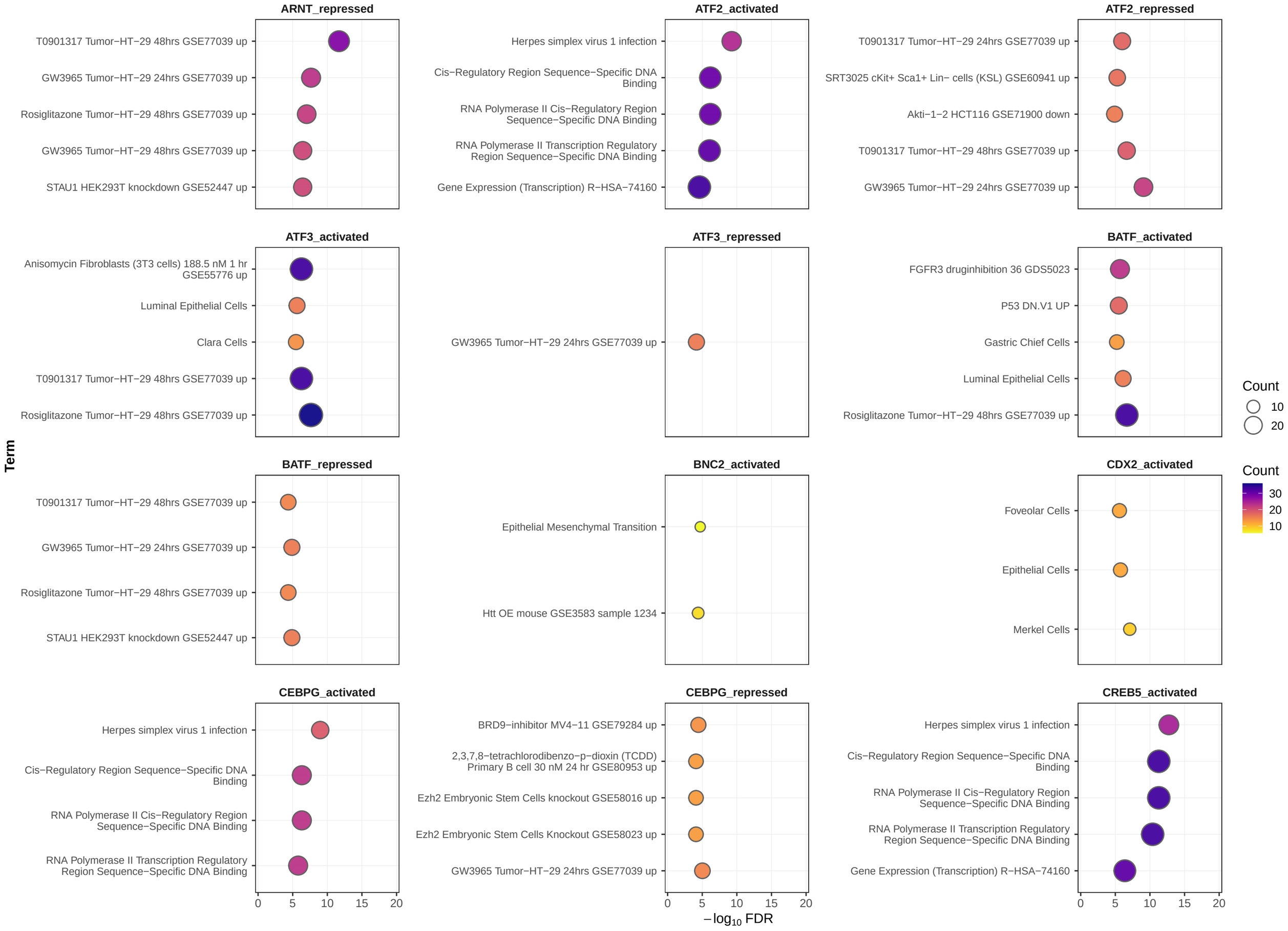
Pathway terms per TF regulation set (filtered & wrapped)

One dot per TF–term: x = −log10(FDR, min across conditions; capped at 20); fill/size = Count (max across conditions)



Pathway terms per TF regulation set (filtered & wrapped)

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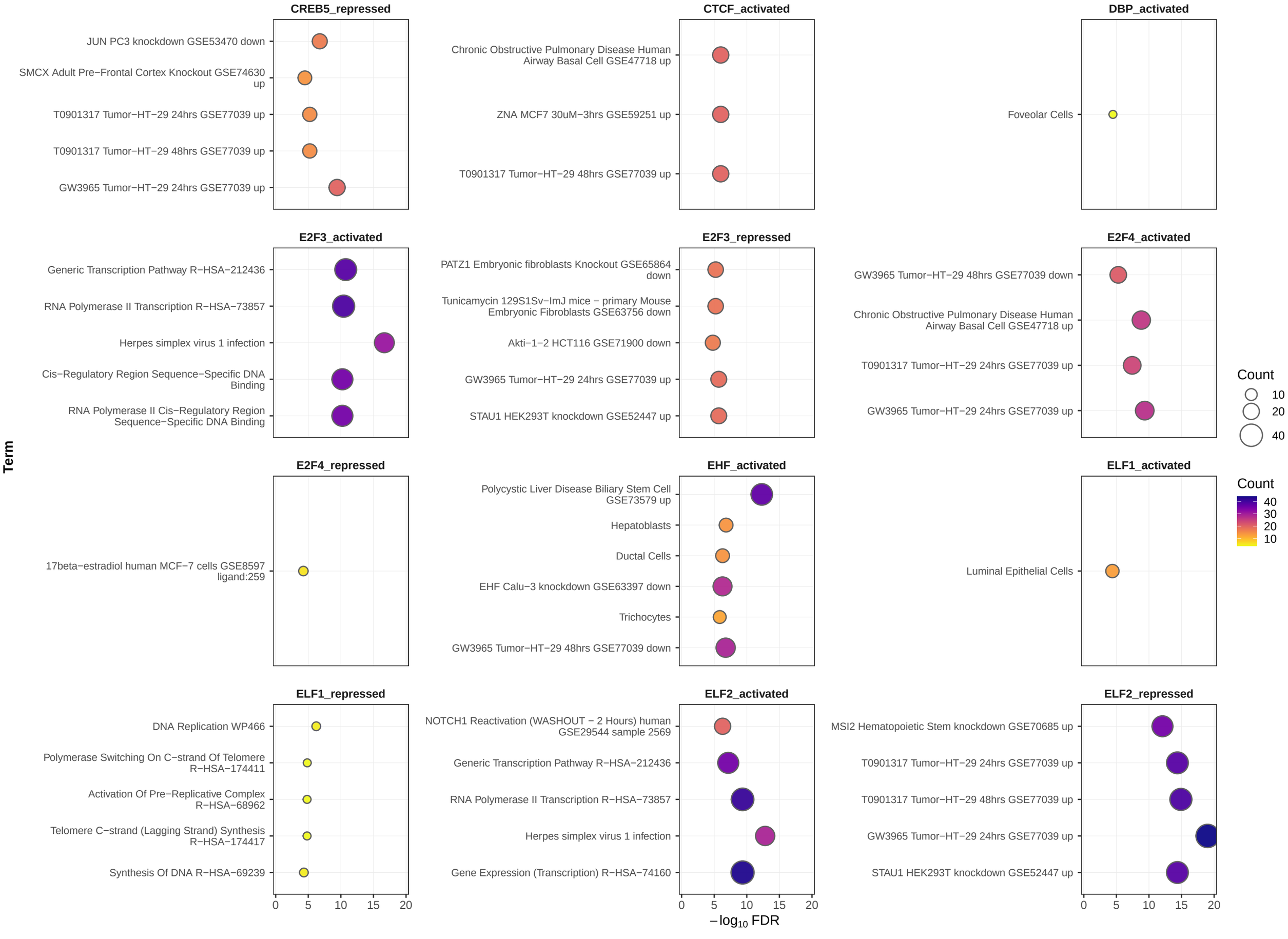

