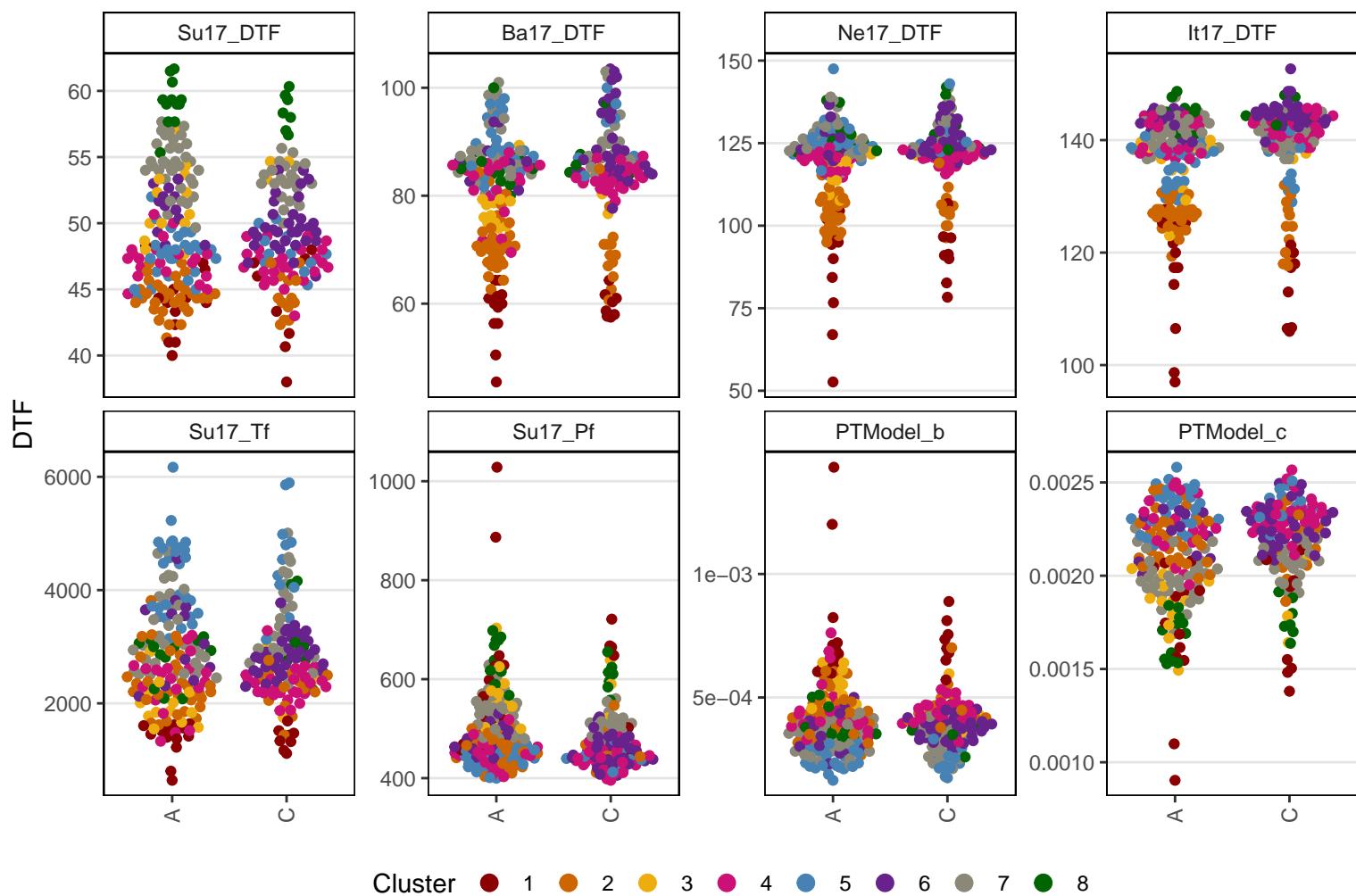
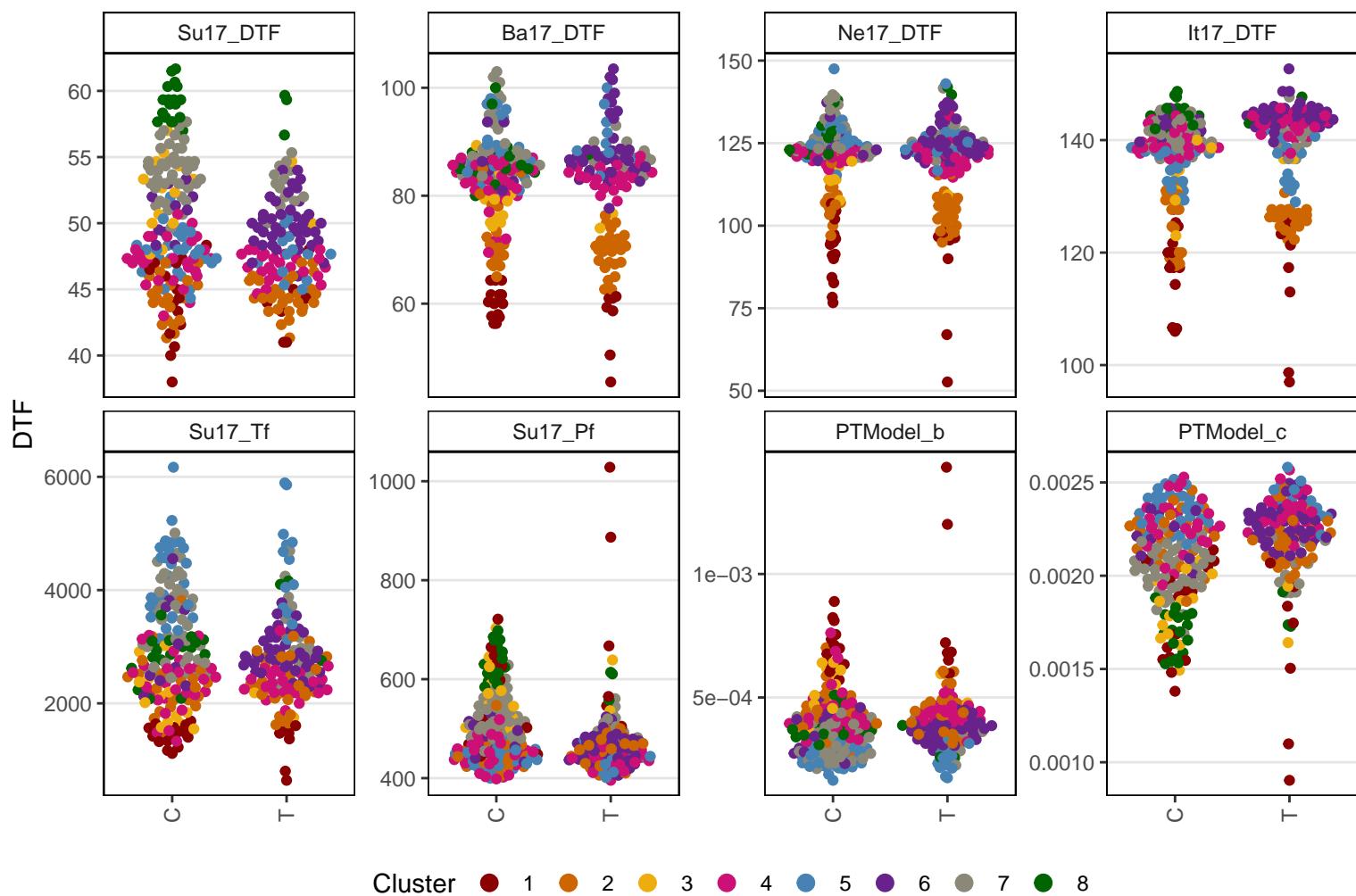


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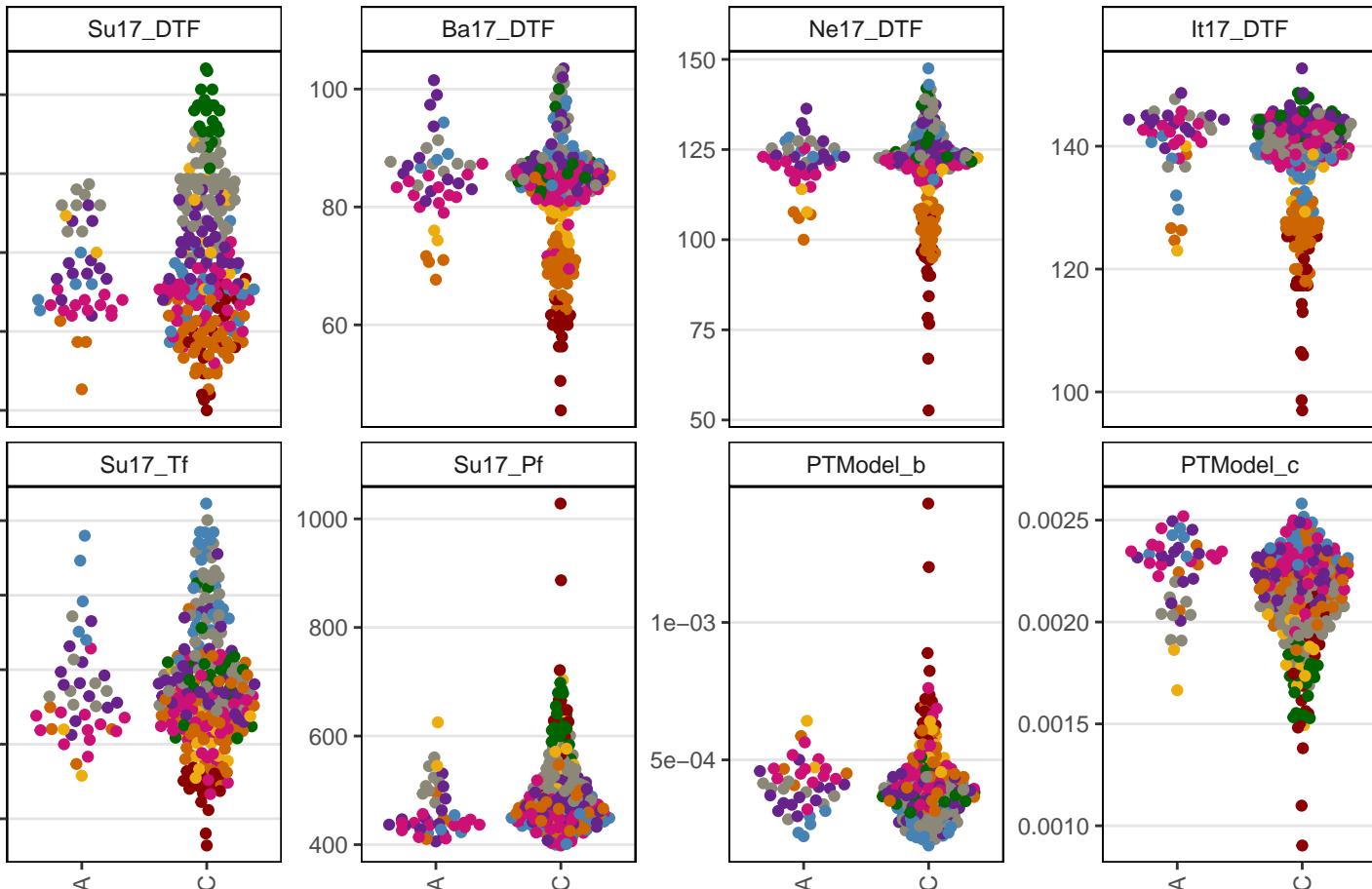


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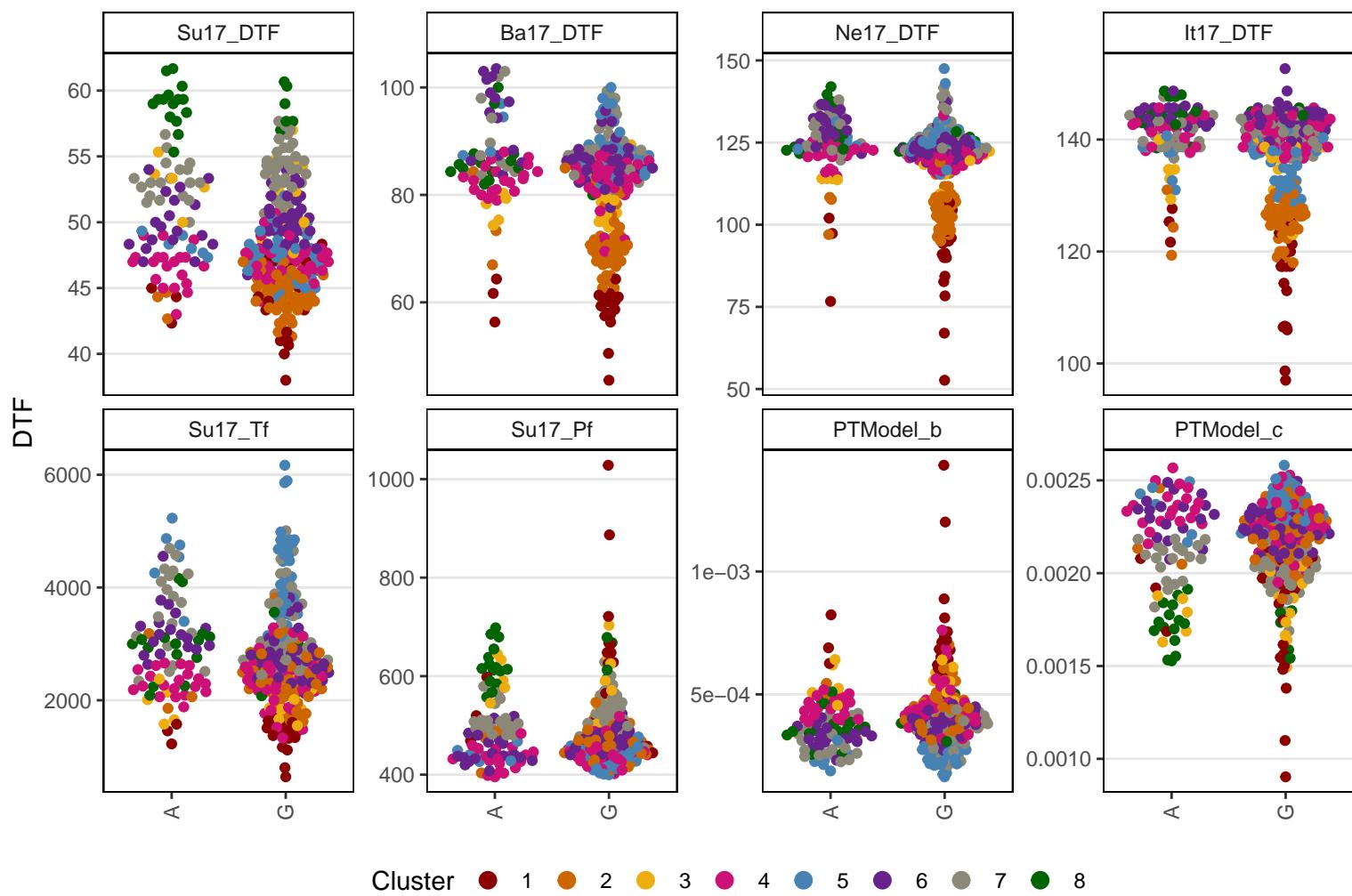
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DTF

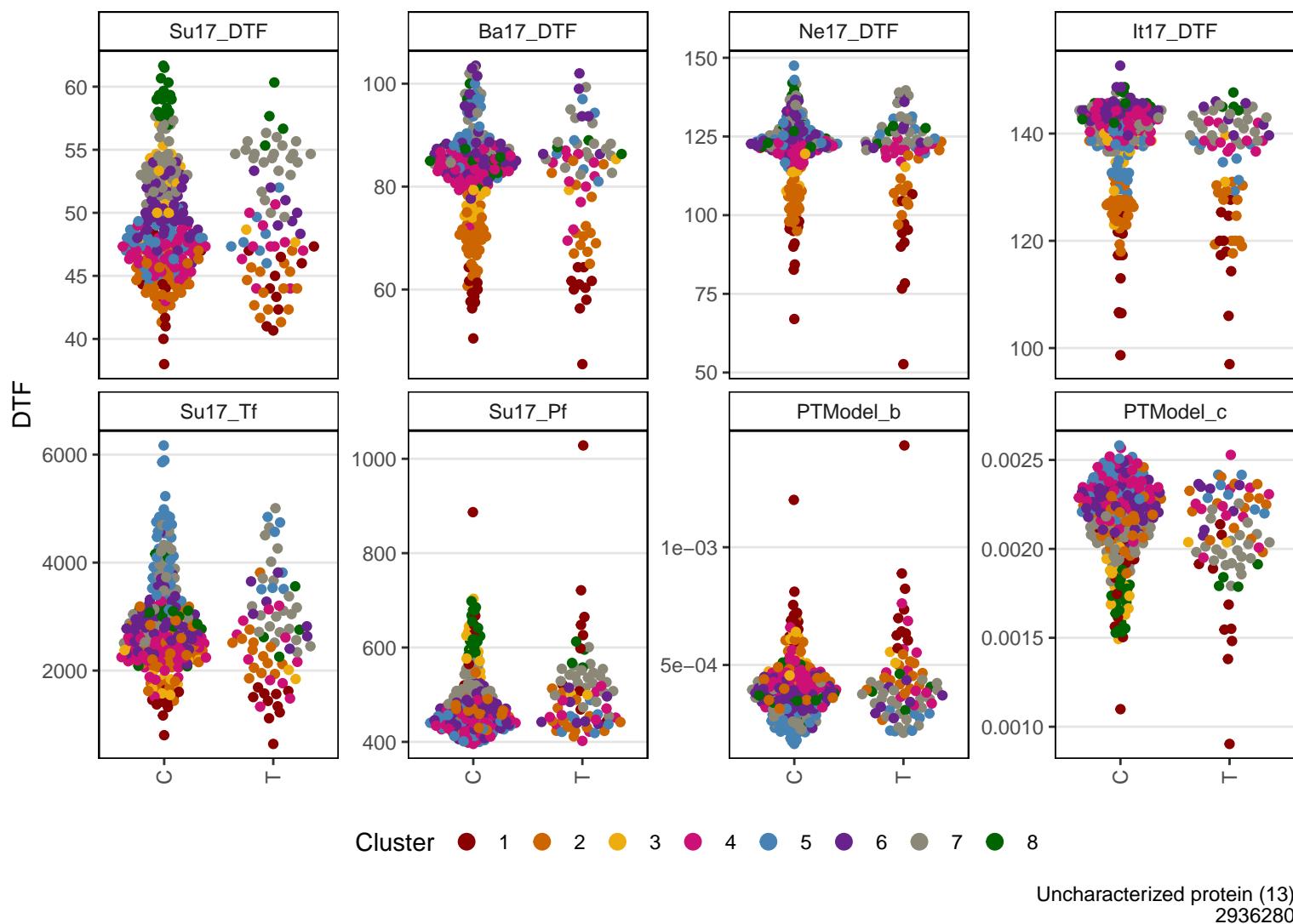


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

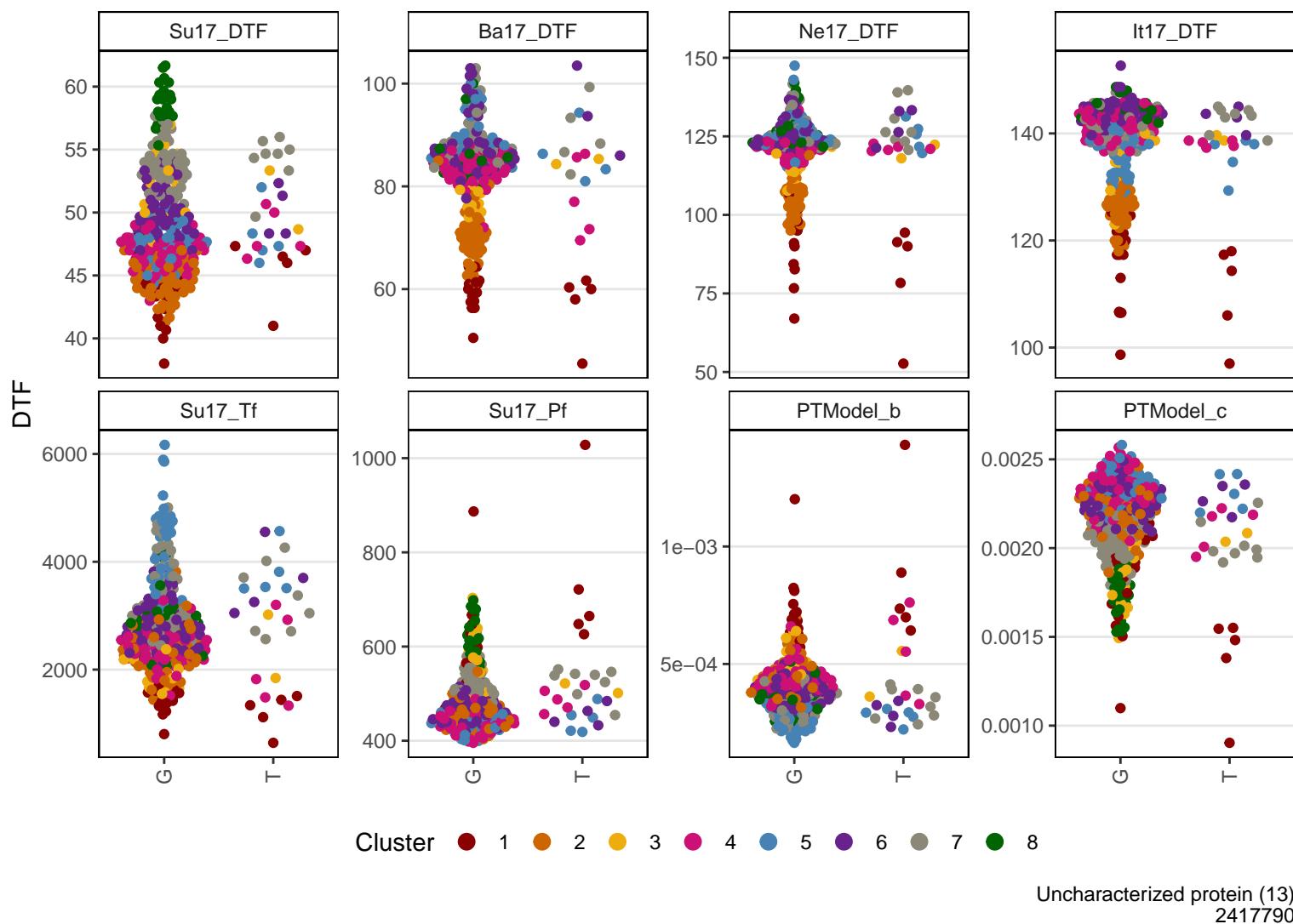
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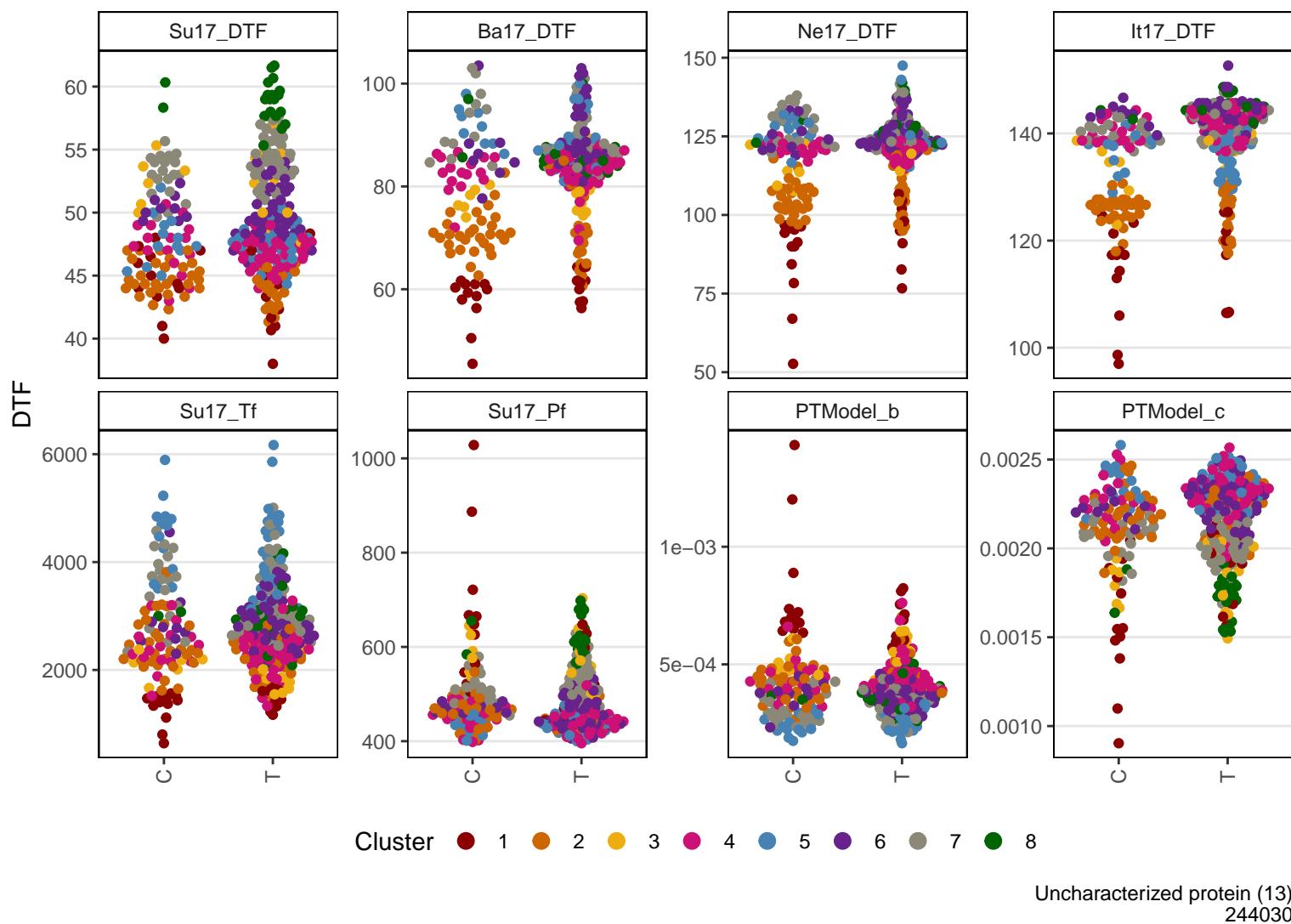
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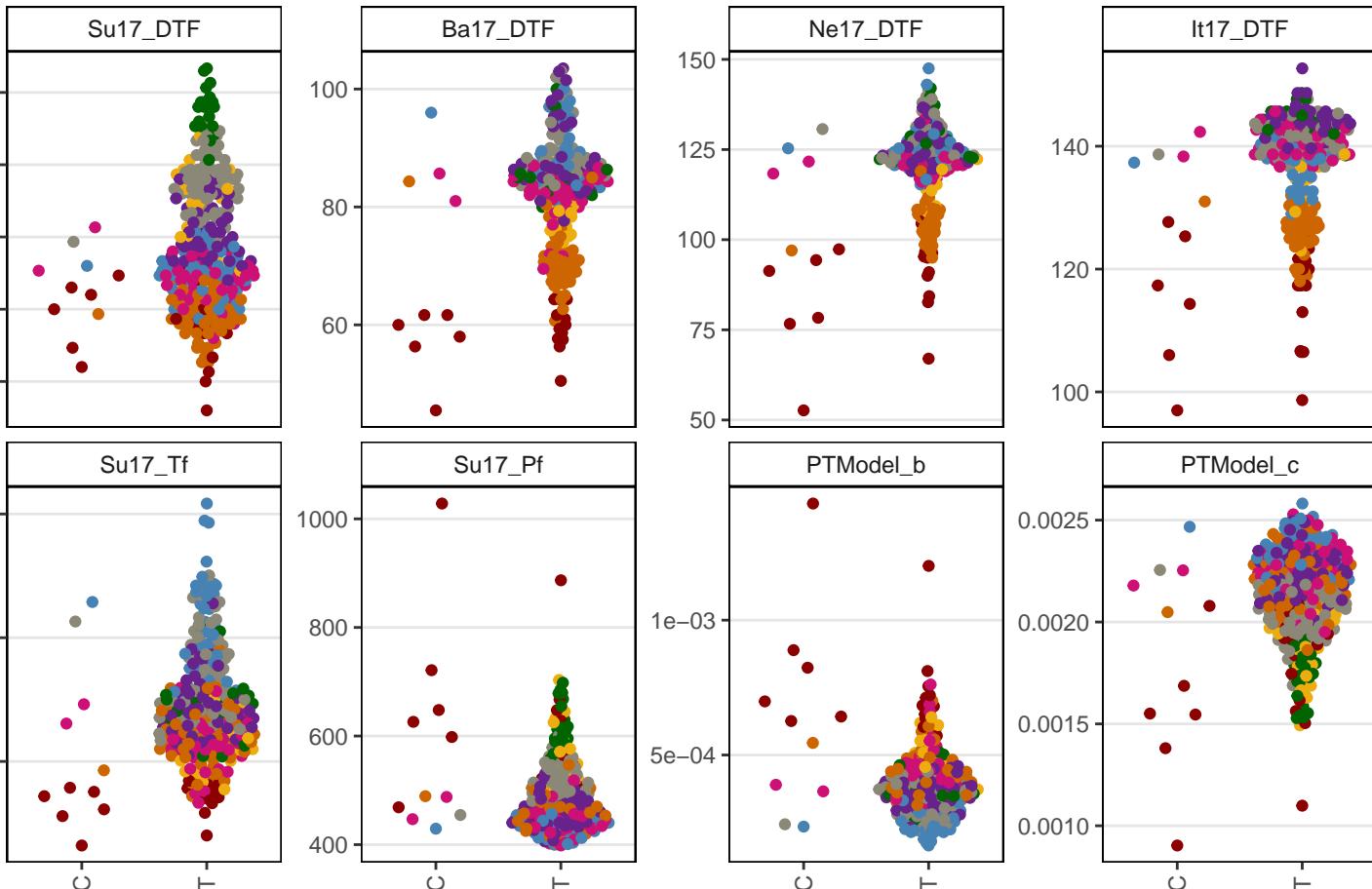


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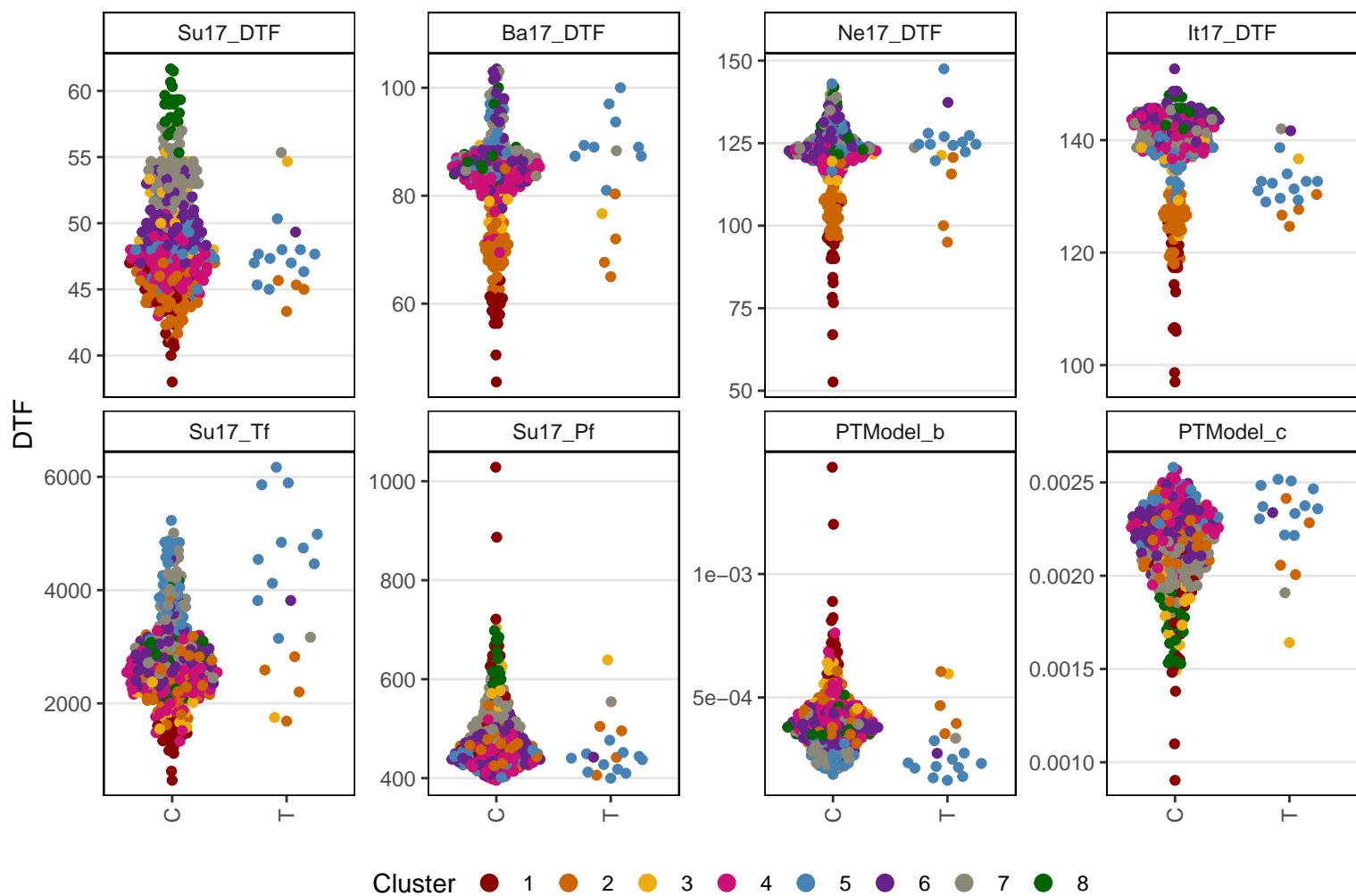
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Cluster 1 2 3 4 5 6 7 8

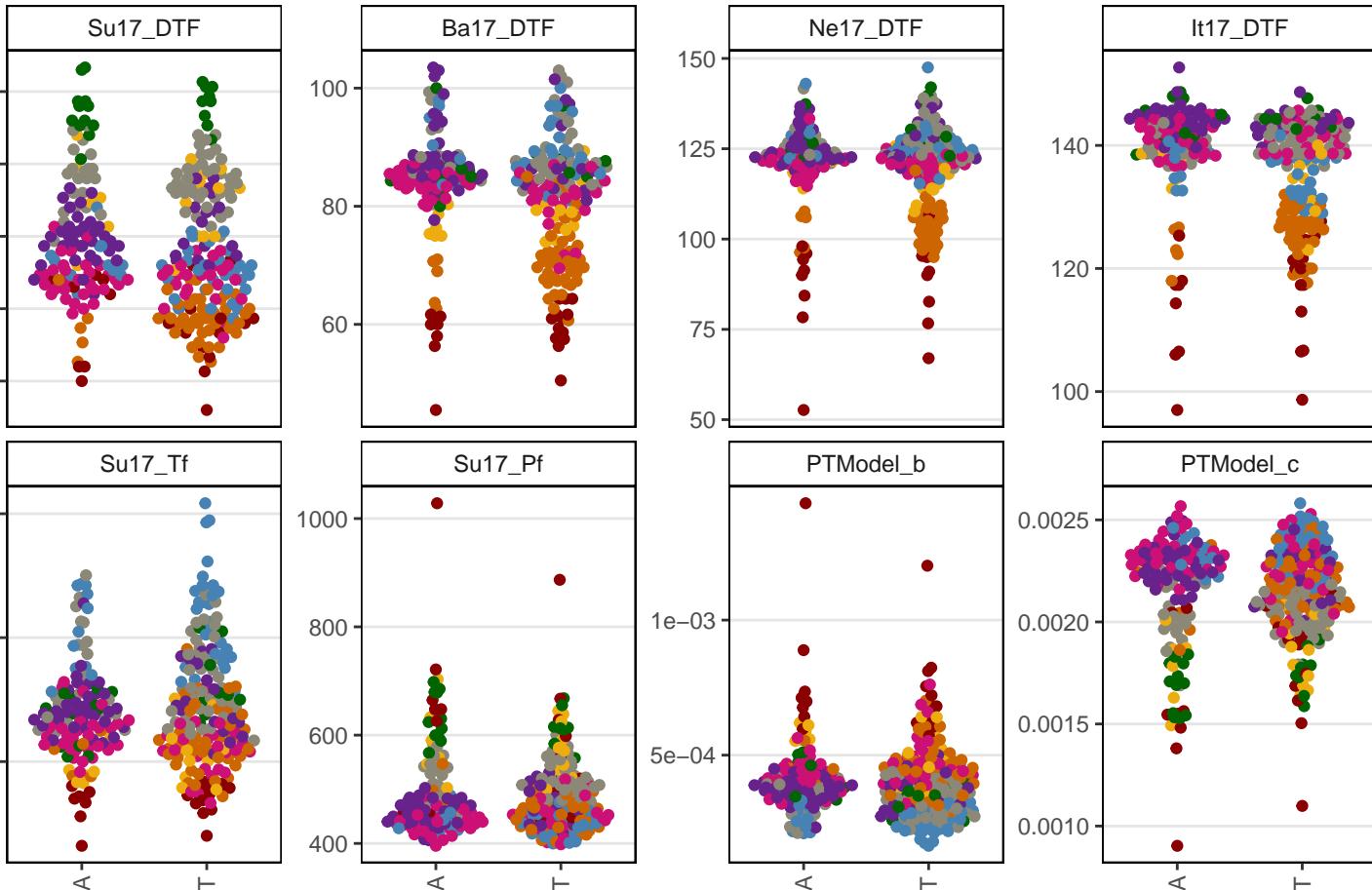
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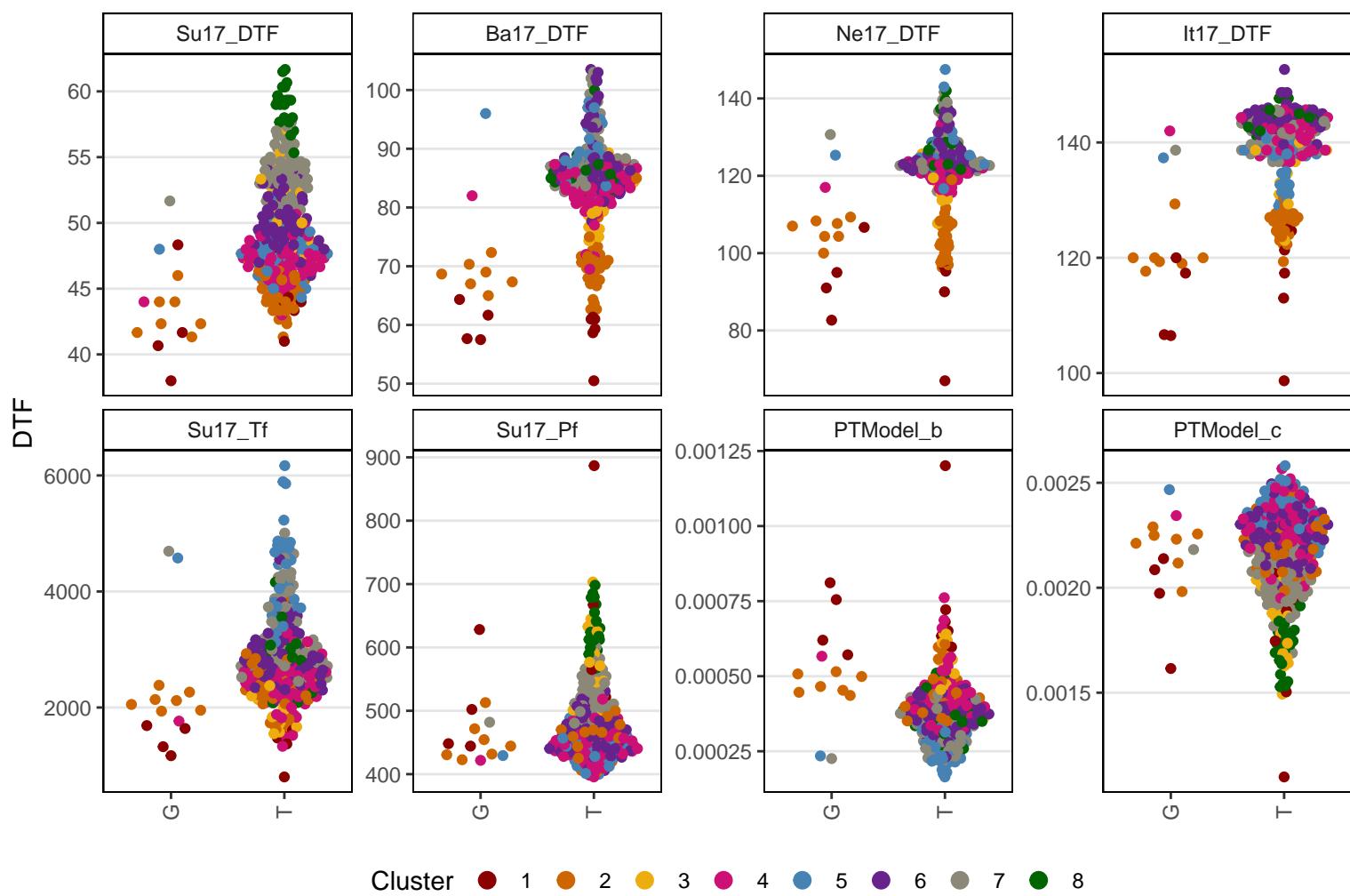
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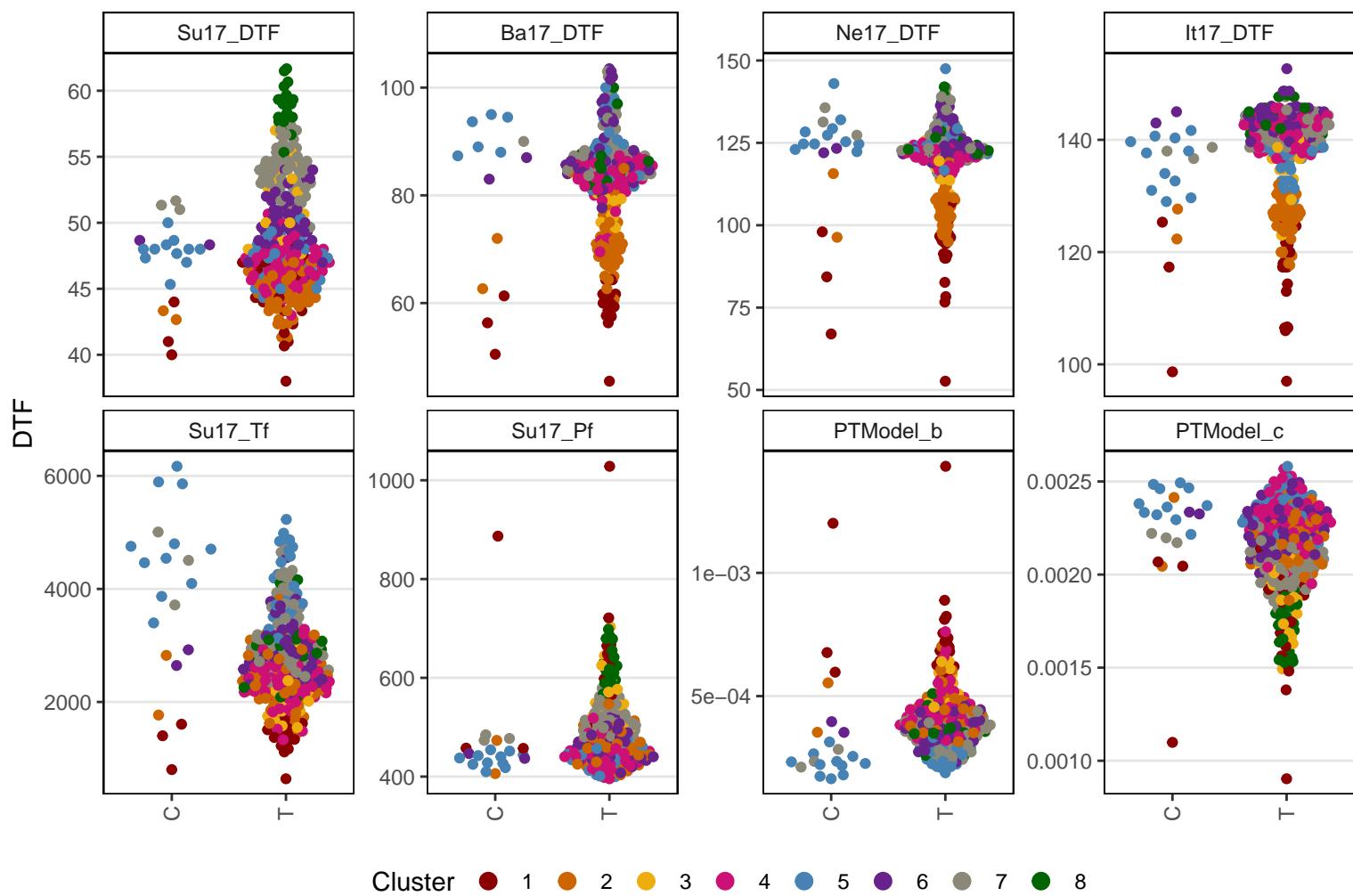


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

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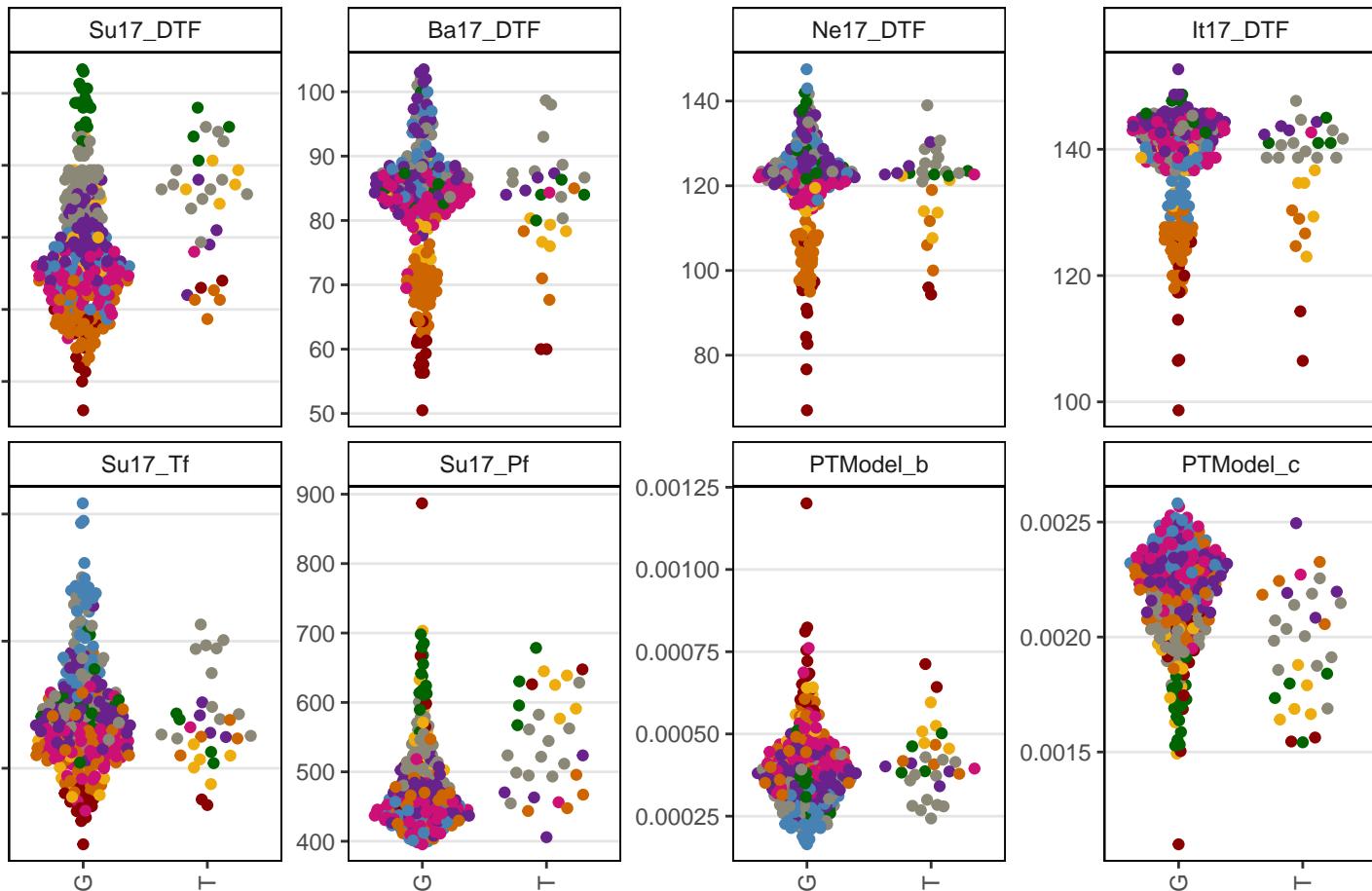


