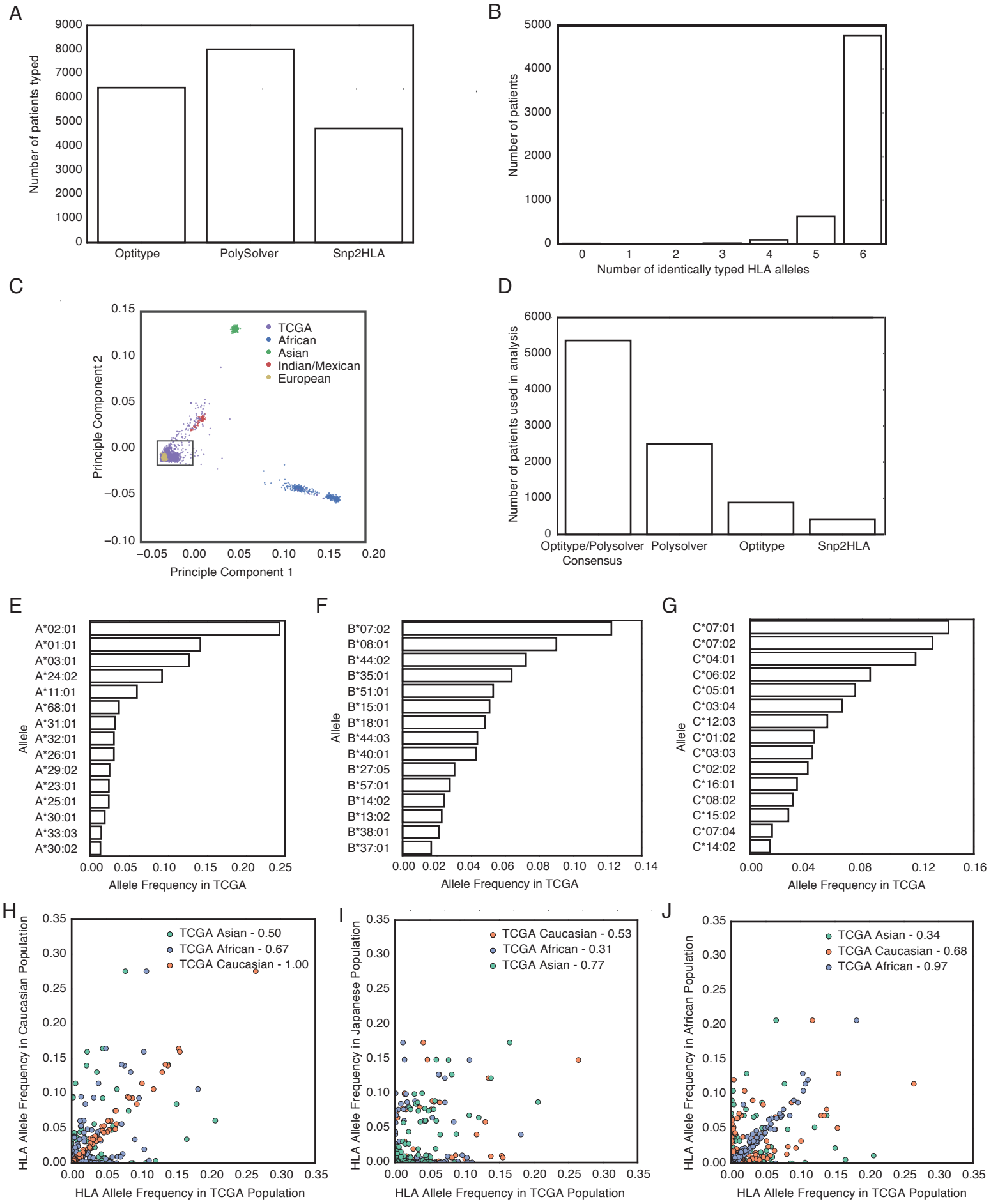
A
Number of patients typed
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Optitype
PolySolver
Snp2HLA
B
Number of patients
5000
4000
3000
2000
1000
0
0 1 2 3 4 5 6
Number of identically typed HLA alleles
C
Principle Component 2
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.05 0.00 0.05 0.10 0.15 0.20
Principle Component 1
TCGA
African
Asian
Indian/Mexican
European
D
Number of patients used in analysis
6000
5000
4000
3000
2000
1000
0
Optitype/Polysolver Consensus
Polysolver
Optitype
Snp2HLA
E
Allele
A*02:01
A*01:01
A*03:01
A*24:02
A*11:01
A*68:01
A*31:01
A*32:01
A*26:01
A*29:02
A*23:01
A*25:01
A*30:01
A*33:03
A*30:02
0.00 0.05 0.10 0.15 0.20 0.25
Allele Frequency in TCGA
F
Allele
B*07:02
B*08:01
B*44:02
B*35:01
B*51:01
B*15:01
B*18:01
B*44:03
B*40:01
B*27:05
B*57:01
B*14:02
B*13:02
B*38:01
B*37:01
0.00 0.02 0.04 0.06 0.08 0.10 0.12 0.14
Allele Frequency in TCGA
G
Allele
C*07:01
C*07:02
C*04:01
C*06:02
C*05:01
C*03:04
C*12:03
C*01:02
C*03:03
C*02:02
C*16:01
C*08:02
C*15:02
C*07:04
C*14:02
0.00 0.04 0.08 0.12 0.16
Allele Frequency in TCGA
H
HLA Allele Frequency in Caucasian Population
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35
HLA Allele Frequency in TCGA Population
TCGA Asian - 0.50
TCGA African - 0.67
TCGA Caucasian - 1.00
I
HLA Allele Frequency in Japanese Population
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35
HLA Allele Frequency in TCGA Population
TCGA Caucasian - 0.53
TCGA African - 0.31
TCGA Asian - 0.77
J
HLA Allele Frequency in African Population
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35
HLA Allele Frequency in TCGA Population
TCGA Asian - 0.34
TCGA Caucasian - 0.68
TCGA African - 0.97