Pathway terms per TF regulation set (filtered & wrapped)

One dot per TF–term: x = −log10(FDR, min across conditions; capped at 20); fill/size = Count (max across conditions)

ELF3_activated

- CDK8 knockdown 161 GSE38061
- EVX1AS CJ9 stem cells knockout GSE70419 down
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- ZNA MCF7 30uM−3hrs GSE59251 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up

ELF3_repressed

- MIR210 OE human GSE16962 sample 2971
- estrogen human MCF−7 cells GSE11324 ligand:90

ELK4_activated

- Generic Transcription Pathway R−HSA−212436
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- Gene Expression (Transcription) R−HSA−74160

ELK4_repressed

- MSI2 Hematopoietic Stem knockdown GSE70685 up
- BRD9−inhibitor MV4−11 GSE79284 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- STAU1 HEK293T knockdown GSE52447 up

ERF_activated

- SRA MCF7 knockdown GSE52385 up
- NHERF2 HCT116 knockdown GSE67931 up
- CDK8 knockdown 161 GSE38061
- Polycystic Liver Disease Biliary Stem Cell GSE73579 up
- GW3965 Tumor−HT−29 48hrs GSE77039 down
- T0901317 Tumor−HT−29 48hrs GSE77039 up

ERF_repressed

- SNTA1 RKO knockdown GSE68219 down

Count: 10, 20, 40

ETS1_activated

- Generic Transcription Pathway R−HSA−212436
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding

ETS1_repressed

- KH−CB19 Embryonic stem cells 0 hrs GSE57231 up
- SUZ12 HEK293T knockdown GSE50177 up

ETS2_activated

- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

Count: 10, 20, 30, 40, 50

ETS2_repressed

- Metabolism Of RNA R−HSA−8953854
- Rcor1 Fetal Liver Knockout GSE50708 down
- SUZ12 HEK293T knockdown GSE50177 up
- BRD9−inhibitor MV4−11 GSE79284 up
- STAU1 HEK293T knockdown GSE52447 up

ETV1_repressed

- PKC412 ZR751 1uM−6hrs GSE63721 up
- MSI2 Hematopoietic Stem knockdown GSE70685 up
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up

ETV4_activated

- Polycystic Liver Disease Biliary Stem Cell GSE73579 up
- GW3965 Tumor−HT−29 48hrs GSE77039 down
- Foveolar Cells
- Merkel Cells
- GW3965 Tumor−HT−29 24hrs GSE77039 up

0 5 10 15 20

$-\log_{10}$ FDR

Pathway terms per TF regulation set (filtered & wrapped)

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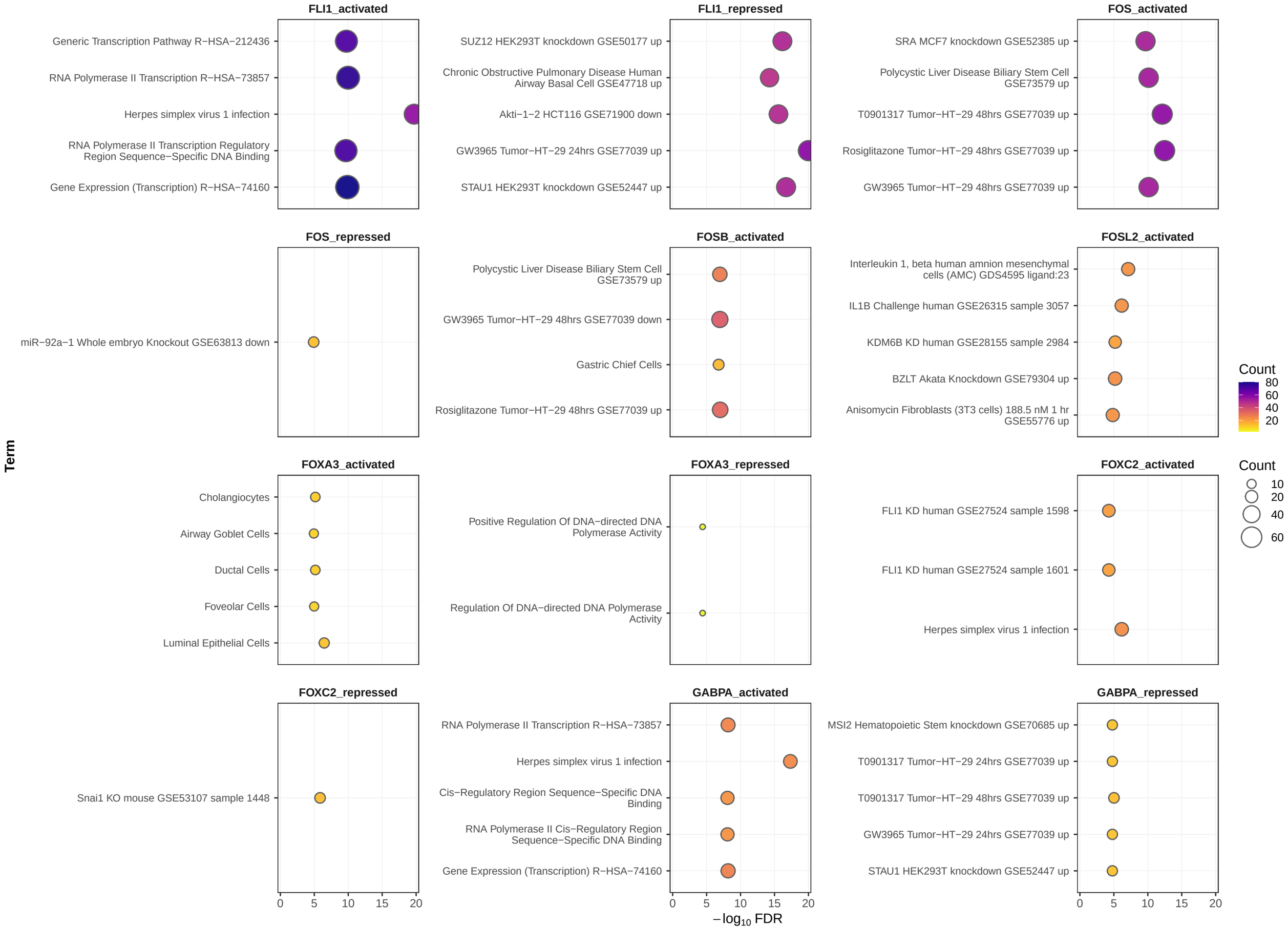