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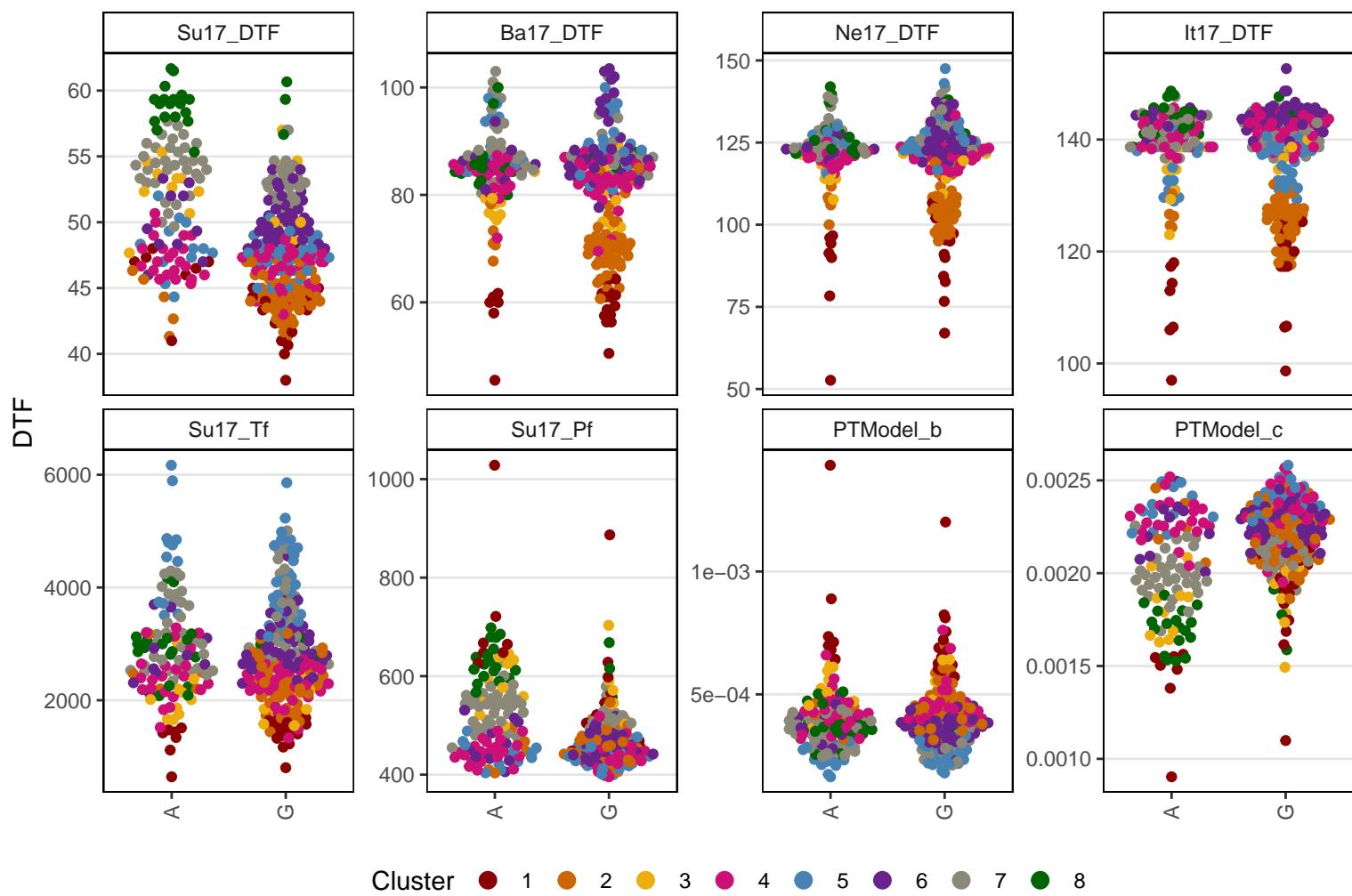
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DTF

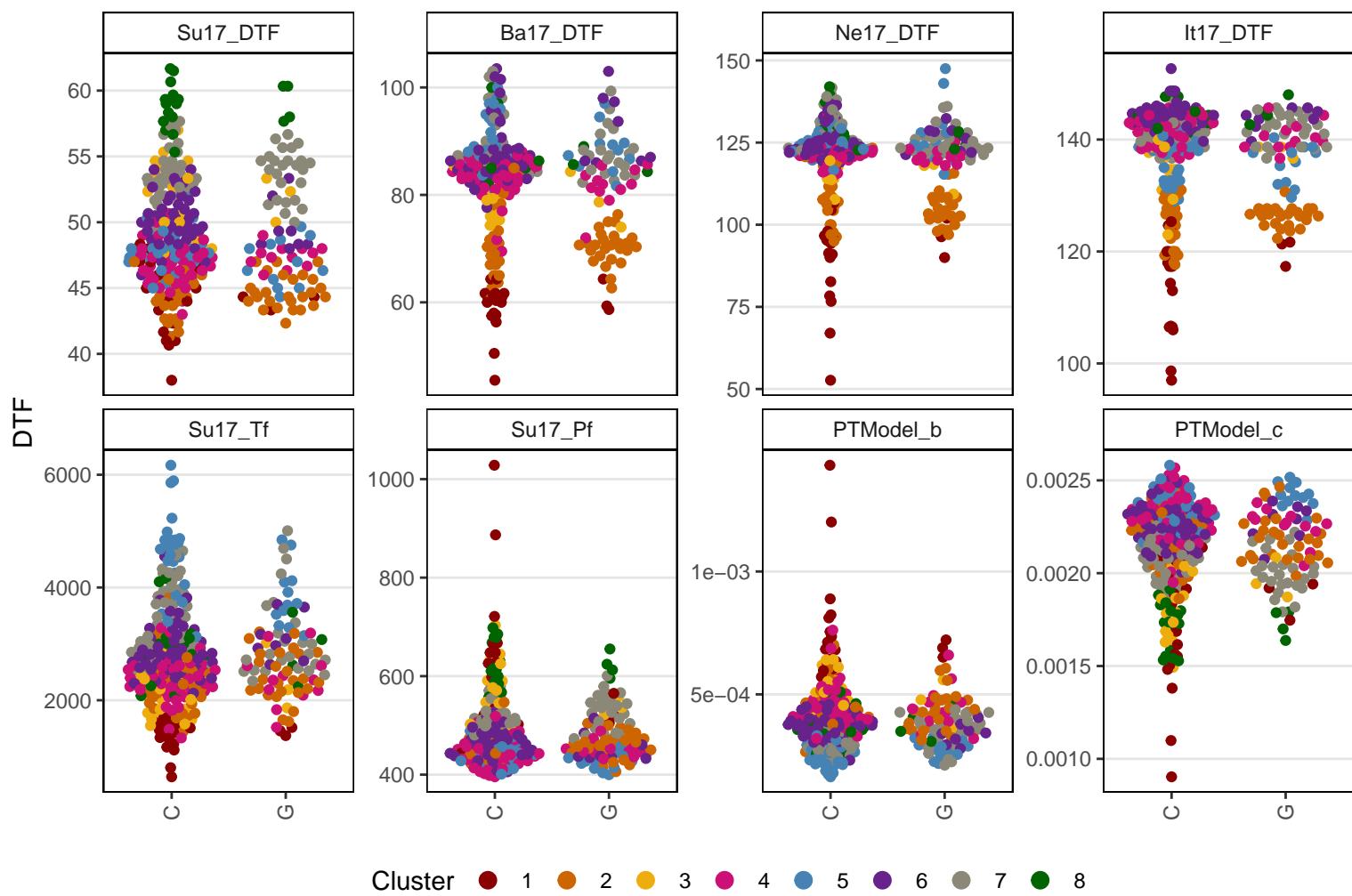


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

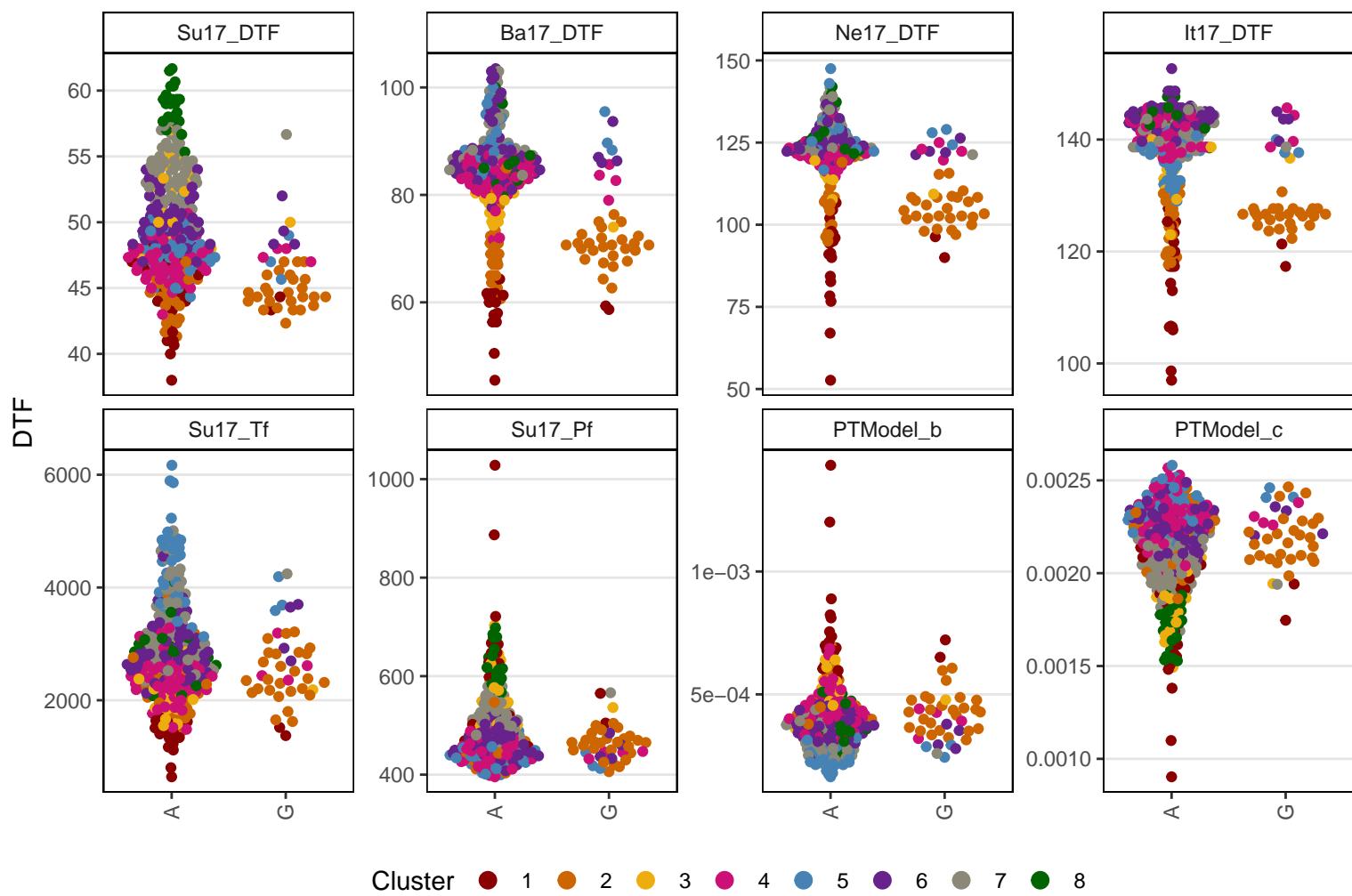
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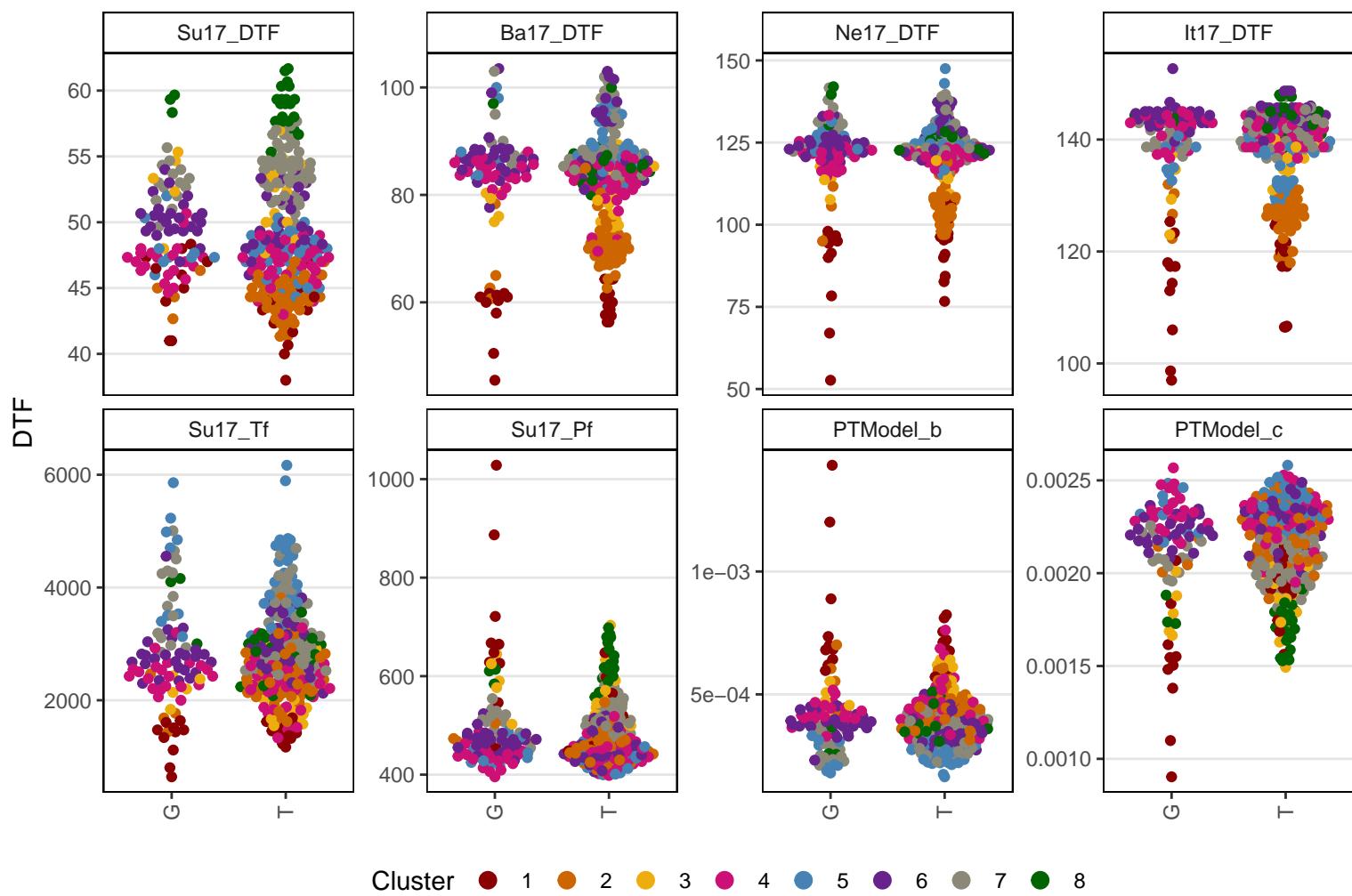
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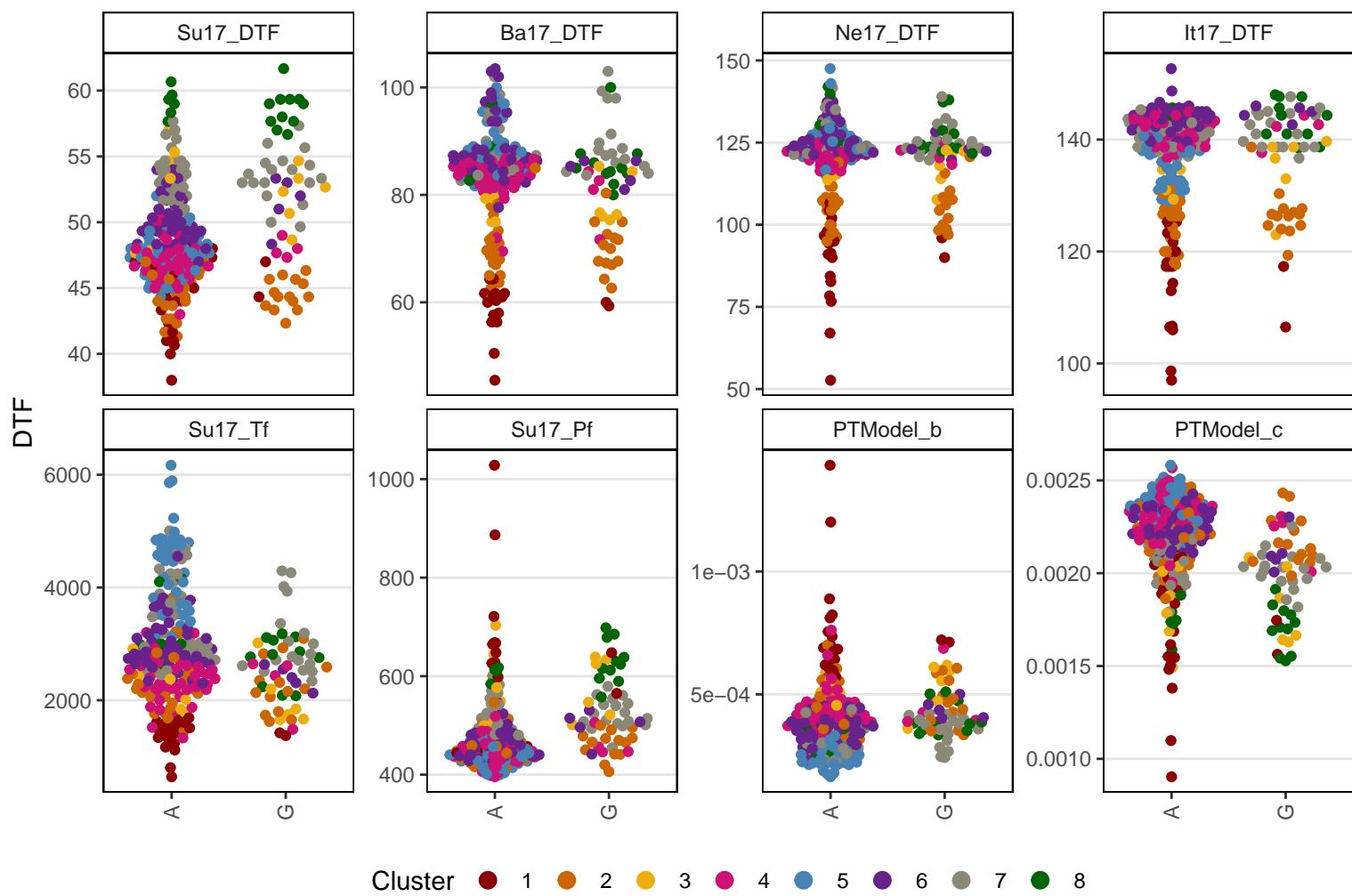
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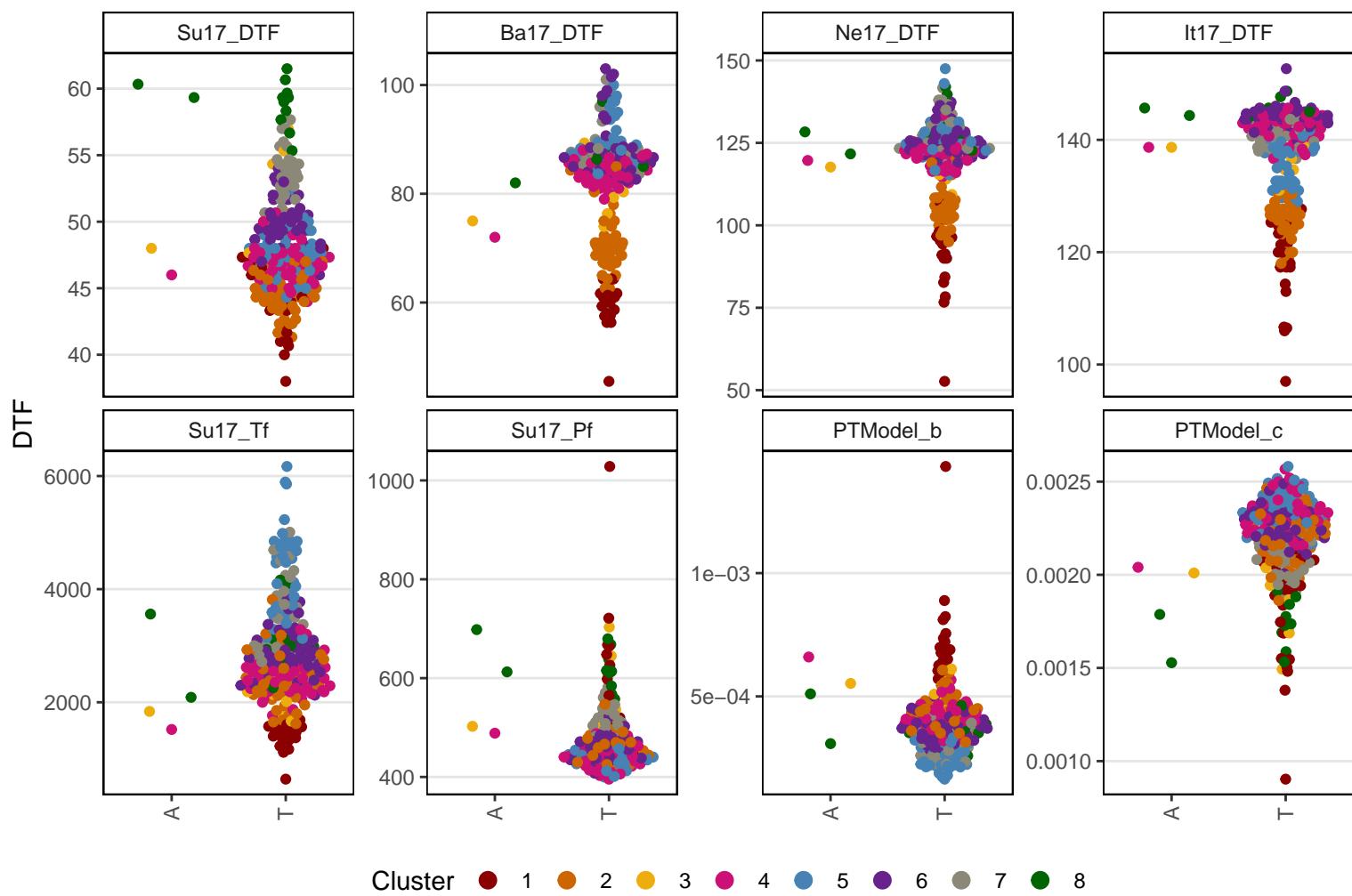
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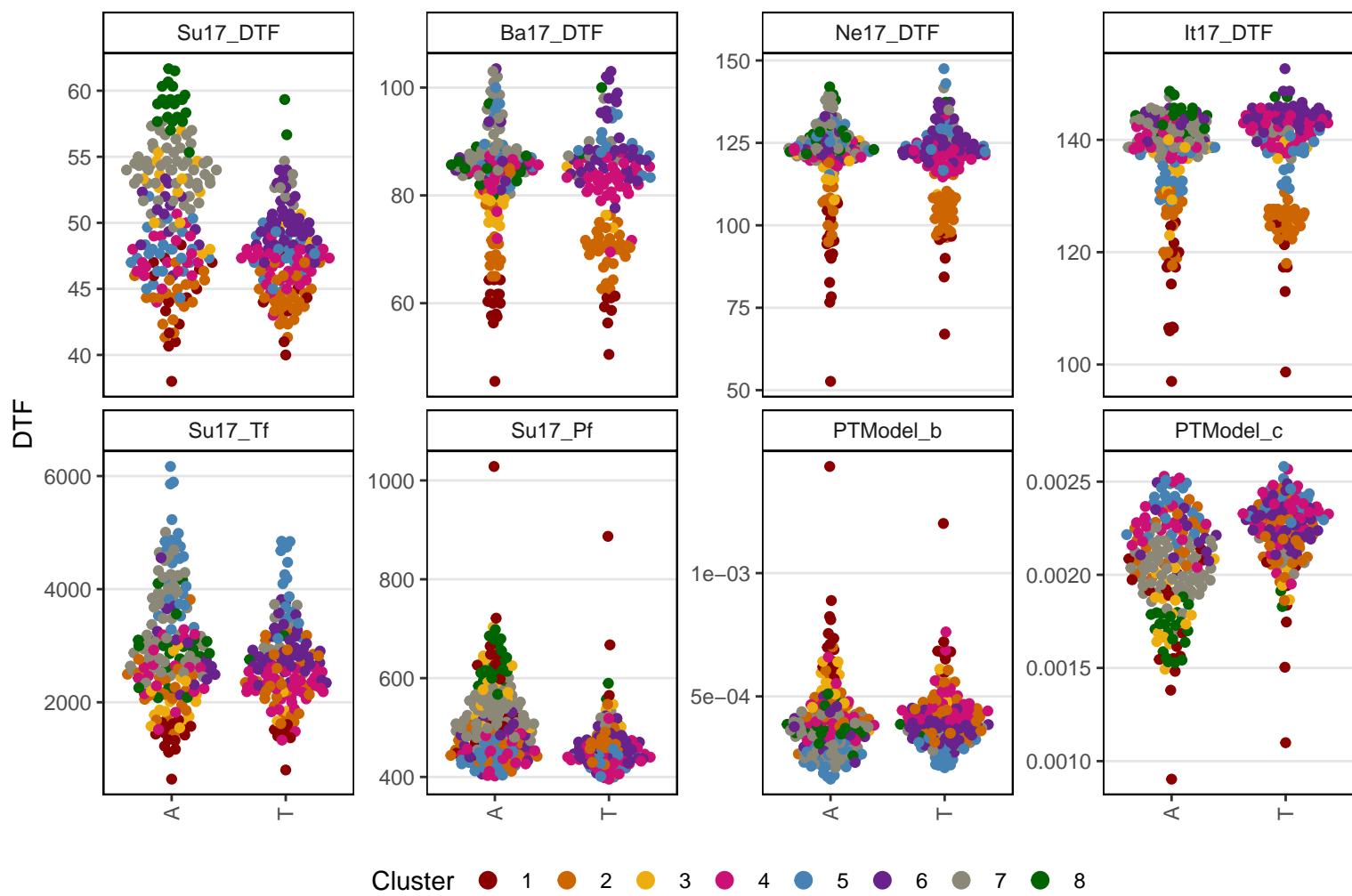
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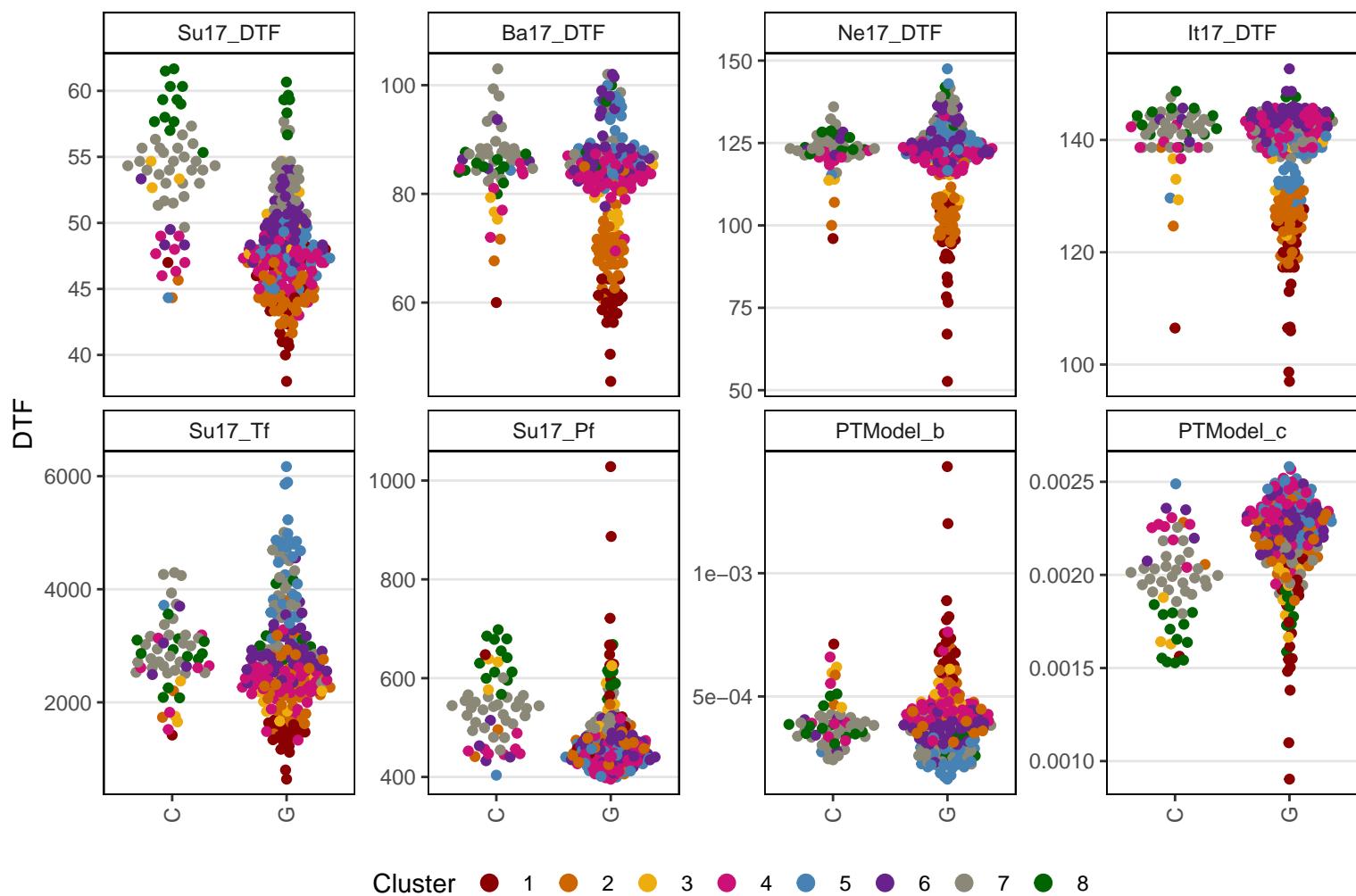
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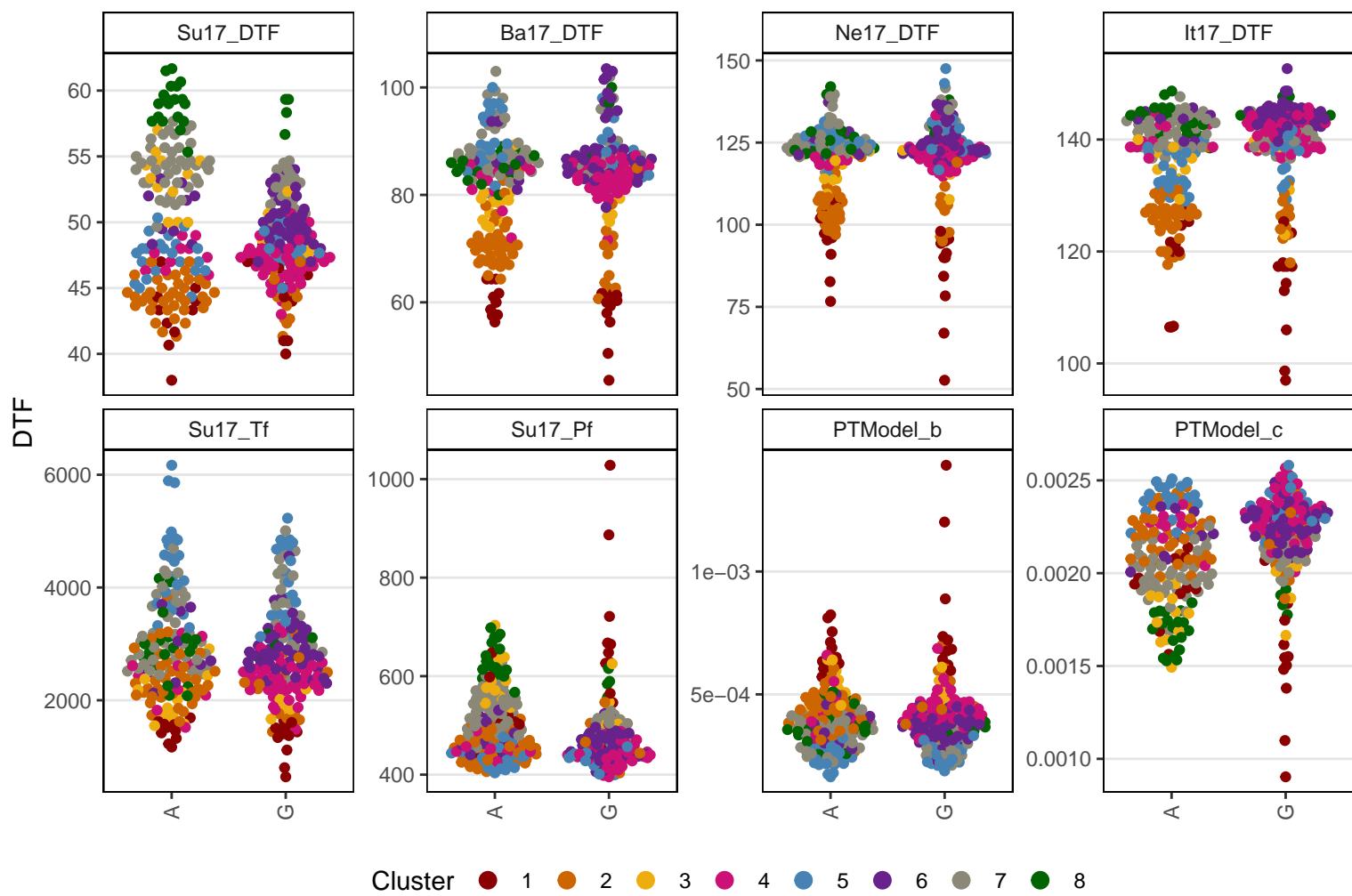
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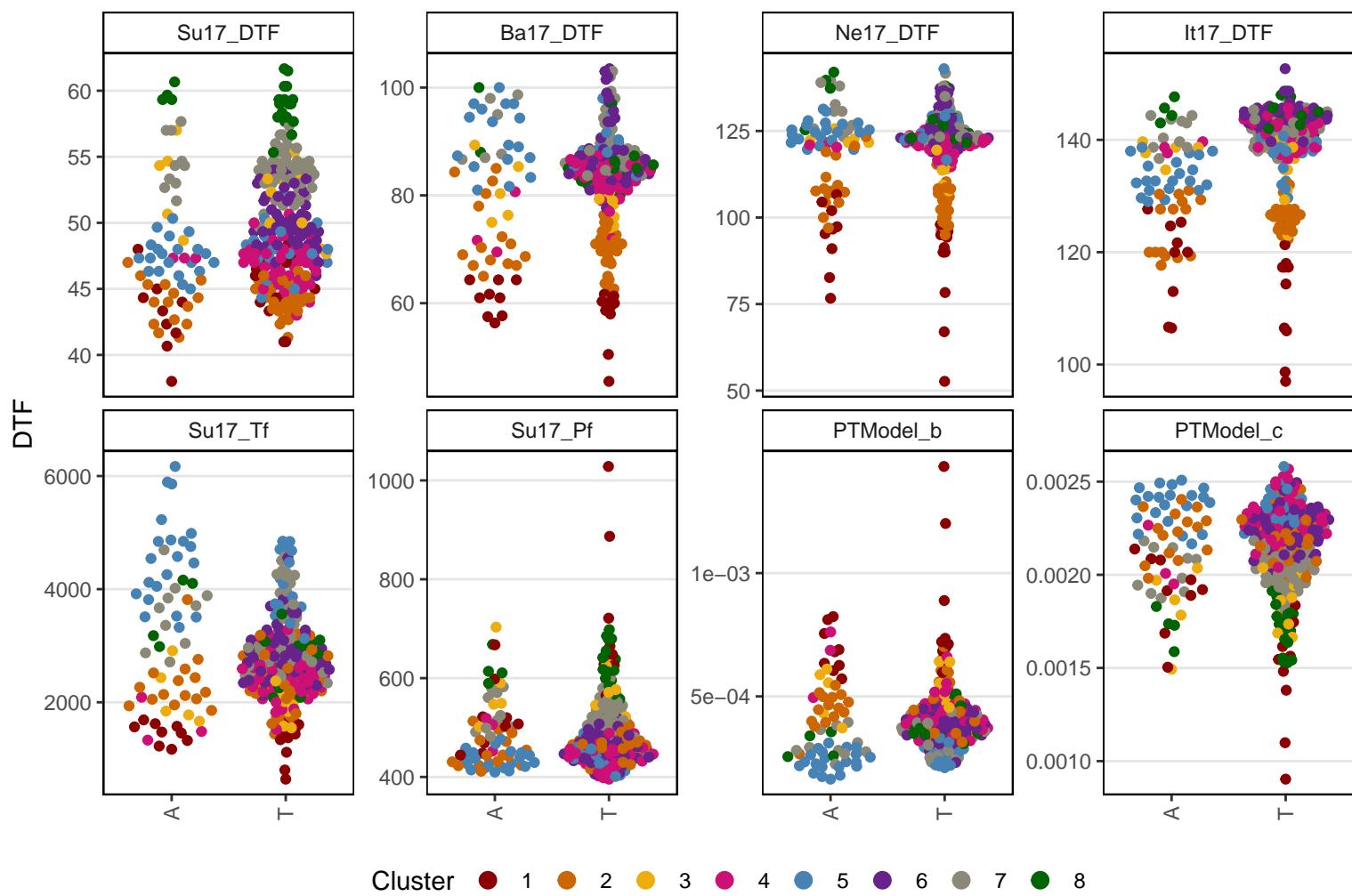
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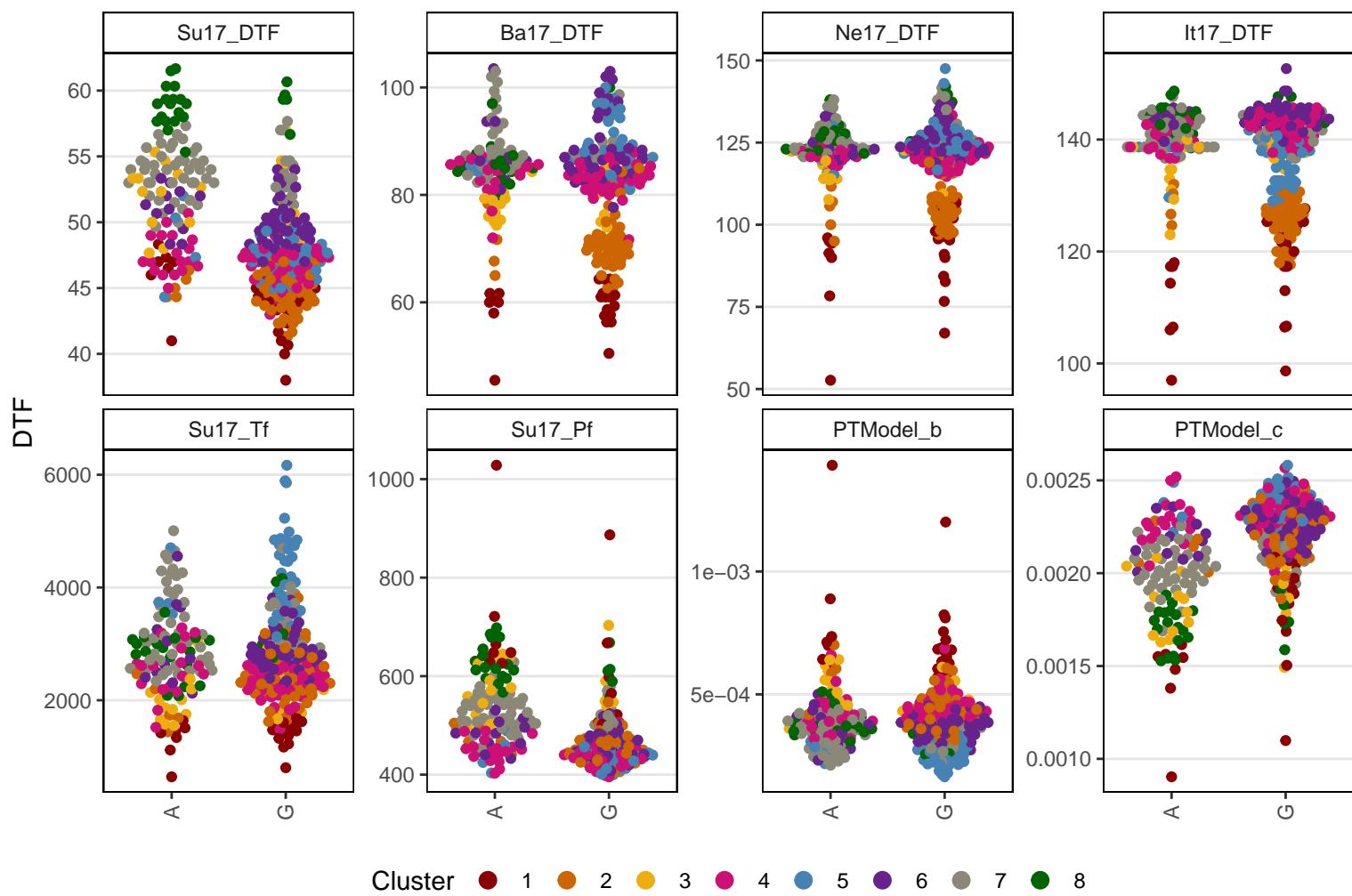
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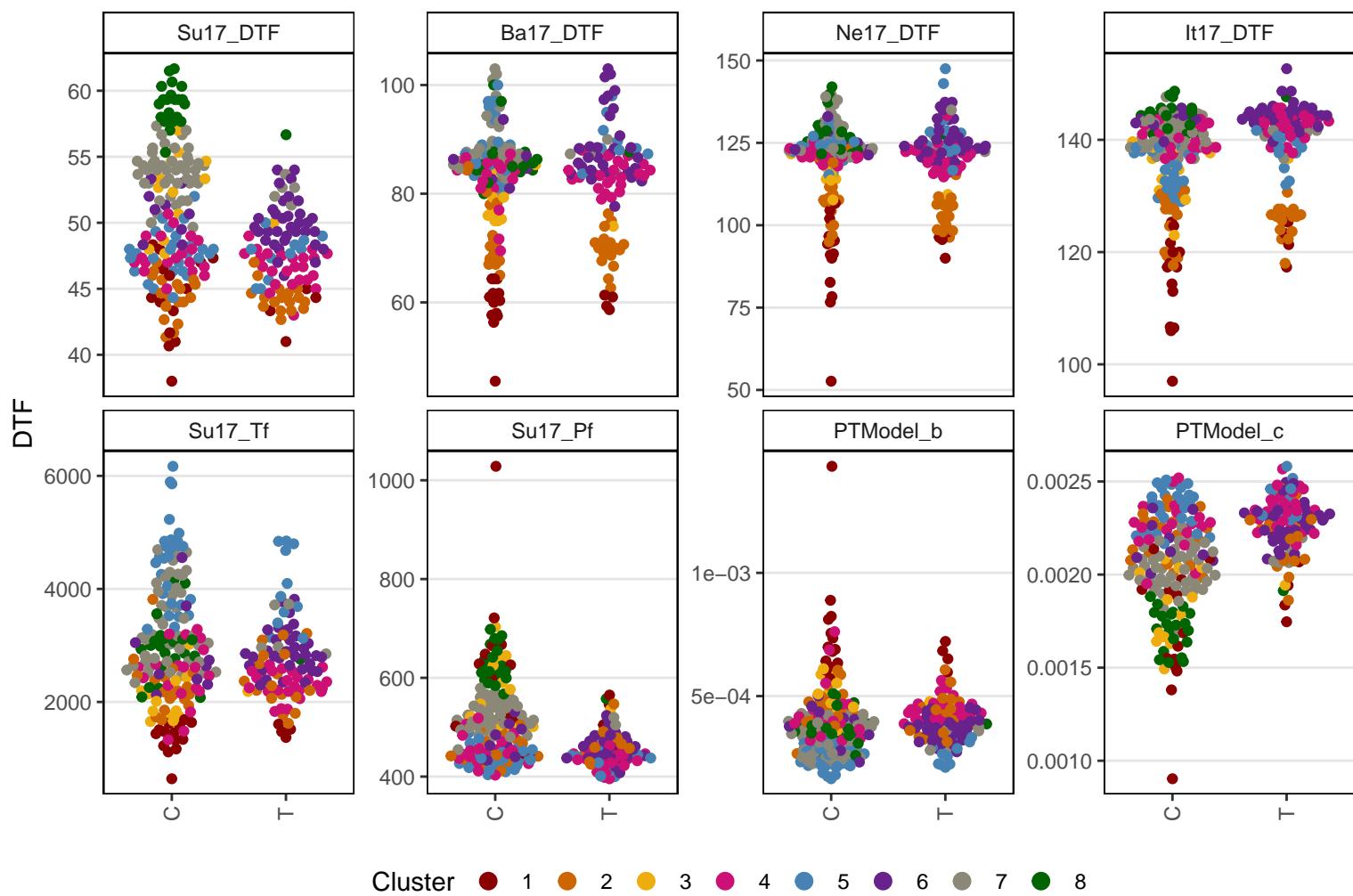
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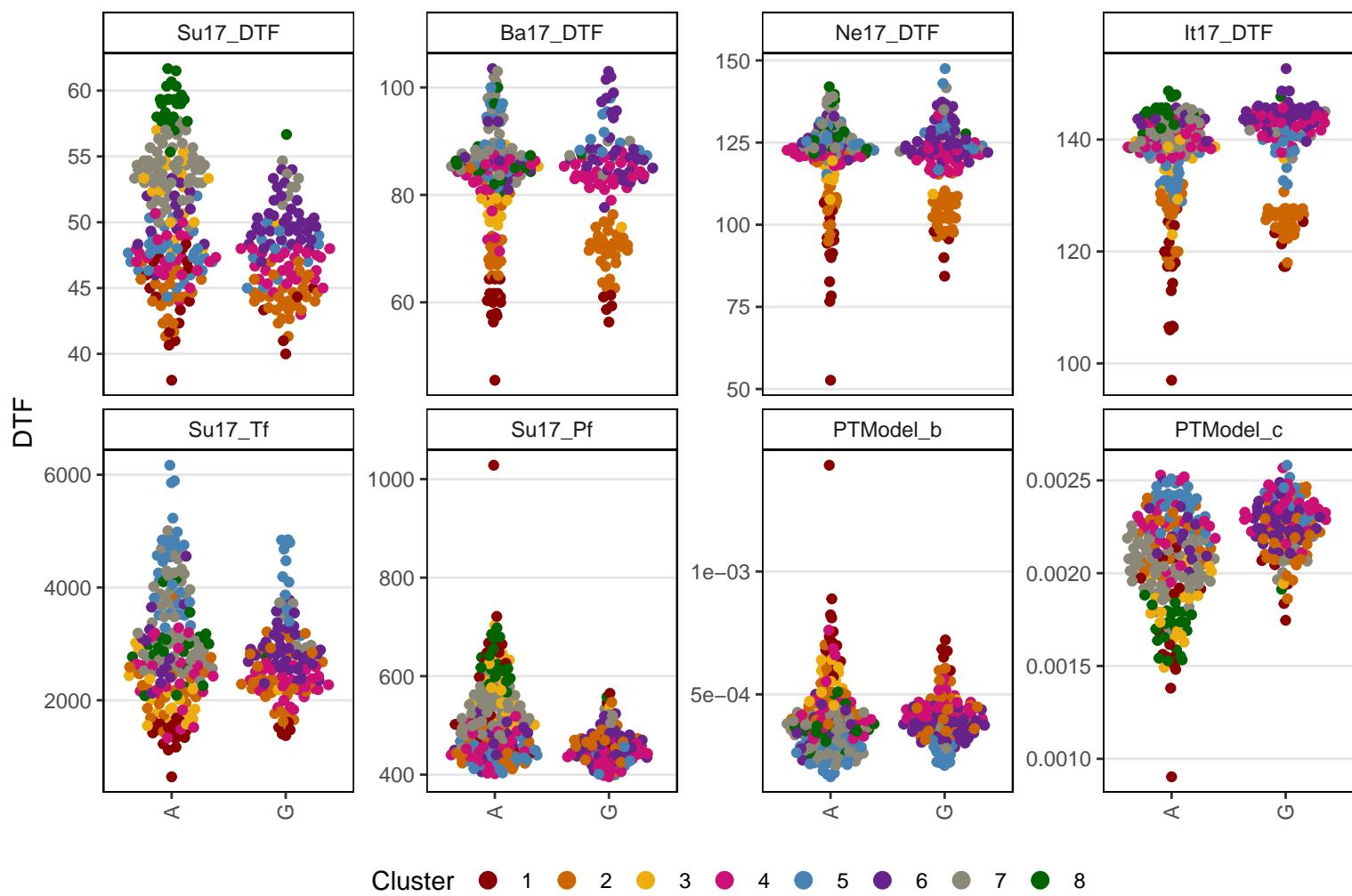
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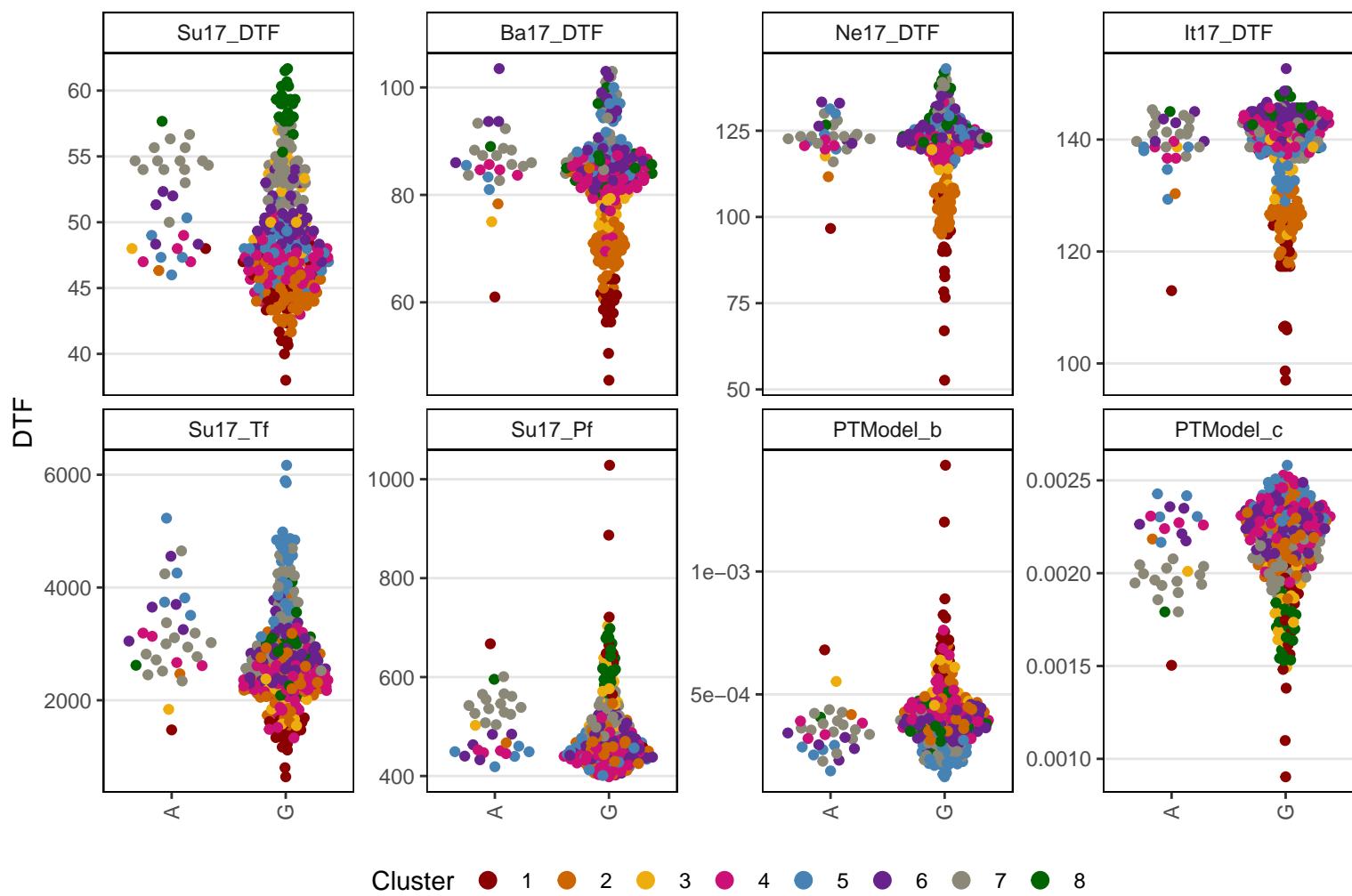
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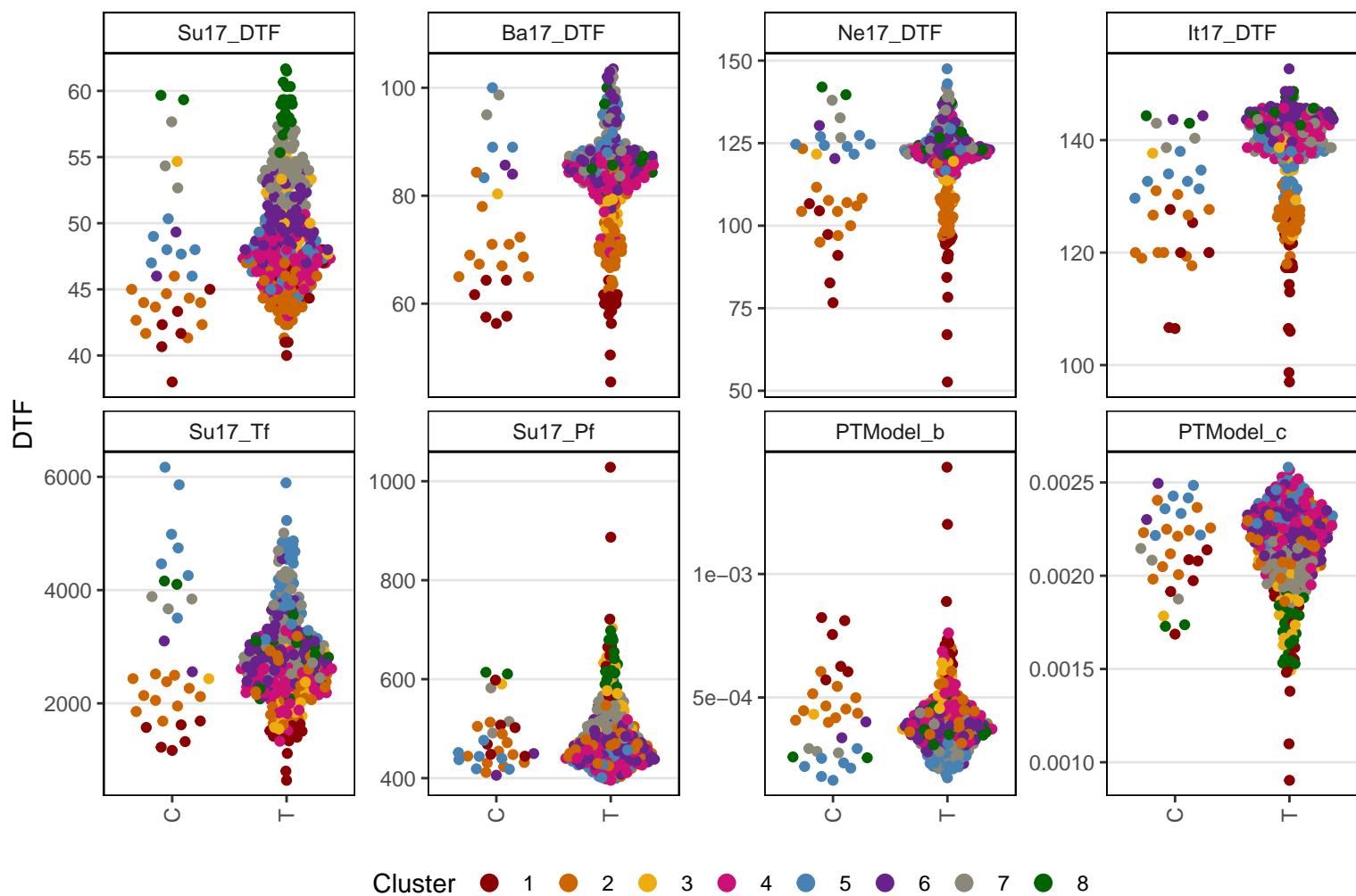
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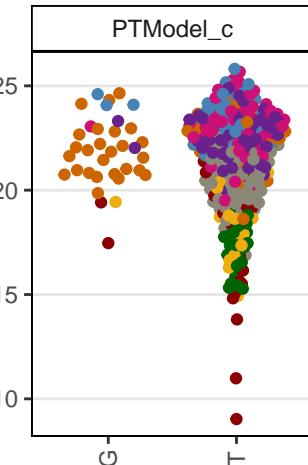
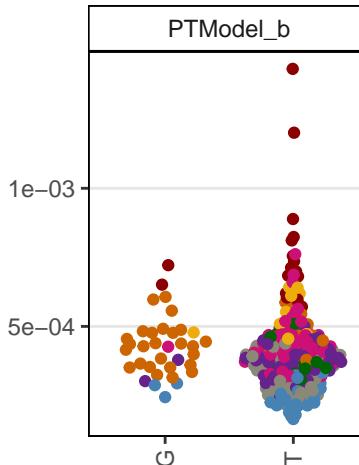
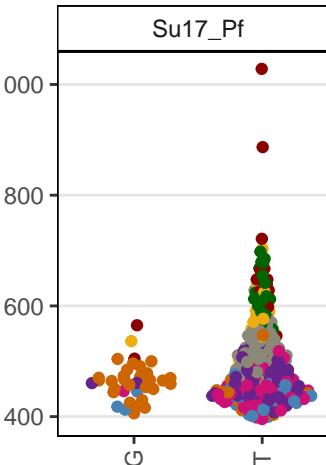
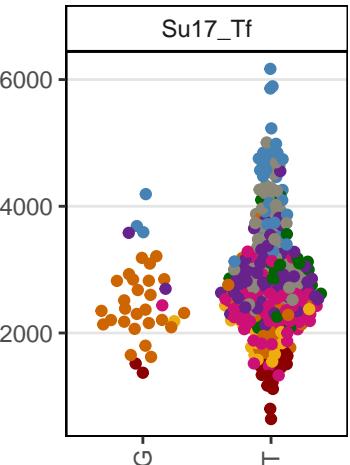
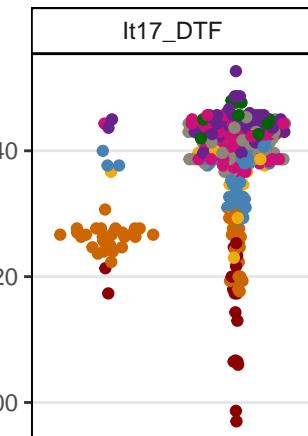
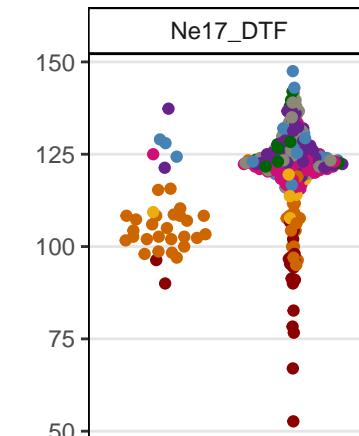
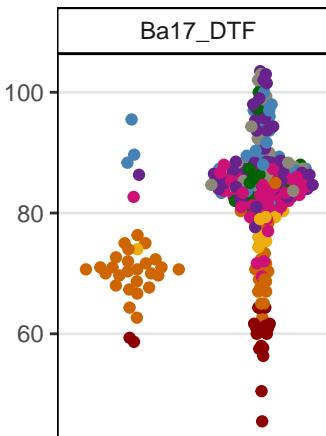
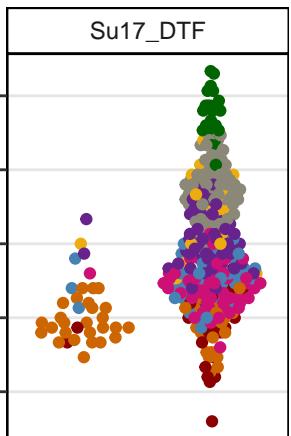


