Normalized Pattern Distribution (100% Stacked)
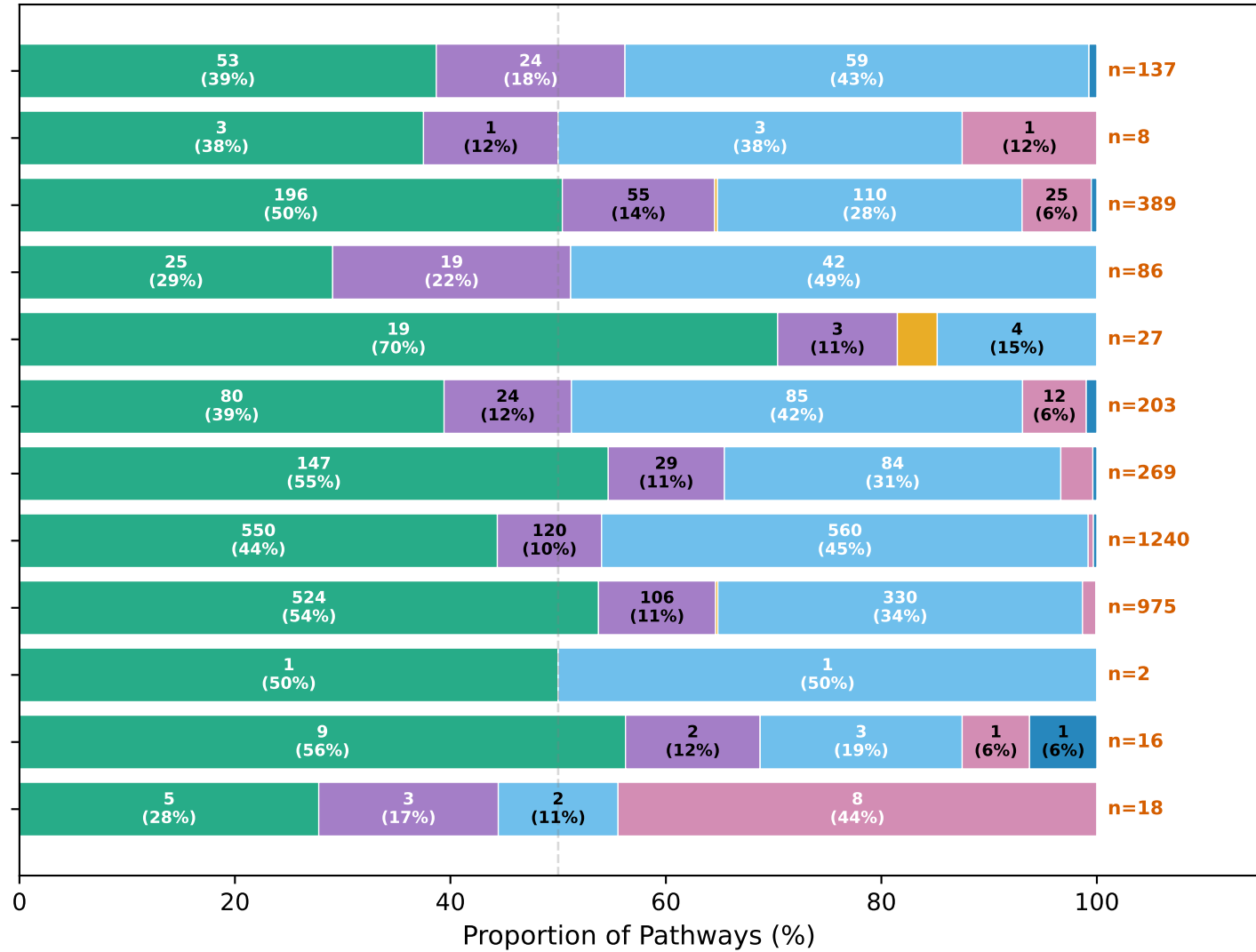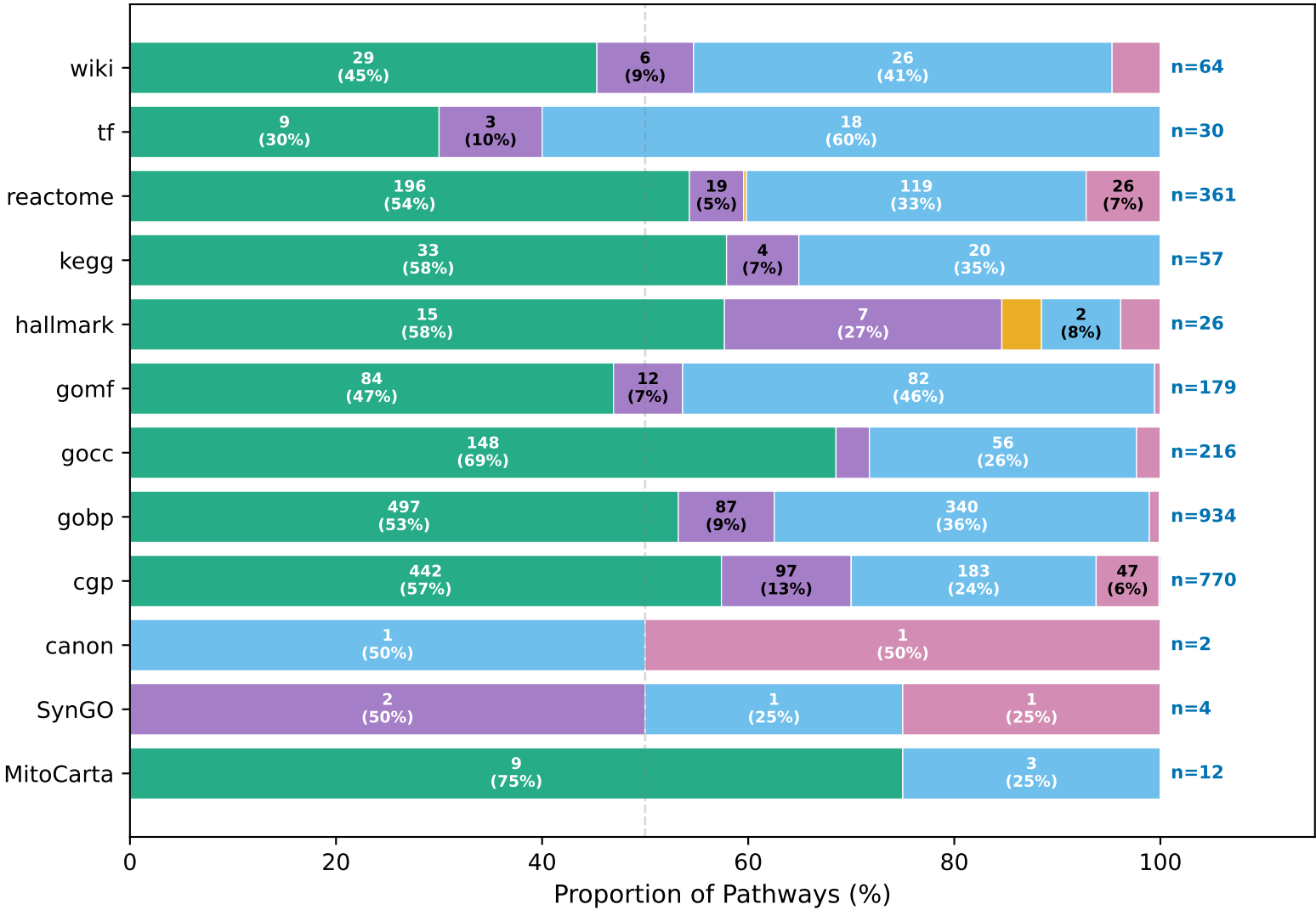**Each database scaled to 100% to show relative pattern proportions**