Pathway terms per TF regulation set (filtered & wrapped)

One dot per TF–term: x = −log10(FDR, min across conditions; capped at 20); fill/size = Count (max across conditions)

HNF1A_activated
- CFTR Colon Knockout GSE76095 up
- Ductal Cells
- Foveolar Cells
- Merkel Cells

HNF4A_activated
- Bcl9/9l Colorectal tumor Knockout GSE60837 up
- CFTR Colon Knockout GSE76095 up
- Ductal Cells
- Foveolar Cells

HNF4G_activated
- IL−13 Small intestine (Nod2 knockout) 25ug GSE76504 down
- CFTR Colon Knockout GSE76095 up

HOXA1_activated
- Generic Transcription Pathway R−HSA−212436
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- Gene Expression (Transcription) R−HSA−74160

HOXA1_repressed
- Myotonic Dystrophy Left Ventricles GSE67812 up
- Silvestrol MDA−MB−231 25nM−1hr GSE61375 down
- PATZ1 Embryonic fibroblasts Knockout GSE65864 down
- BRD9−inhibitor MV4−11 GSE79284 up
- 2,3,7,8−tetrachlorodibenzo−p−dioxin (TCDD) Primary B cell 30 nM 24 hr GSE80953 up

HOXB2_activated
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- Gene Expression (Transcription) R−HSA−74160

HOXB2_repressed
- MSI2 Hematopoietic Stem knockdown GSE70685 up
- BRD9−inhibitor MV4−11 GSE79284 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- STAU1 HEK293T knockdown GSE52447 up

HOXB5_repressed
- T0901317 Tumor−HT−29 48hrs GSE77039 up

HOXB7_activated
- Insulin−Like Growth Factor Binding
- Insulin−Like Growth Factor I Binding

HSF2_activated
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- Gene Expression (Transcription) R−HSA−74160

IKZF2_activated
- Luminal Epithelial Cells

JDP2_activated
- TP63 DEPLETION human GSE5993 sample 90
- CFTR F508 CFTR mutation human GSE30439 sample 1744
- Mammary Epithelial Cells
- Luminal Epithelial Cells

Term

0 5 10 15 20

$-\log_{10}$ FDR

Count
10
20
40

Count
40
30
20
10

Pathway terms per TF regulation set (filtered & wrapped)

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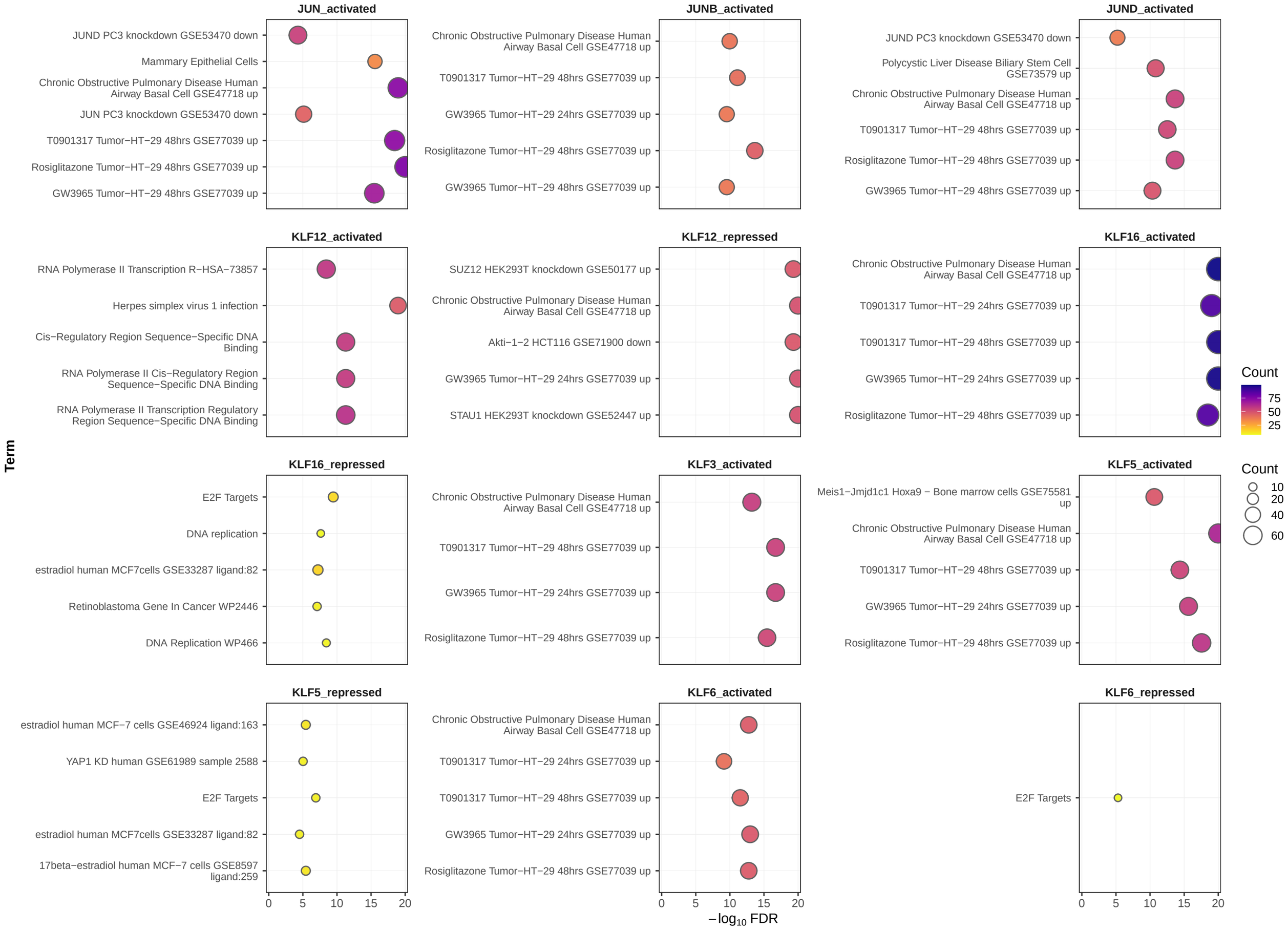