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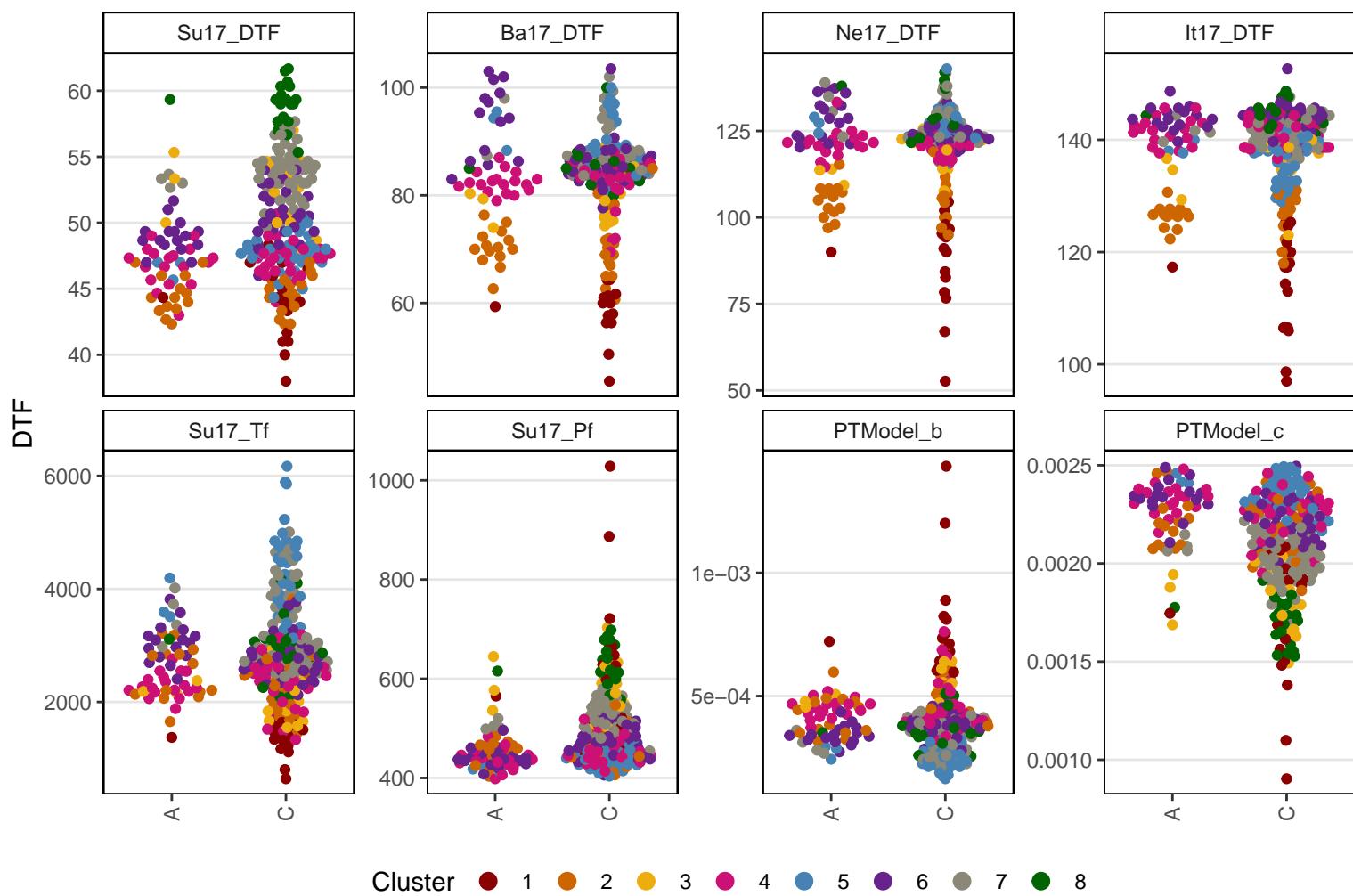
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DTF

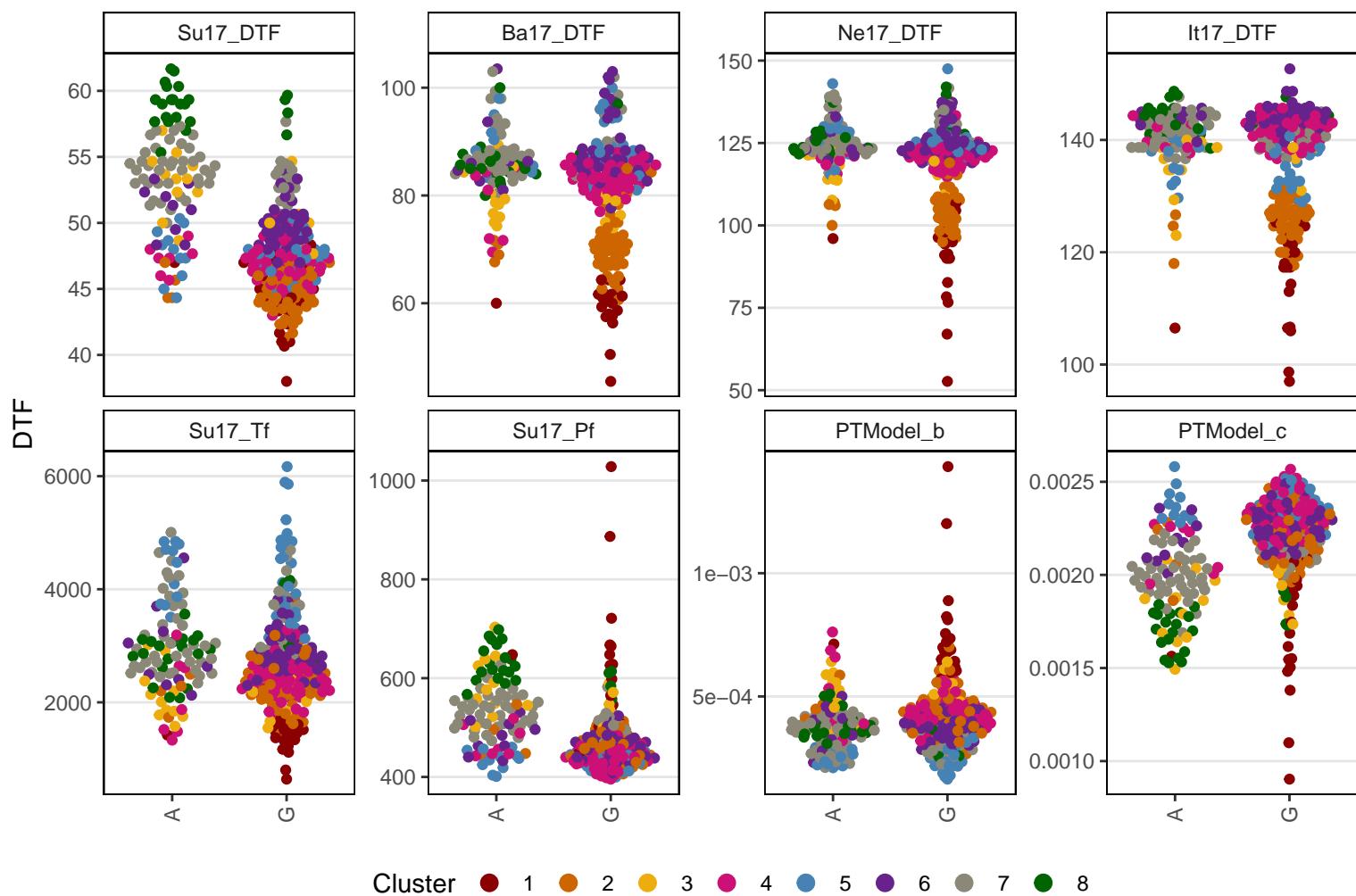


Cluster 1 2 3 4 5 6 7 8

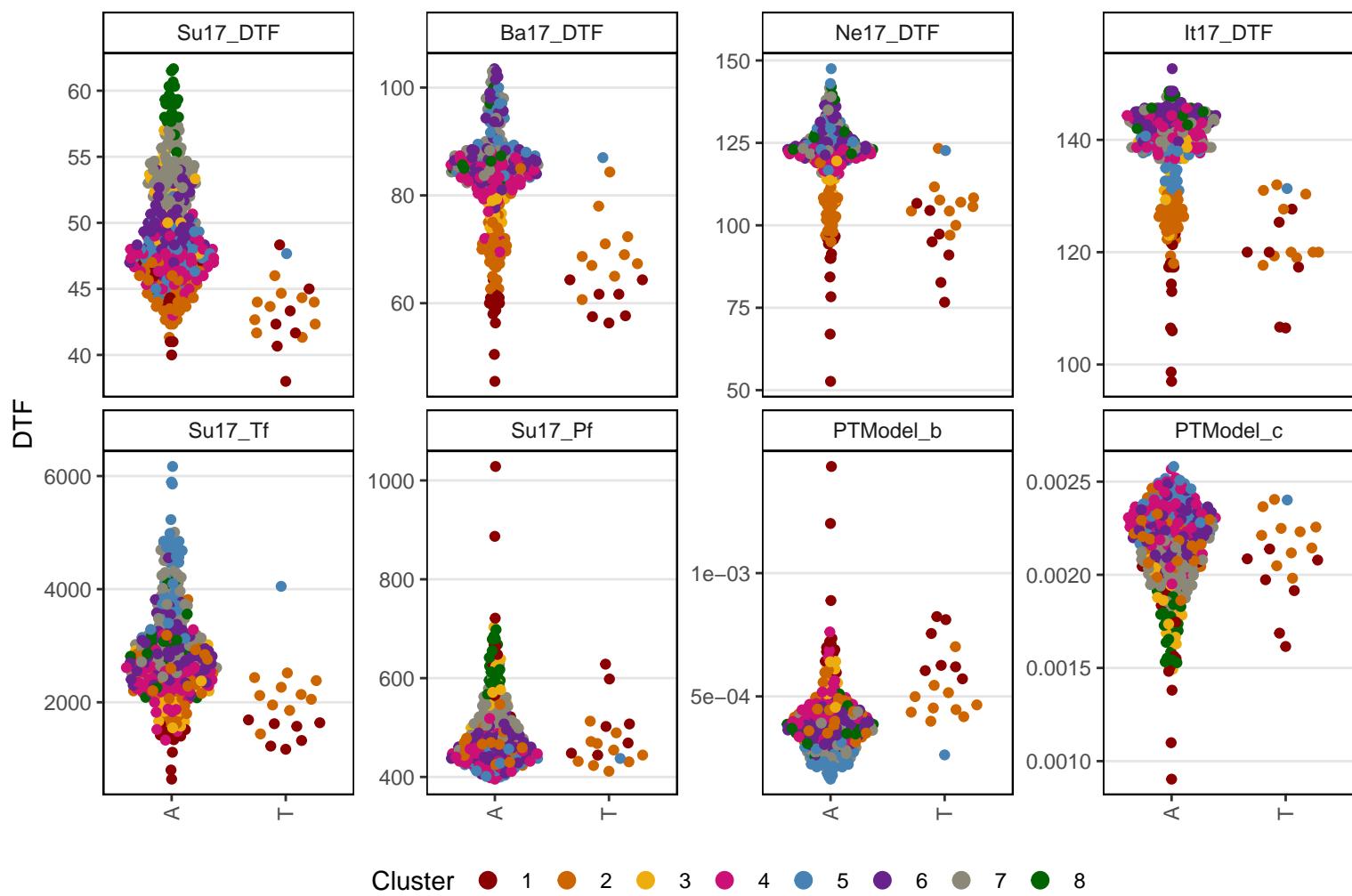
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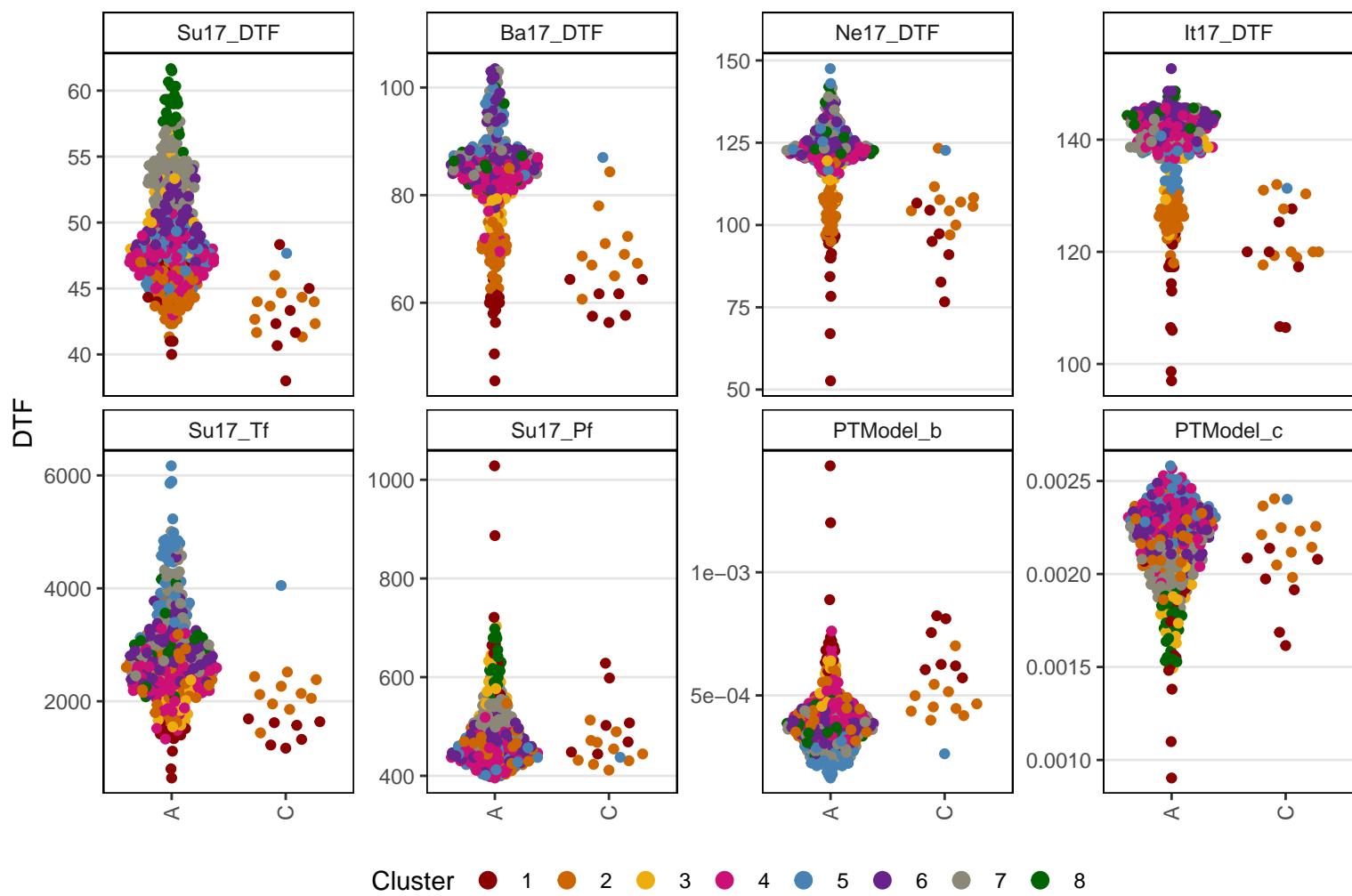
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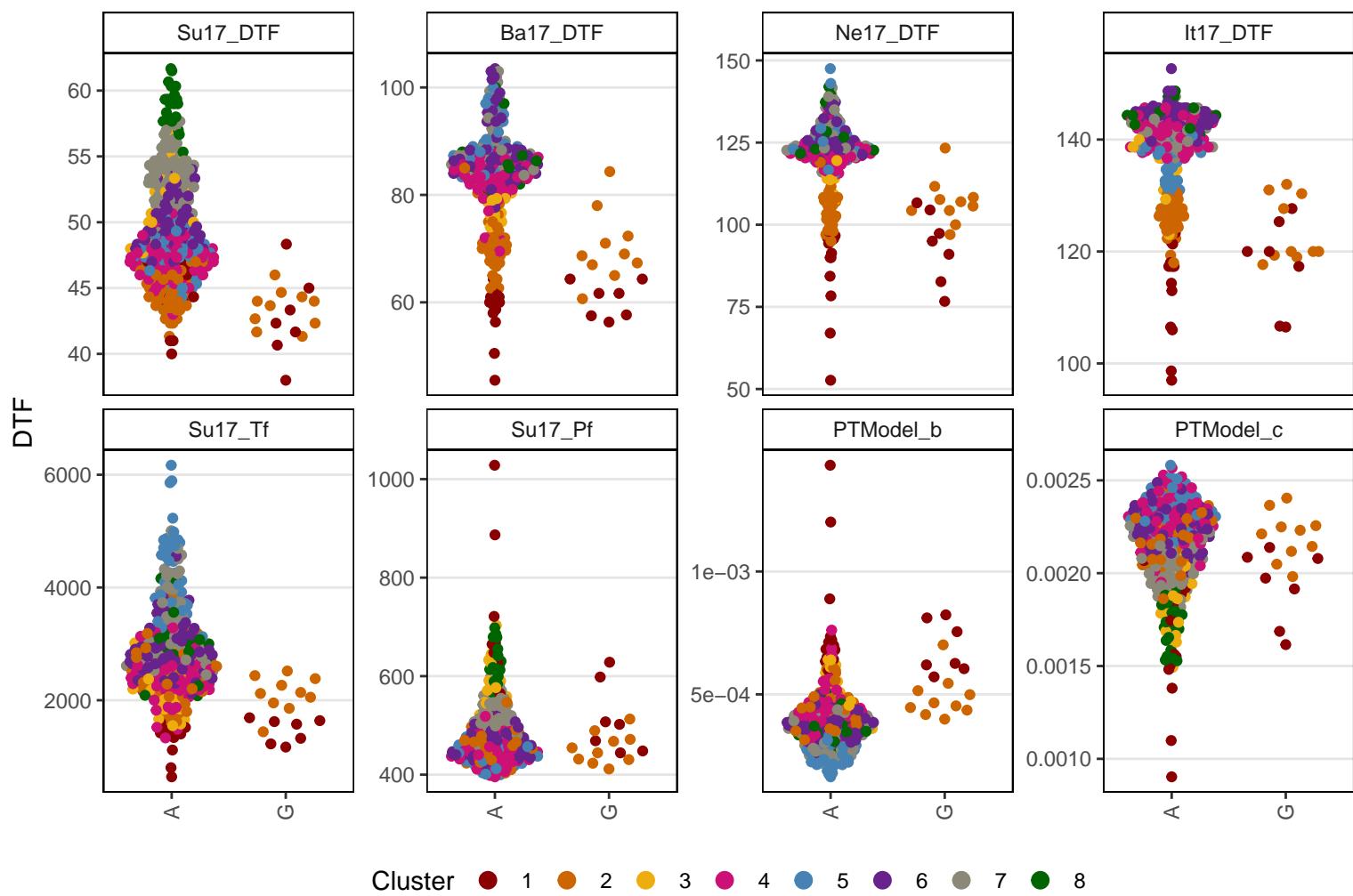
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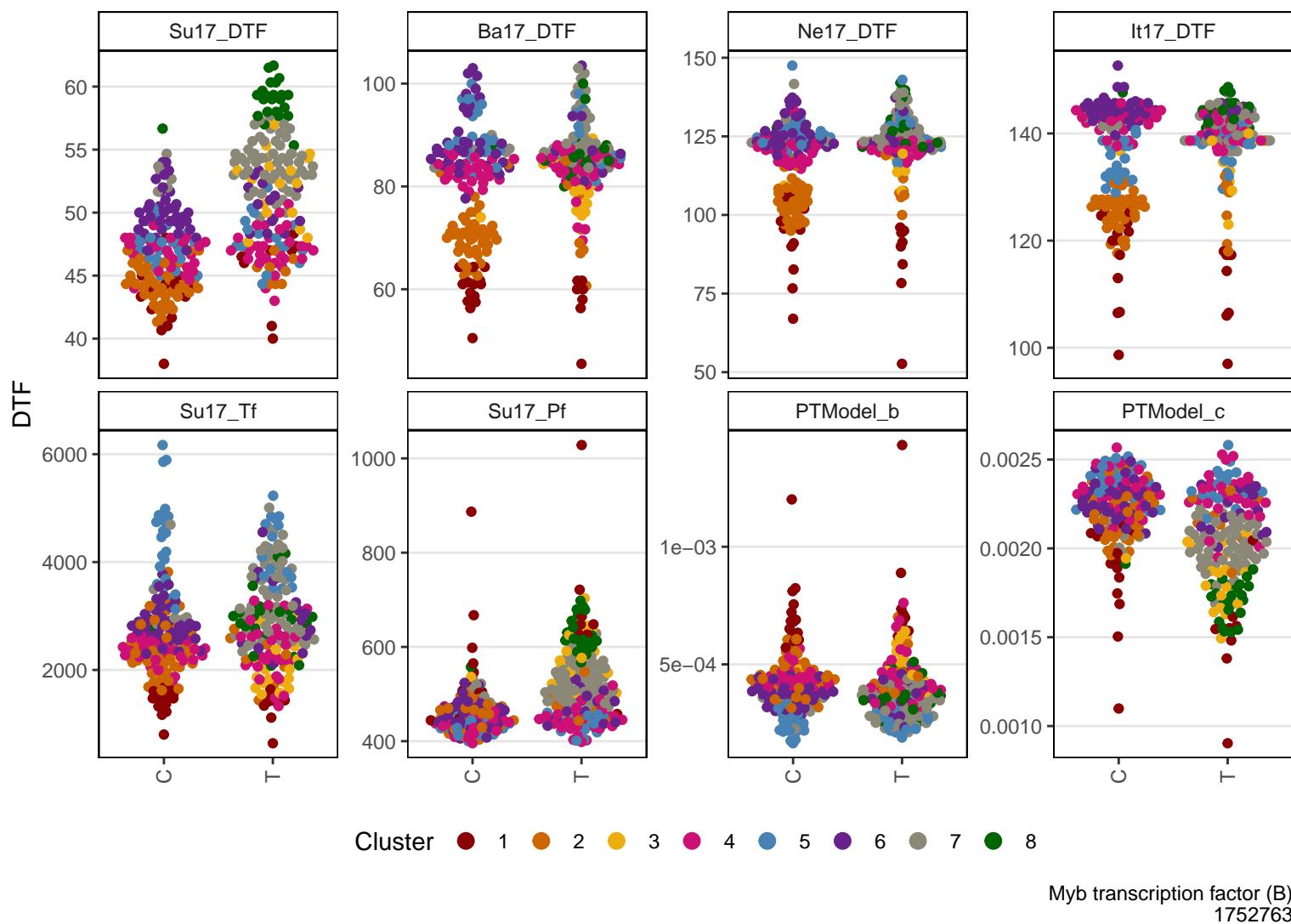
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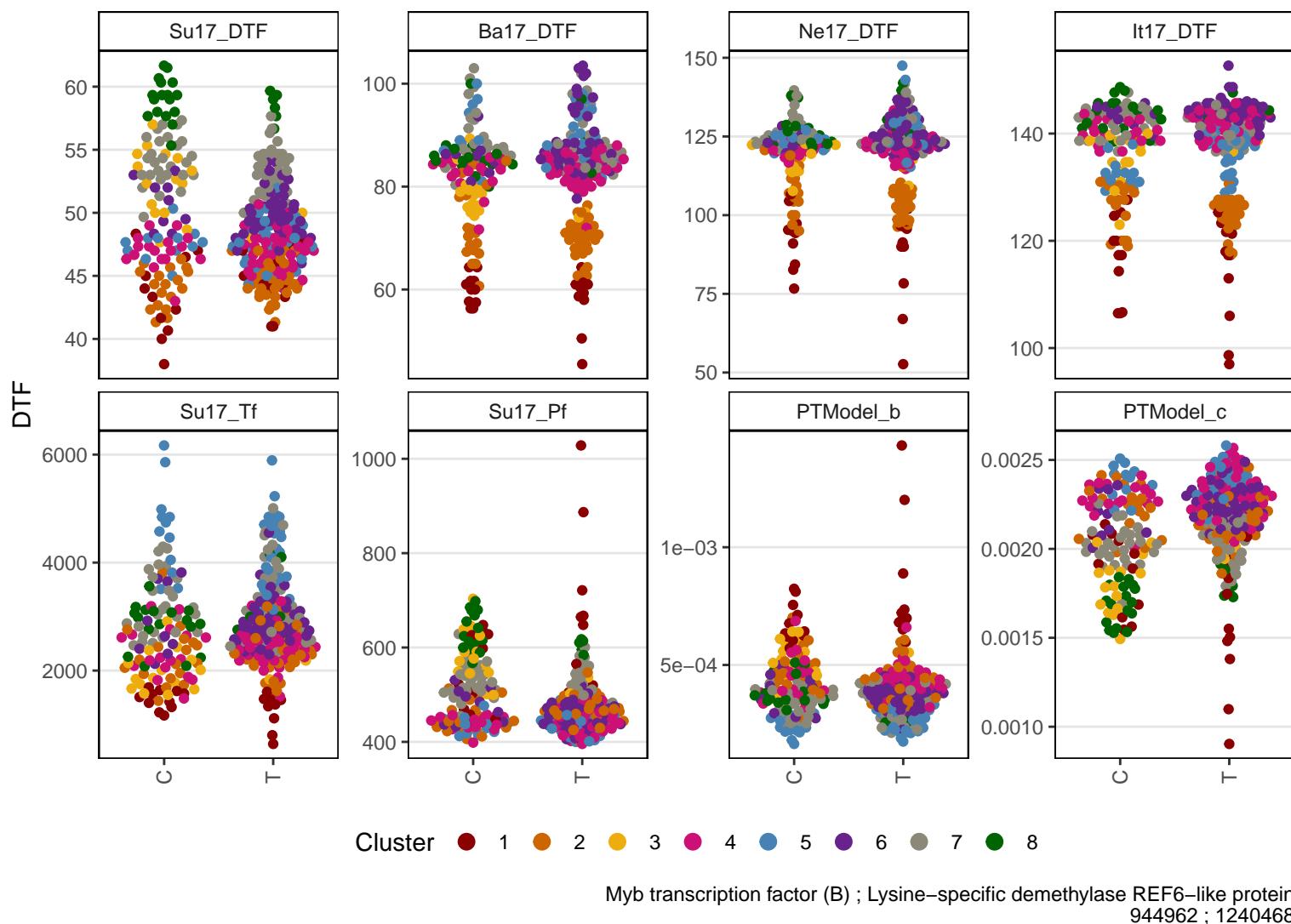
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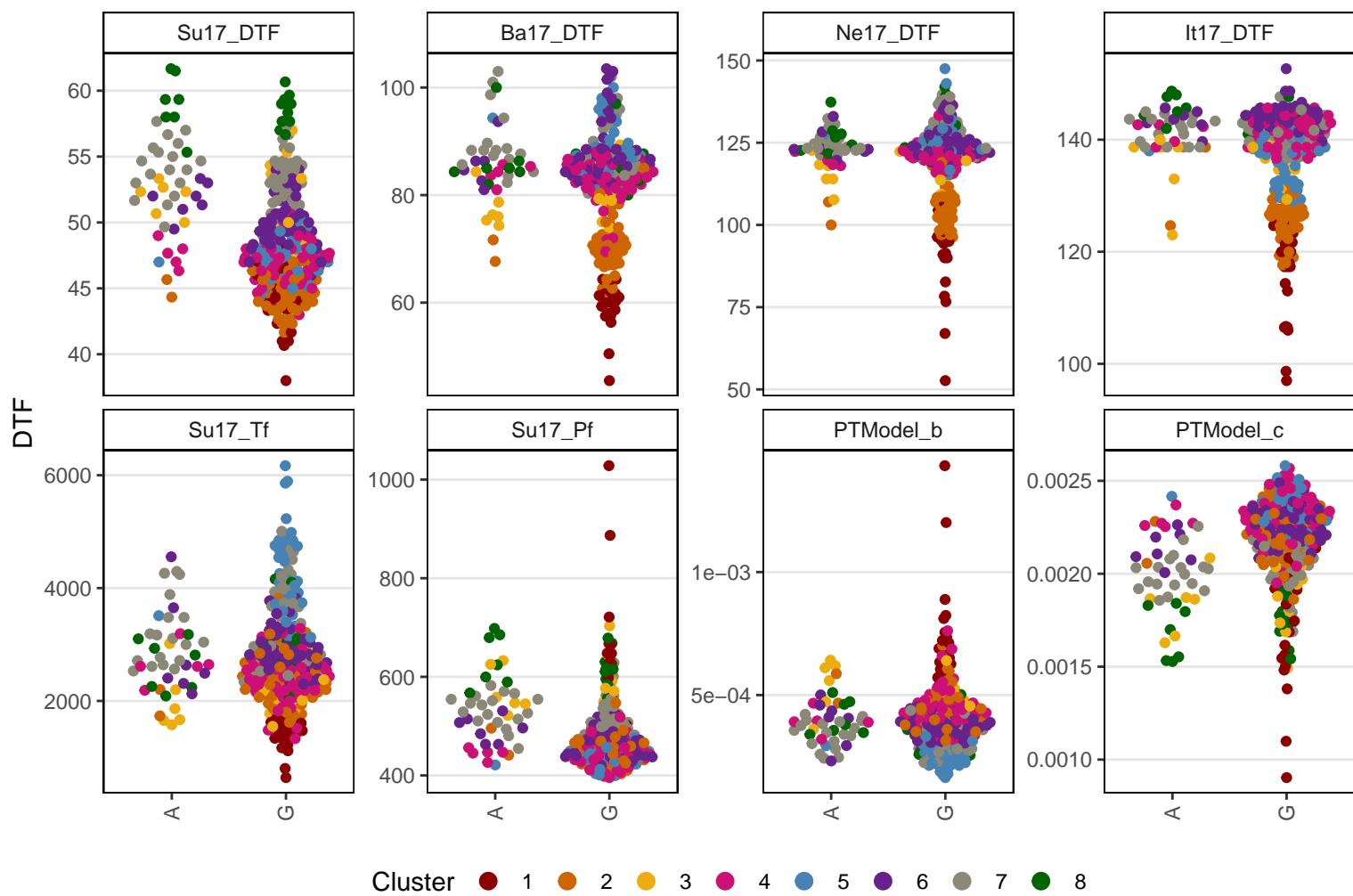
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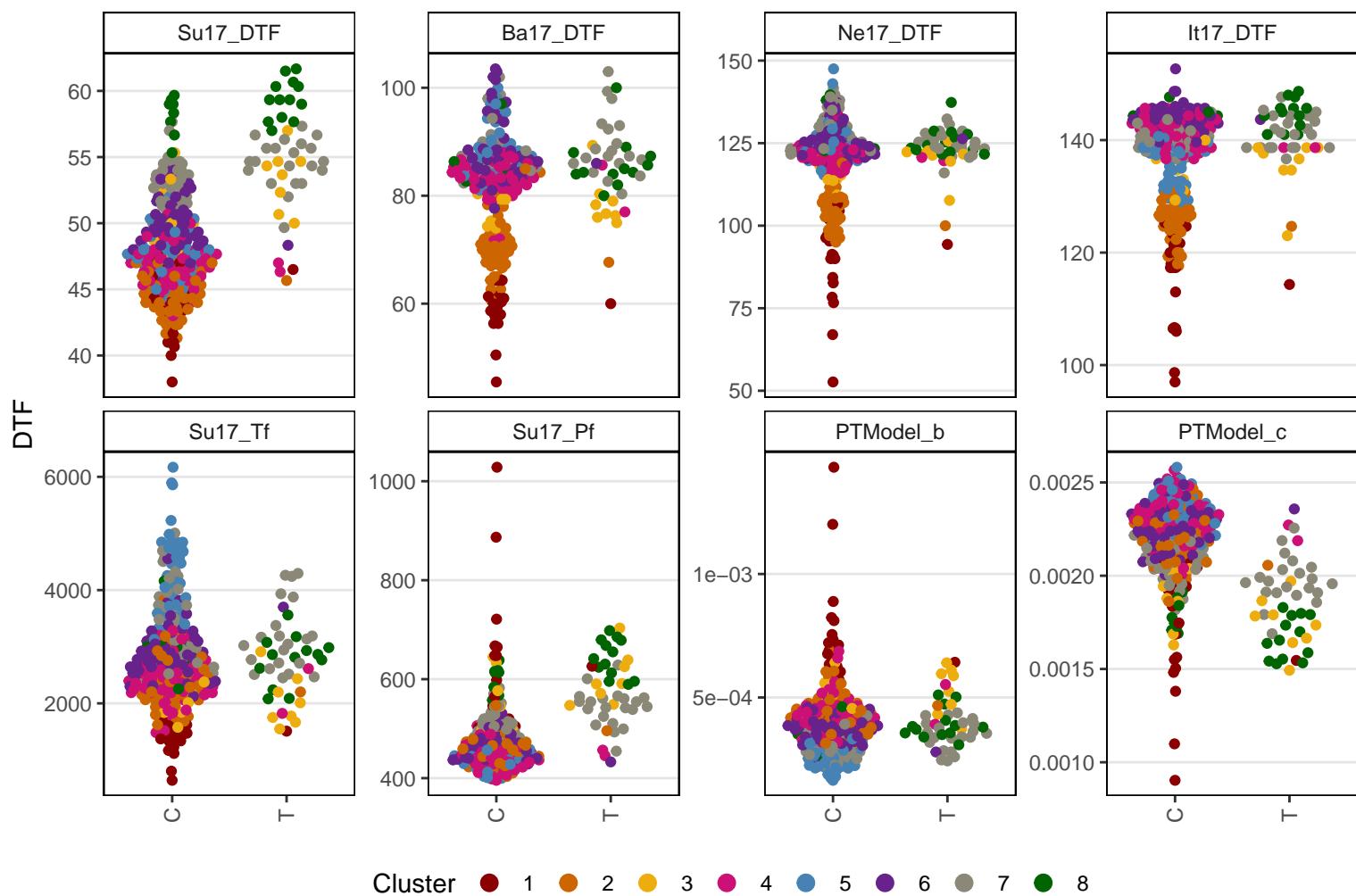
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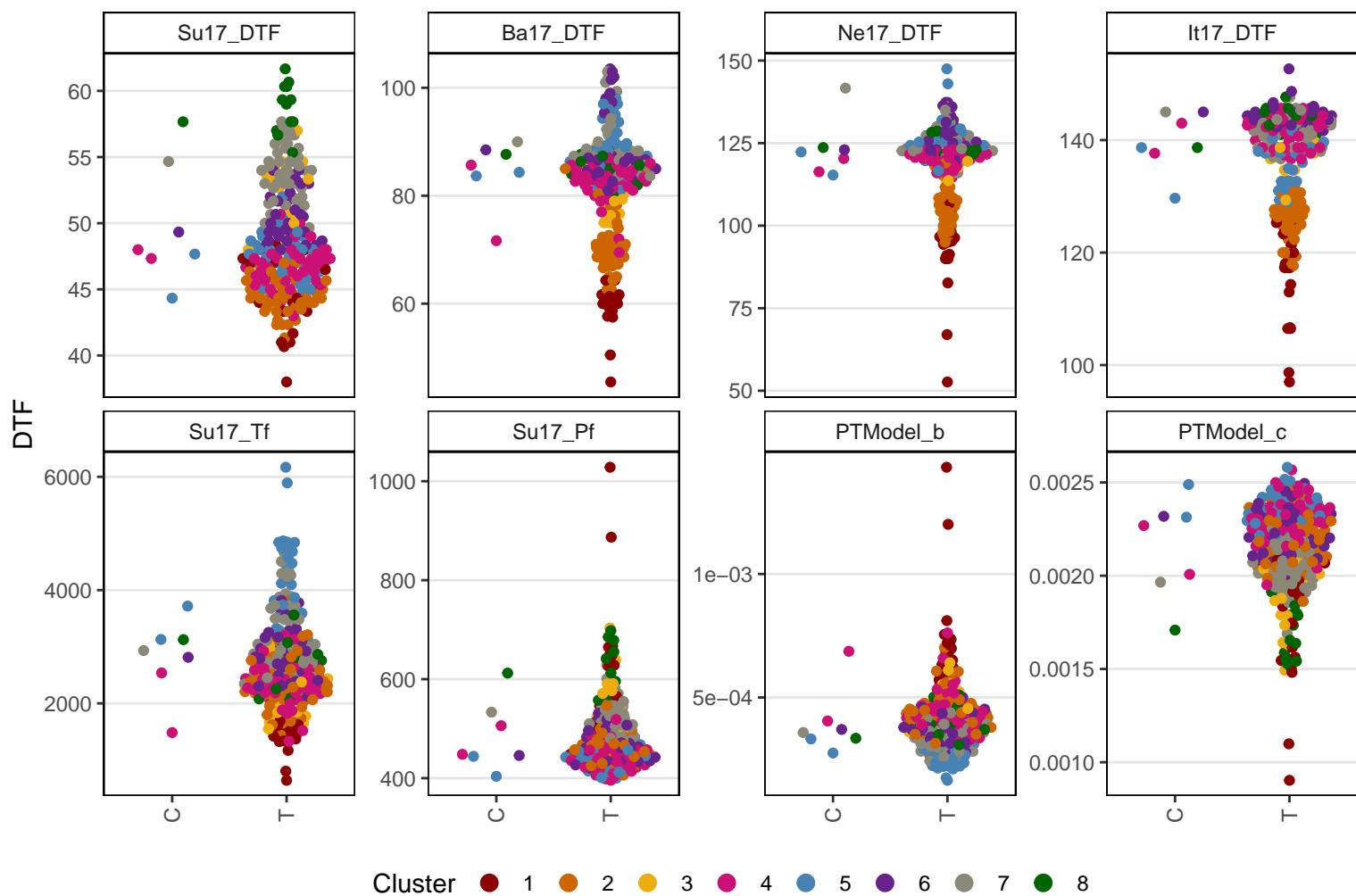
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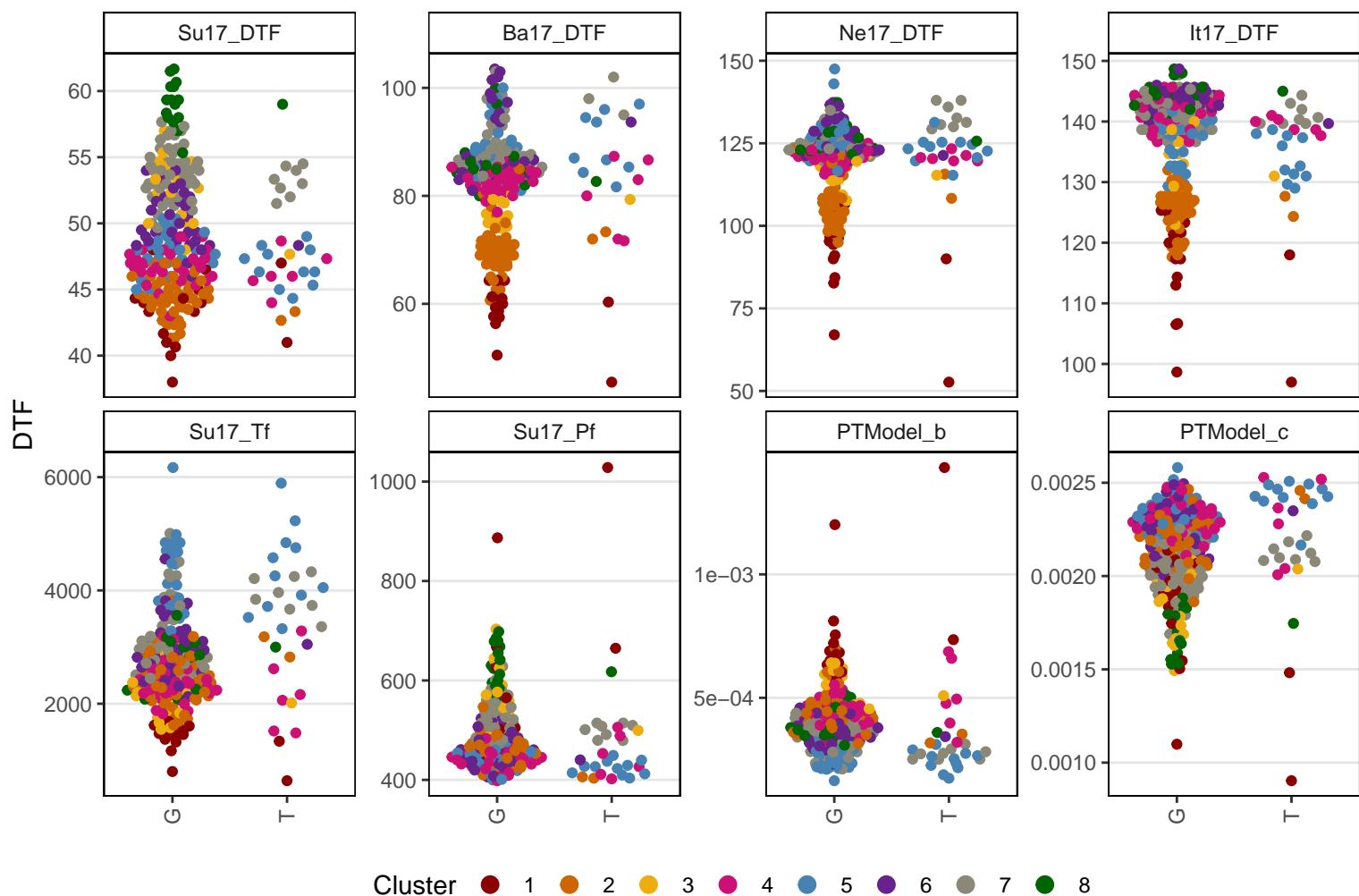
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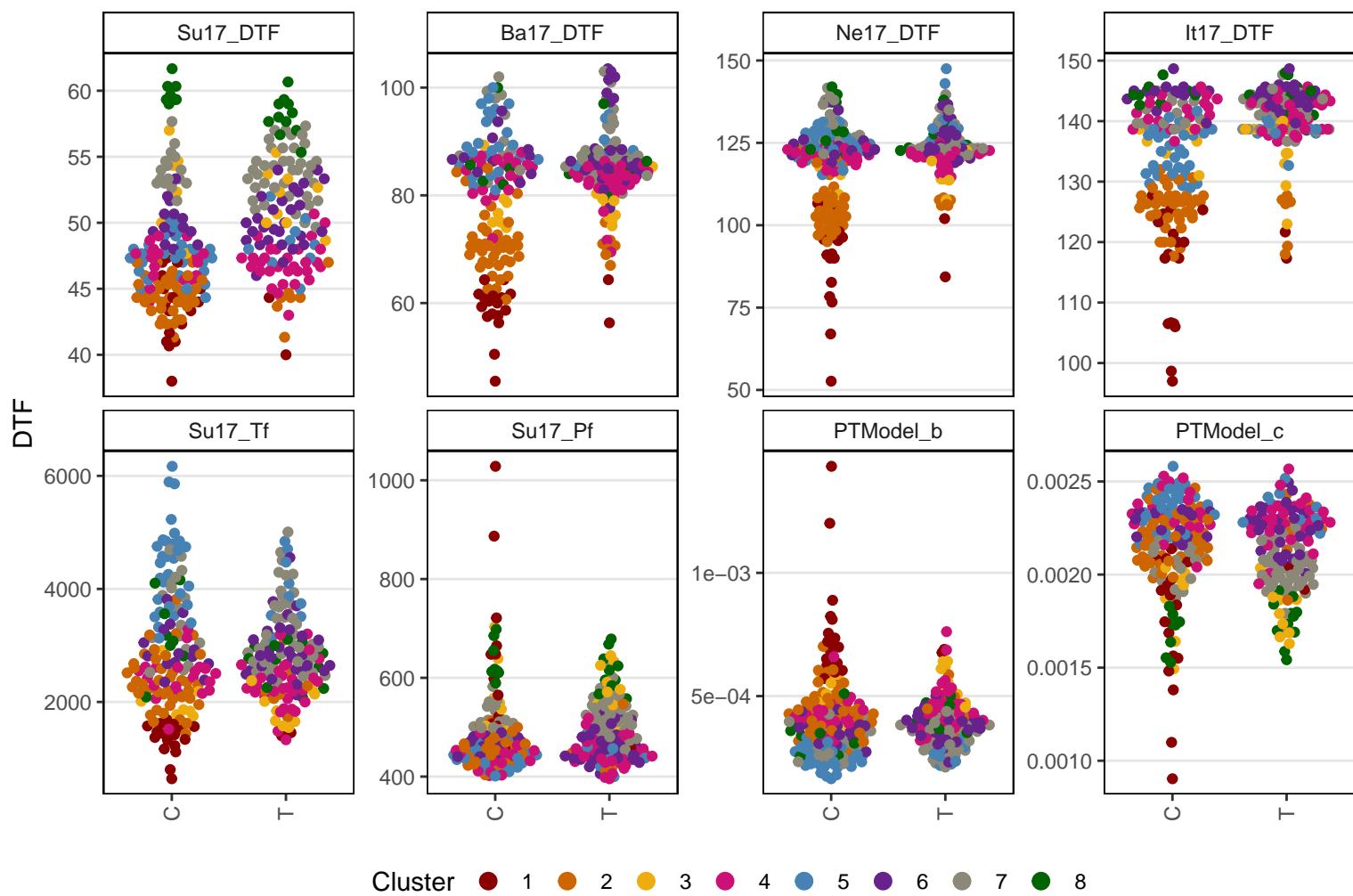
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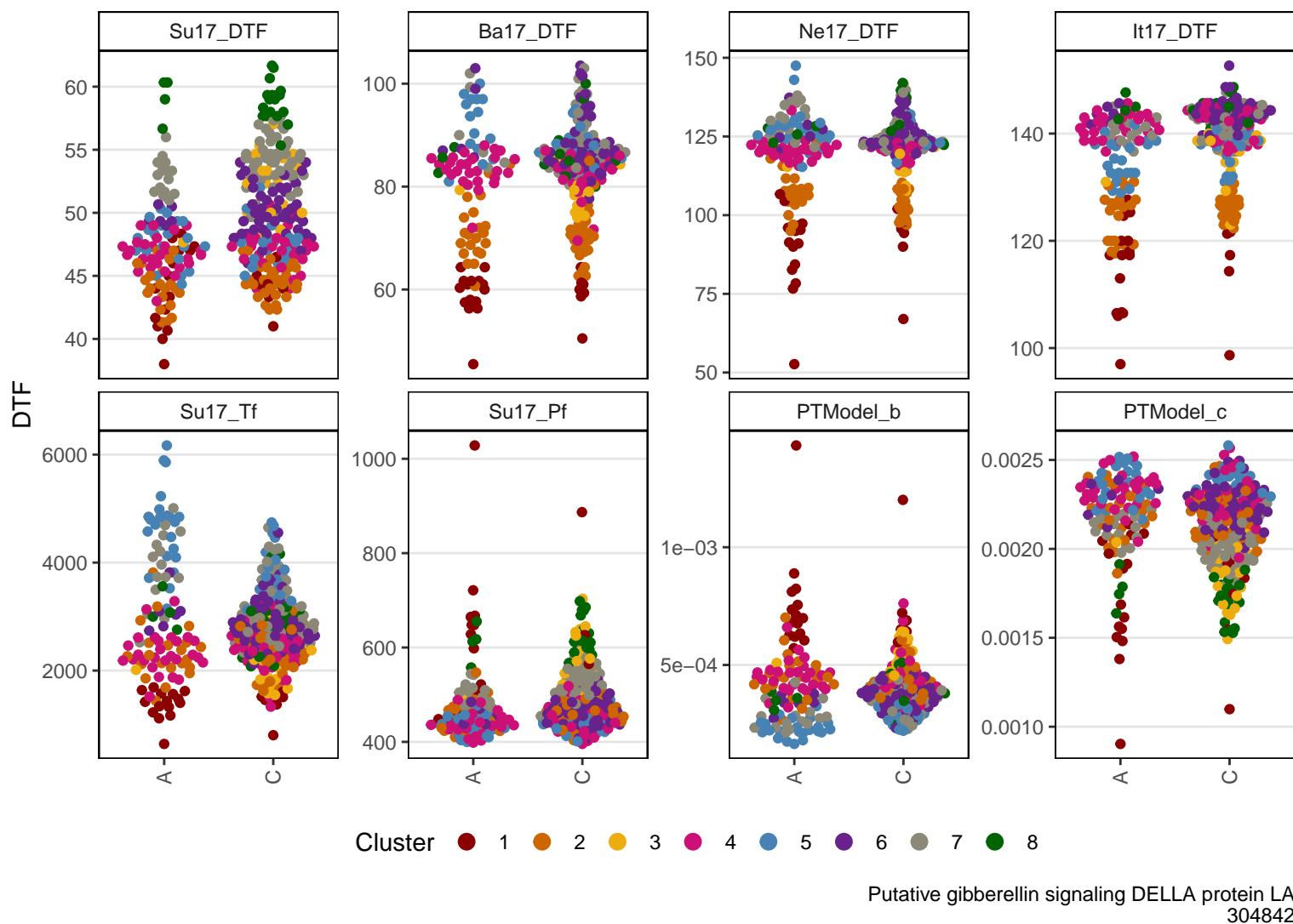
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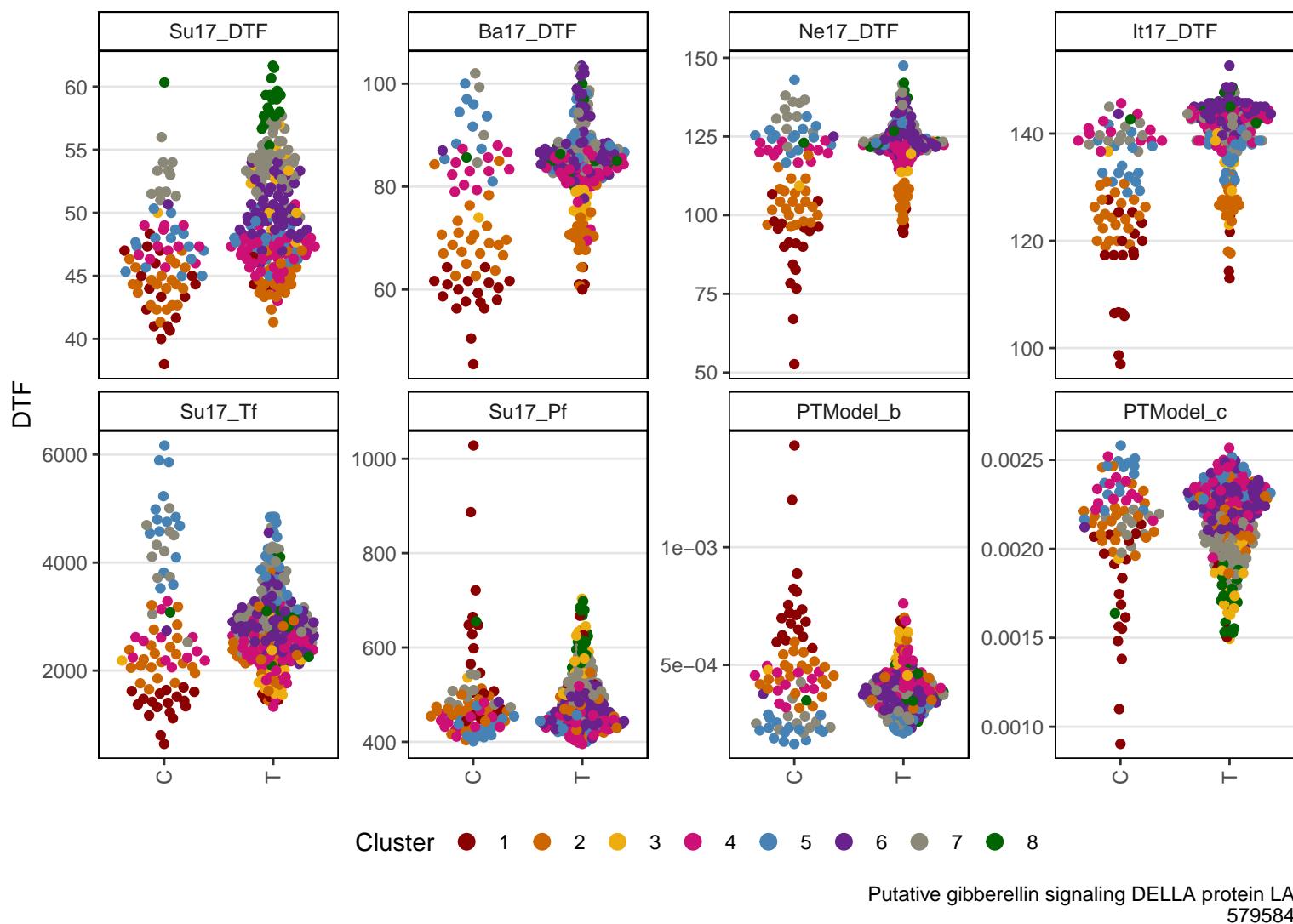
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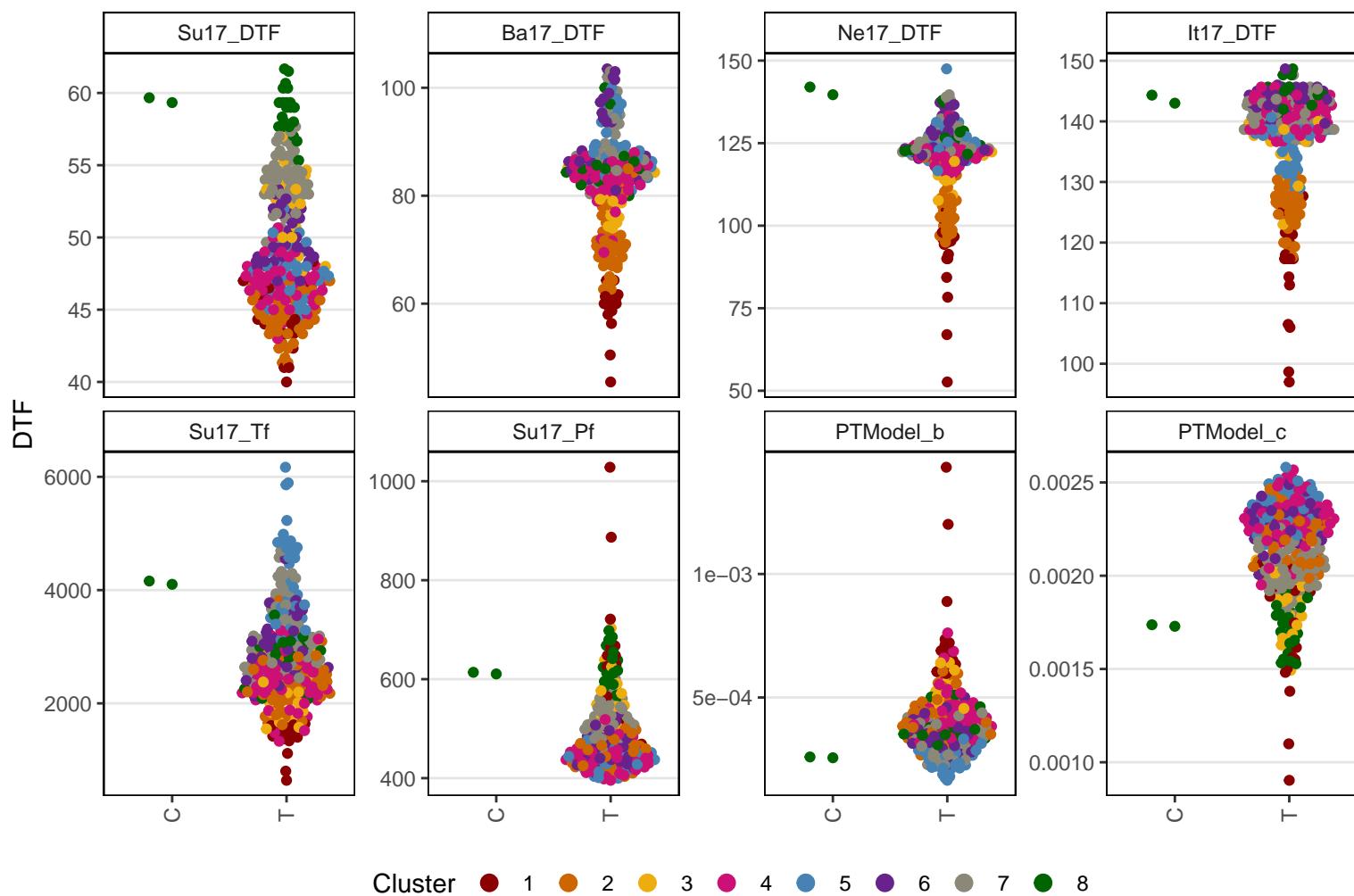
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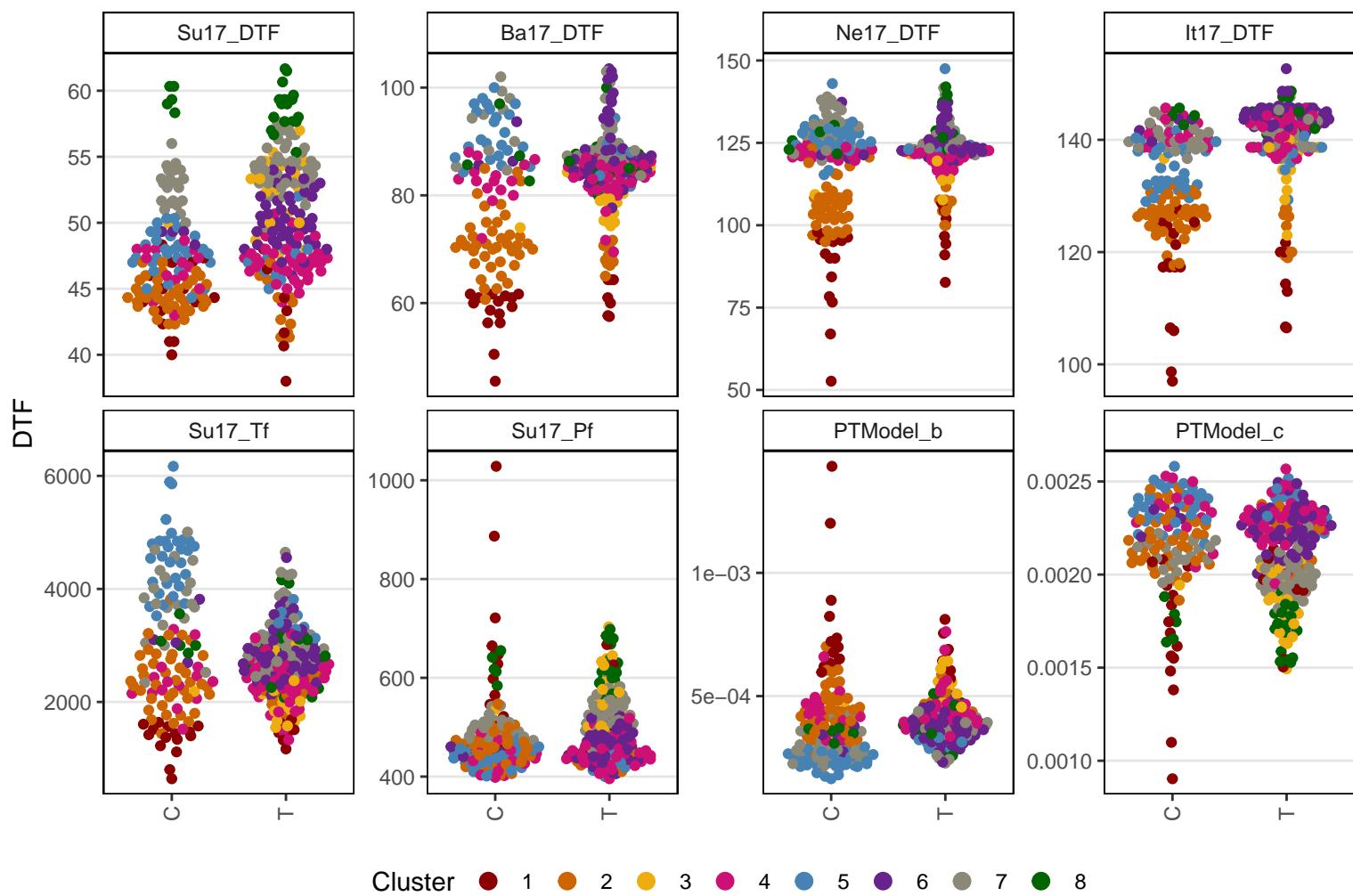


