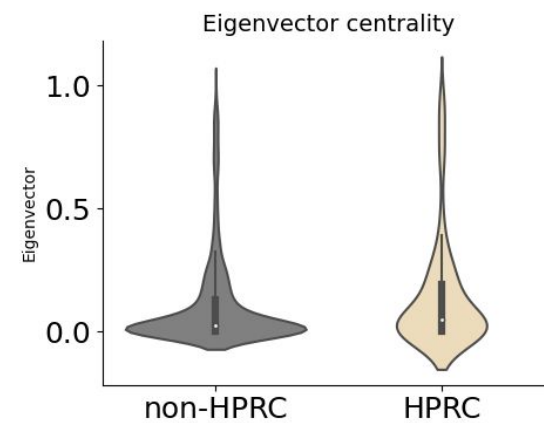
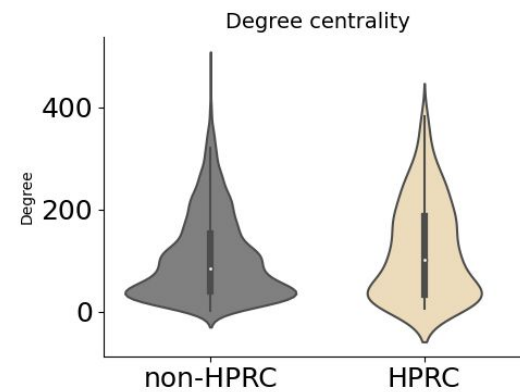
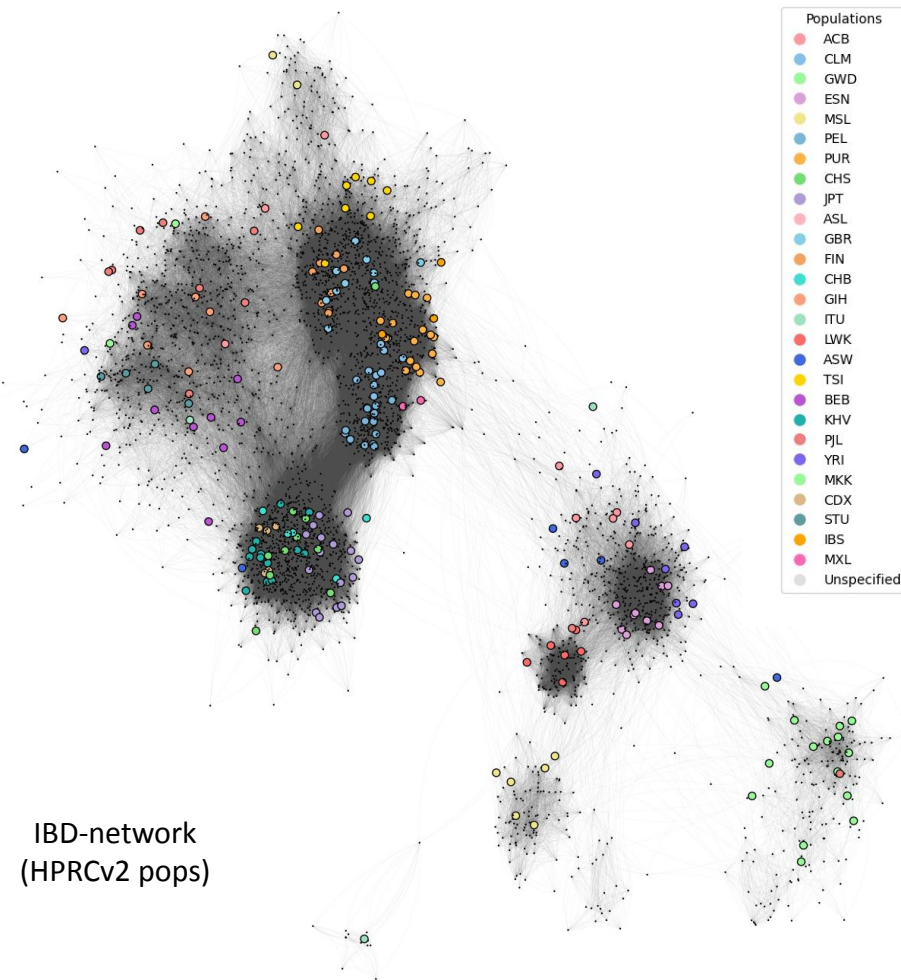
Total IBD per pair