Pathway terms per TF regulation set (filtered & wrapped)

One dot per TF–term: x = −log10(FDR, min across conditions; capped at 20); fill/size = Count (max across conditions)

Term

KLF7_activated
- Myc RKO knockdown GSE68219 up
- Salmonella HT−29 cells (shCAP−D3) 7hrs GSE62520 down
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- STAU1 HEK293T knockdown GSE52447 up

KMT2A_activated
- Generic Transcription Pathway R−HSA−212436
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

KMT2A_repressed
- BRD9−inhibitor MV4−11 GSE79284 up
- Ezh2 Embryonic Stem Cells knockout GSE58016 up
- Ezh2 Embryonic Stem Cells Knockout GSE58023 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- STAU1 HEK293T knockdown GSE52447 up

LEF1_activated
- FLI1 KD human GSE27524 sample 1601
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

LEF1_repressed
- Trisomy 21 Fetal Fibroblasts GSE55504 down
- BRD9−inhibitor MV4−11 GSE79284 up
- Ezh2 Embryonic Stem Cells knockout GSE58016 up
- Ezh2 Embryonic Stem Cells Knockout GSE58023 up
- STAU1 HEK293T knockdown GSE52447 up

MAFK_activated
- SRA MCF7 knockdown GSE52385 up
- EHF Calu−3 knockdown GSE63397 down
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- Rosiglitazone Tumor−HT−29 48hrs GSE77039 up

MAFK_repressed
- ZNF750 KD human GSE38039 sample 2704
- ZNF750 KD human GSE38039 sample 204
- TFPI OE human GSE30037 sample 2338
- EGFR drugactivation human GSE22288 sample 1876
- 17beta−estradiol human MCF−7 cells GSE8597 ligand:259

MAZ_activated
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- T0901317 Tumor−HT−29 24hrs GSE77039 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- Rosiglitazone Tumor−HT−29 48hrs GSE77039 up

MAZ_repressed
- Perhexiline CUTLL1 GSE66014 down
- YAP1 KD human GSE61989 sample 2588
- E2F Targets
- estradiol human MCF7cells GSE33287 ligand:82
- SNTA1 RKO knockdown GSE68219 down

MBD3_activated
- Rosiglitazone Tumor−HT−29 24hrs GSE77039 down
- Meis1−Jmjd1c1 Hoxa9 − Bone marrow cells GSE75581 up
- Mammary Epithelial Cells
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up

MBD3_repressed
- Nutlin−3a MCF7 5uM−24hrs GSE47042 down
- EPAS1 Yolk sac Knockdown GSE62974 down
- WZ4002 NSCLC−Parental PC9−GR3 24hrs GSE75602 down
- GSK3A KD human GSE35200 sample 207
- SNTA1 RKO knockdown GSE68219 down

NR1H2_activated
- 1P36 Copy Number Variation Syndrome WP5345

0 5 10 15 20

$-\log_{10}$ FDR

Count
90
60
30

Count
10
20
40
60

Pathway terms per TF regulation set (filtered & wrapped)