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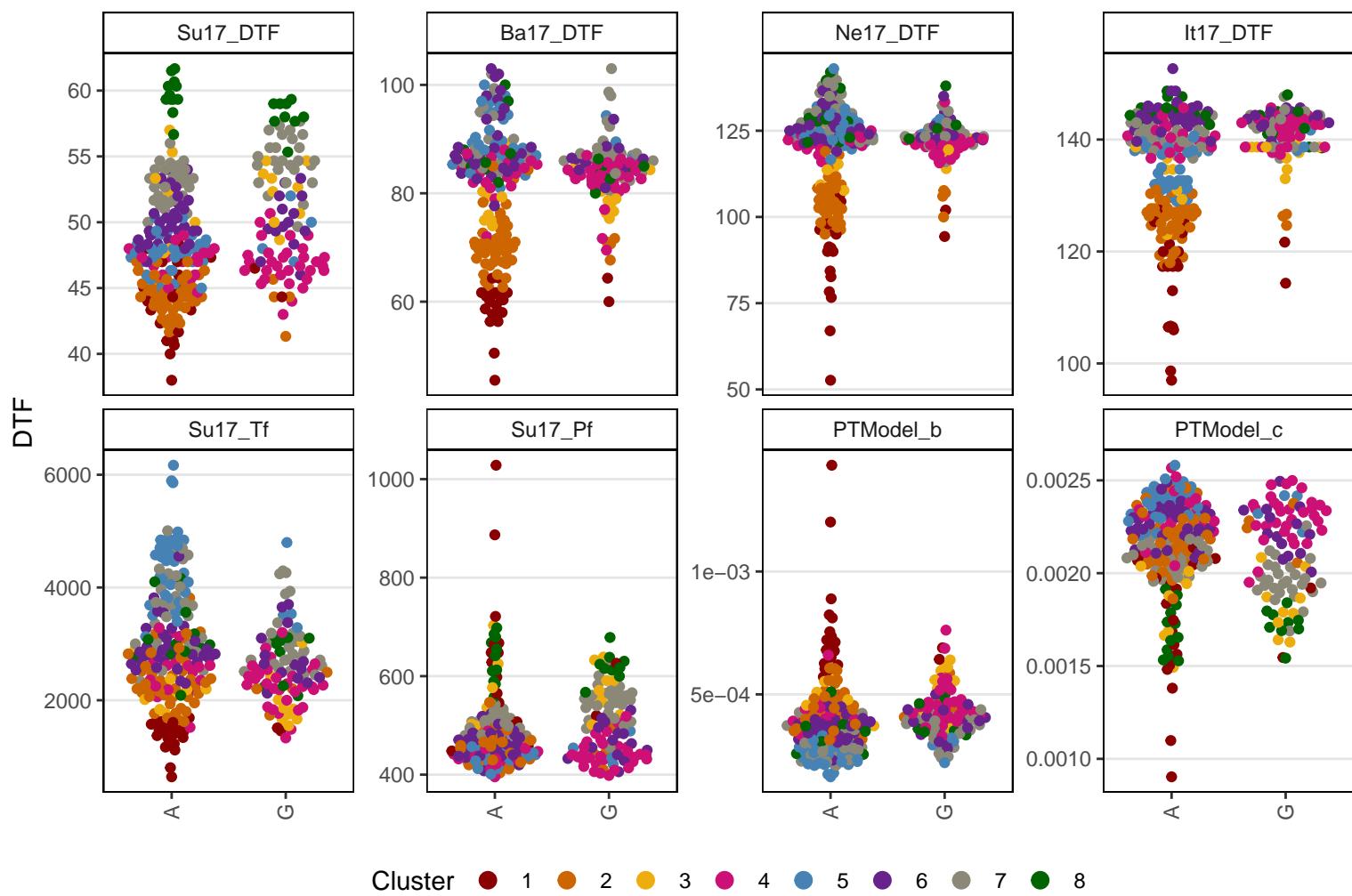


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

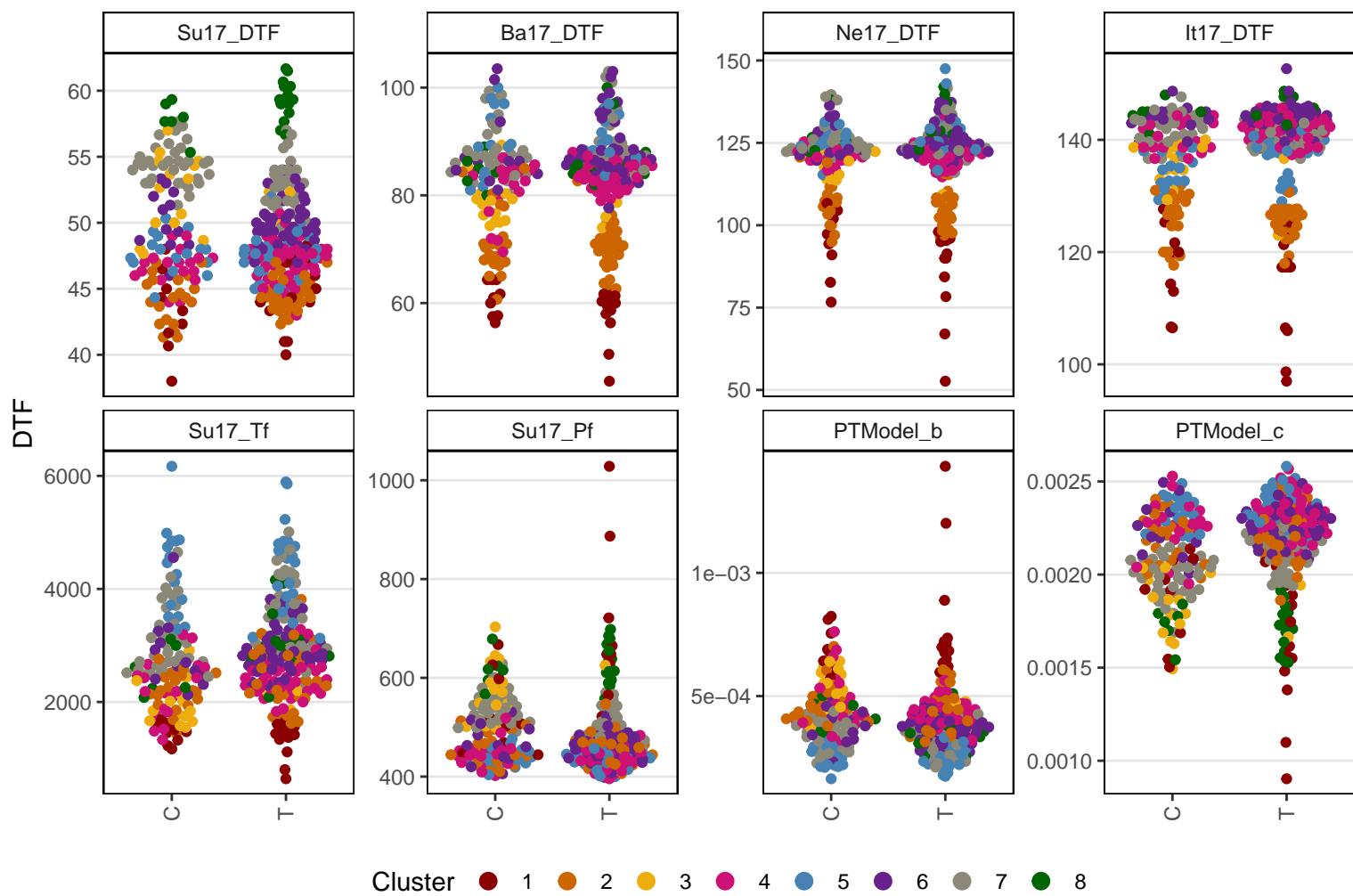
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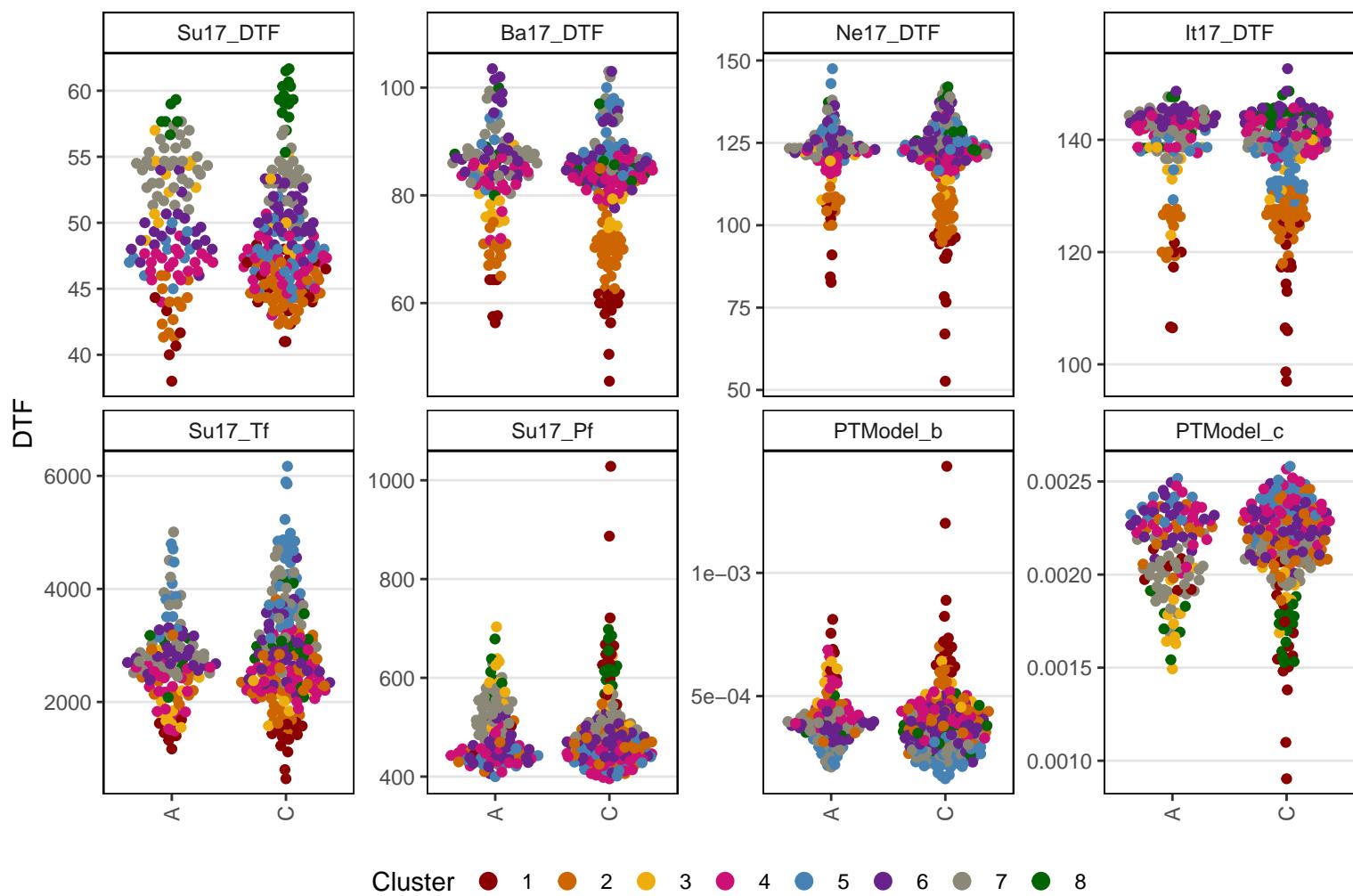
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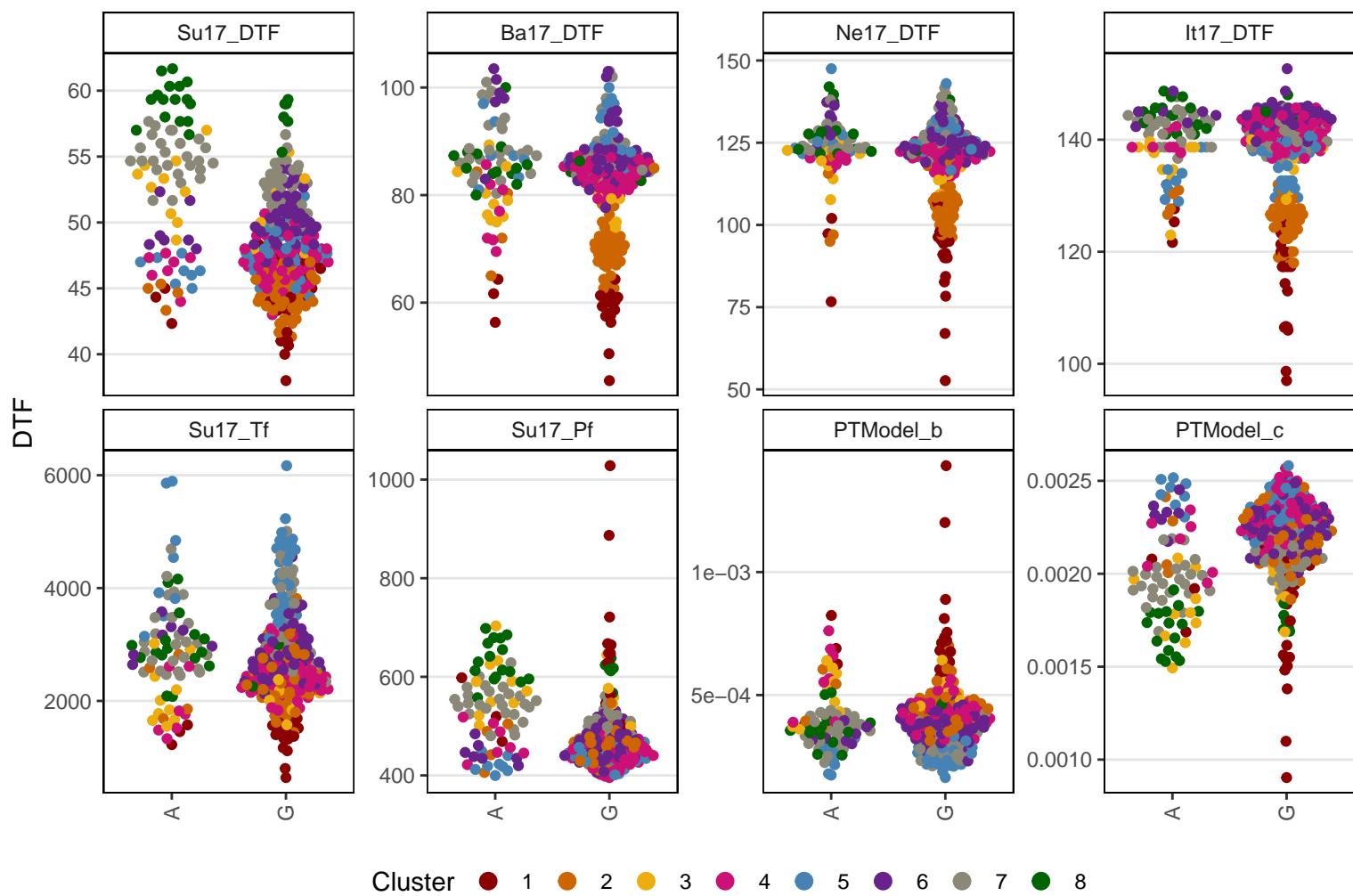
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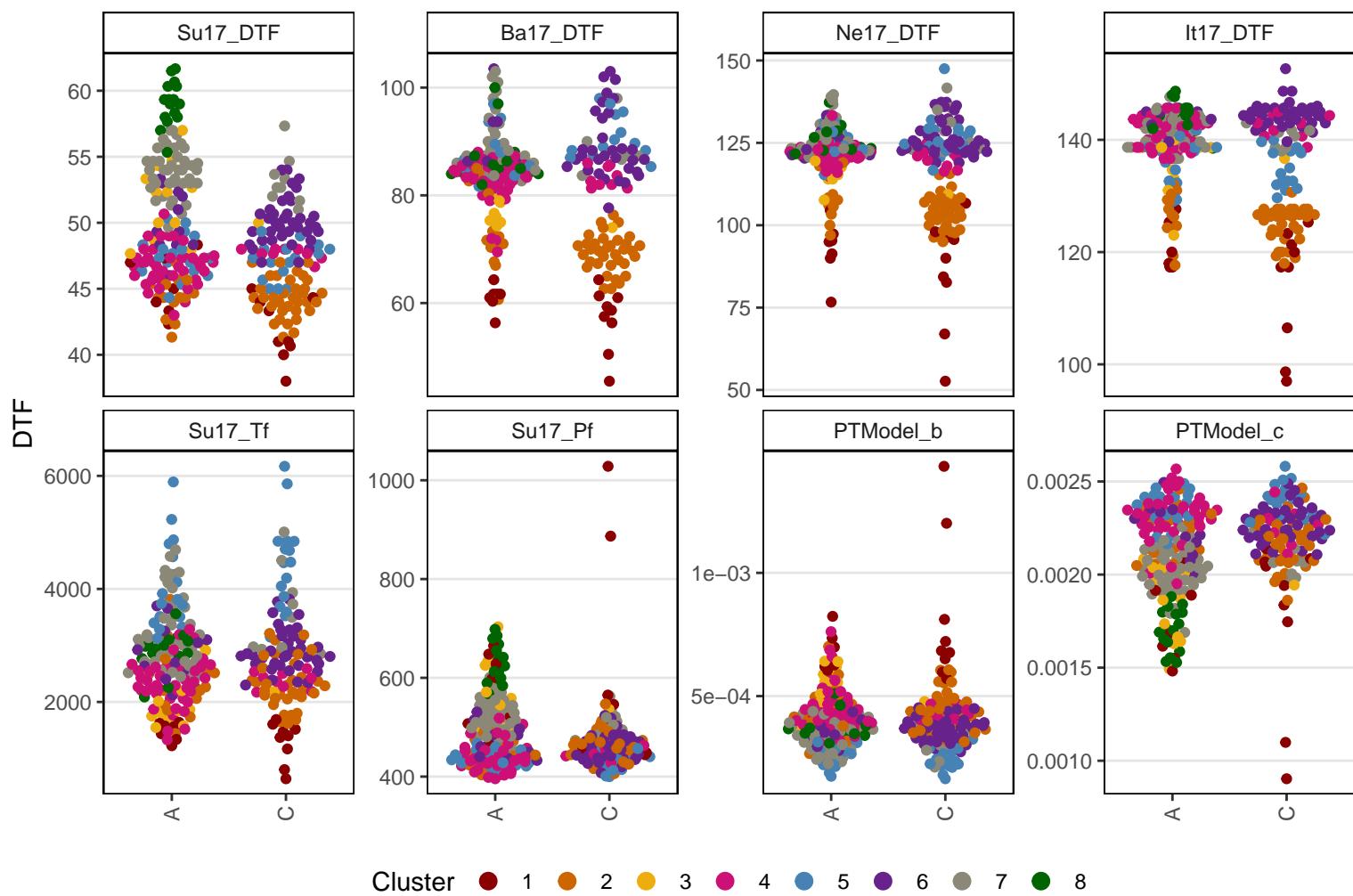


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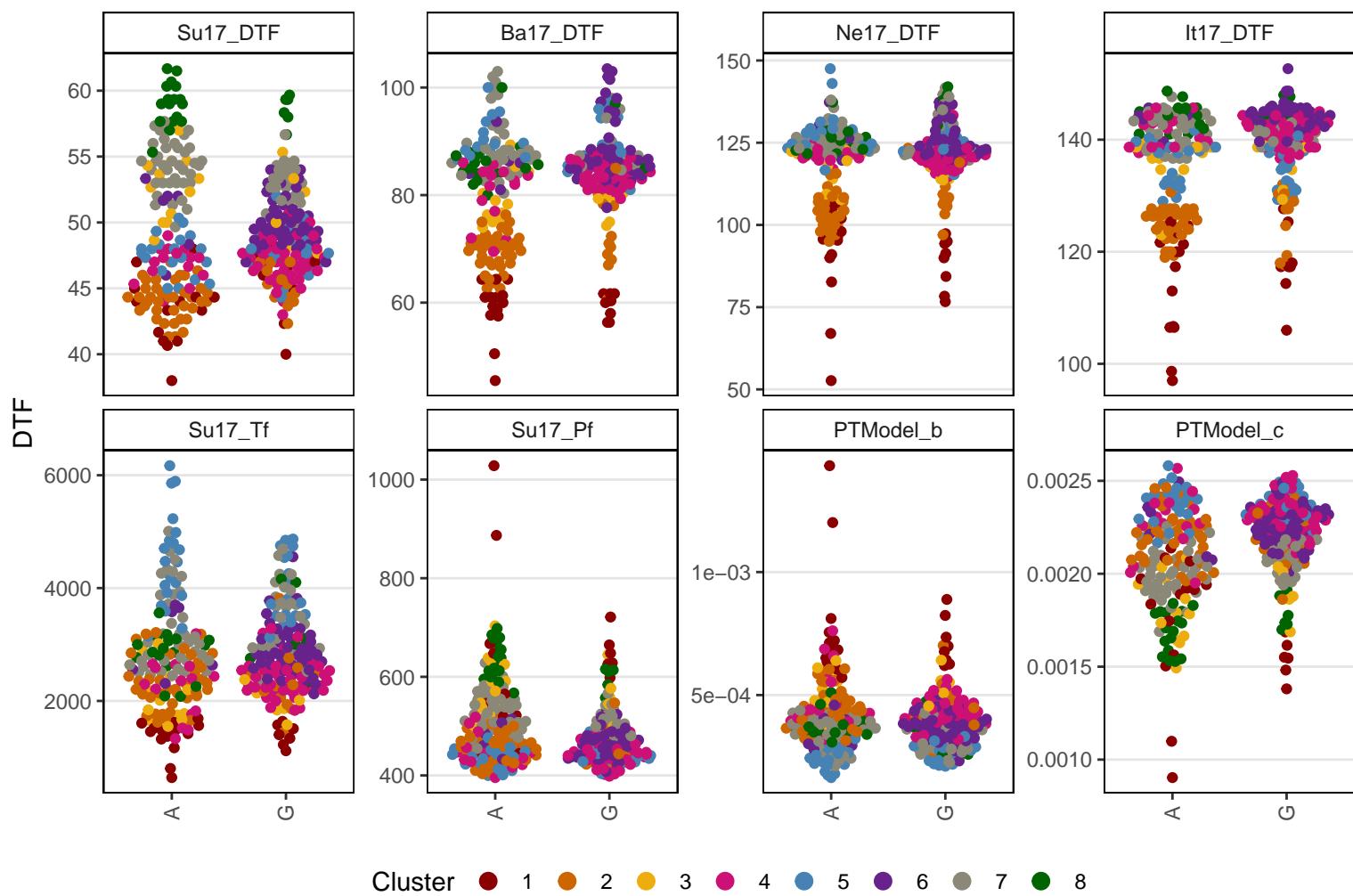


Cluster ● 1 2 3 4 5 6 7 8

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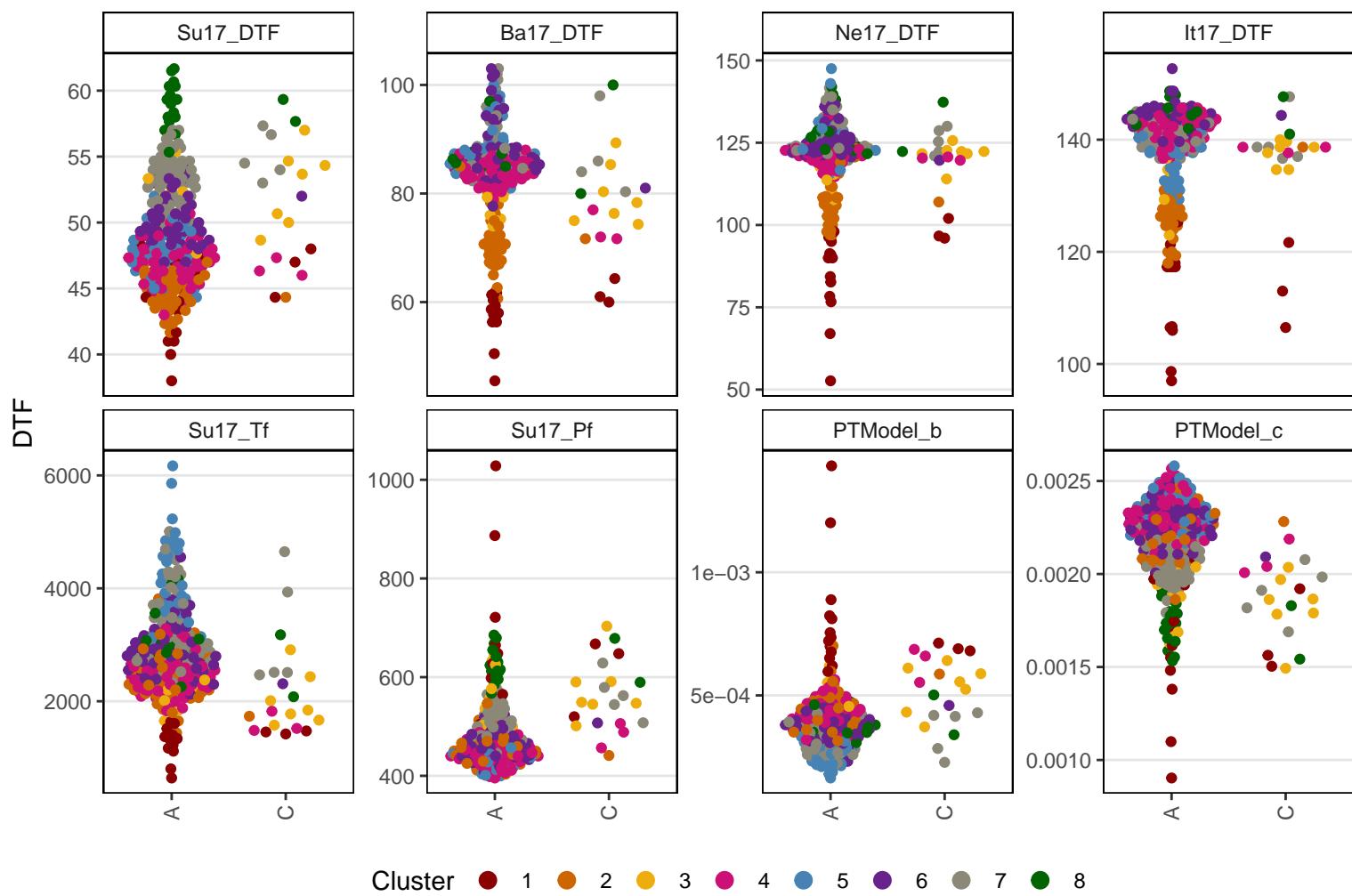