G32A

Database		
wiki	29 (45%), 6 (9%), 26 (41%)	n=64
tf	9 (30%), 3 (10%), 18 (60%)	n=30
reactome	196 (54%), 19 (5%), 119 (33%), 26 (7%)	n=361
kegg	33 (58%), 4 (7%), 20 (35%)	n=57
hallmark	15 (58%), 7 (27%), 2 (8%)	n=26
gomf	84 (47%), 12 (7%), 82 (46%)	n=179
gocc	148 (69%), 56 (26%)	n=216
gobp	497 (53%), 87 (9%), 340 (36%)	n=934
cgp	442 (57%), 97 (13%), 183 (24%), 47 (6%)	n=770
canon	1 (50%), 1 (50%)	n=2
SynGO	2 (50%), 1 (25%), 1 (25%)	n=4
MitoCarta	9 (75%), 3 (25%)	n=12

R403C

Database		
wiki	53 (39%), 24 (18%), 59 (43%)	n=137
tf	3 (38%), 1 (12%), 3 (38%), 1 (12%)	n=8
reactome	196 (50%), 55 (14%), 110 (28%), 25 (6%)	n=389
kegg	25 (29%), 19 (22%), 42 (49%)	n=86
hallmark	19 (70%), 3 (11%), 4 (15%)	n=27
gomf	80 (39%), 24 (12%), 85 (42%), 12 (6%)	n=203
gocc	147 (55%), 29 (11%), 84 (31%)	n=269
gobp	550 (44%), 120 (10%), 560 (45%)	n=1240
cgp	524 (54%), 106 (11%), 330 (34%)	n=975
canon	1 (50%), 1 (50%)	n=2
SynGO	9 (56%), 2 (12%), 3 (19%), 1 (6%), 1 (6%)	n=16
MitoCarta	5 (28%), 3 (17%), 2 (11%), 8 (44%)	n=18

Proportion of Pathways (%)

Note: Bars normalized to 100% per database. Absolute counts shown as "N (%)" inside bars. Total pathways per database shown as "n=X" at right. Enables comparison of pattern proportions across databases of different sizes (e.g., gobp with 5000 vs hallmark with 10 pathways).

Legend: ■ Compensation ■ Sign_reversal ■ Natural_worsening ■ Natural_improvement ■ Late_onset ■ Transient