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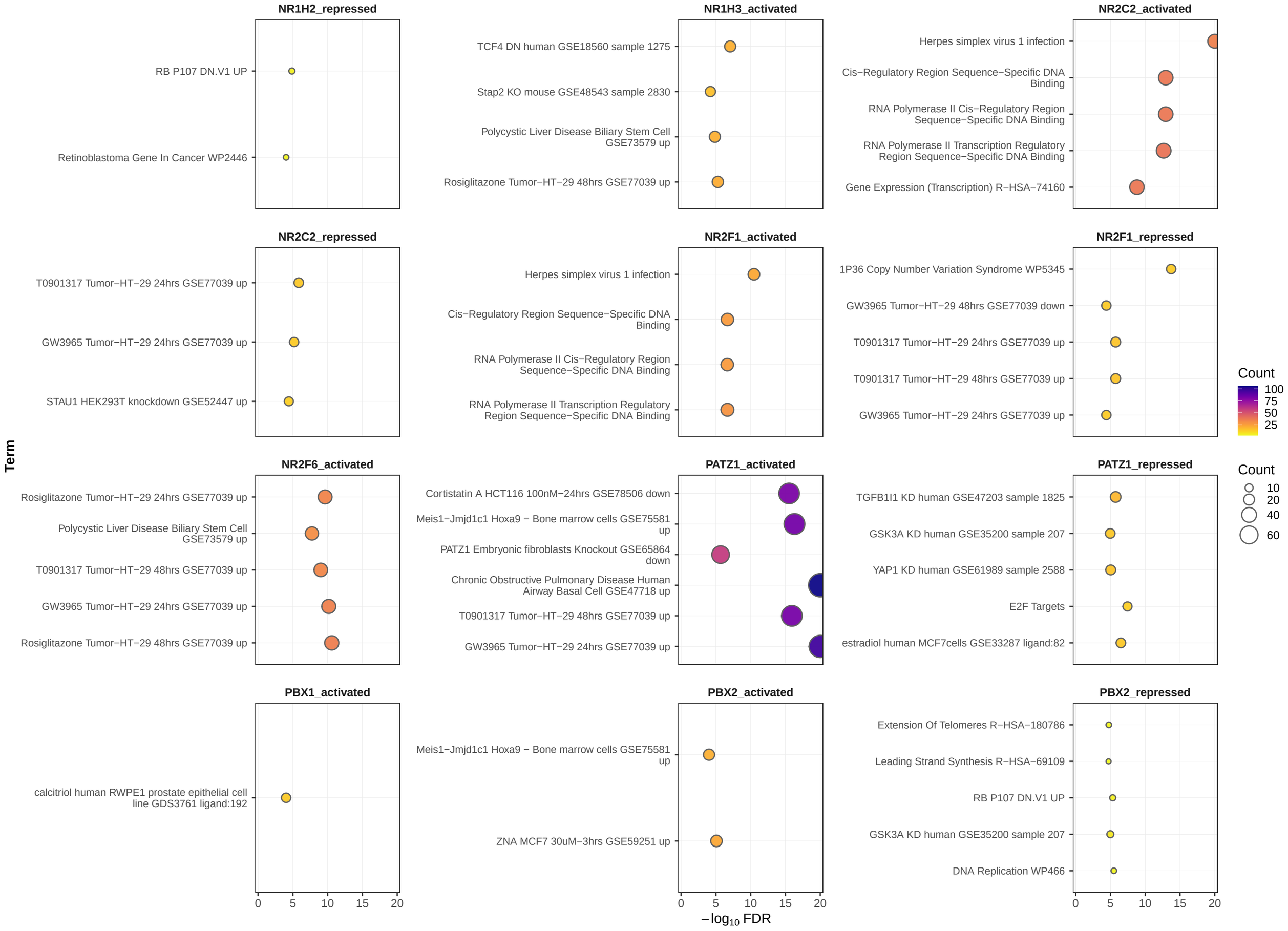

Pathway terms per TF regulation set (filtered & wrapped)

One dot per TF–term: x = −log10(FDR, min across conditions; capped at 20); fill/size = Count (max across conditions)

PBX3_activated

- EGFR drugactivation human GSE22288 sample 1876
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

PBX3_repressed

- MSI2 Hematopoietic Stem knockdown GSE70685 up
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- STAU1 HEK293T knockdown GSE52447 up

PLAGL2_repressed

- GATA2 Ch−CRPC (DU145−DR culture(AR+)) Knockdown GSE58966 down
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- Rosiglitazone Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 48hrs GSE77039 up

PPARA_activated

- Bcl9/9l Colon epithelium Knockout GSE60837 down
- PBS−1086 & Erlotinib 11−18 GSE65420 up
- Rosiglitazone Tumor−HT−29 24hrs GSE77039 up
- Bcl9/9l Colorectal tumor Knockout GSE60837 up
- CFTR Colon Knockout GSE76095 up

PPARG_activated

- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

PPARG_repressed

- Trisomy 21 Fetal Fibroblasts GSE55504 down
- SUZ12 HEK293T knockdown GSE50177 up
- T0901317 Tumor−HT−29 24hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- STAU1 HEK293T knockdown GSE52447 up

Count: 10, 20, 40

Ter

PRDM16_activated

- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

PRDM16_repressed

- 1P36 Copy Number Variation Syndrome WP5345
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- Ezh2 Embryonic Stem Cells knockout GSE58016 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up
- STAU1 HEK293T knockdown GSE52447 up

RARB_activated

- Airway Goblet Cells
- Luminal Epithelial Cells
- Clara Cells

Count: 10, 20, 30, 40

RARB_repressed

- RBP2 KD human GSE41443 sample 1793
- estradiol human MCF7cells GSE33287 ligand:82
- 17beta−estradiol human MCF−7 cells GSE8597 ligand:259

RXRA_activated

- Tunicamycin AJ mice − primary Mouse Embryonic Fibroblasts GSE63756 down
- Tunicamycin C57BL−6J mice − primary Mouse Embryonic Fibroblasts GSE63756 down
- SAHA Liver 0.67g GSE63943 up
- Rosiglitazone Tumor−HT−29 24hrs GSE77039 up
- Rosiglitazone Tumor−HT−29 48hrs GSE77039 up

RXRB_activated

- Microfold Cells
- Airway Goblet Cells
- SRA MCF7 knockdown GSE52385 up

0 5 10 15 20

$-\log_{10}$ FDR

Pathway terms per TF regulation set (filtered & wrapped)