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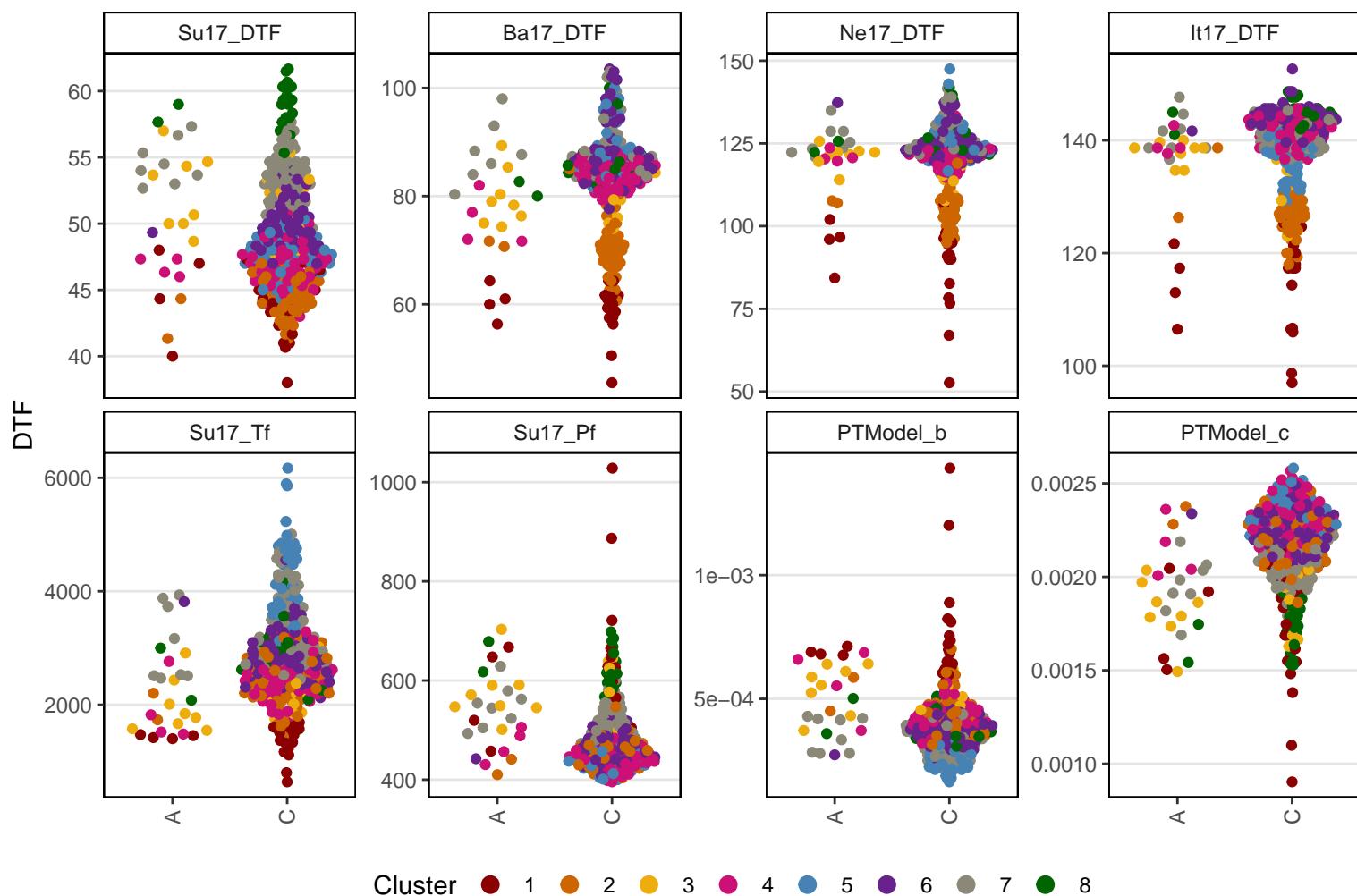
Cluster 1 2 3 4 5 6 7 8

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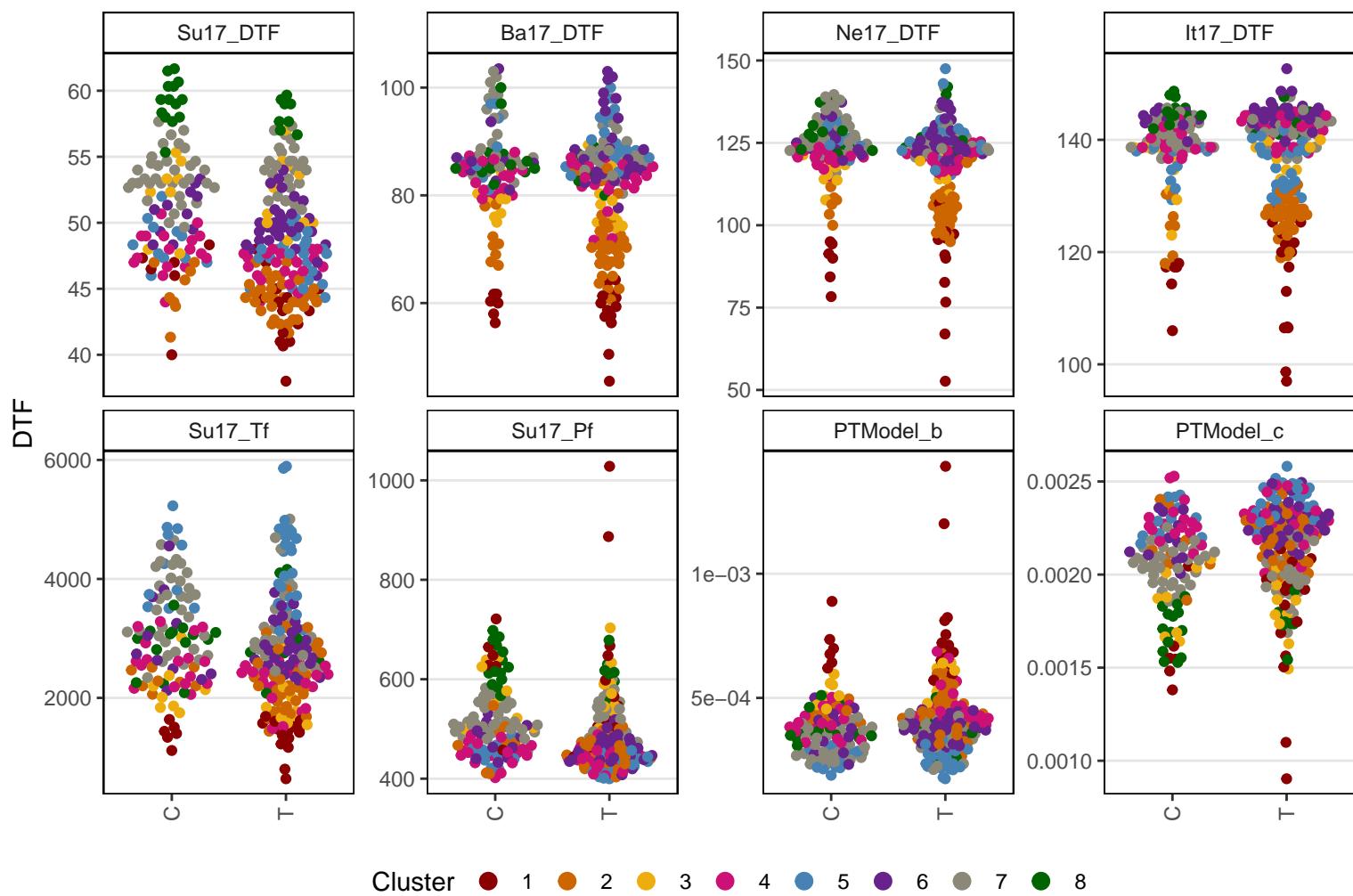


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

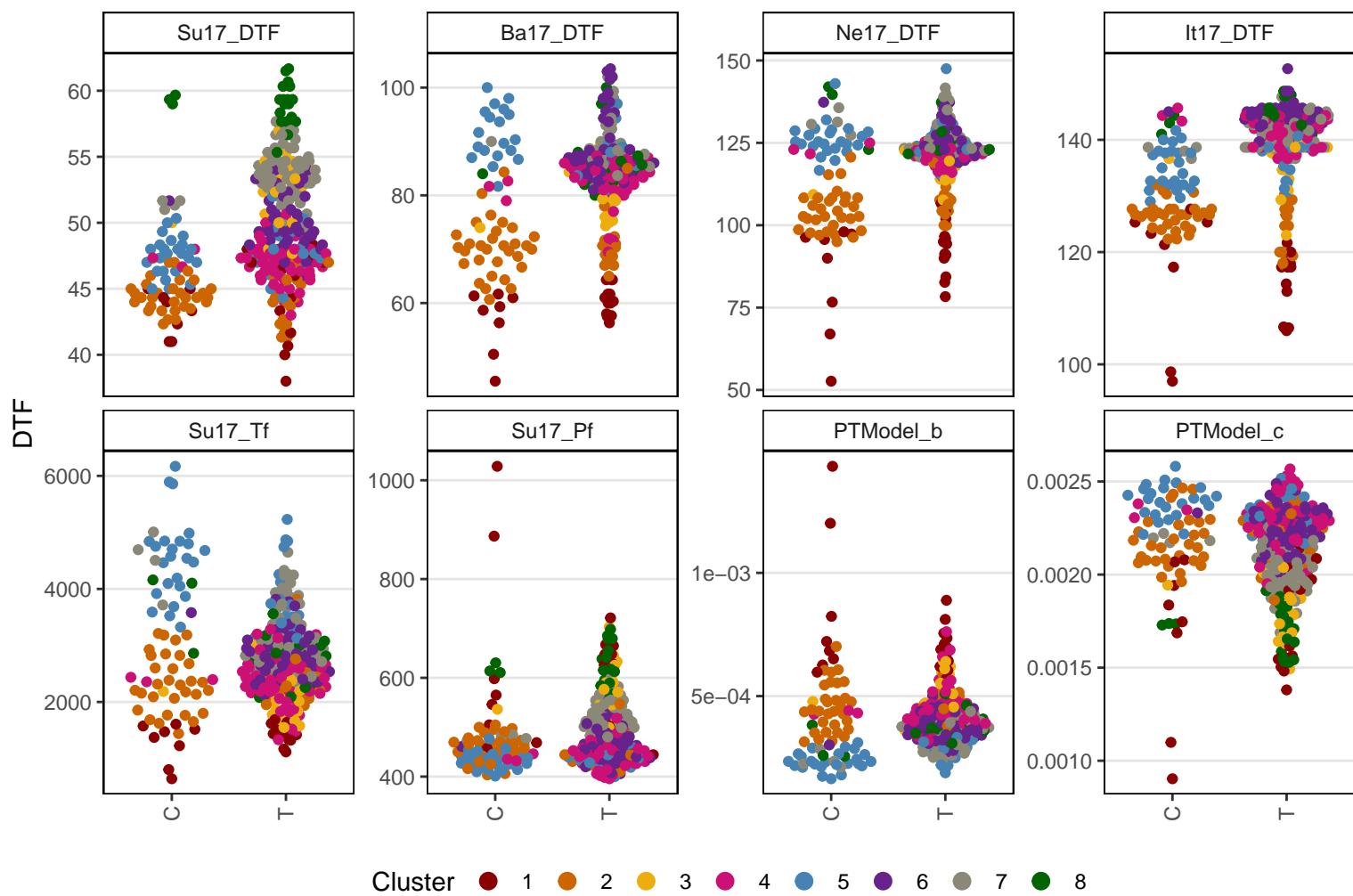
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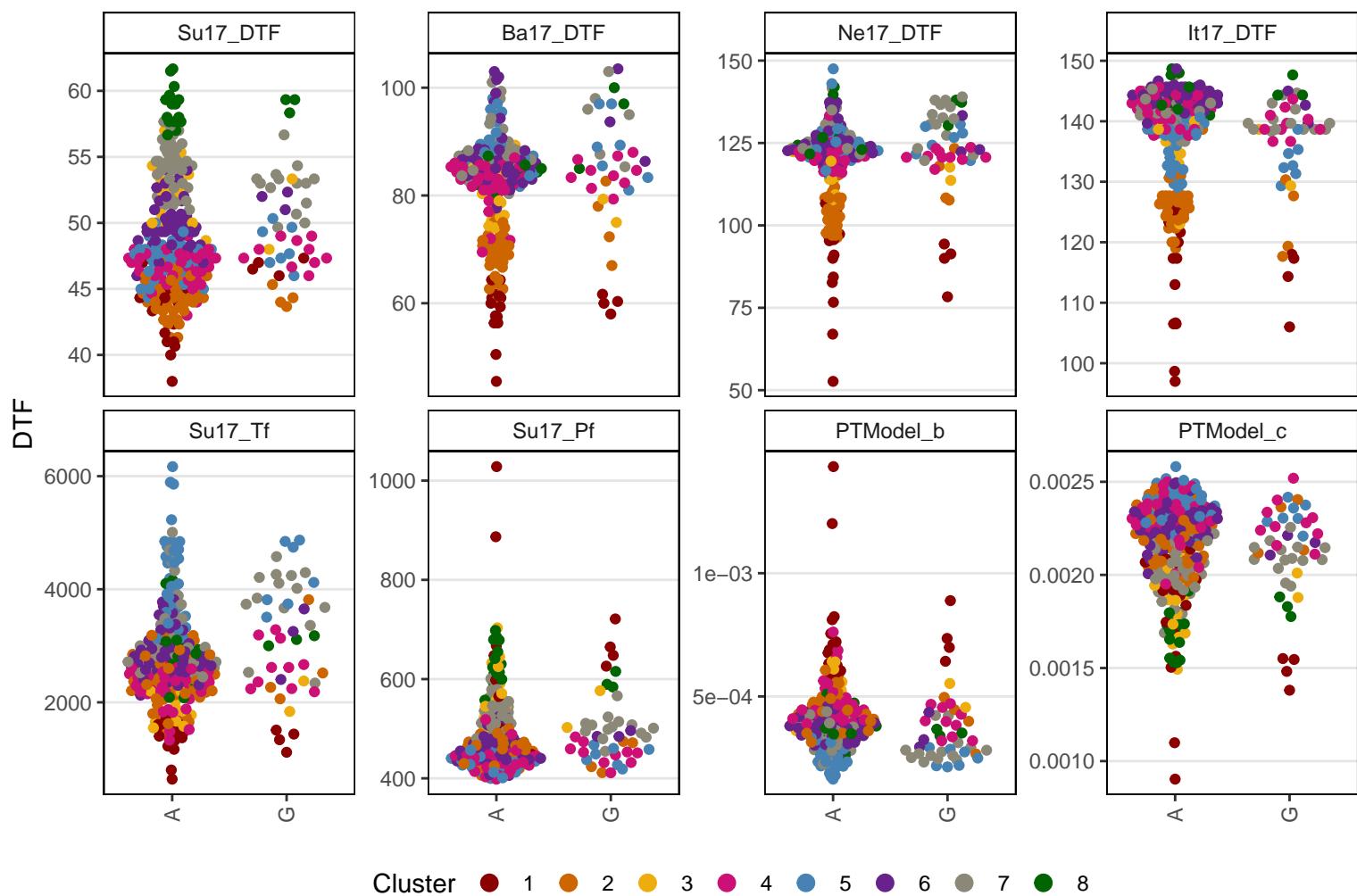


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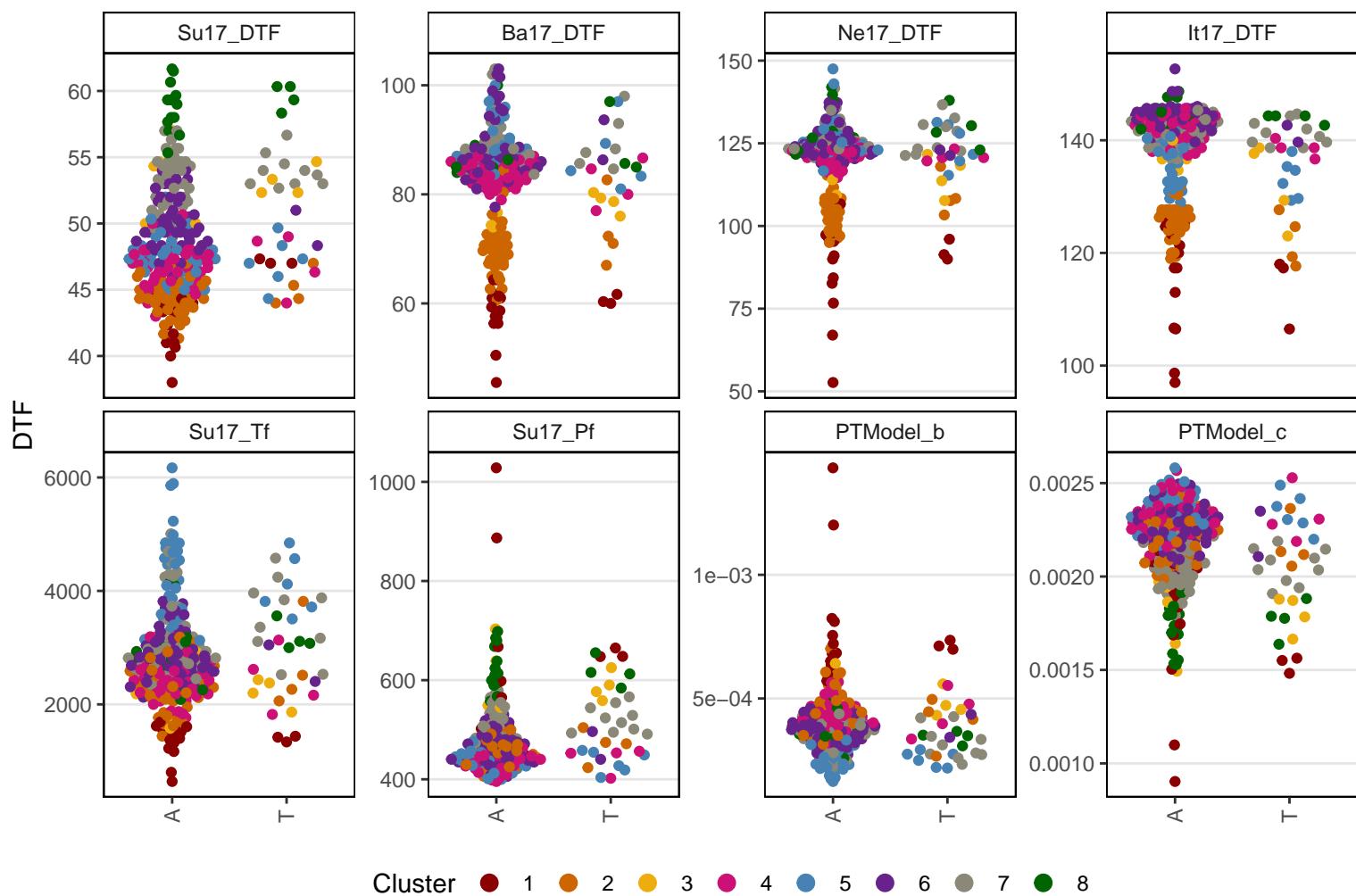


Cluster ● 1 2 3 4 5 6 7 8

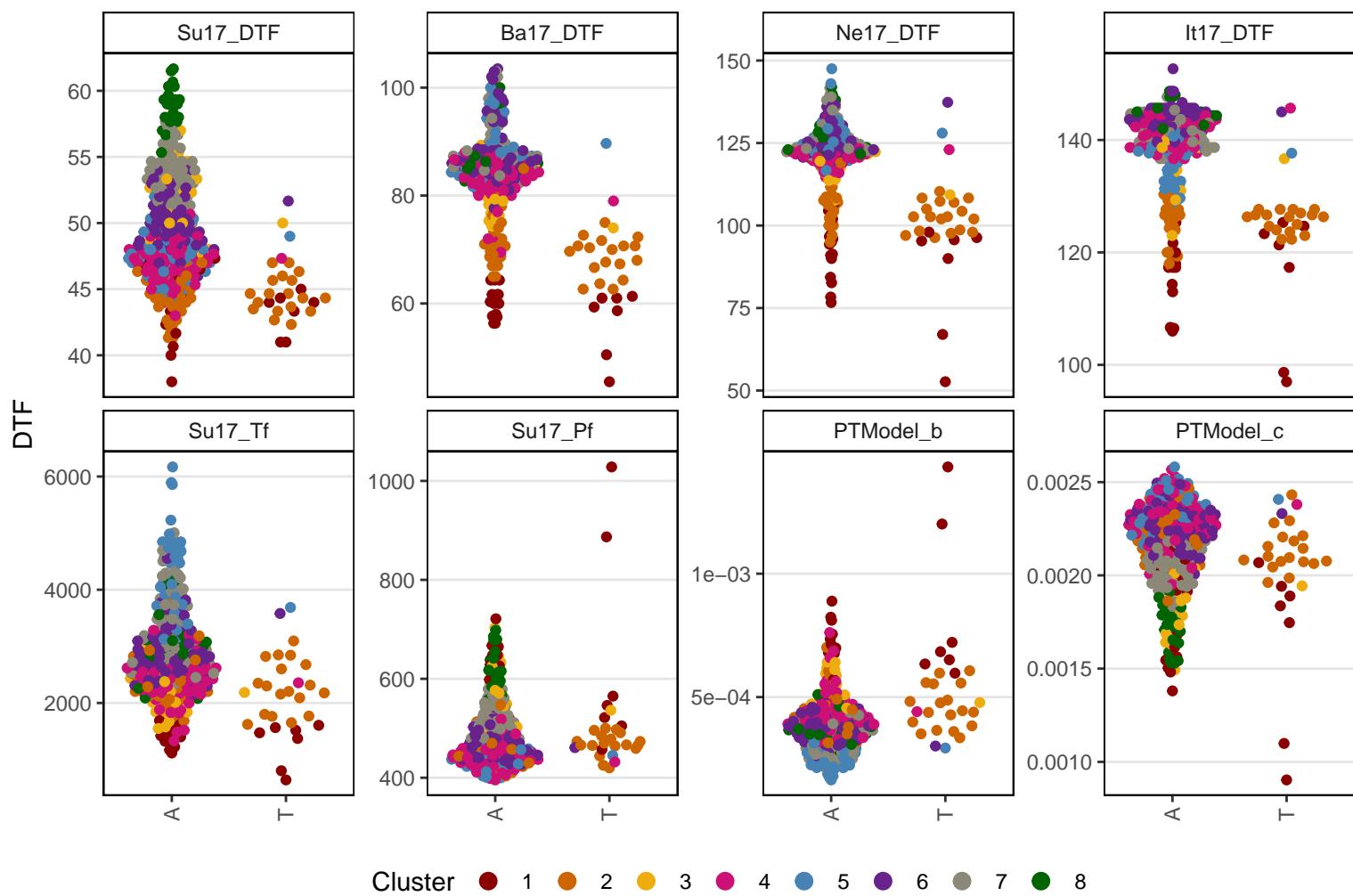
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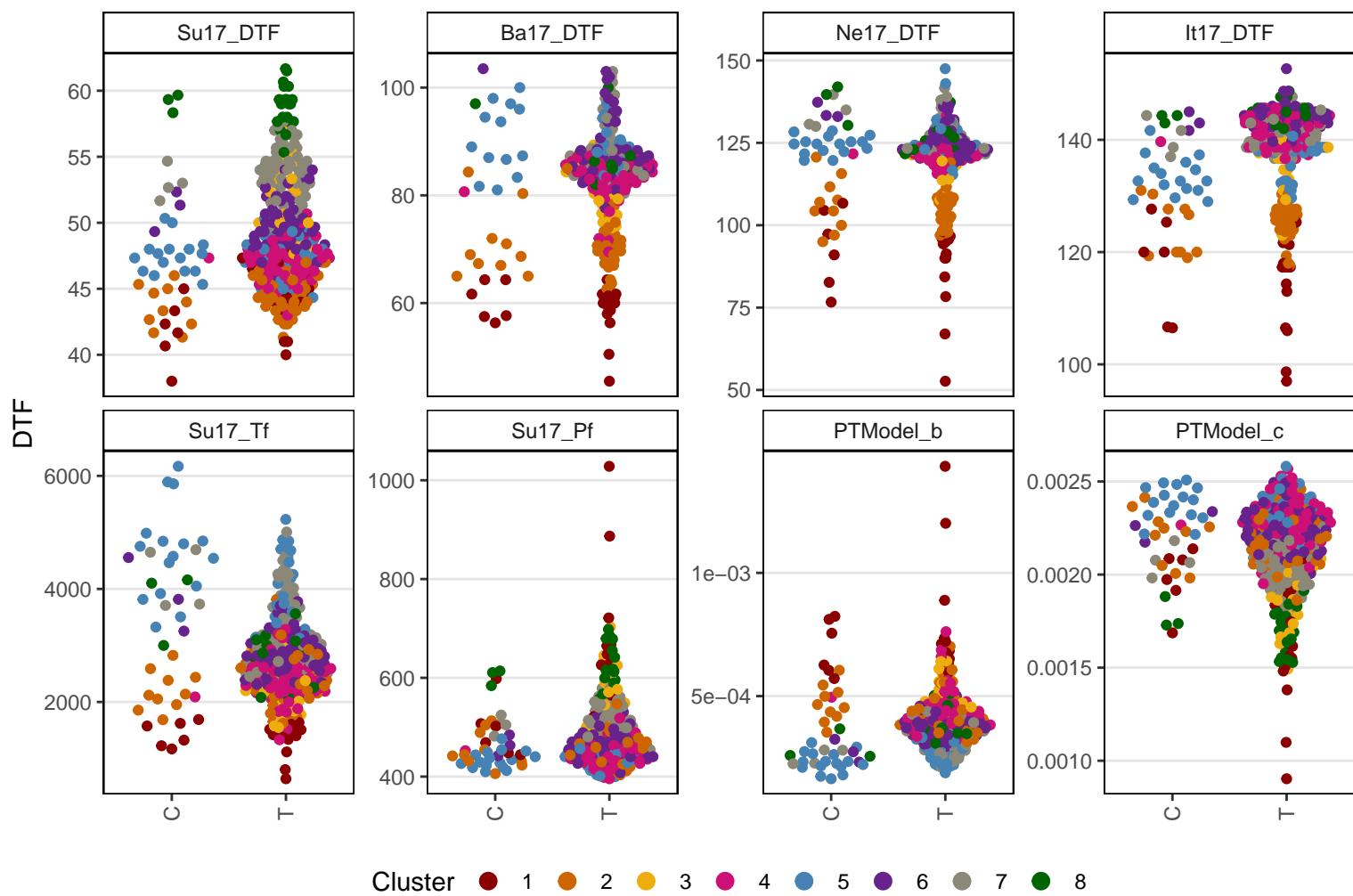
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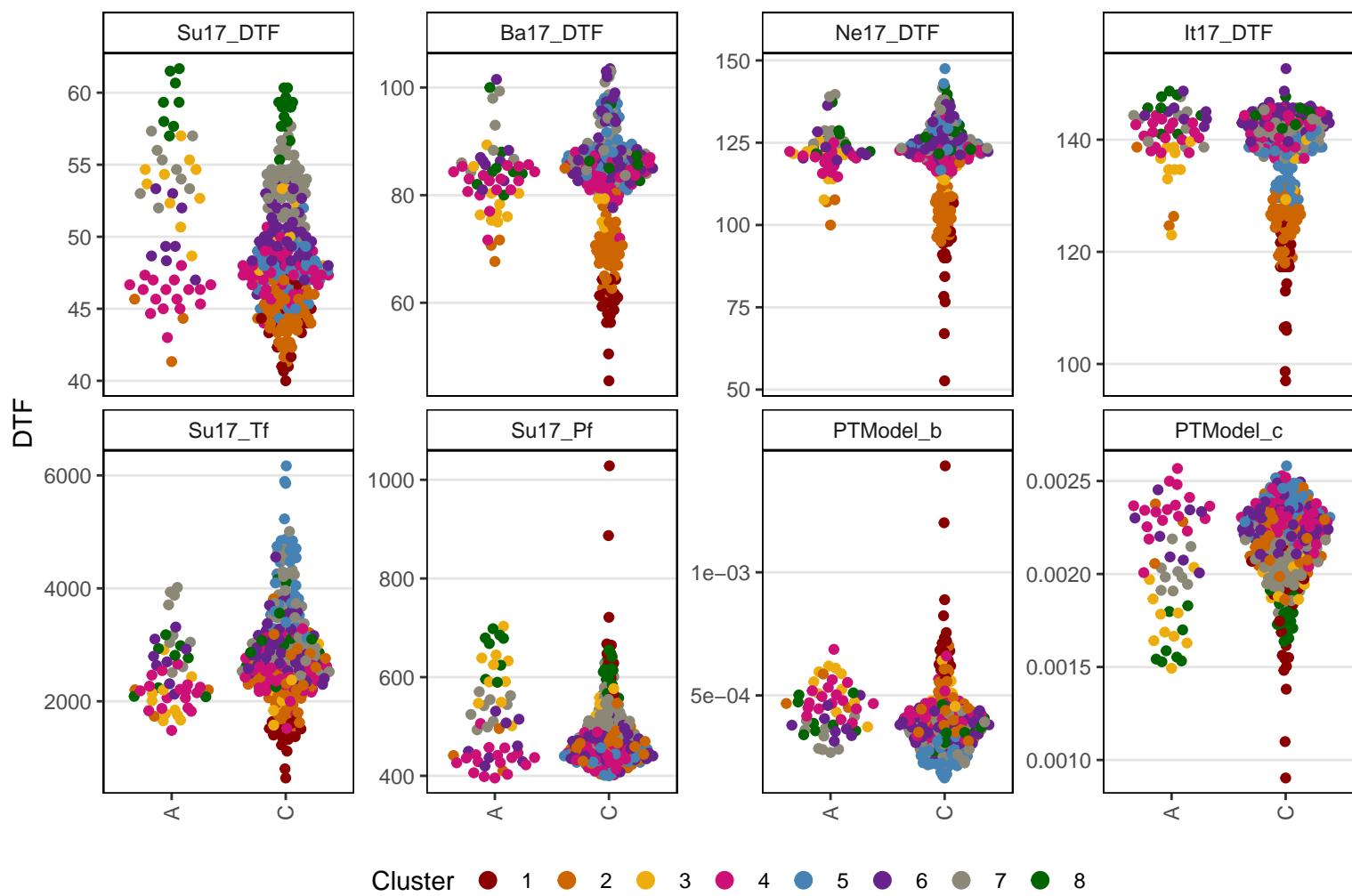
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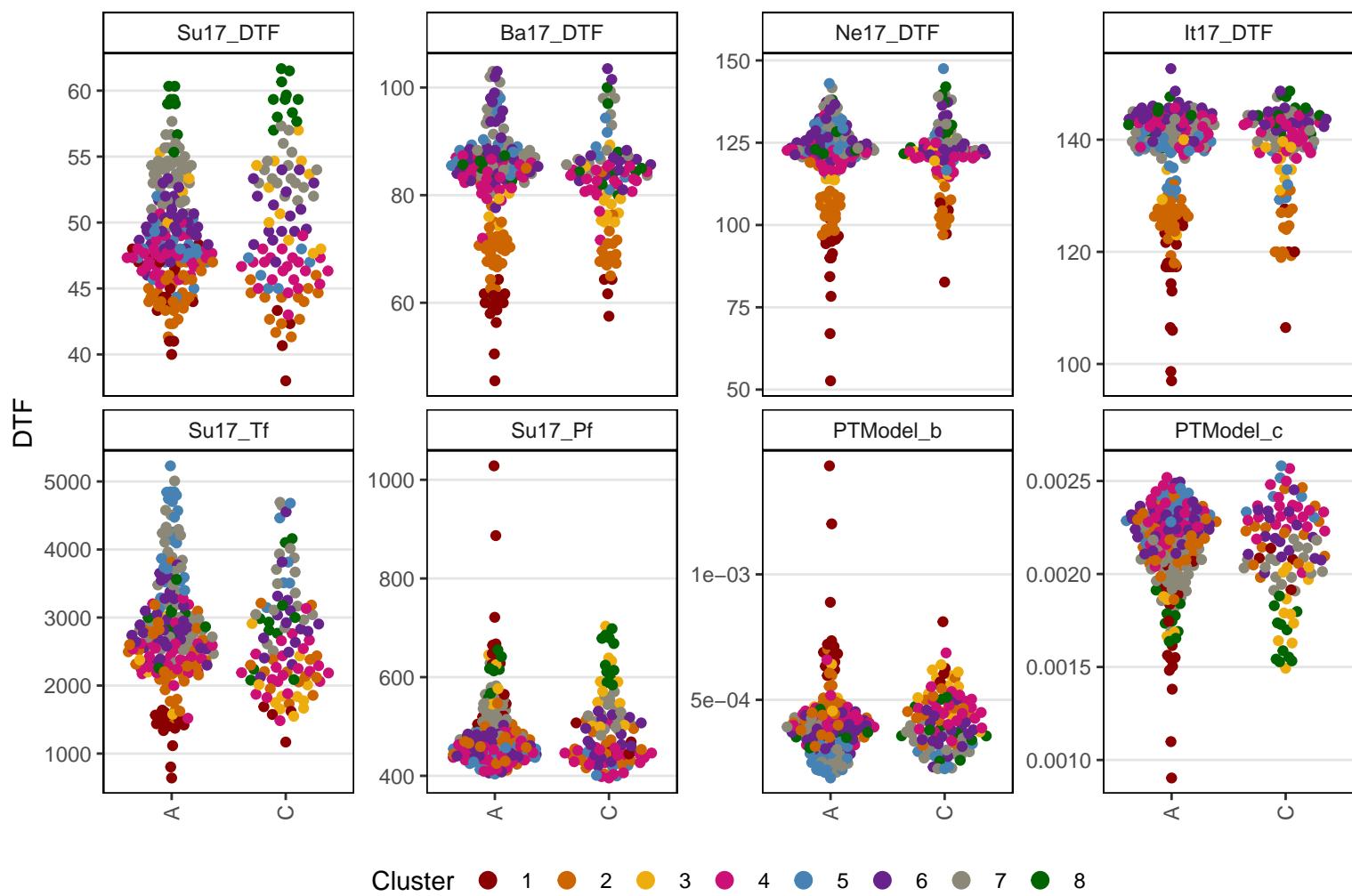
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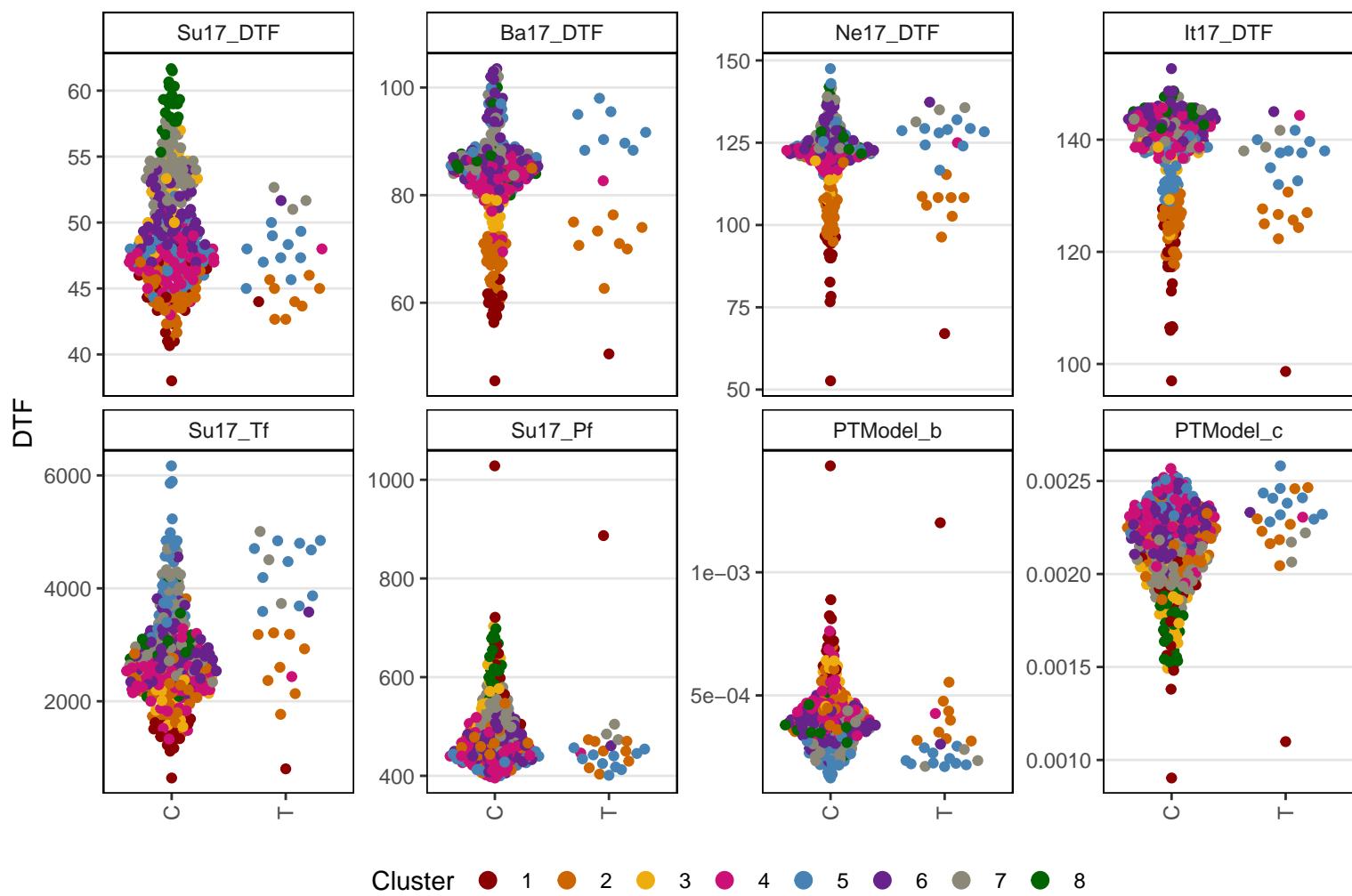
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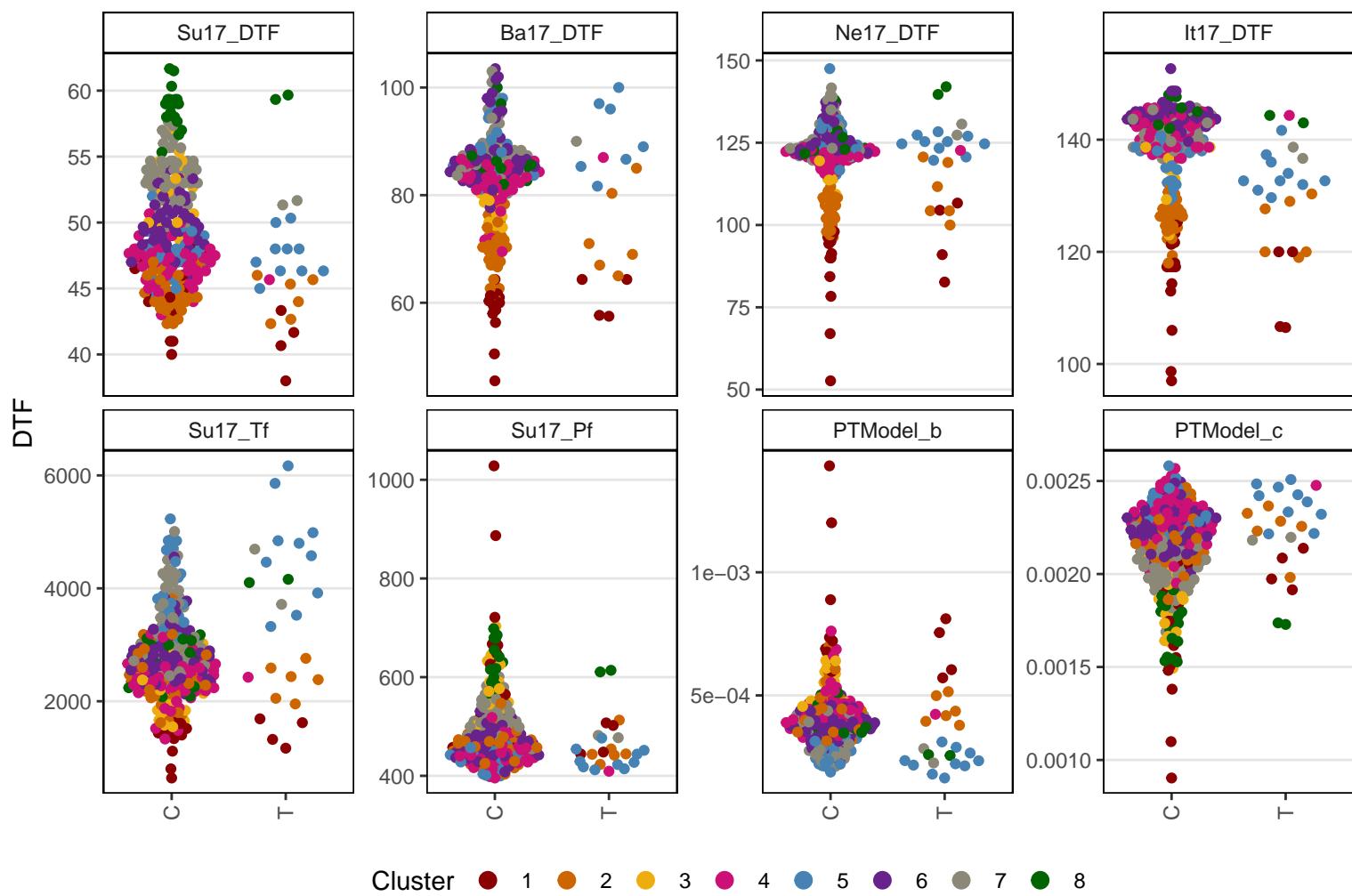
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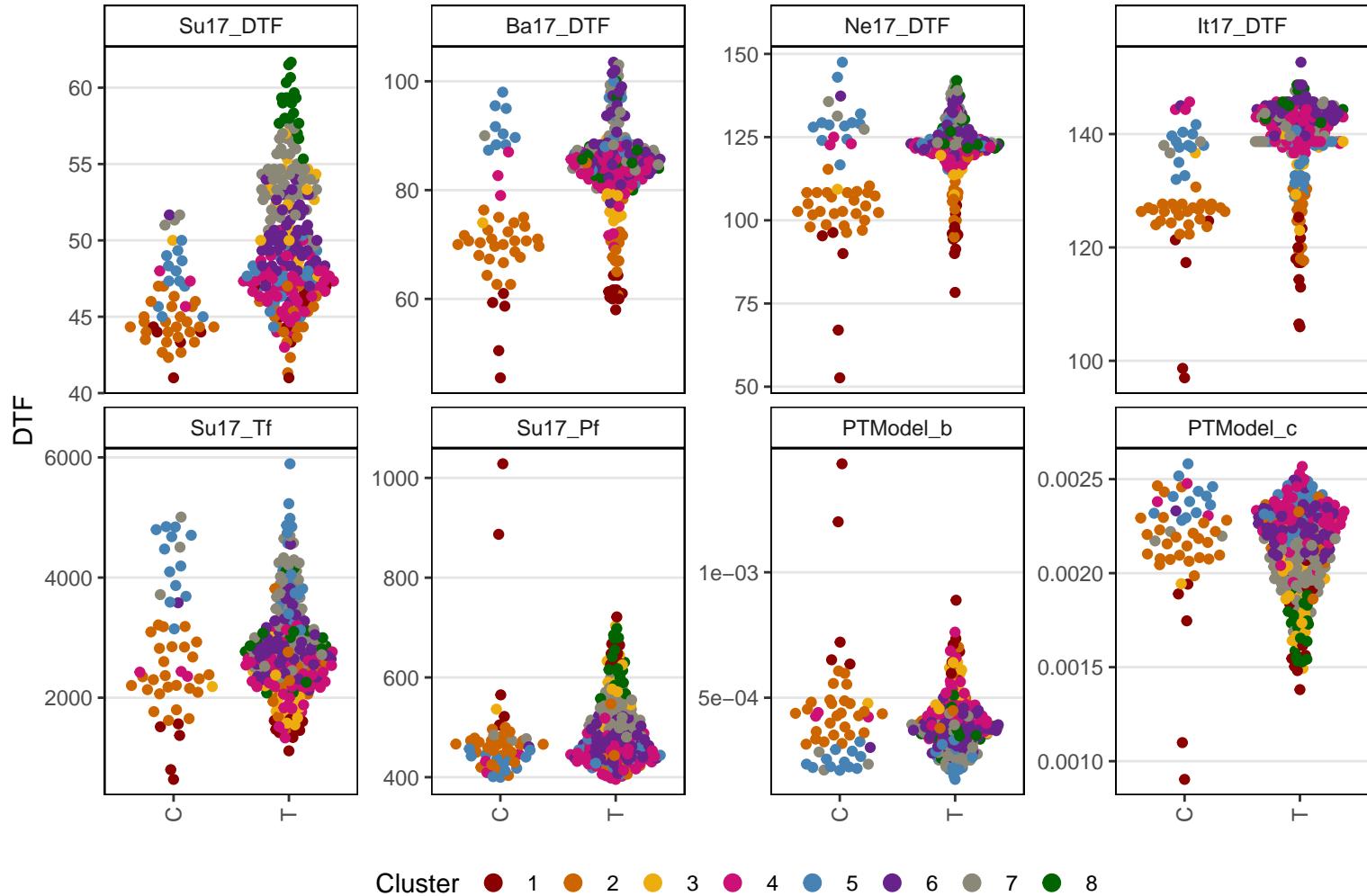
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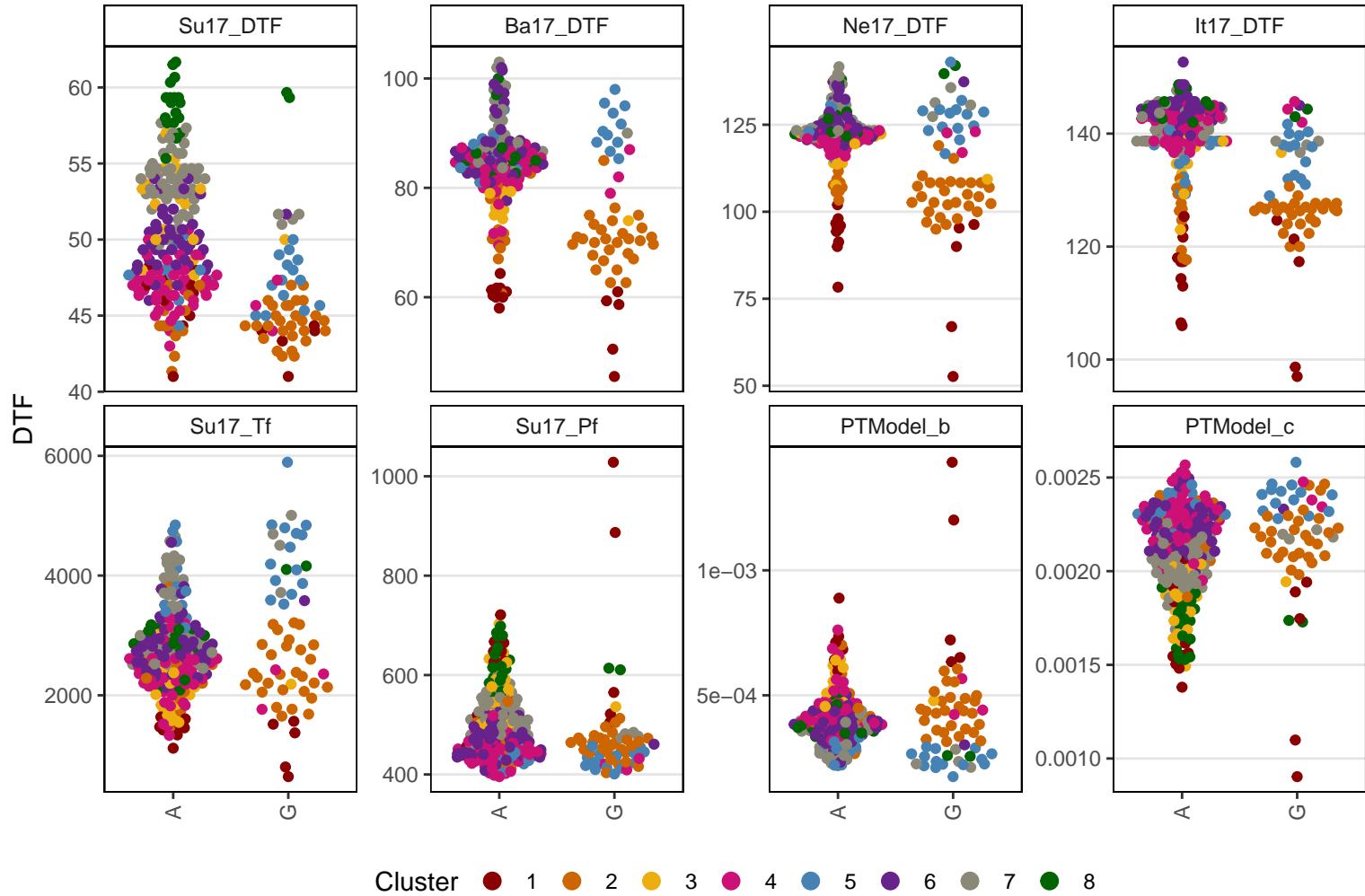
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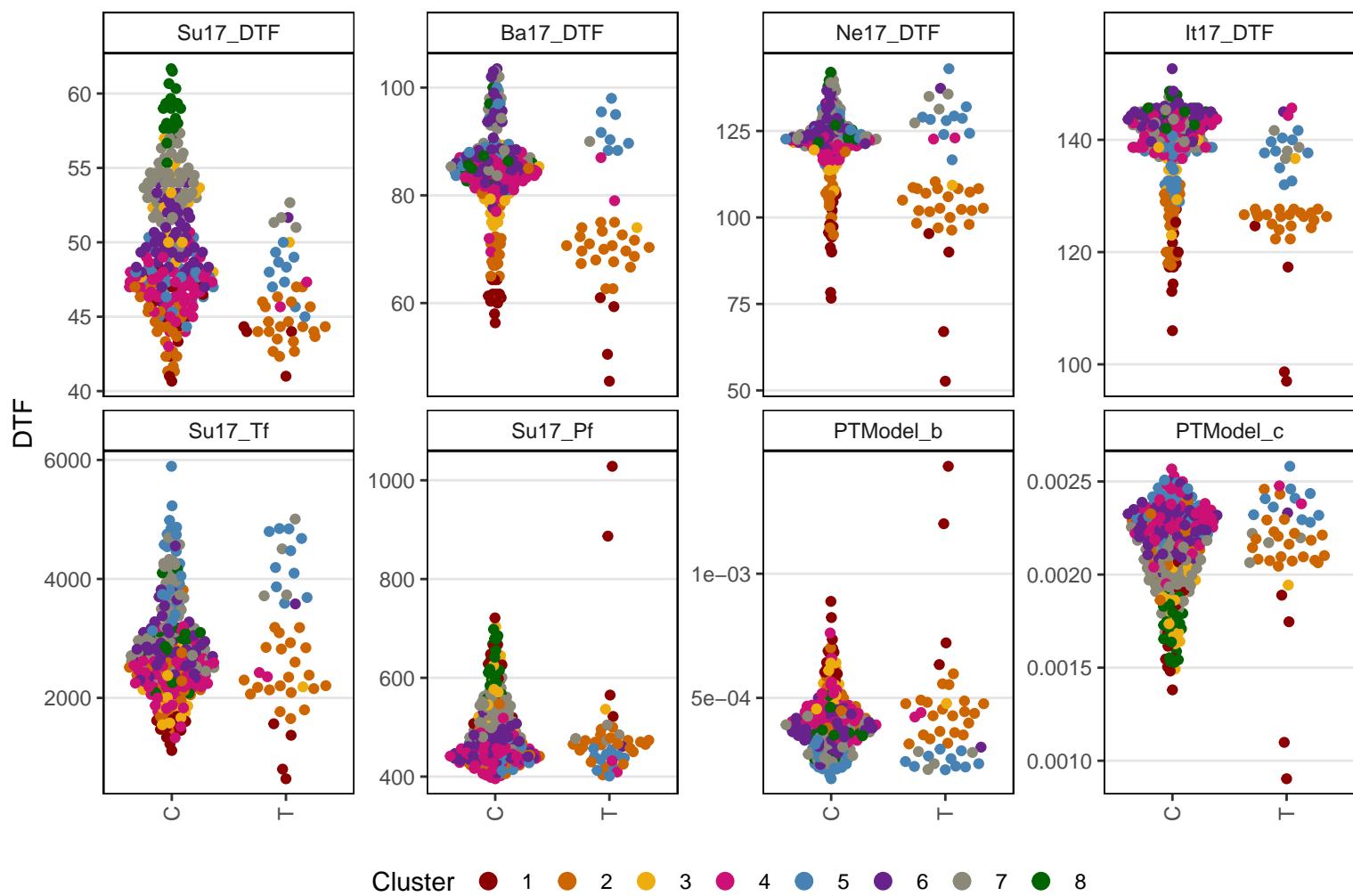