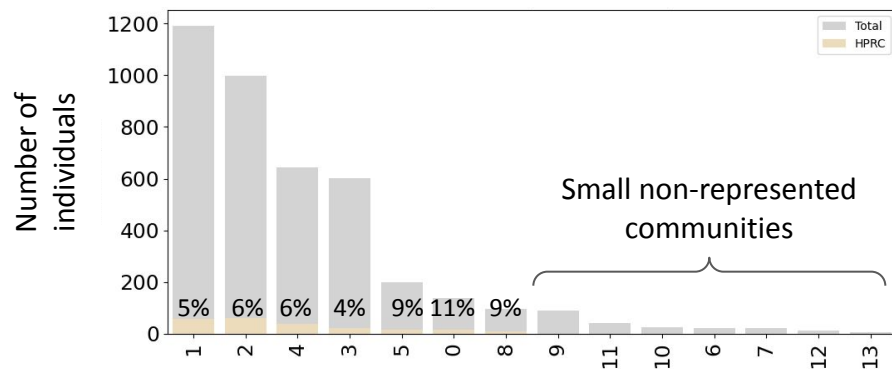
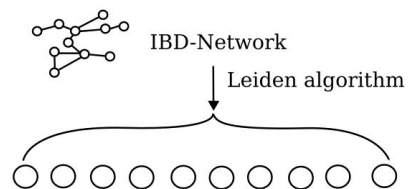
IBD-network

● HPRCv2 samples

Well-distributed HPRCv2
selected samples

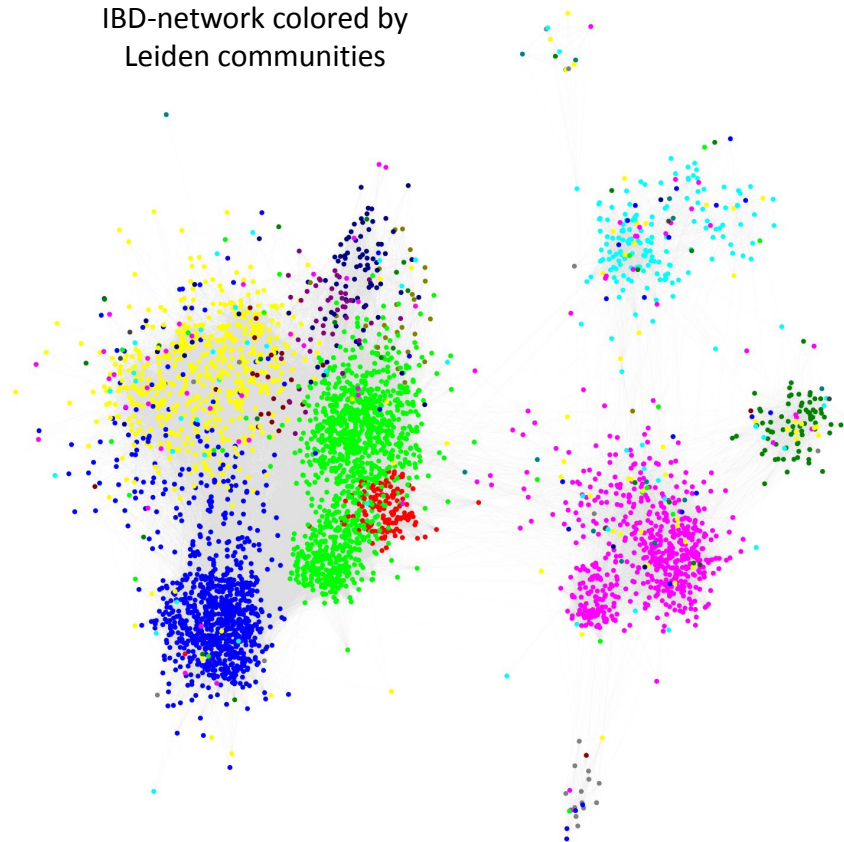


Similar centrality
measures in HPRCv2 the
rest of HGDP-1kGP



Some small HGDP-1kGP communities (detected by Leiden) are yet unexplored in HPRCv2

IBD-network colored by Leiden communities

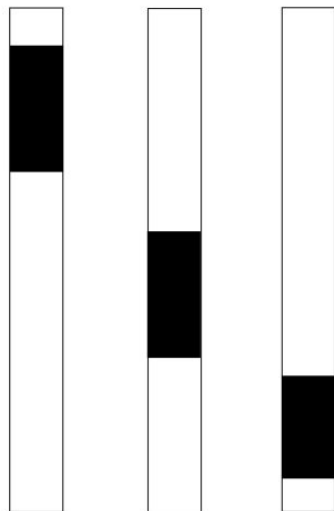


Other IBD applications in sample selection

HPRCv2



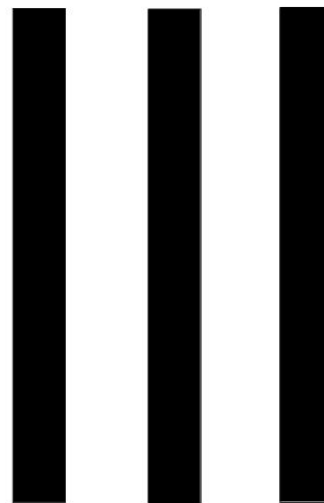
HGDP-1kGP



HGDP
1kGP



HPRCv2



Haplotype informativeness: Compute the amount of cM explained by IBD sharing between the selected samples and public resources (HGDP-1kGP).

Proportion covered: Compute the percentage (amount of cM) already explored by IBD sharing of a potential HGDP-1kGP sample to be incorporated to HPRCv2.