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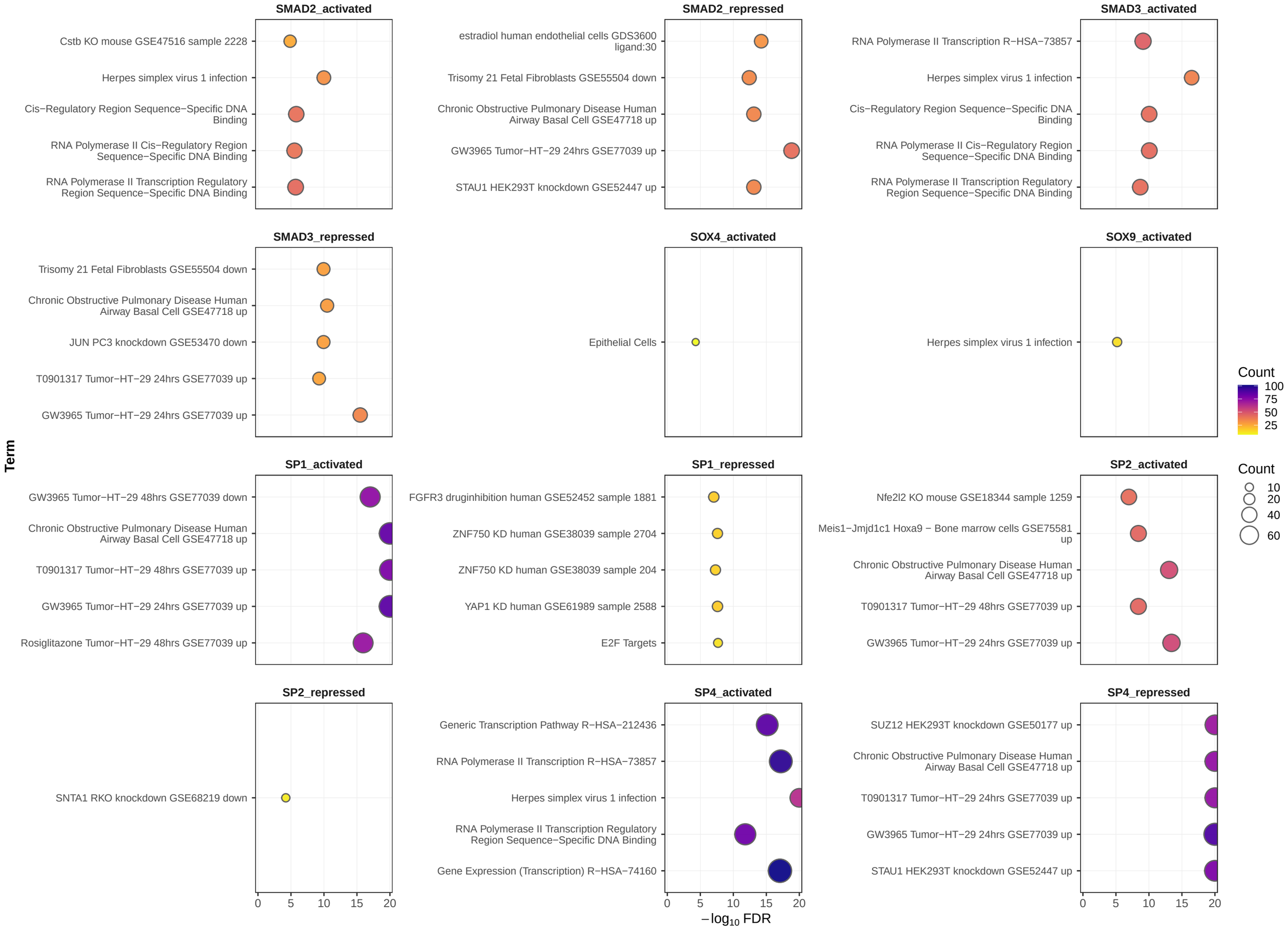

Pathway terms per TF regulation set (filtered & wrapped)

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SP5_activated
- Principal Cells
- Cholangiocytes
- Airway Goblet Cells
- GW3965 Tumor−HT−29 48hrs GSE77039 down
- Gastric Chief Cells

SP5_repressed
- BRAF Drug inhibition human GSE42872 sample 883
- MYB KD human GSE49286 sample 1842
- FGFR3 druginhibition human GSE52452 sample 1881
- TGFB1I1 KD human GSE47203 sample 1825
- YAP1 KD human GSE61989 sample 2588

SREBF2_activated
- WZ4002 NSCLC−Parental PC9−GR2 24hrs GSE75602 up
- T0901317 Tumor−HT−29 24hrs GSE77039 down
- GW3965 Tumor−HT−29 48hrs GSE77039 down
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up

STAT5A_activated
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding
- RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

STAT5A_repressed
- MECOM KD human GSE16238 sample 2342
- COMMD5 OE human GSE4737 sample 738
- TP53 KD human GSE1676 sample 1784
- Akti−1−2 HCT116 GSE71900 down
- STAU1 HEK293T knockdown GSE52447 up

TCF12_activated
- Generic Transcription Pathway R−HSA−212436
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding
- Gene Expression (Transcription) R−HSA−74160

Count: 10, 20, 40

TCF12_repressed
- SUZ12 HEK293T knockdown GSE50177 up
- Tunicamycin 129S1Sv−ImJ mice − primary Mouse Embryonic Fibroblasts GSE63756 down
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- Akti−1−2 HCT116 GSE71900 down
- GW3965 Tumor−HT−29 24hrs GSE77039 up

TEAD1_activated
- COMMD3−BMI1 KD human GSE7578 sample 129
- Irak4 Deficiency mouse GSE6789 sample 680
- NOTCH1 Reactivation (WASHOUT − 2 Hours) human GSE29544 sample 2569
- Herpes simplex virus 1 infection
- Cis−Regulatory Region Sequence−Specific DNA Binding

TEAD1_repressed
- Tunicamycin 129S1Sv−ImJ mice − primary Mouse Embryonic Fibroblasts GSE63756 down
- JUN PC3 knockdown GSE53470 down
- T0901317 Tumor−HT−29 24hrs GSE77039 up
- T0901317 Tumor−HT−29 48hrs GSE77039 up
- GW3965 Tumor−HT−29 24hrs GSE77039 up

Count: 10, 20, 30, 40, 50

TEAD3_activated
- WZ4002 NSCLC−Parental PC9 24hrs GSE75602 up
- WZ4002 NSCLC−Parental PC9−GR3 24hrs GSE75602 up
- Polycystic Liver Disease Biliary Stem Cell GSE73579 up
- Gastric Chief Cells
- Rosiglitazone Tumor−HT−29 48hrs GSE77039 up

TFAP2A_activated
- RNA Polymerase II Transcription R−HSA−73857
- Herpes simplex virus 1 infection
- Gene Expression (Transcription) R−HSA−74160

TFAP2A_repressed
- Mecp2 Microglia Null GSE66211 up
- 1P36 Copy Number Variation Syndrome WP5345
- Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up
- Akti−1−2 HCT116 GSE71900 down
- GW3965 Tumor−HT−29 24hrs GSE77039 up