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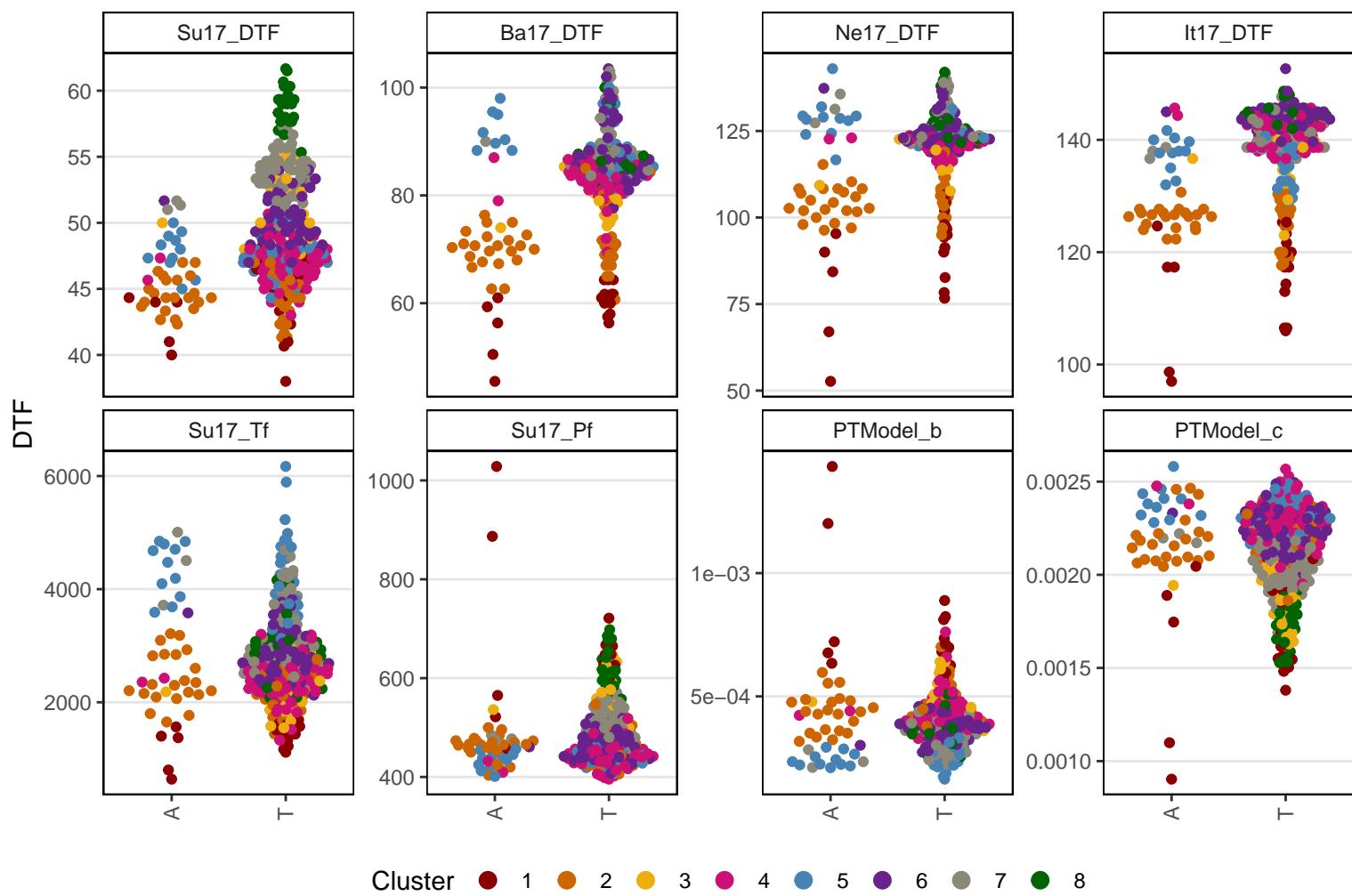


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

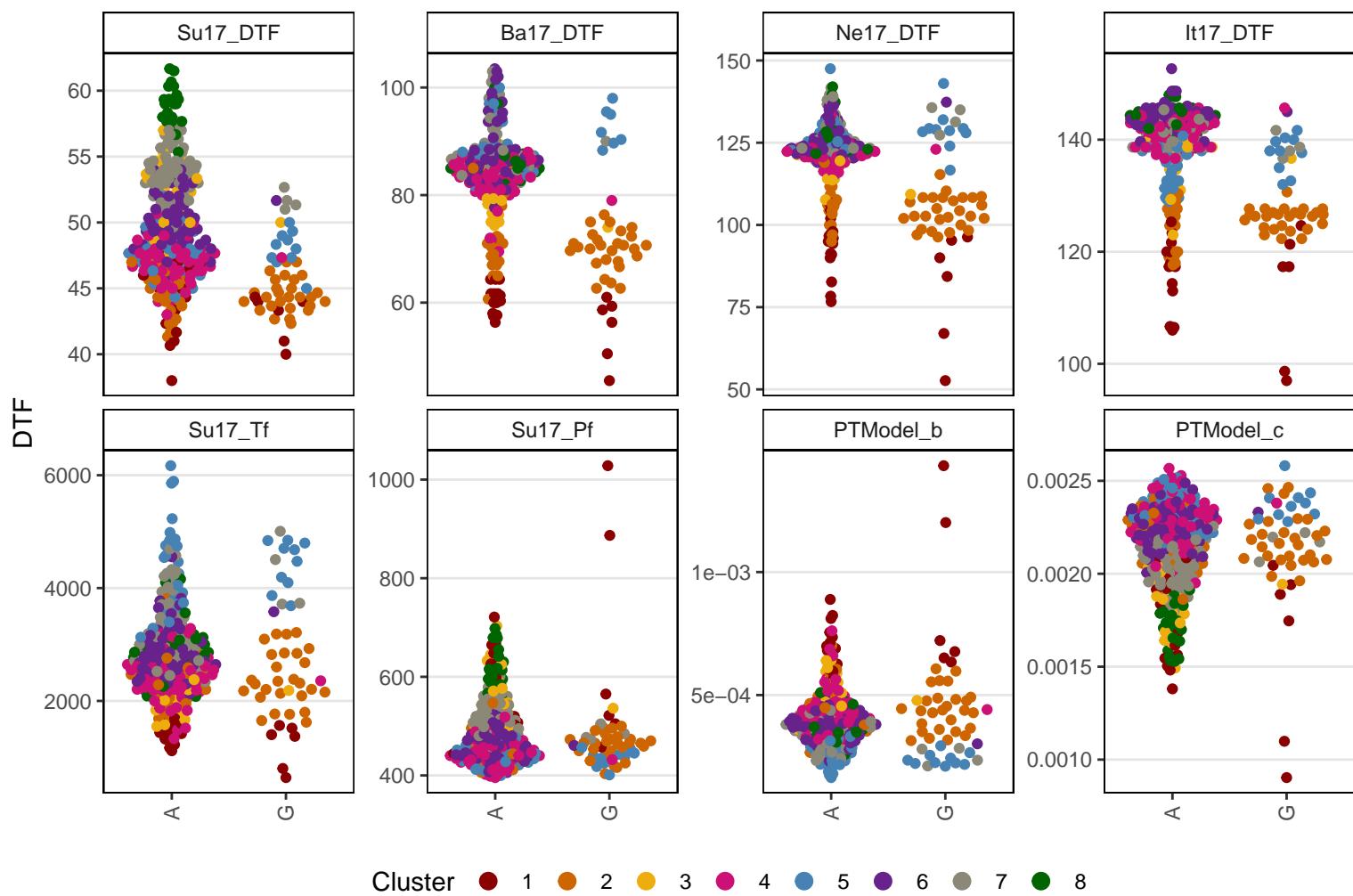
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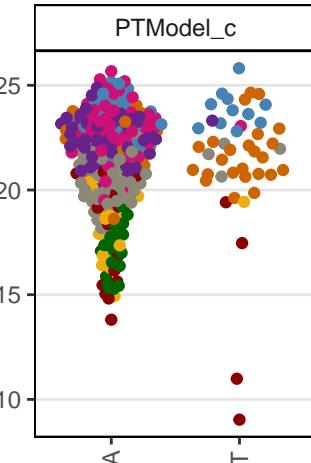
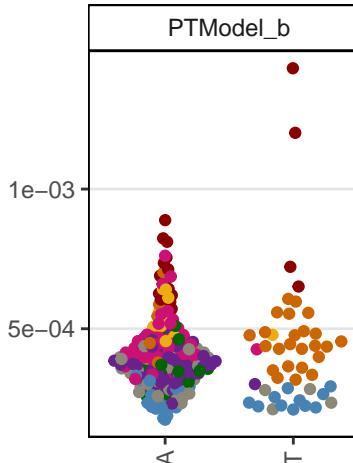
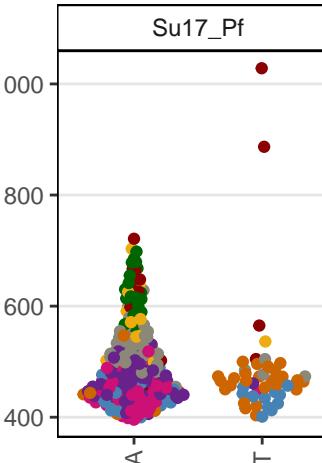
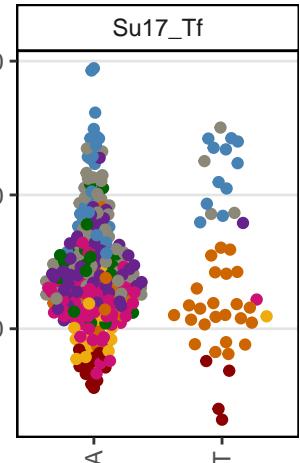
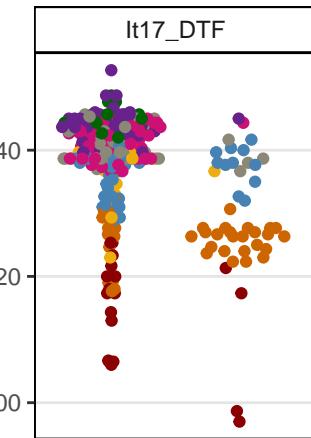
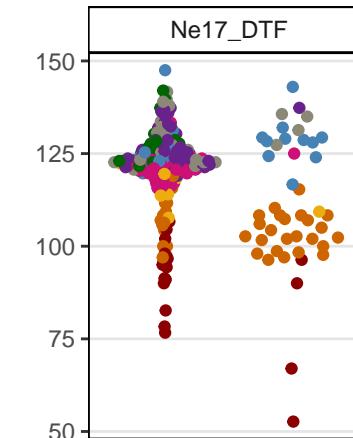
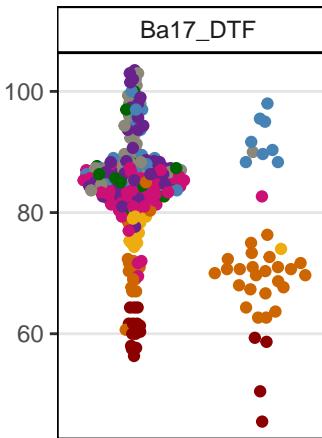
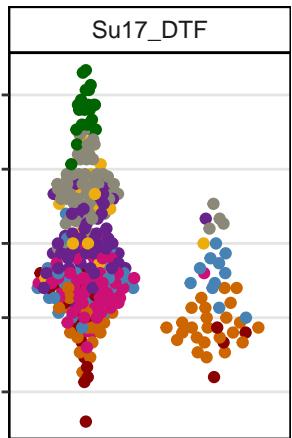


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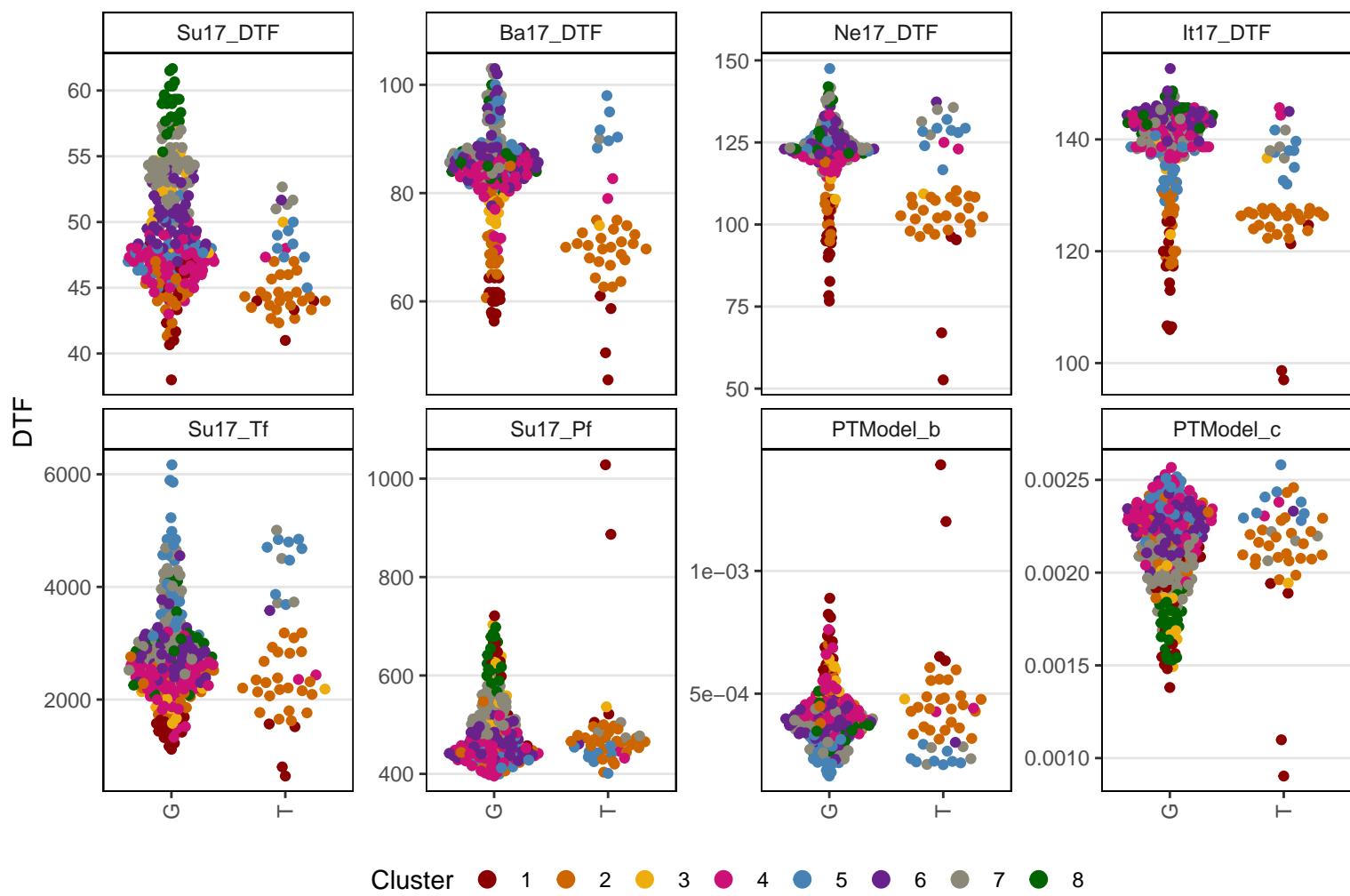
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DTF

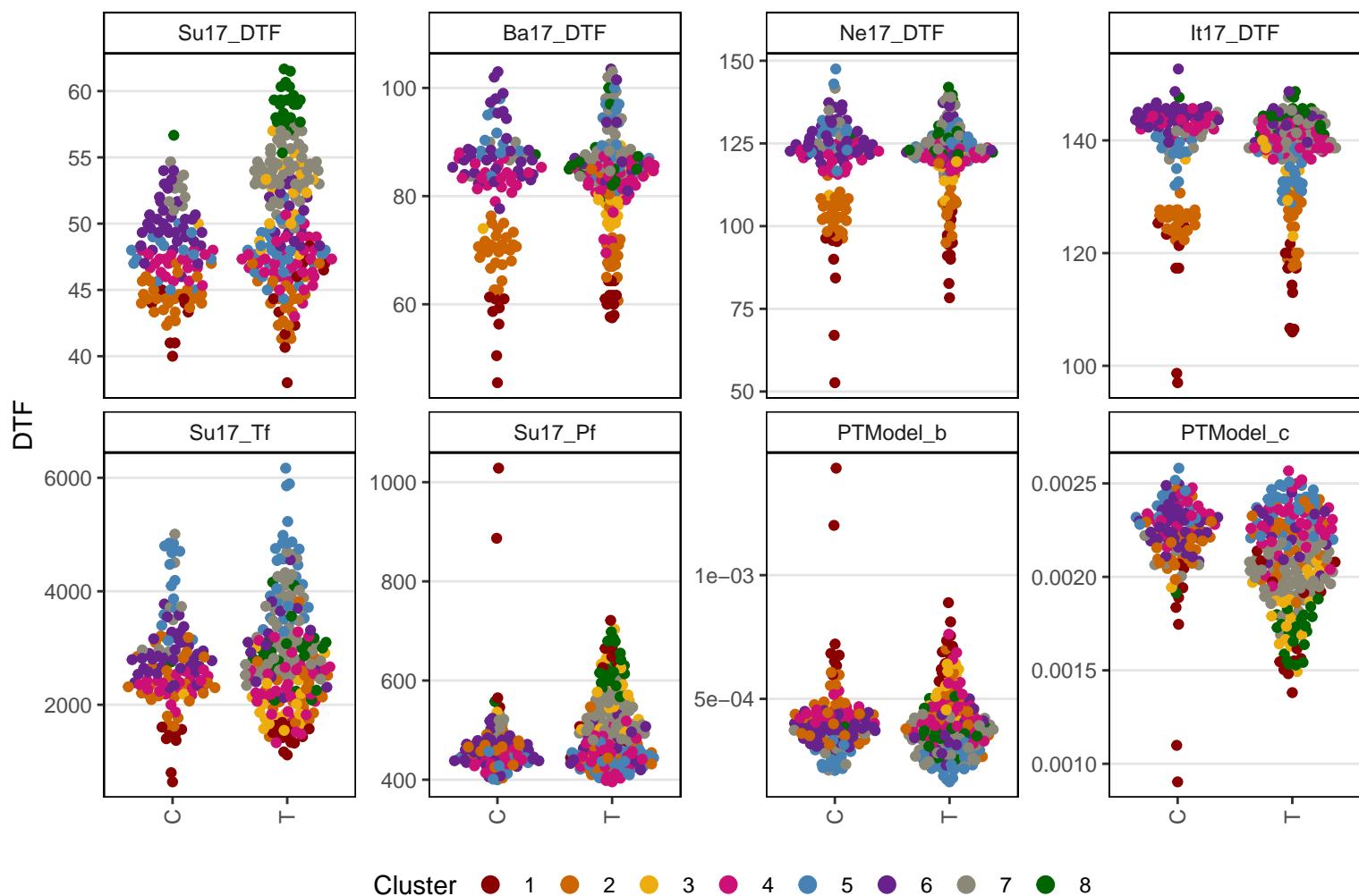


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

# Lcu.2RBY.Chr3p314202839

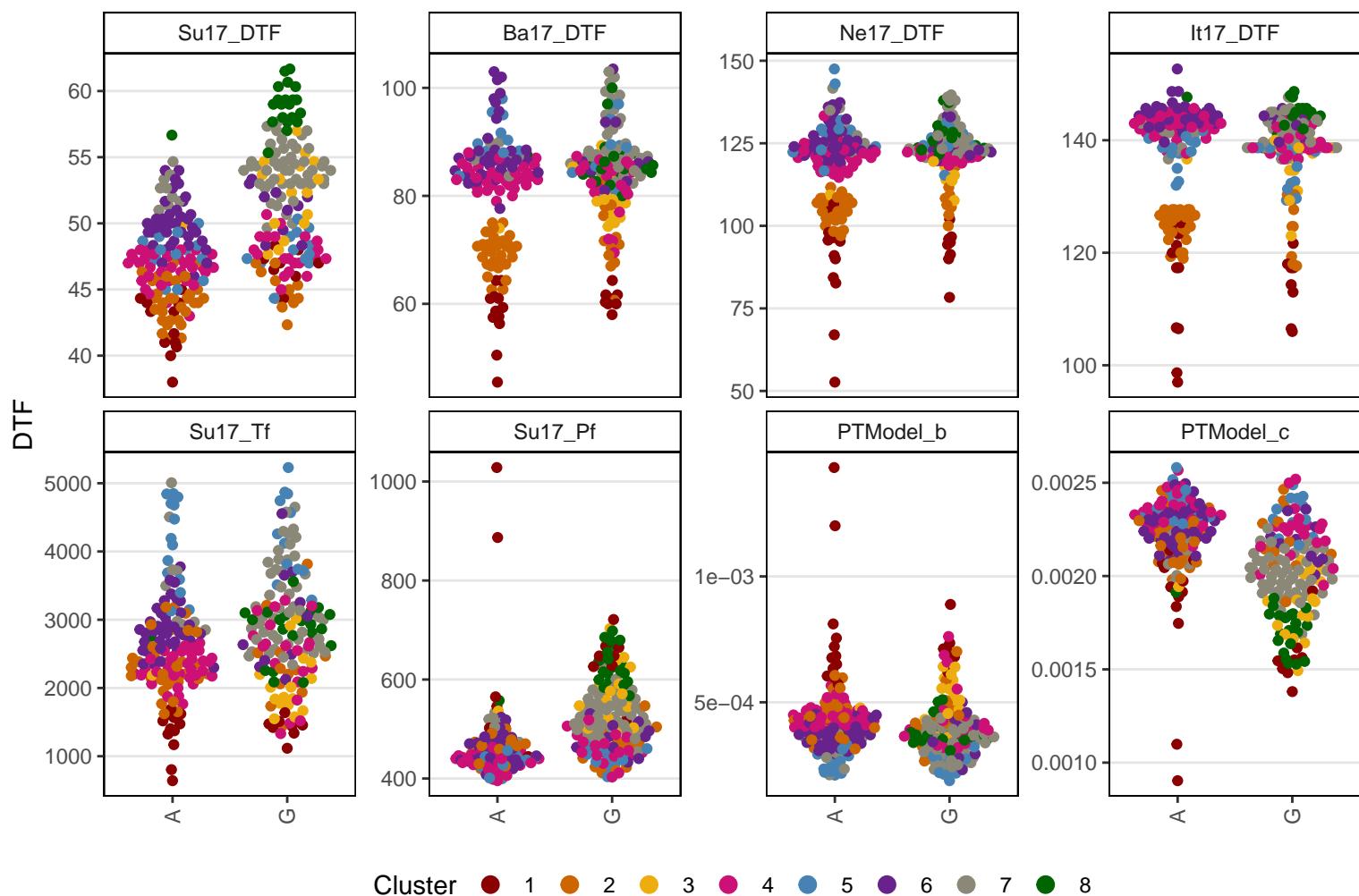


# Lcu.2RBY.Chr3p315285125



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

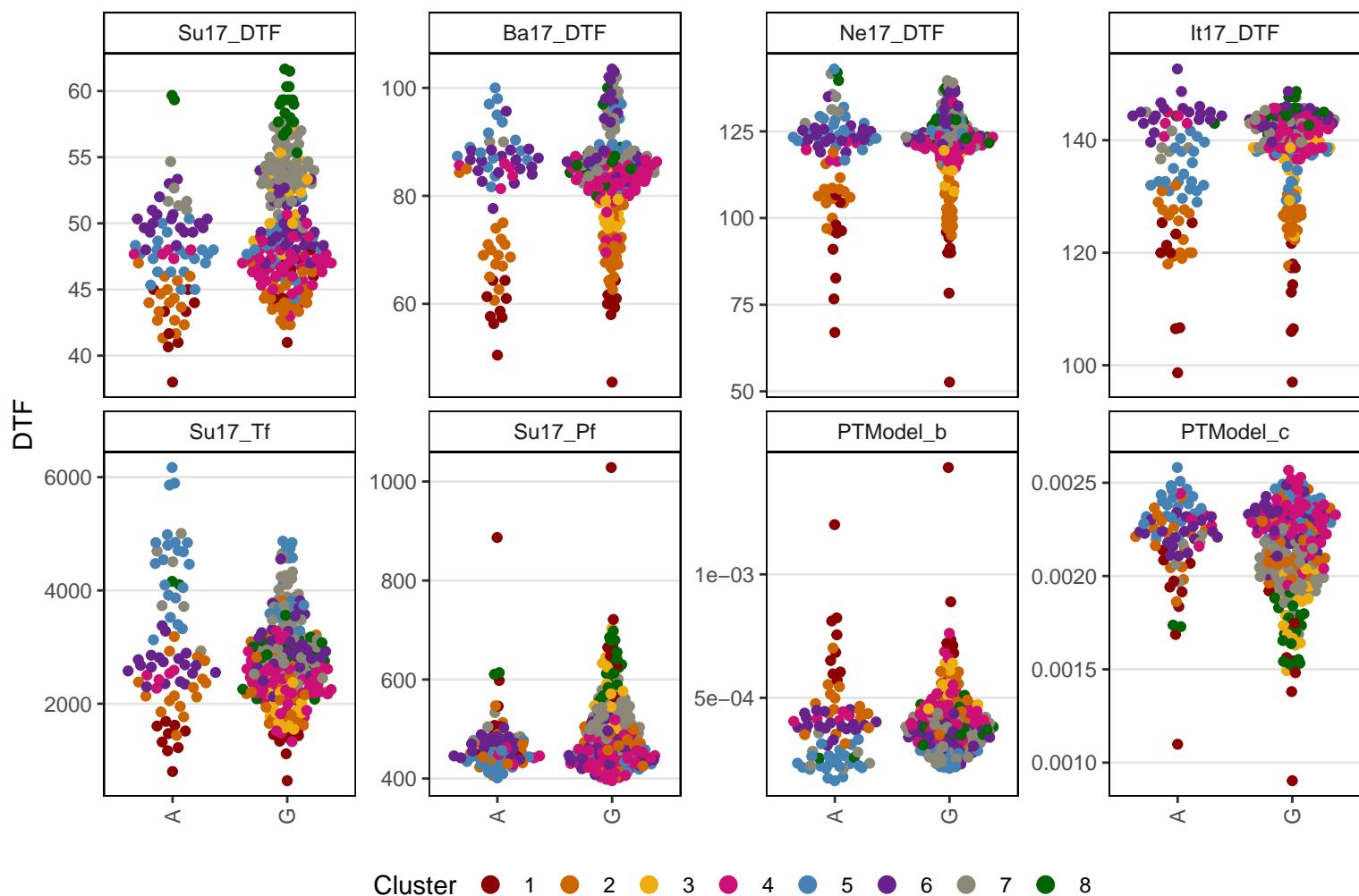
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Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

LcPI ; LcEFS ; LcGA20oxI  
1598833 ; 2157352 ; 2862152

# Lcu.2RBY.Chr3p319945798

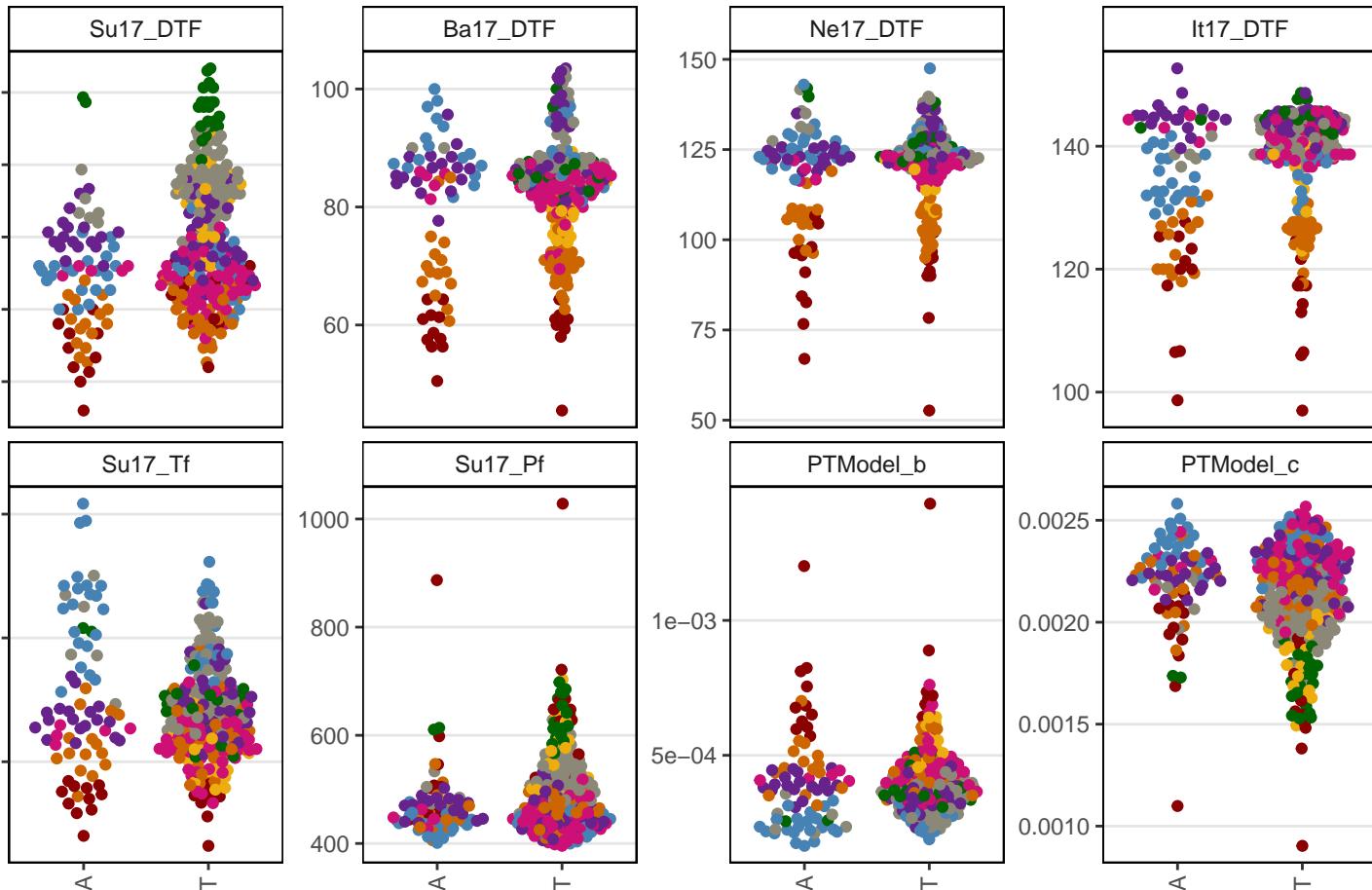


Cluster 1 2 3 4 5 6 7 8

LcGA20oxI ; LcEFS ; LcPI  
653945 ; 1358745 ; 1917264

# Lcu.2RBY.Chr3p319946412

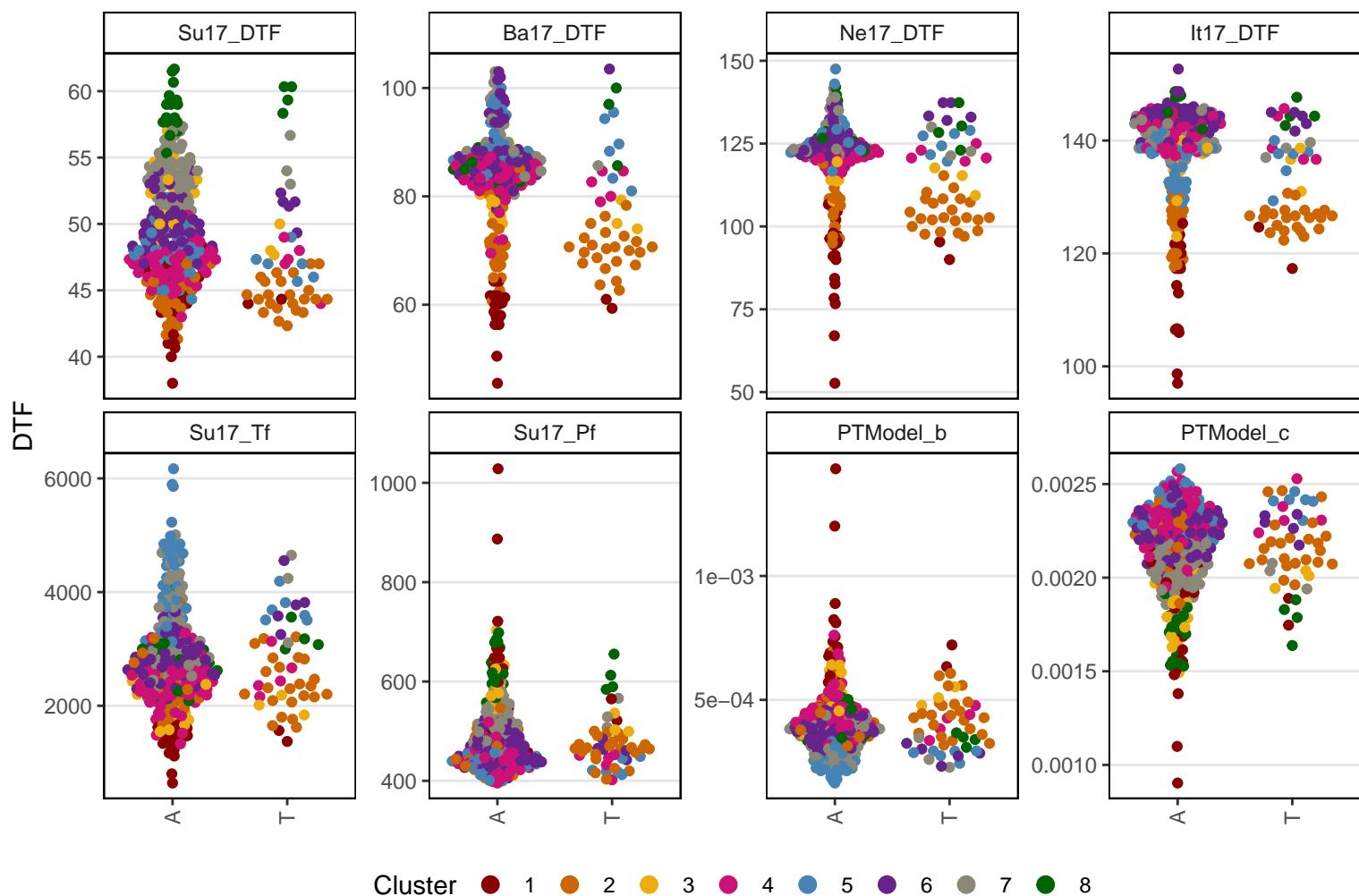
DTF



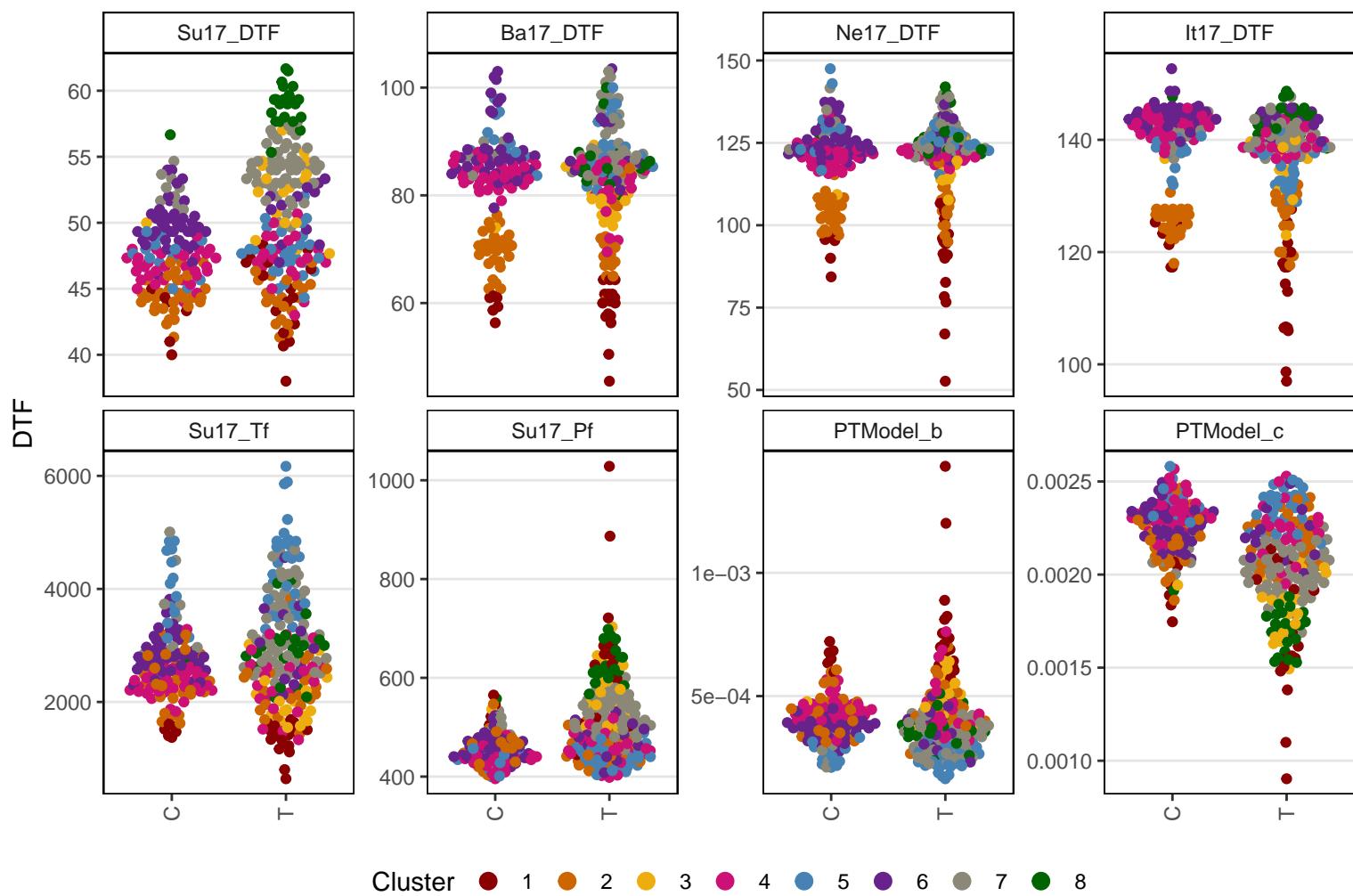
Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

