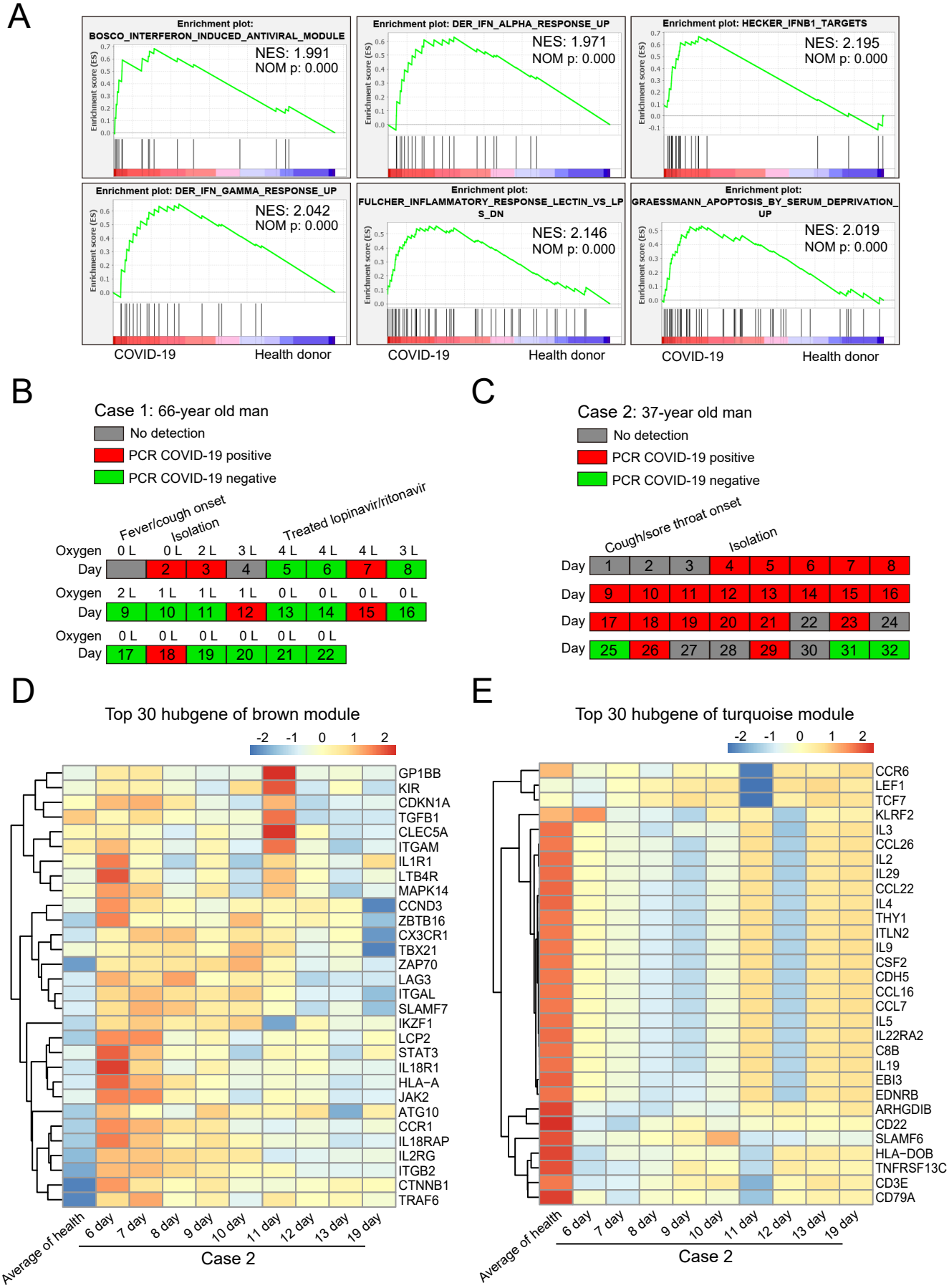
A
Enrichment plot: BOSCO_INTERFERON_INDUCED_ANTIVIRAL_MODULE
NES: 1.991
NOM p: 0.000
Enrichment plot: DER_IFN_ALPHA_RESPONSE_UP
NES: 1.971
NOM p: 0.000
Enrichment plot: HECKER_IFNB1_TARGETS
NES: 2.195
NOM p: 0.000
Enrichment plot: DER_IFN_GAMMA_RESPONSE_UP
NES: 2.042
NOM p: 0.000
Enrichment plot: FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN
NES: 2.146
NOM p: 0.000
Enrichment plot: GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_UP
NES: 2.019
NOM p: 0.000
Enrichment score (ES)
COVID-19
Health donor
B
Case 1: 66-year old man
No detection
PCR COVID-19 positive
PCR COVID-19 negative
Fever/cough onset
Isolation
Treated lopinavir/ritonavir
Oxygen 0 L 0 L 2 L 3 L 4 L 4 L 4 L 3 L
Day 2 3 4 5 6 7 8
Oxygen 2 L 1 L 1 L 1 L 0 L 0 L 0 L 0 L
Day 9 10 11 12 13 14 15 16
Oxygen 0 L 0 L 0 L 0 L 0 L 0 L
Day 17 18 19 20 21 22
C
Case 2: 37-year old man
No detection
PCR COVID-19 positive
PCR COVID-19 negative
Cough/sore throat onset
Isolation
Day 1 2 3 4 5 6 7 8
Day 9 10 11 12 13 14 15 16
Day 17 18 19 20 21 22 23 24
Day 25 26 27 28 29 30 31 32
D
Top 30 hubgene of brown module
-2 -1 0 1 2
GP1BB
KIR
CDKN1A
TGFB1
CLEC5A
ITGAM
IL1R1
LTB4R
MAPK14
CCND3
ZBTB16
CX3CR1
TBX21
ZAP70
LAG3
ITGAL
SLAMF7
IKZF1
LCP2
STAT3
IL18R1
HLA−A
JAK2
ATG10
CCR1
IL18RAP
IL2RG
ITGB2
CTNNB1
TRAF6
Average of health
6 day
7 day
8 day
9 day
10 day
11 day
12 day
13 day
19 day
Case 2
E
Top 30 hubgene of turquoise module
-2 -1 0 1 2
CCR6
LEF1
TCF7
KLRF2
IL3
CCL26
IL2
IL29
CCL22
IL4
THY1
ITLN2
IL9
CSF2
CDH5
CCL16
CCL7
IL5
IL22RA2
C8B
IL19
EBI3
EDNRB
ARHGDIB
CD22
SLAMF6
HLA−DOB
TNFRSF13C
CD3E
CD79A
Average of health
6 day
7 day
8 day
9 day
10 day
11 day
12 day
13 day
19 day
Case 2