0 5 10 15 20

$-\log_{10}$ FDR

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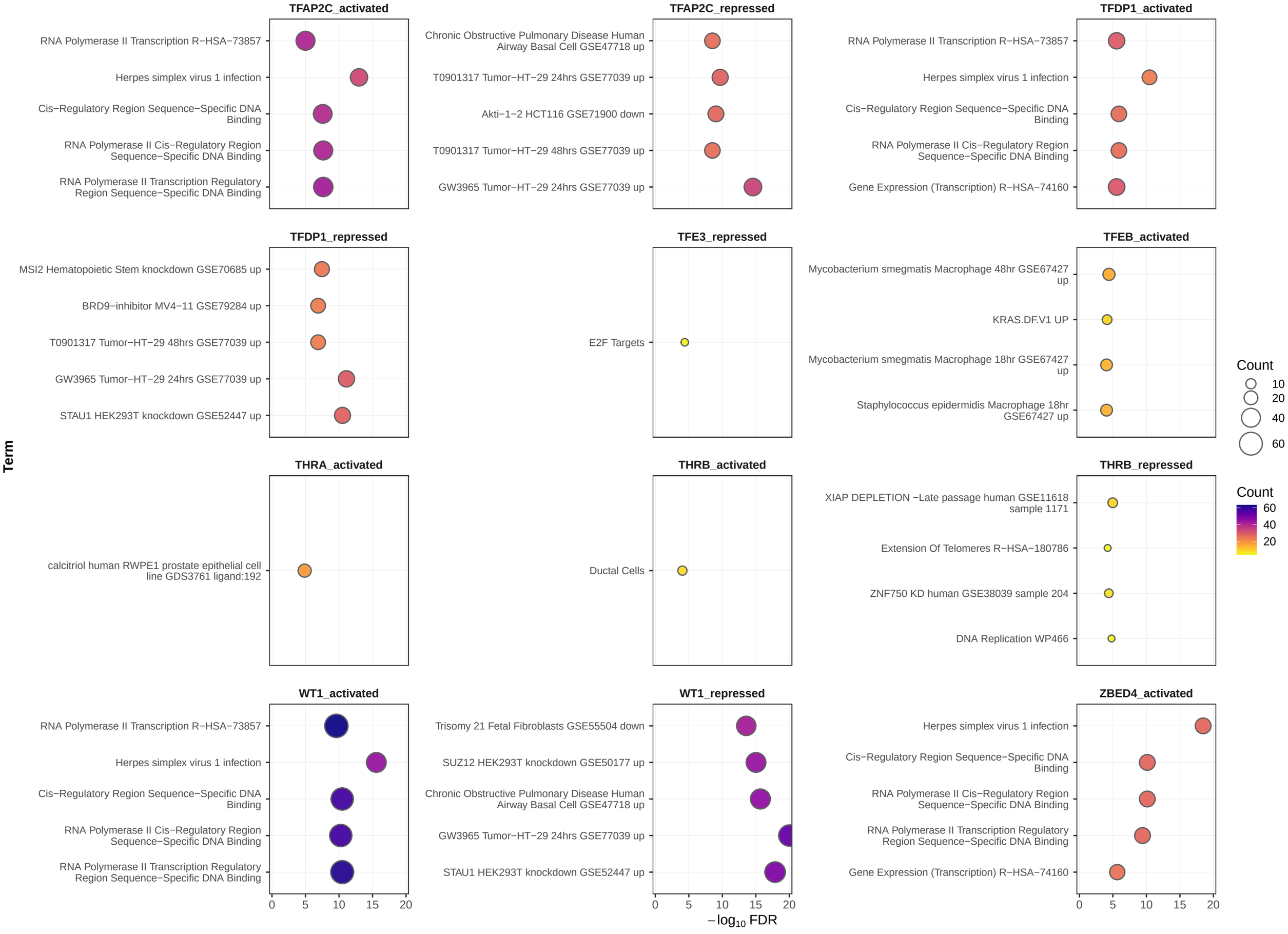

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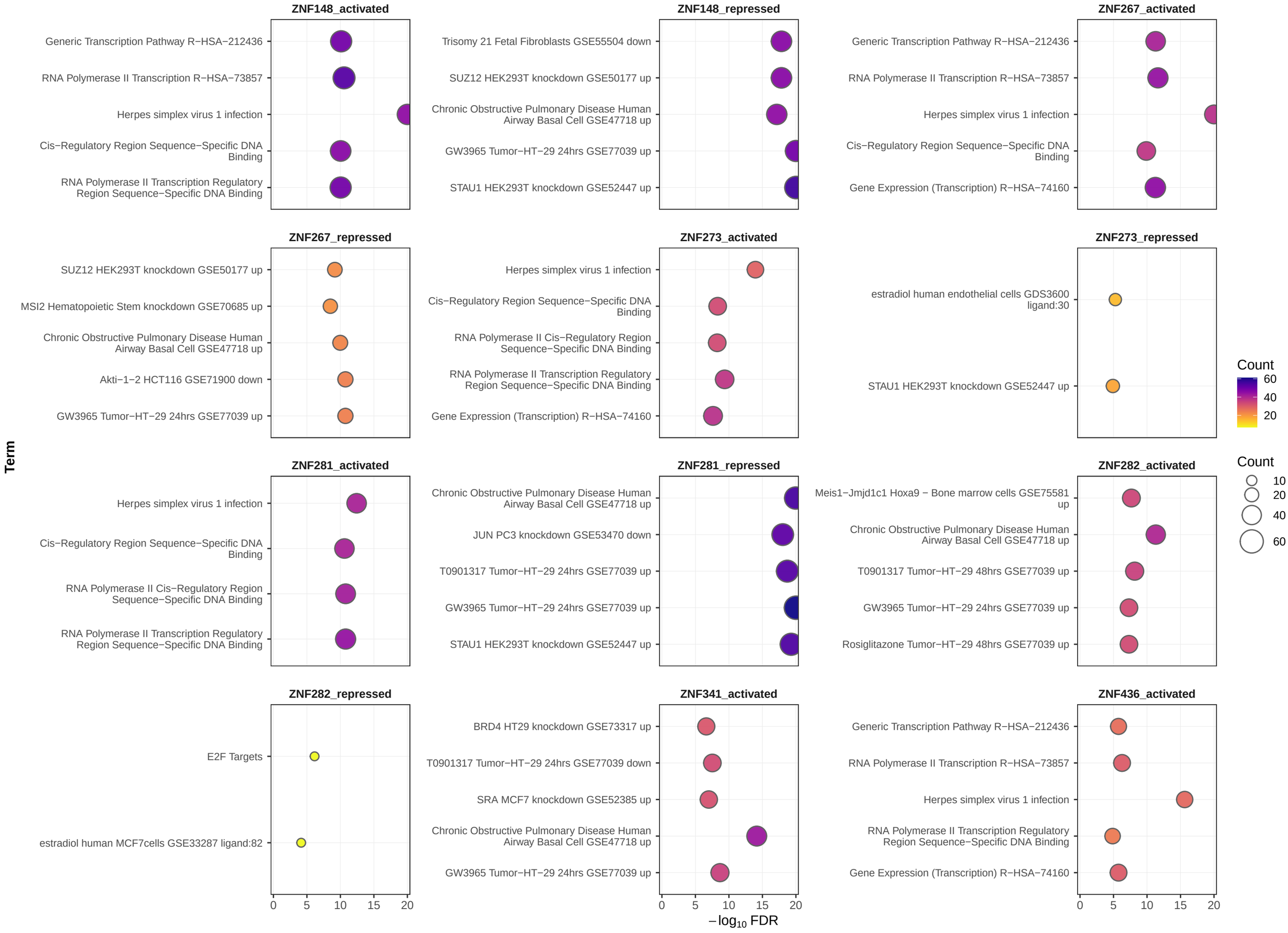