LcGA20oxI ; LcEFS ; LcPI  
654559 ; 1359359 ; 1917878

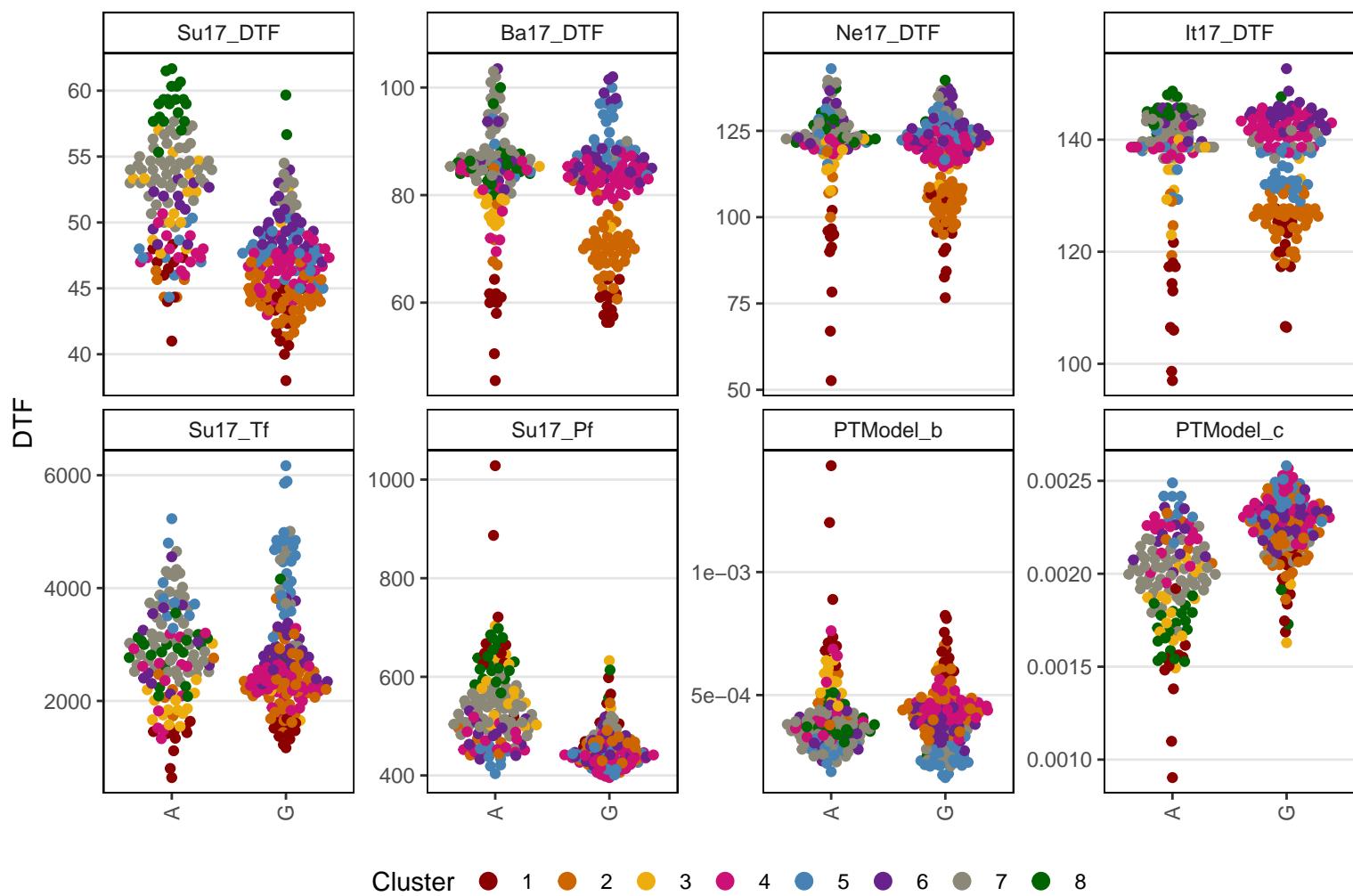
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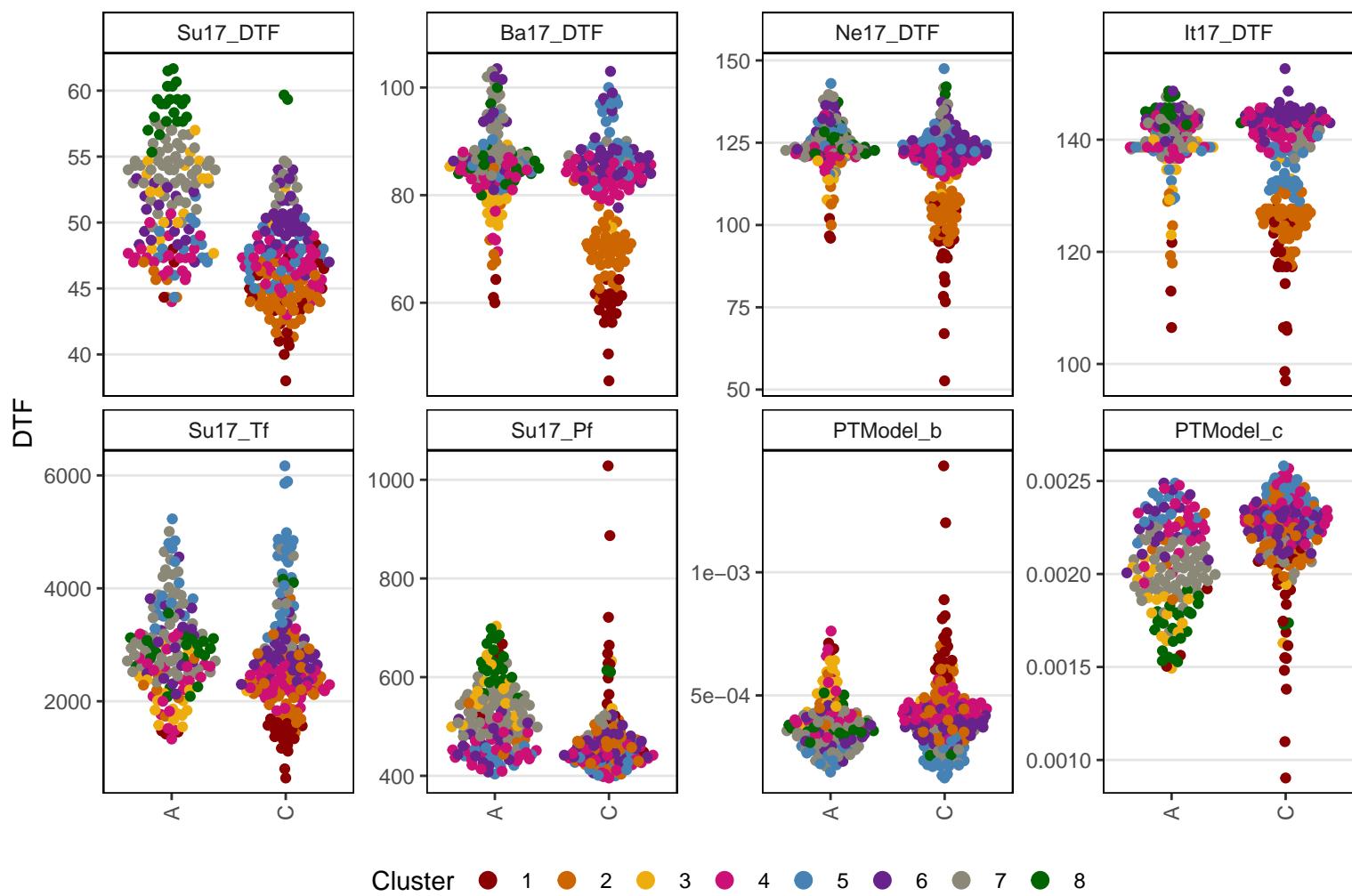
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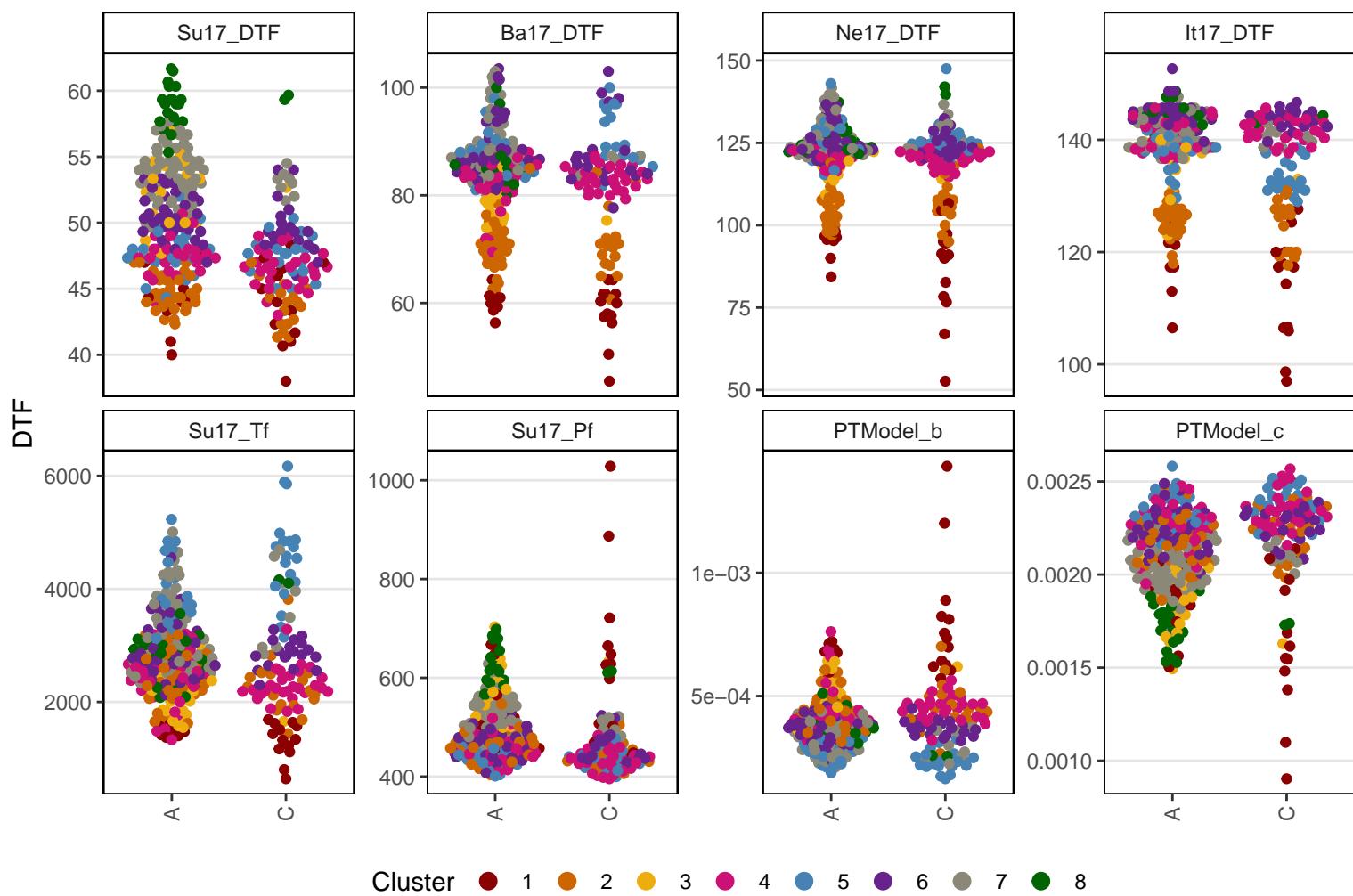
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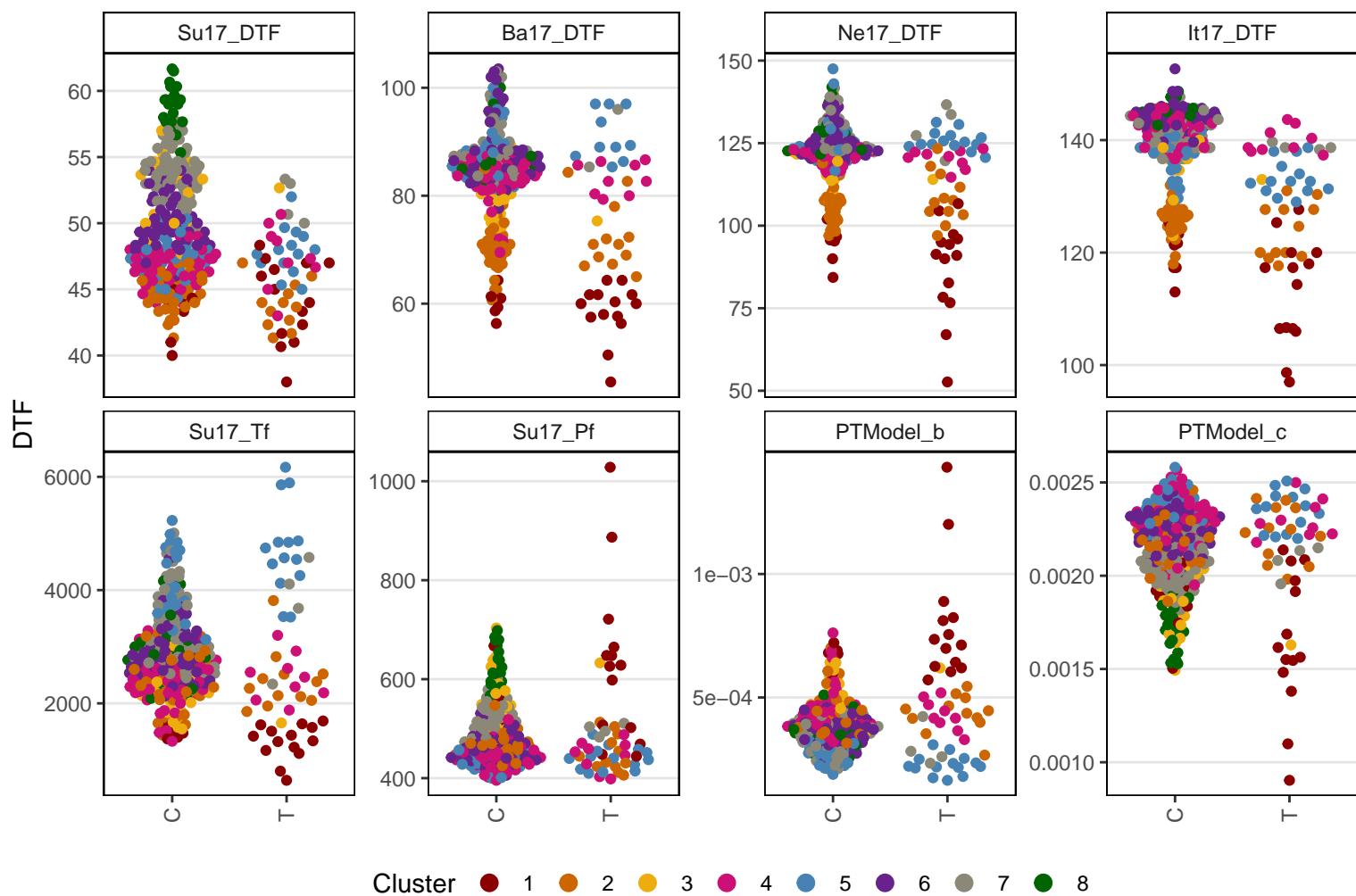
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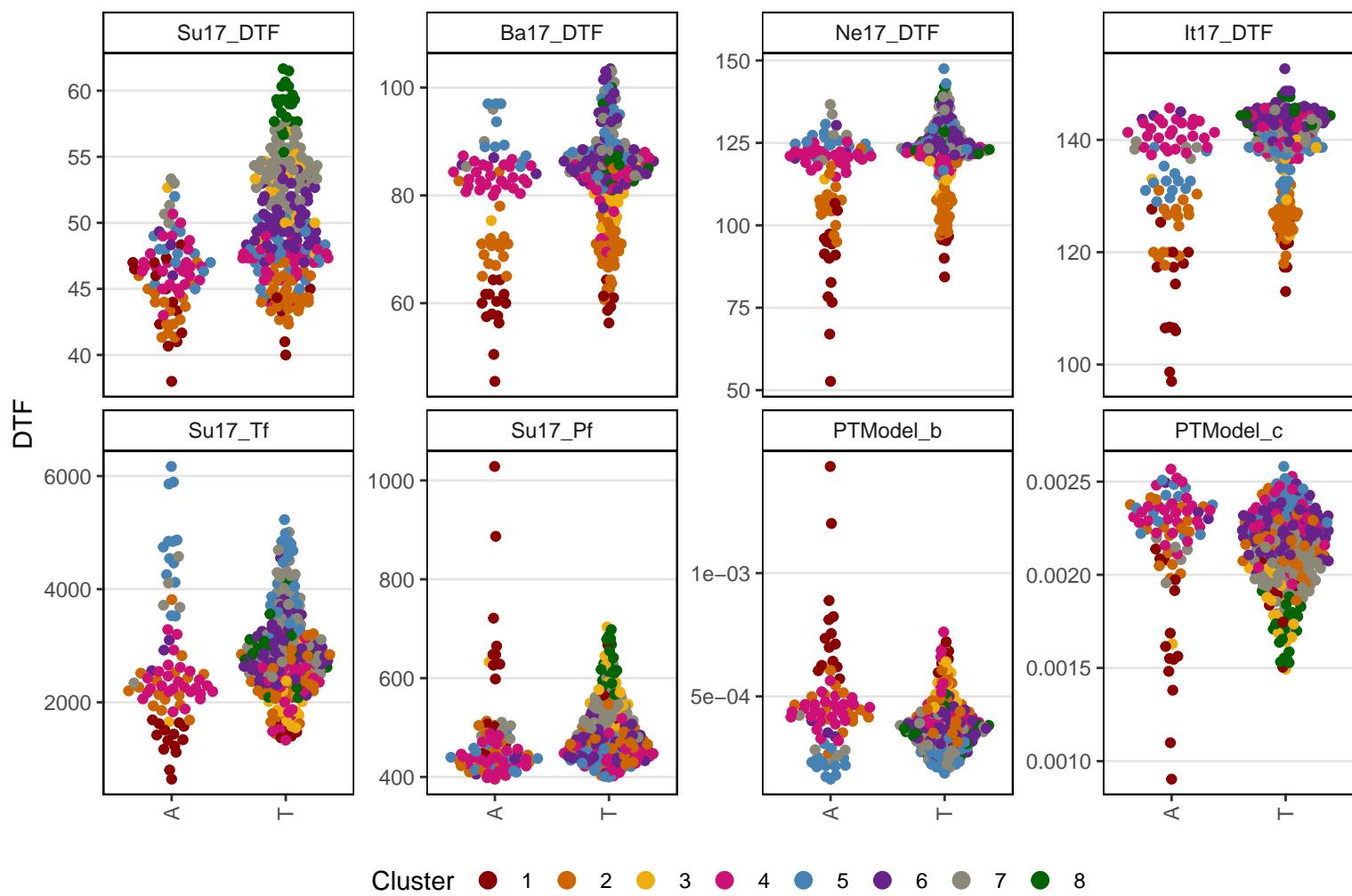
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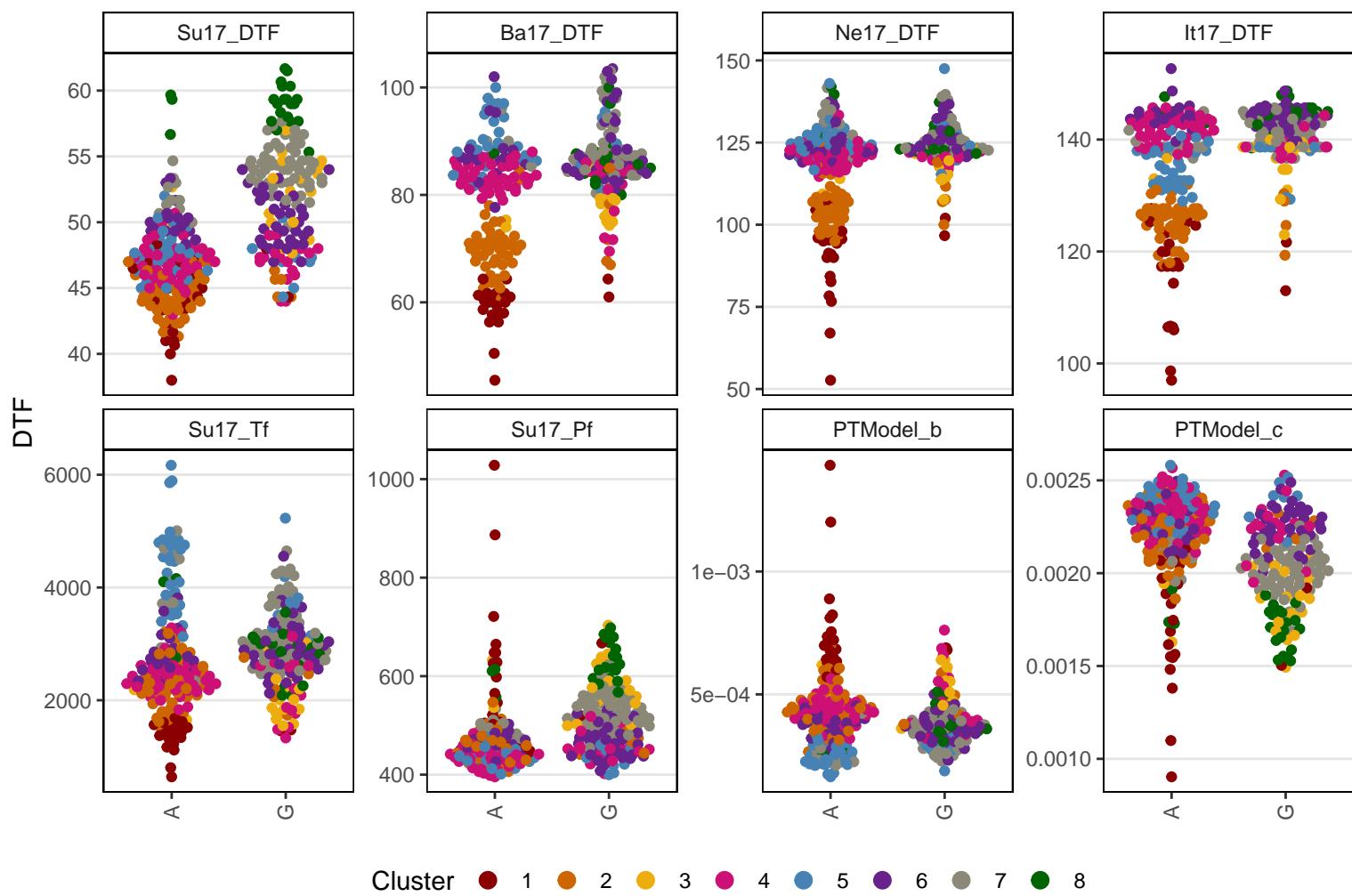
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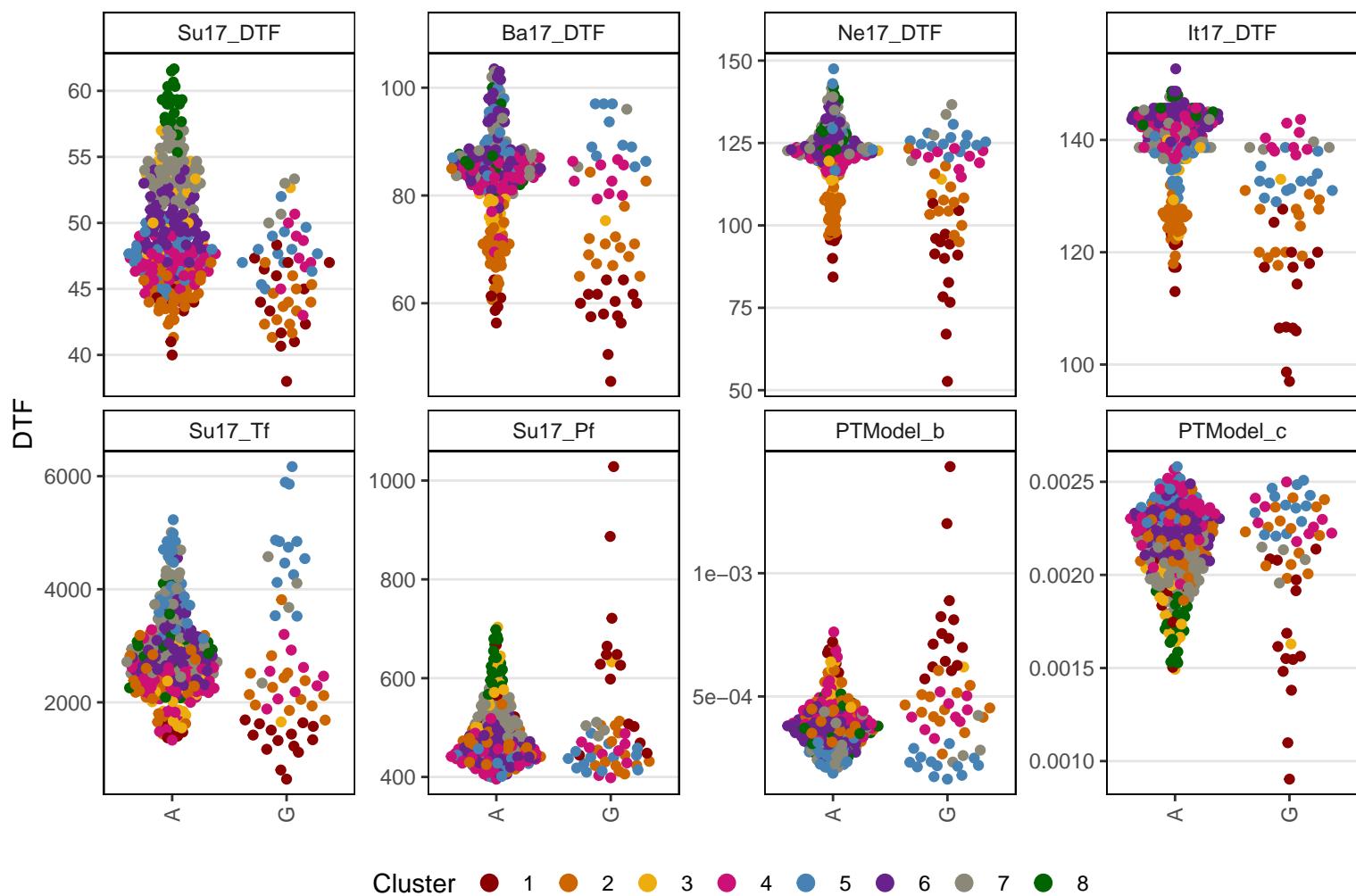
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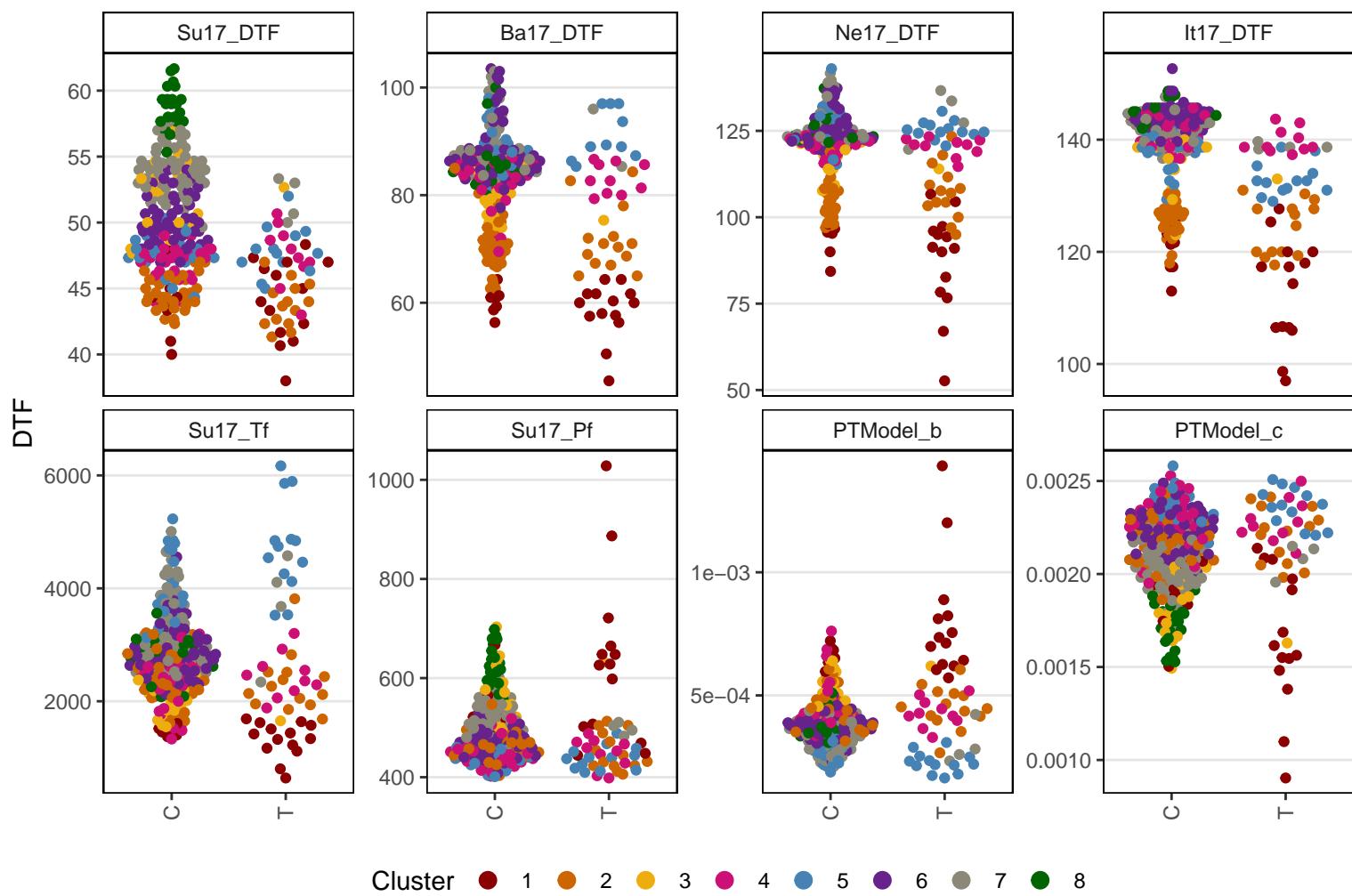
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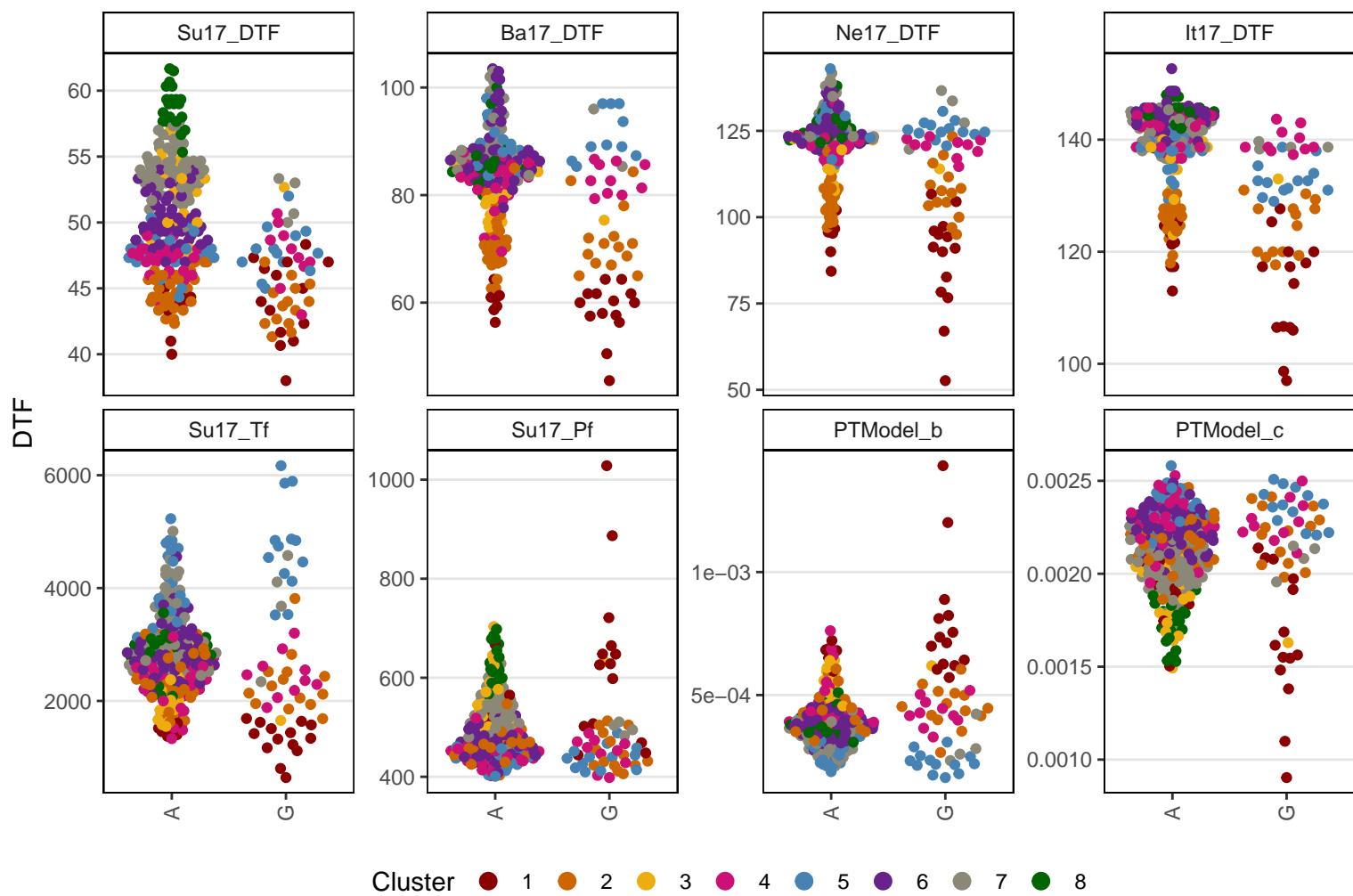
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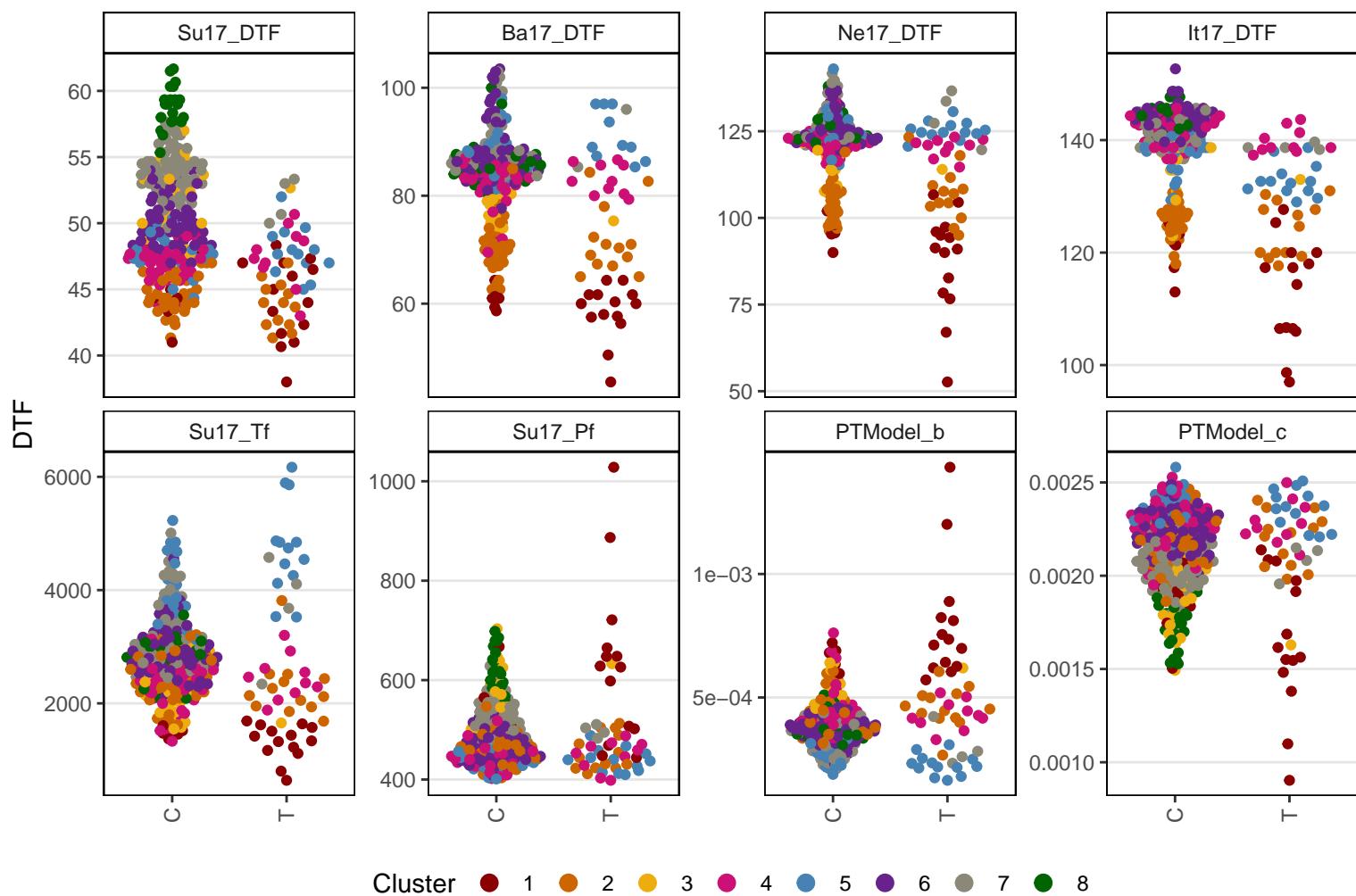
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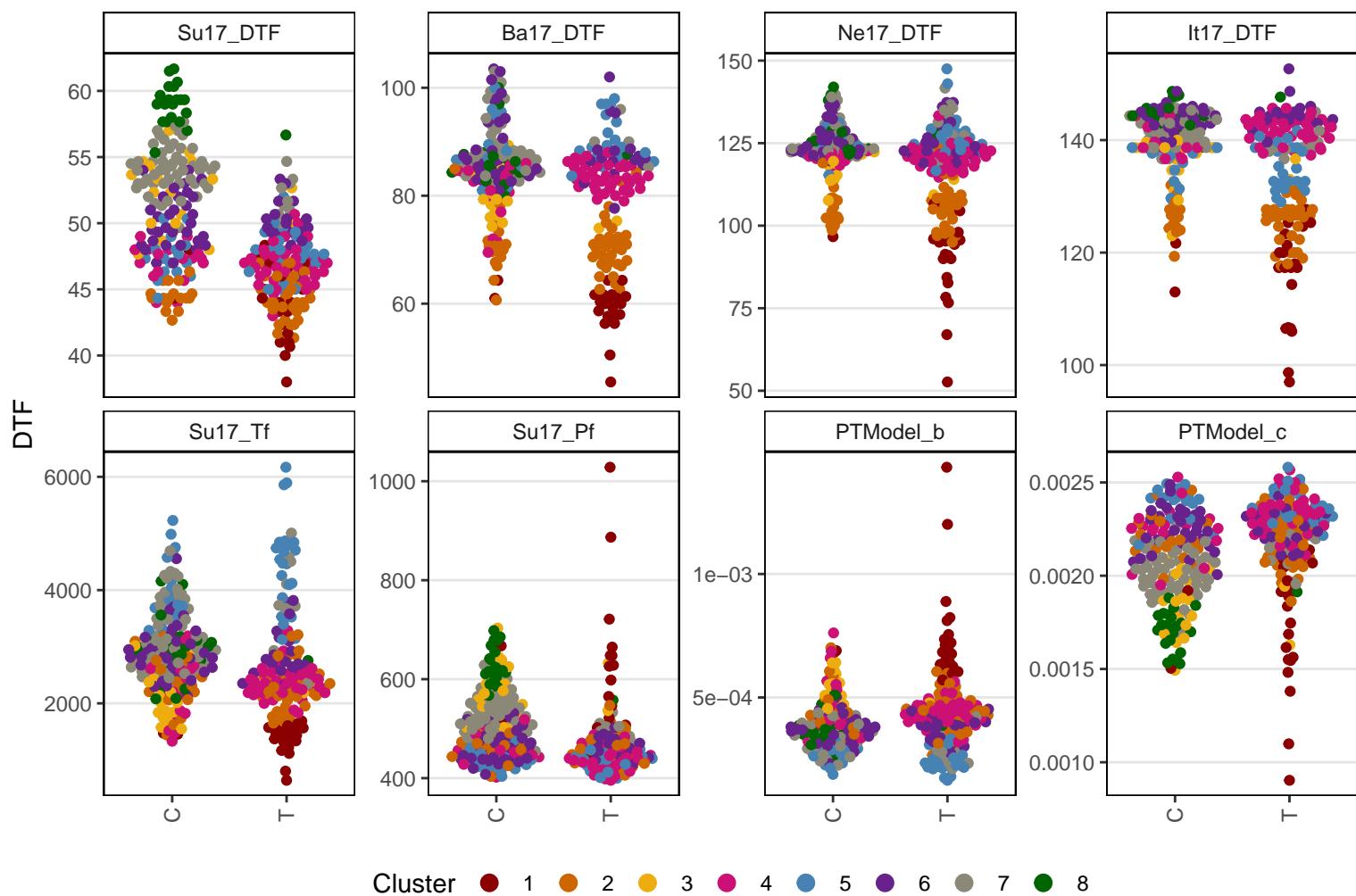
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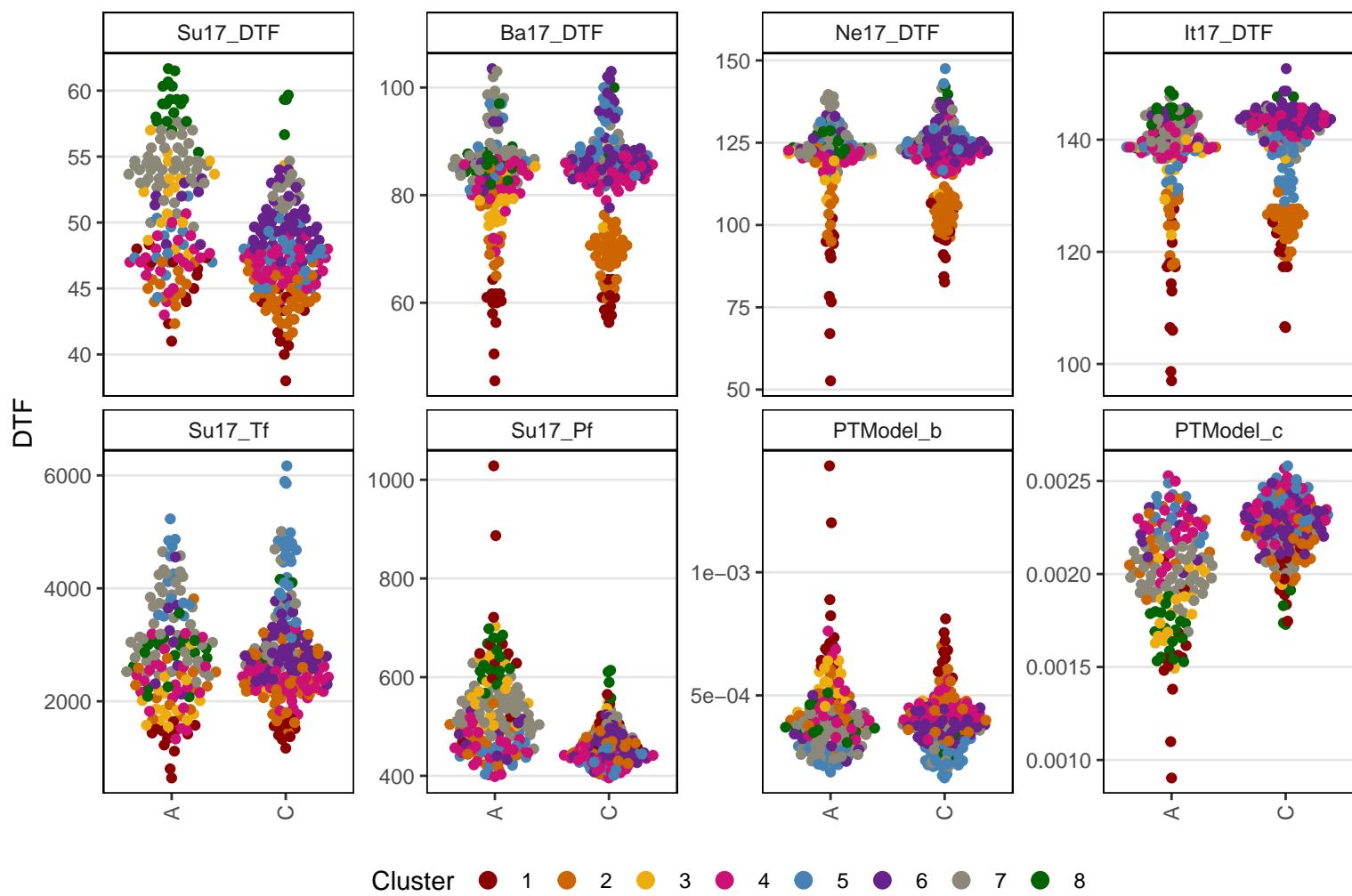
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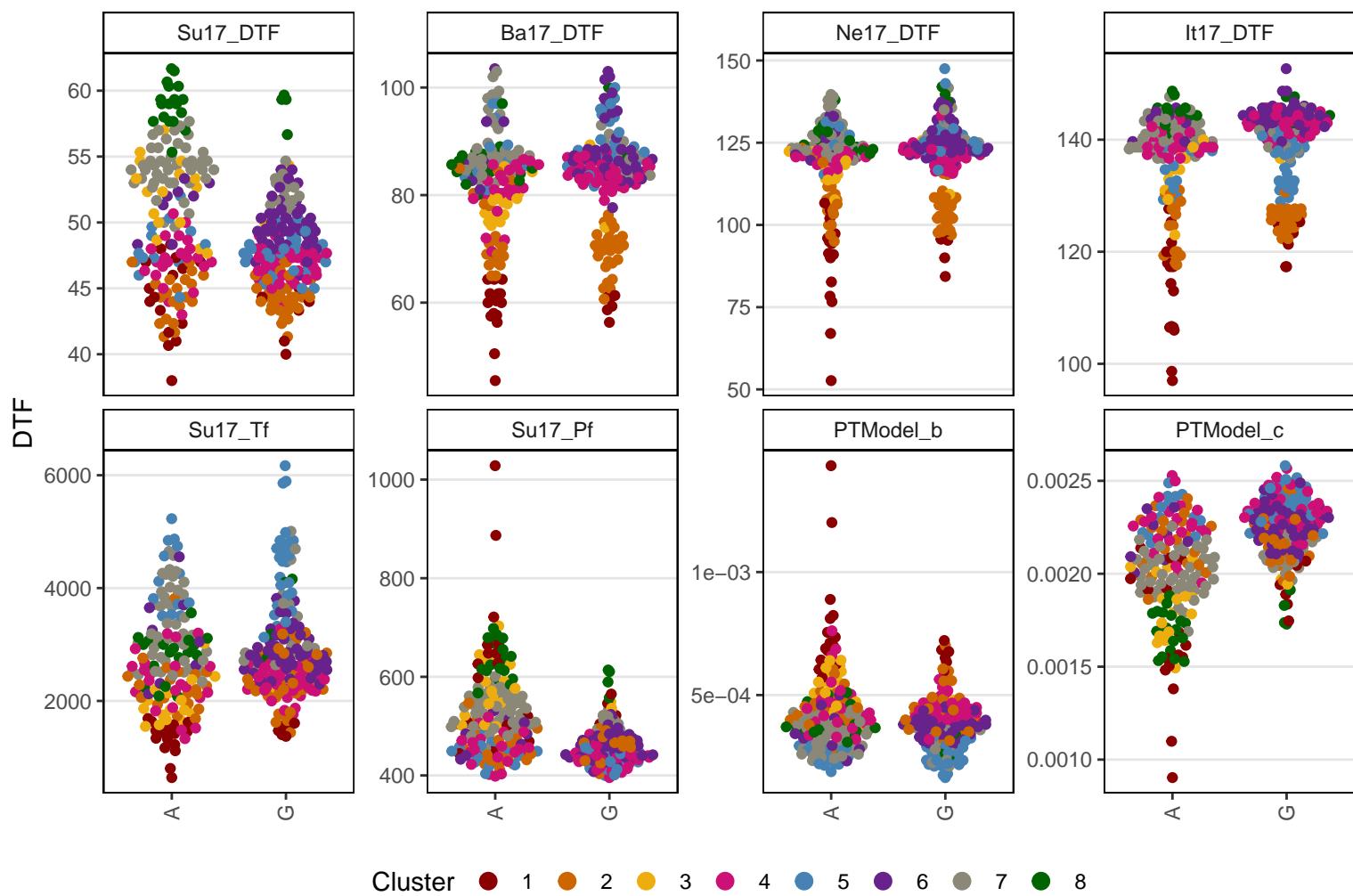
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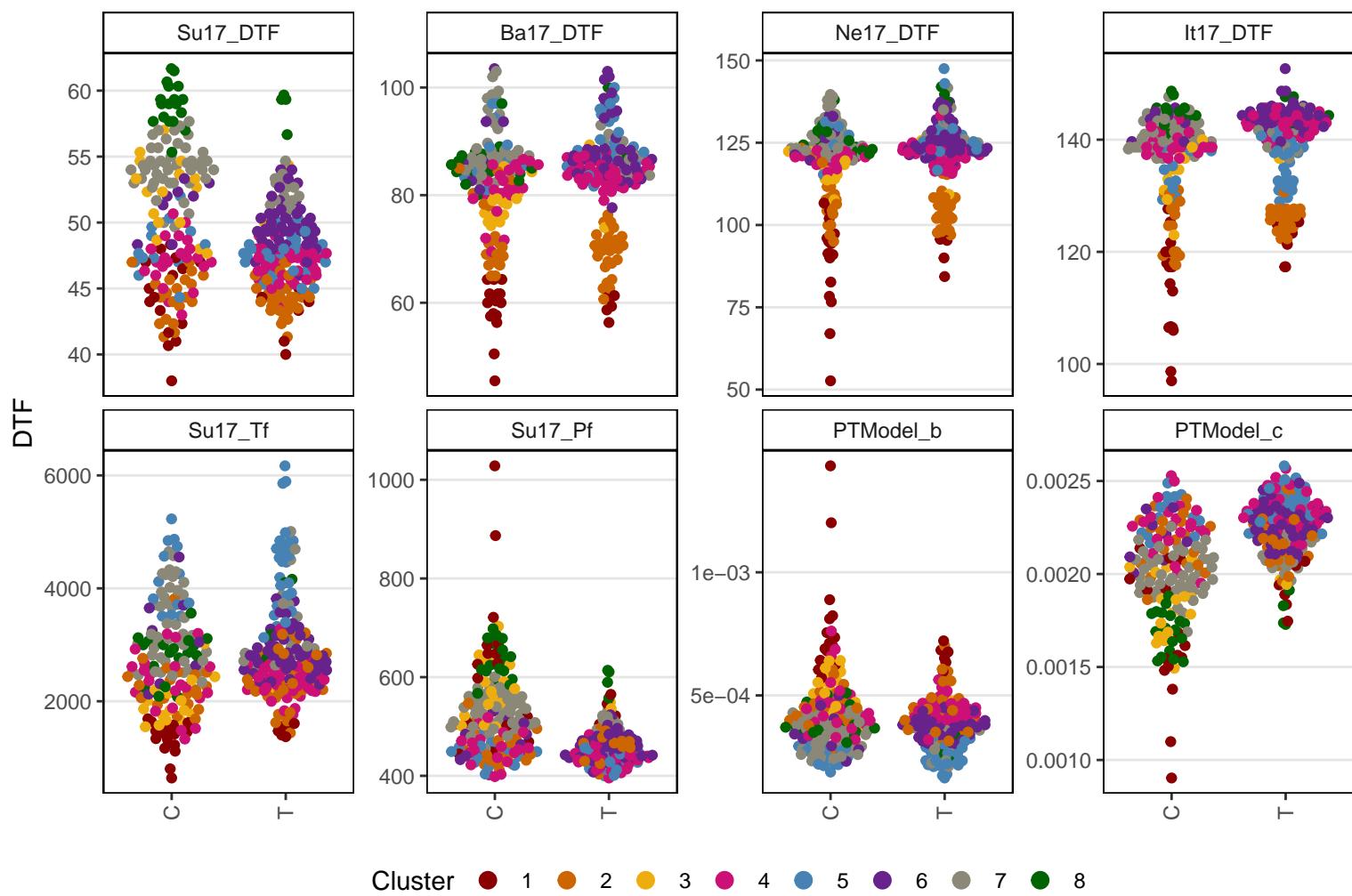
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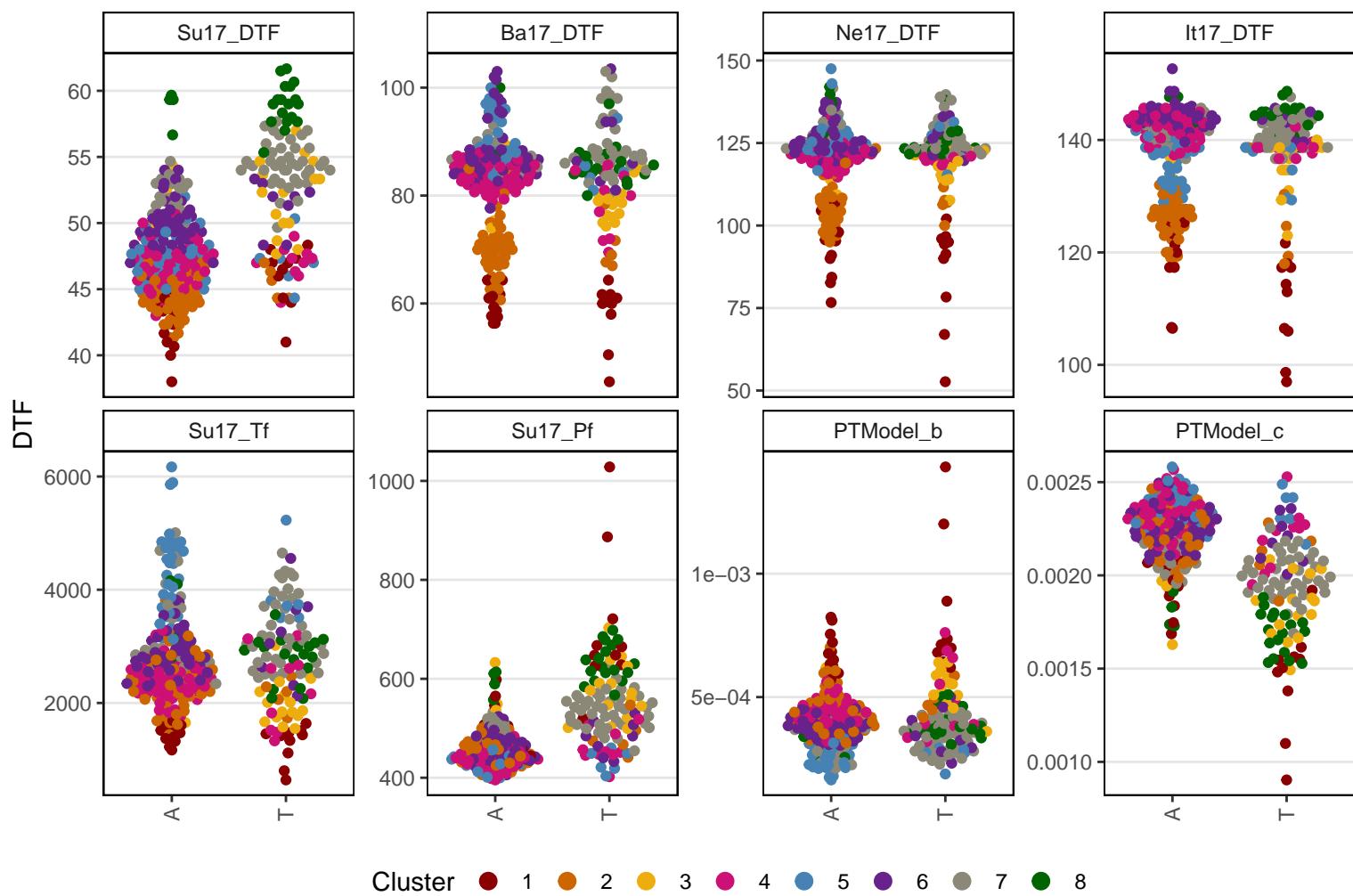
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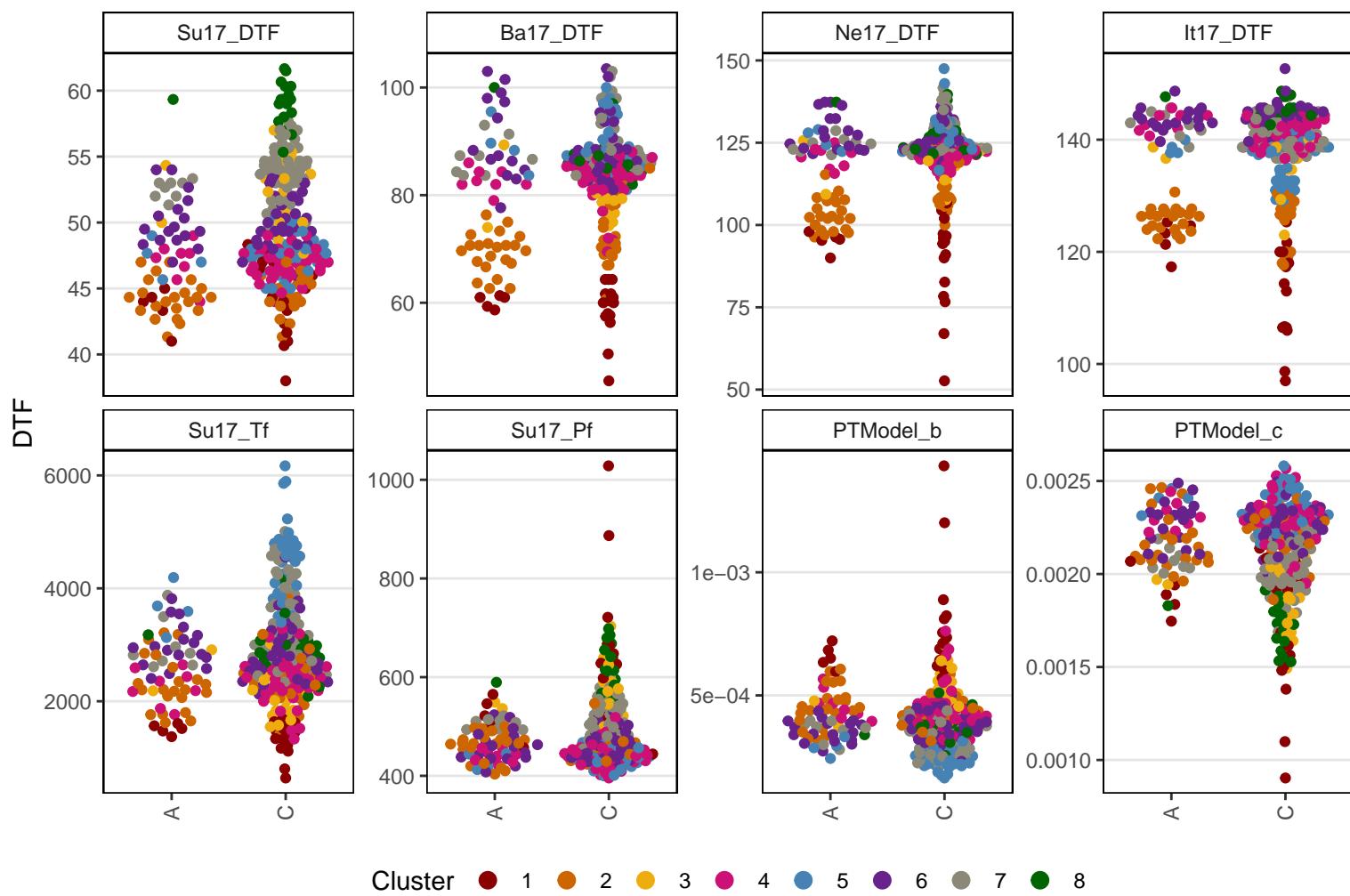
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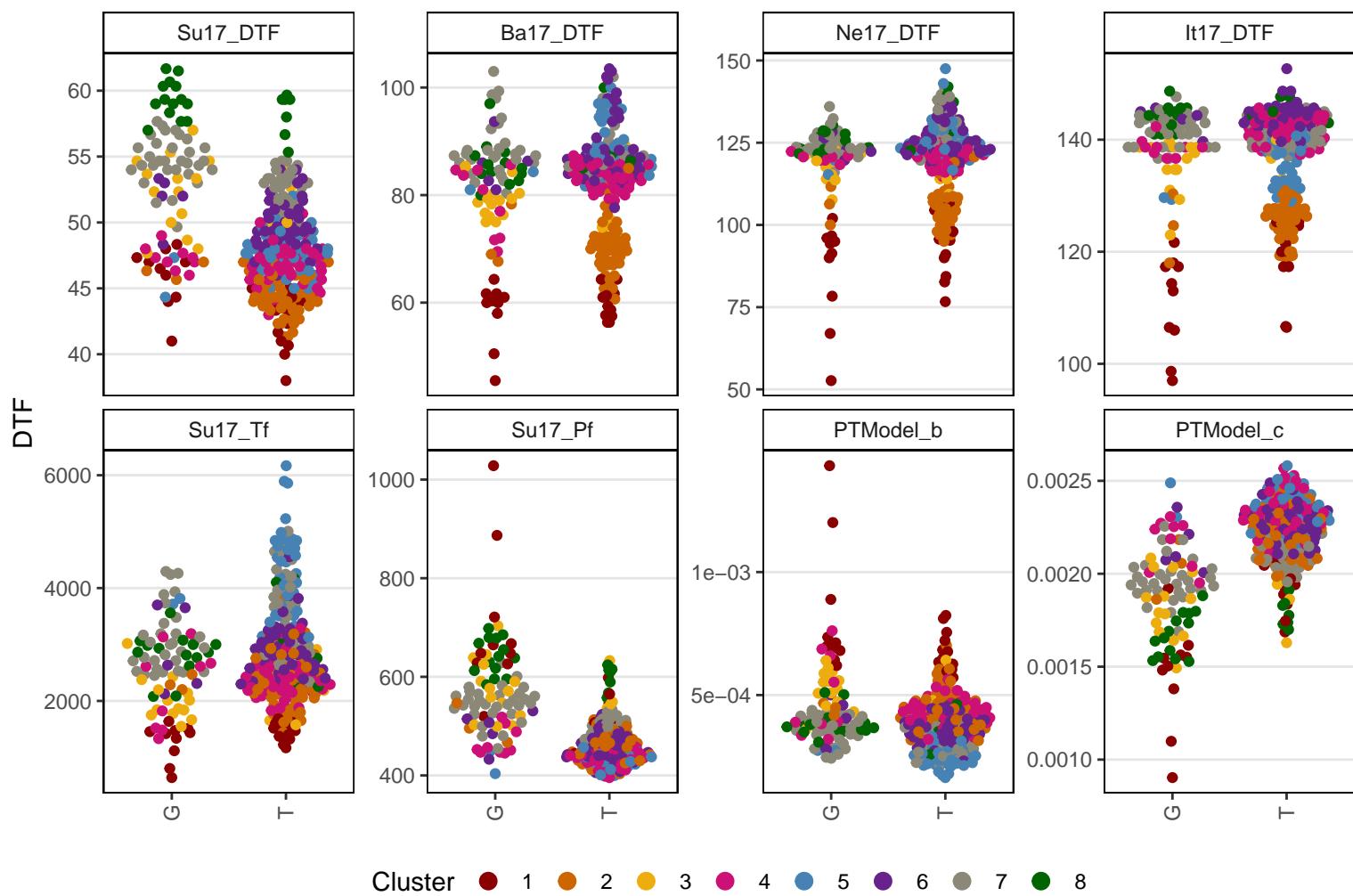
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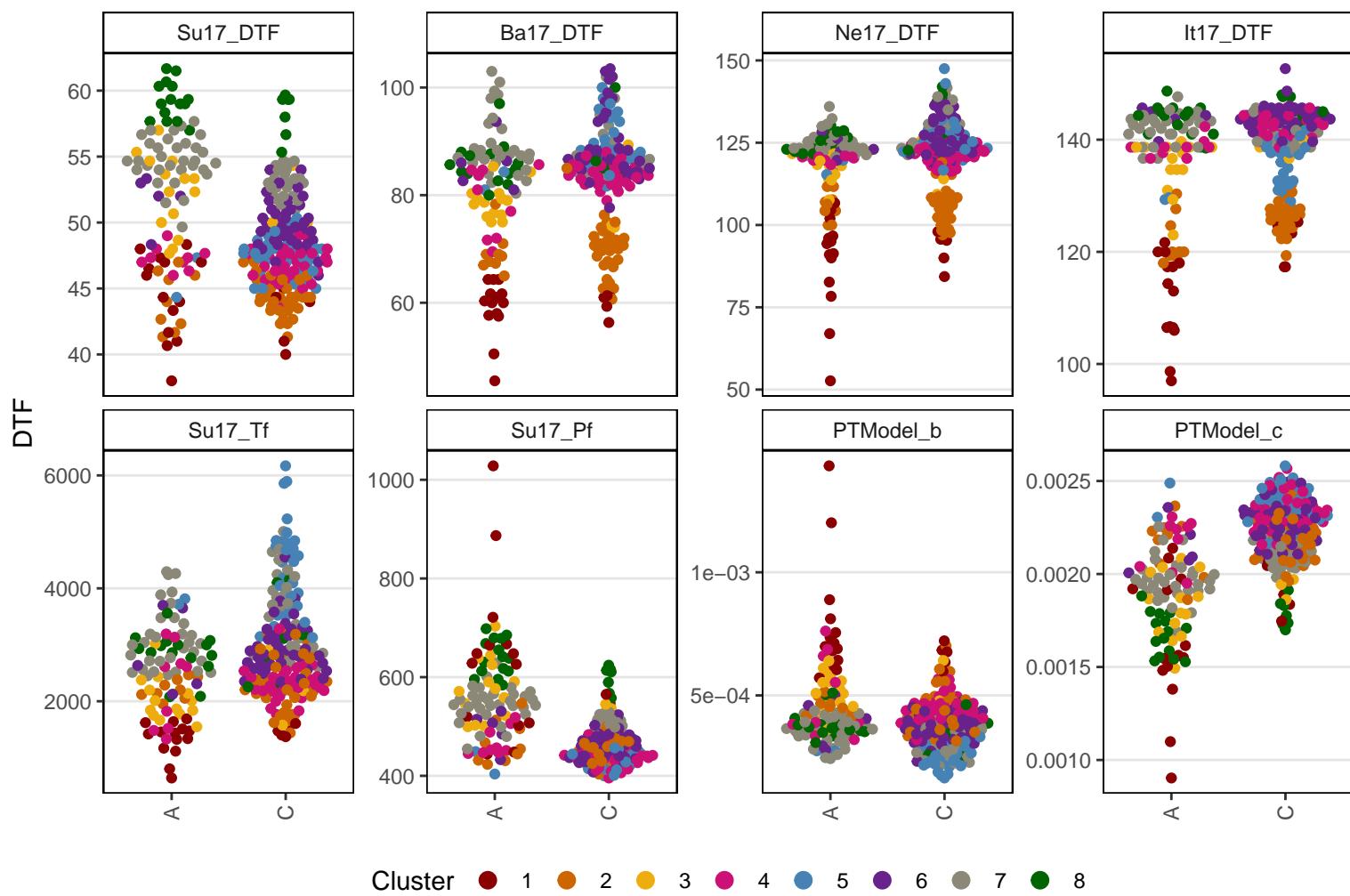
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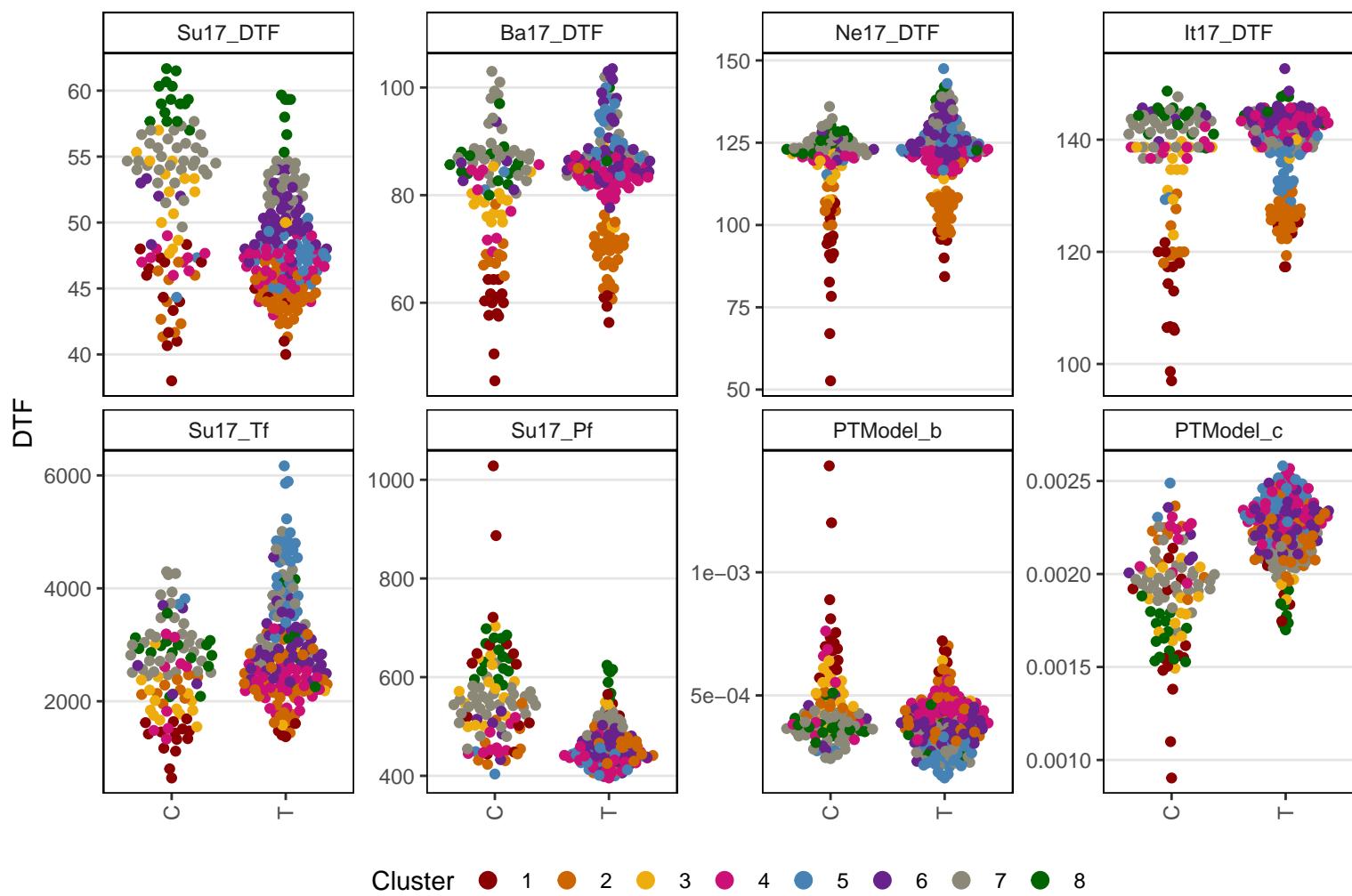
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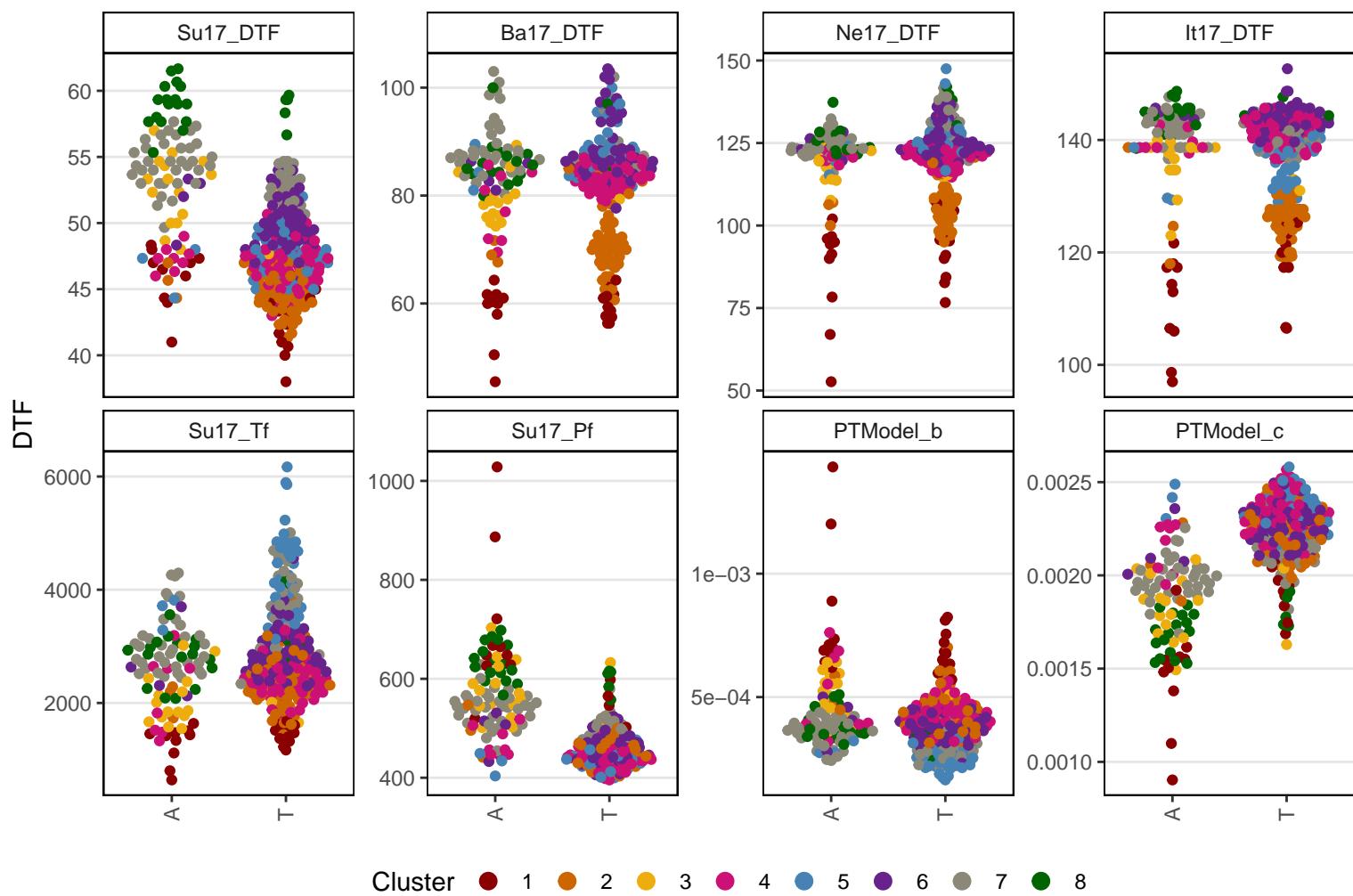
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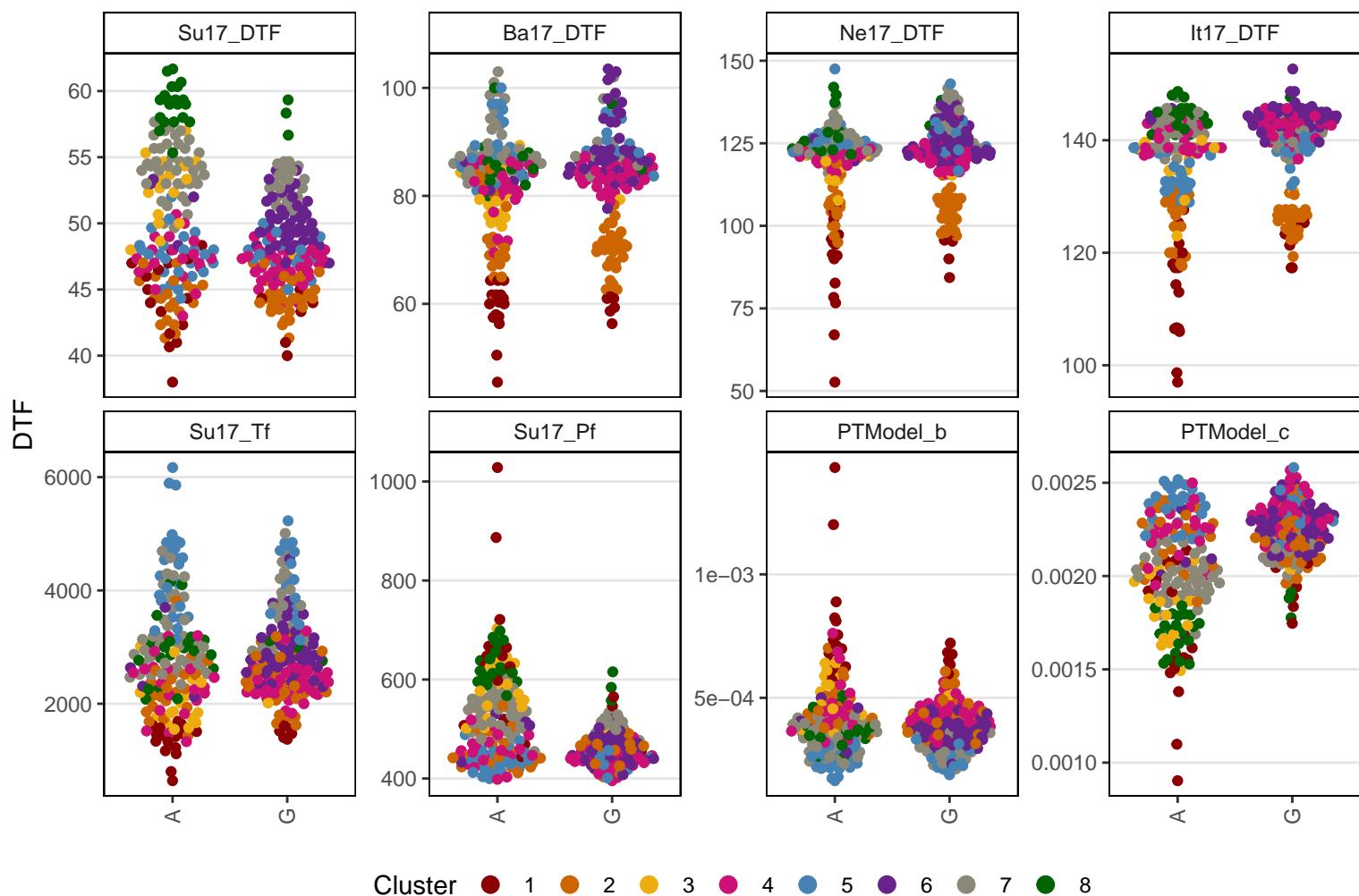
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# Lcu.2RBY.Chr3p332914572