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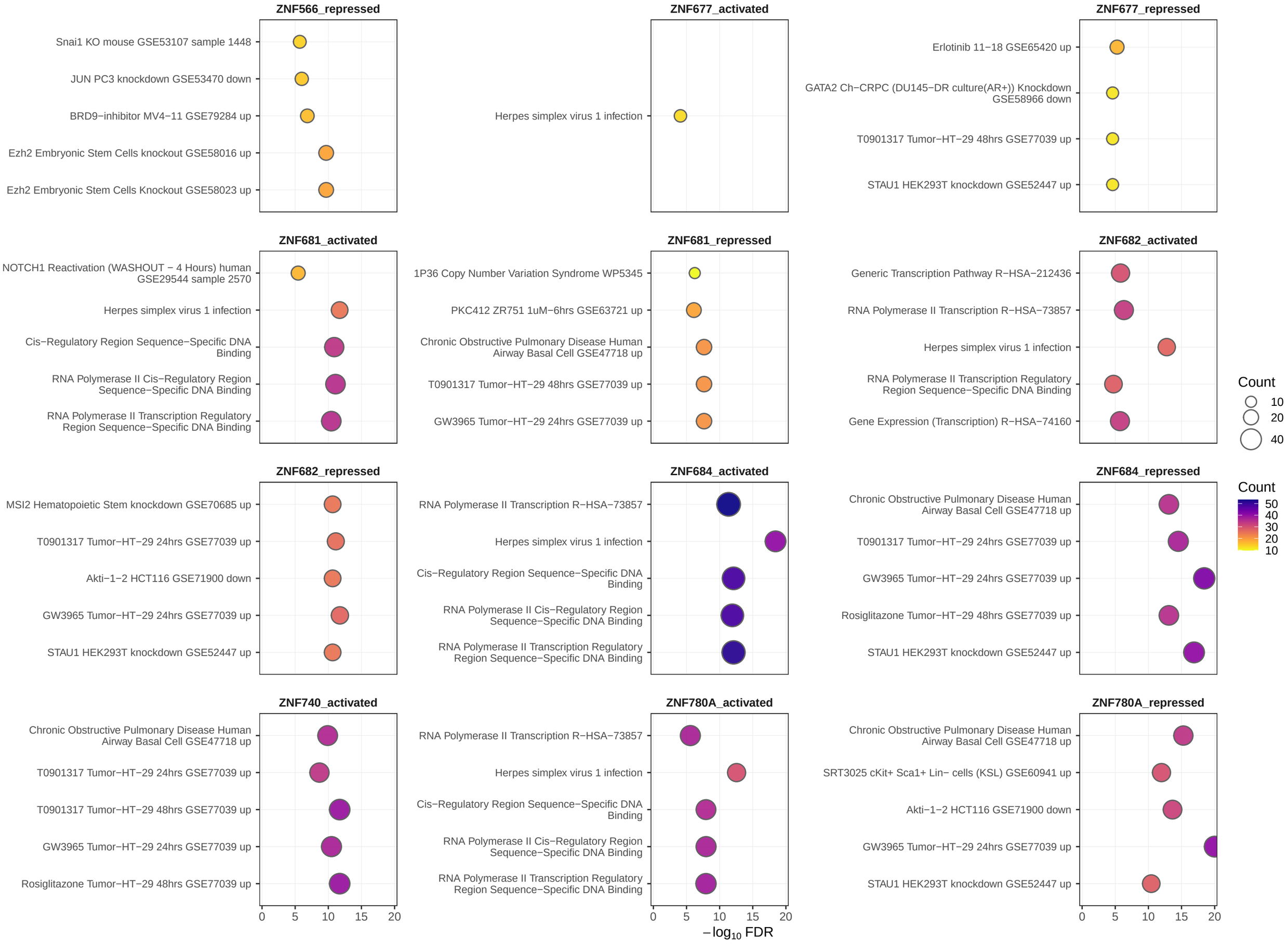

Pathway terms per TF regulation set (filtered & wrapped)

One dot per TF–term: x = −log10(FDR, min across conditions; capped at 20); fill/size = Count (max across conditions)

ZNF793_activated

Herpes simplex virus 1 infection

Cis−Regulatory Region Sequence−Specific DNA Binding

RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding

RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

ZNF880_activated

Generic Transcription Pathway R−HSA−212436

RNA Polymerase II Transcription R−HSA−73857

Herpes simplex virus 1 infection

RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding

Gene Expression (Transcription) R−HSA−74160

ZNF880_repressed

MITF 501 Melanocytes knockdown GSE61966 up

MSI2 Hematopoietic Stem knockdown GSE70685 up

PATZ1 Embryonic fibroblasts Knockout GSE65864 down

Chronic Obstructive Pulmonary Disease Human Airway Basal Cell GSE47718 up

GW3965 Tumor−HT−29 24hrs GSE77039 up

0 5 10 15 20

Count

20

Te

ZXDA_activated

Herpes simplex virus 1 infection

Cis−Regulatory Region Sequence−Specific DNA Binding

RNA Polymerase II Cis−Regulatory Region Sequence−Specific DNA Binding

RNA Polymerase II Transcription Regulatory Region Sequence−Specific DNA Binding

Gene Expression (Transcription) R−HSA−74160

ZXDA_repressed

MSI2 Hematopoietic Stem knockdown GSE70685 up

T0901317 Tumor−HT−29 24hrs GSE77039 up

T0901317 Tumor−HT−29 48hrs GSE77039 up

GW3965 Tumor−HT−29 24hrs GSE77039 up

STAU1 HEK293T knockdown GSE52447 up

0 5 10 15 20

$-\log_{10}$ FDR

Count

30

25

20

15