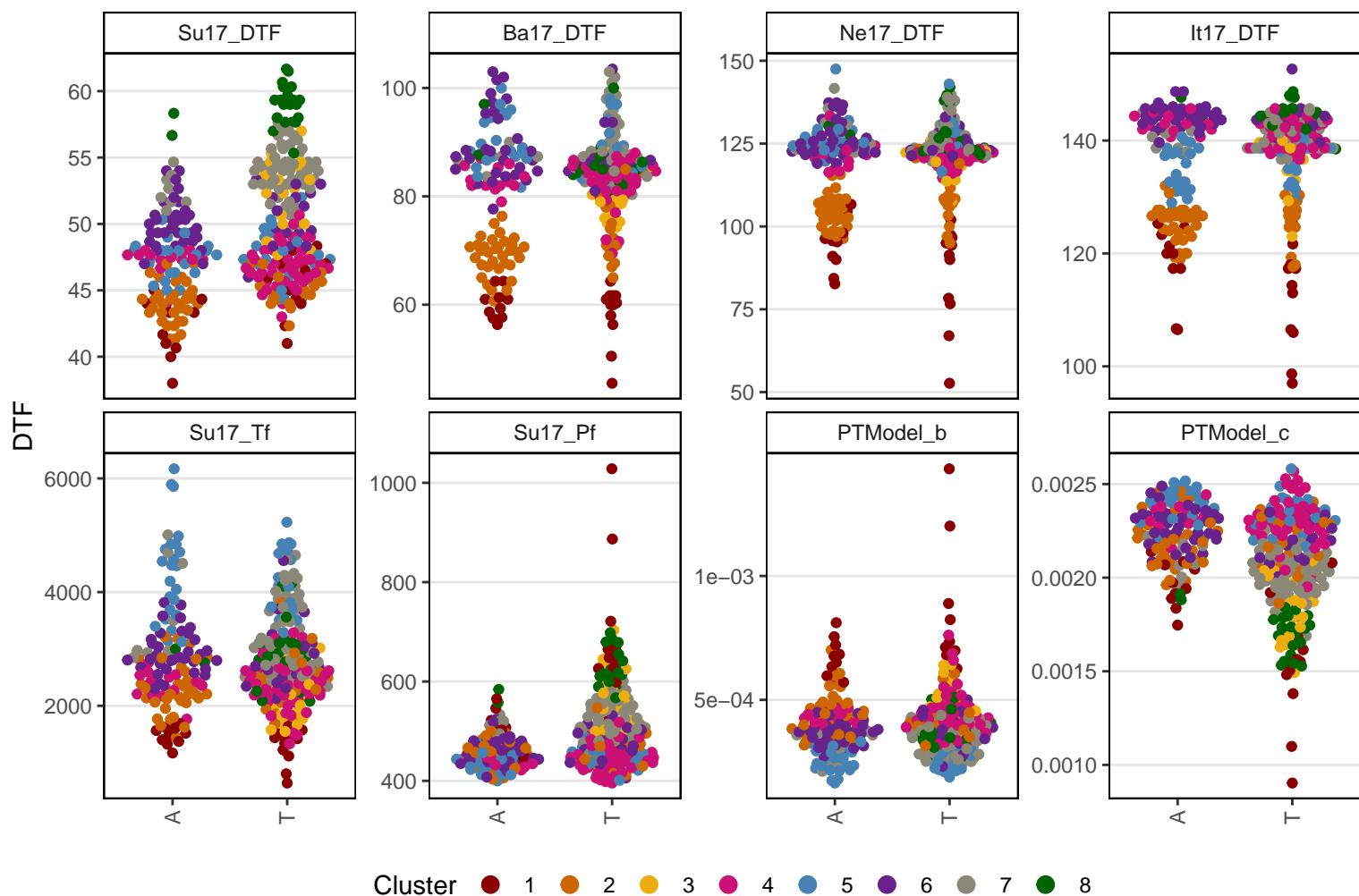


# Lcu.2RBY.Chr3p333150306



PRR response regulator  
2873374

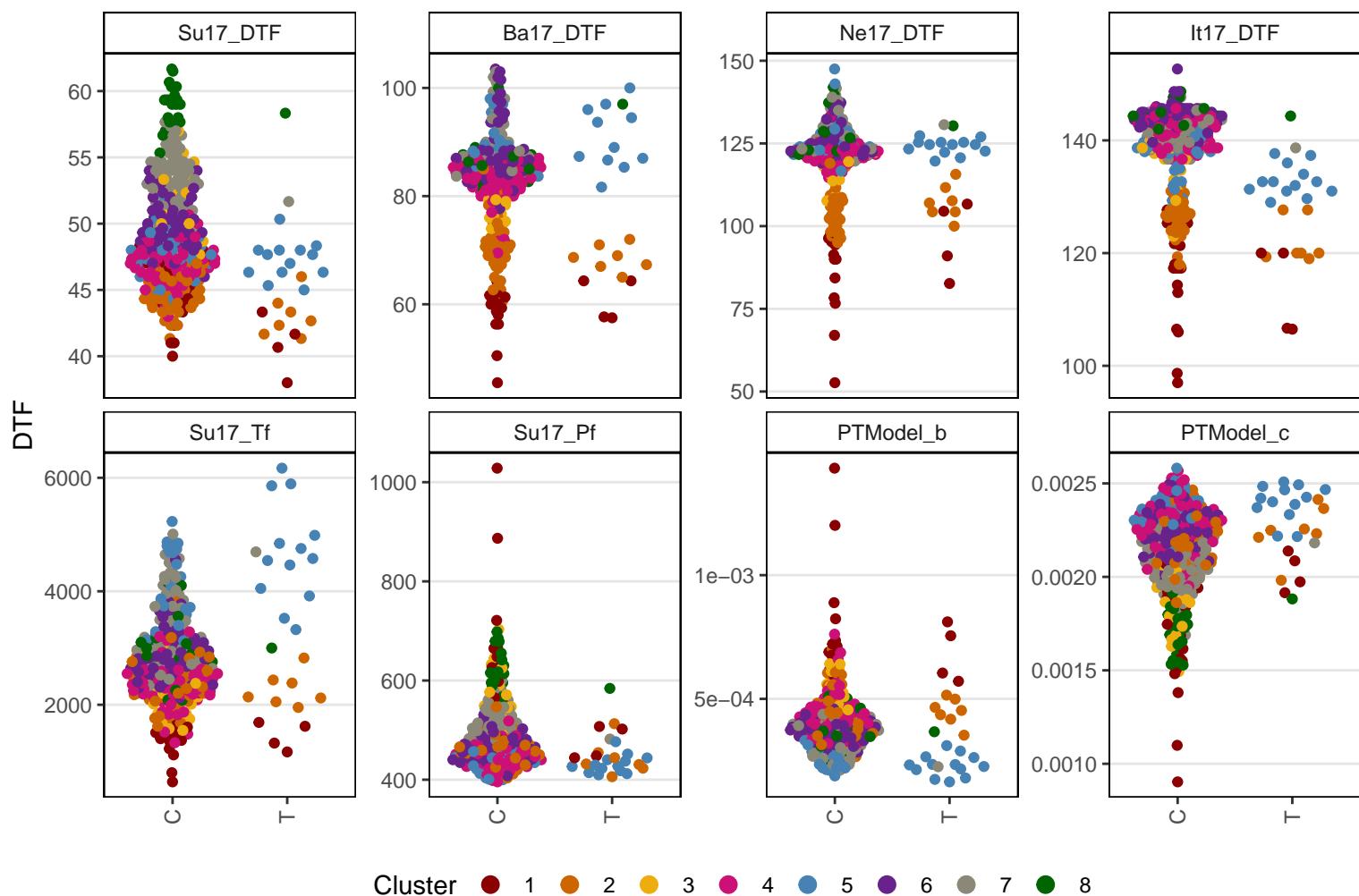
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Cluster ● 1 2 3 4 5 6 7 8

PRR response regulator  
664233

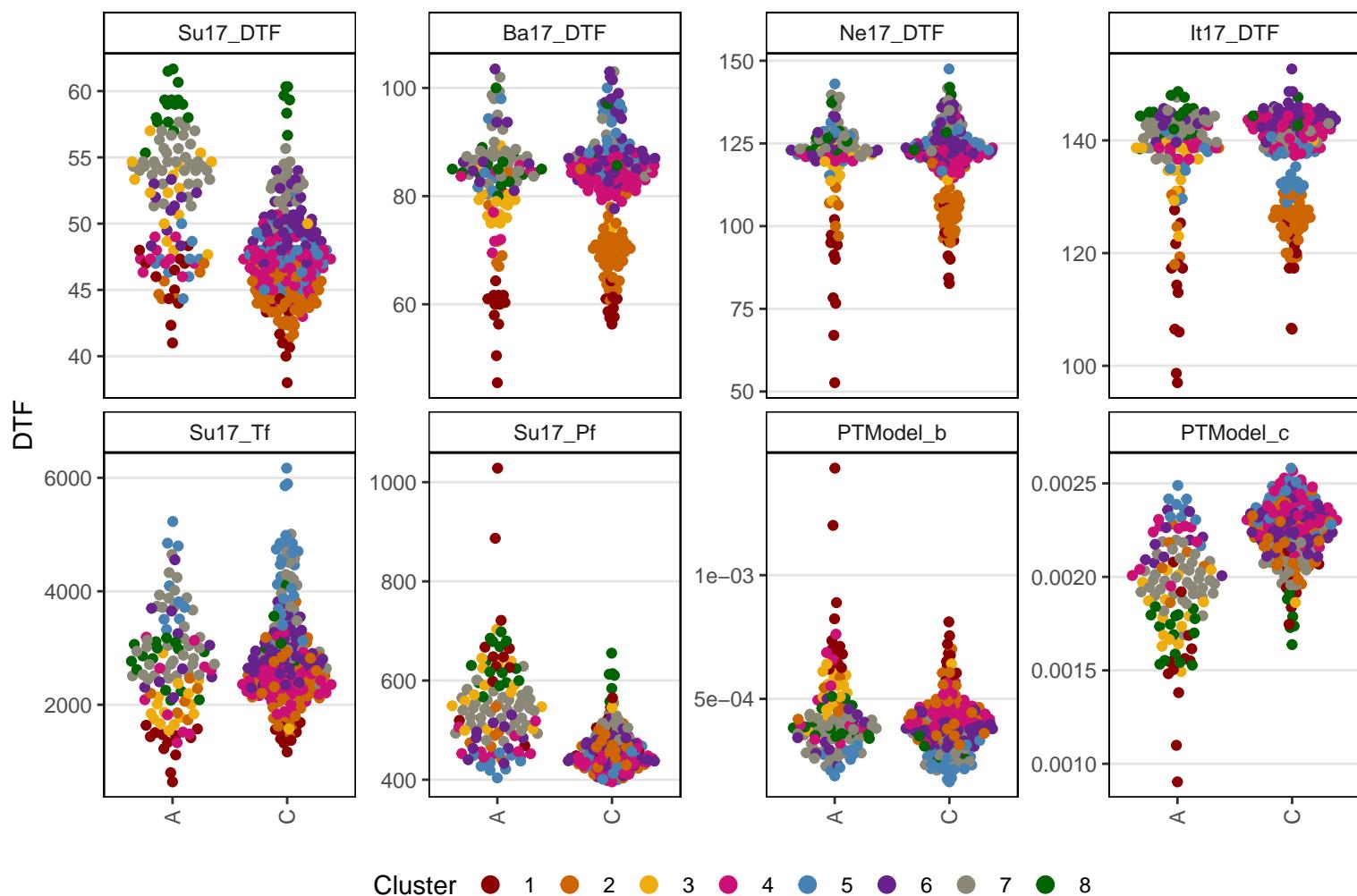
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Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

PRR response regulator  
902032

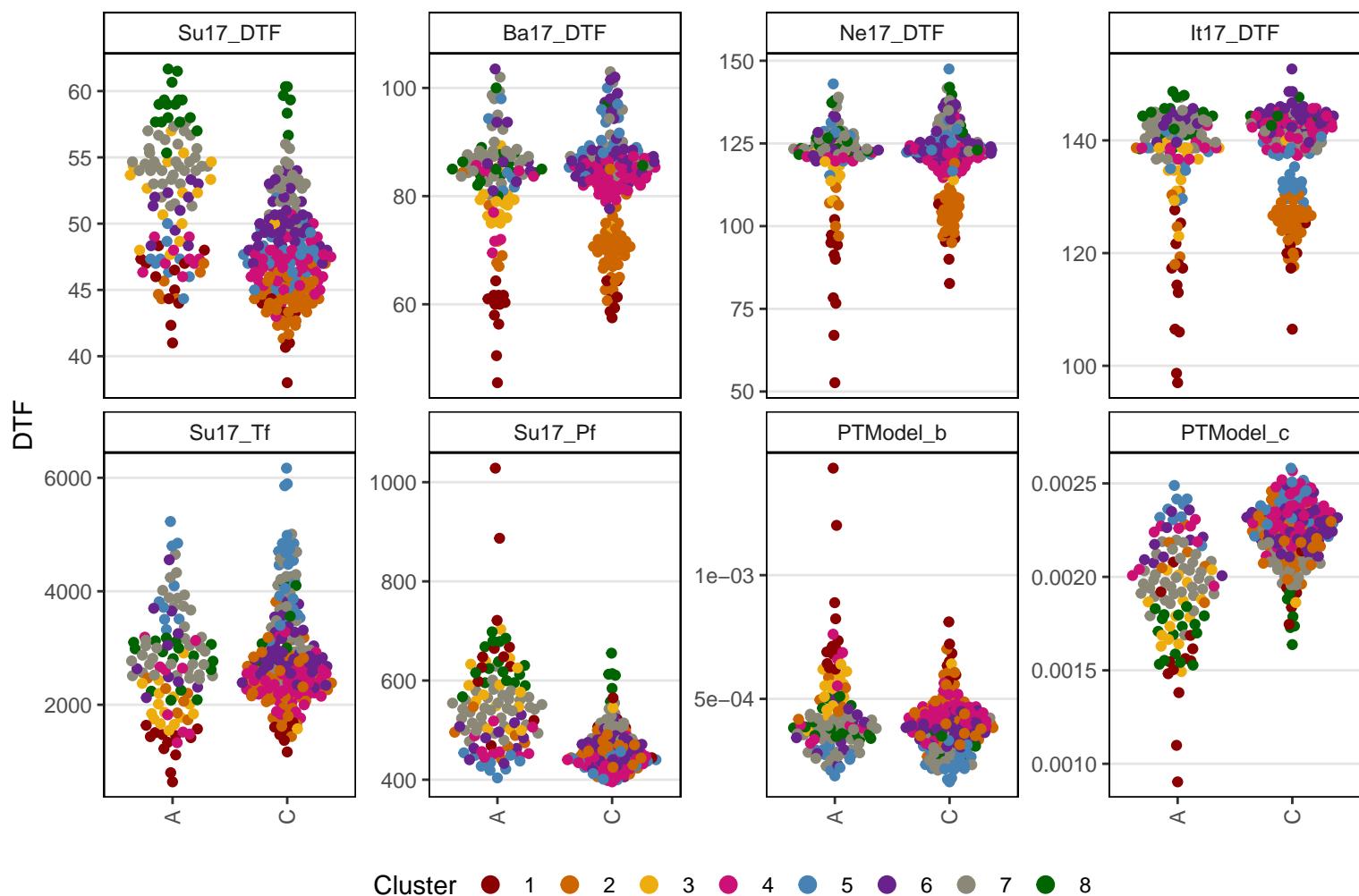
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Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

PRR response regulator  
1804077

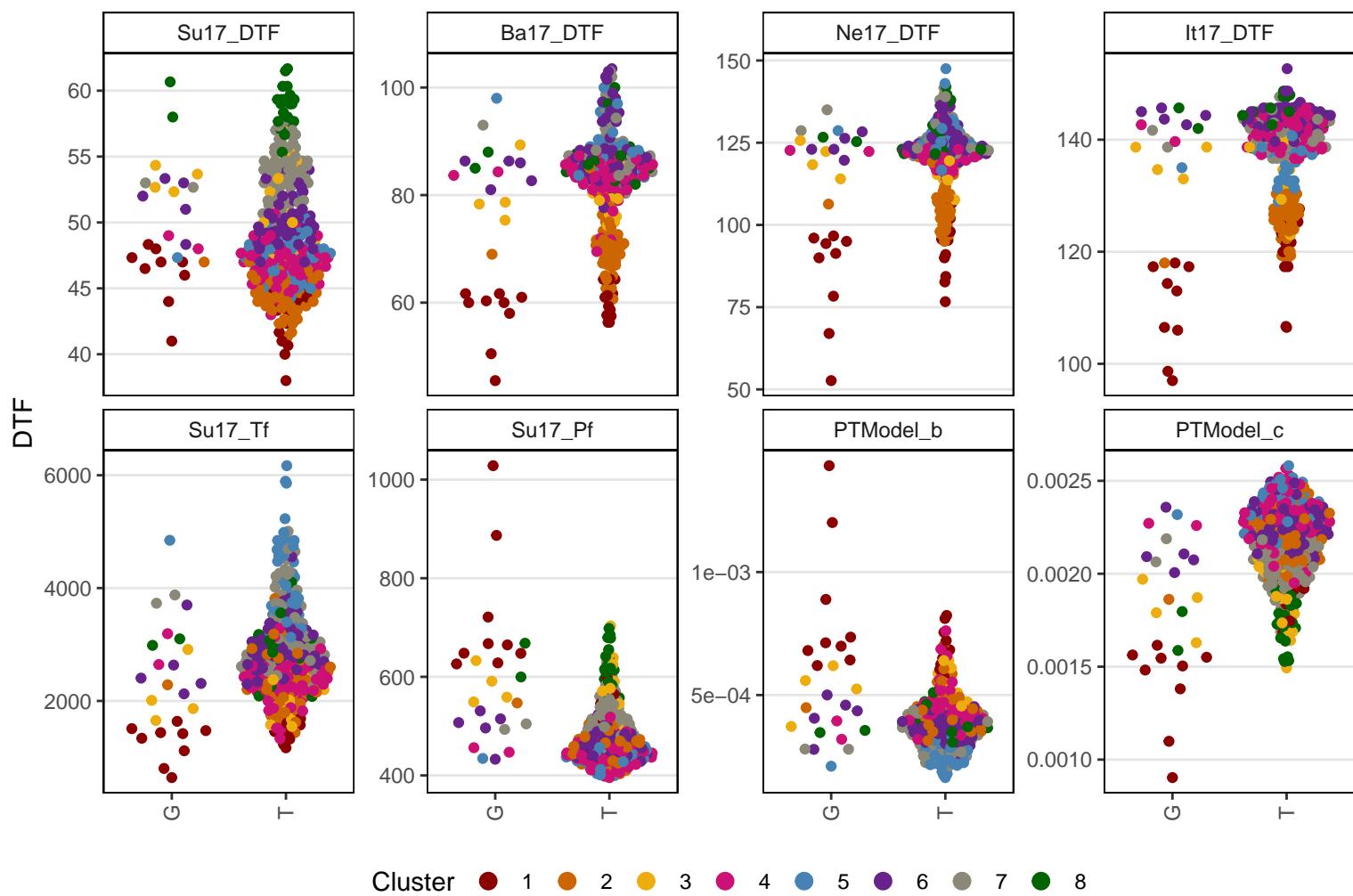
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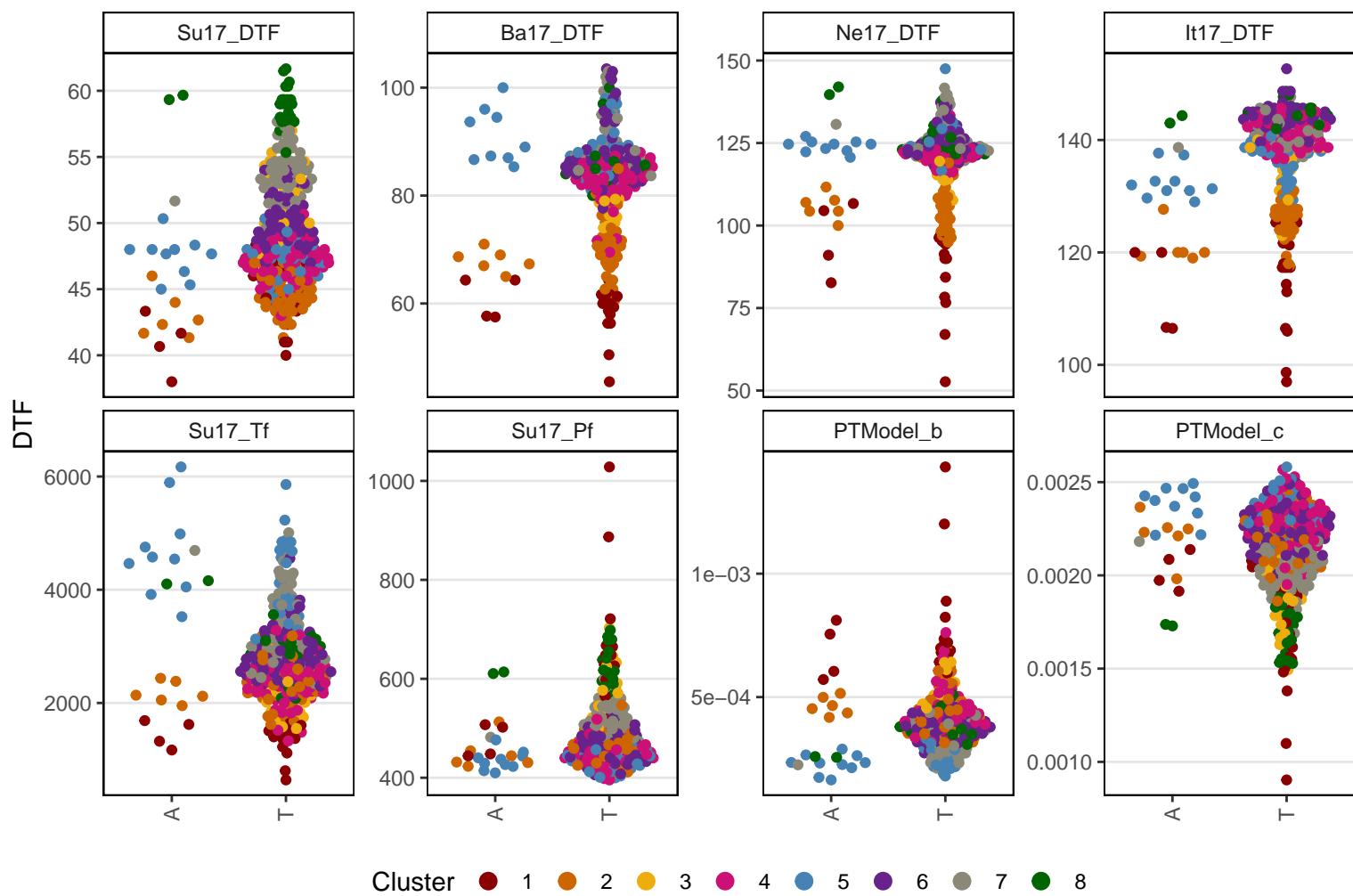
Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

PRR response regulator  
1916460

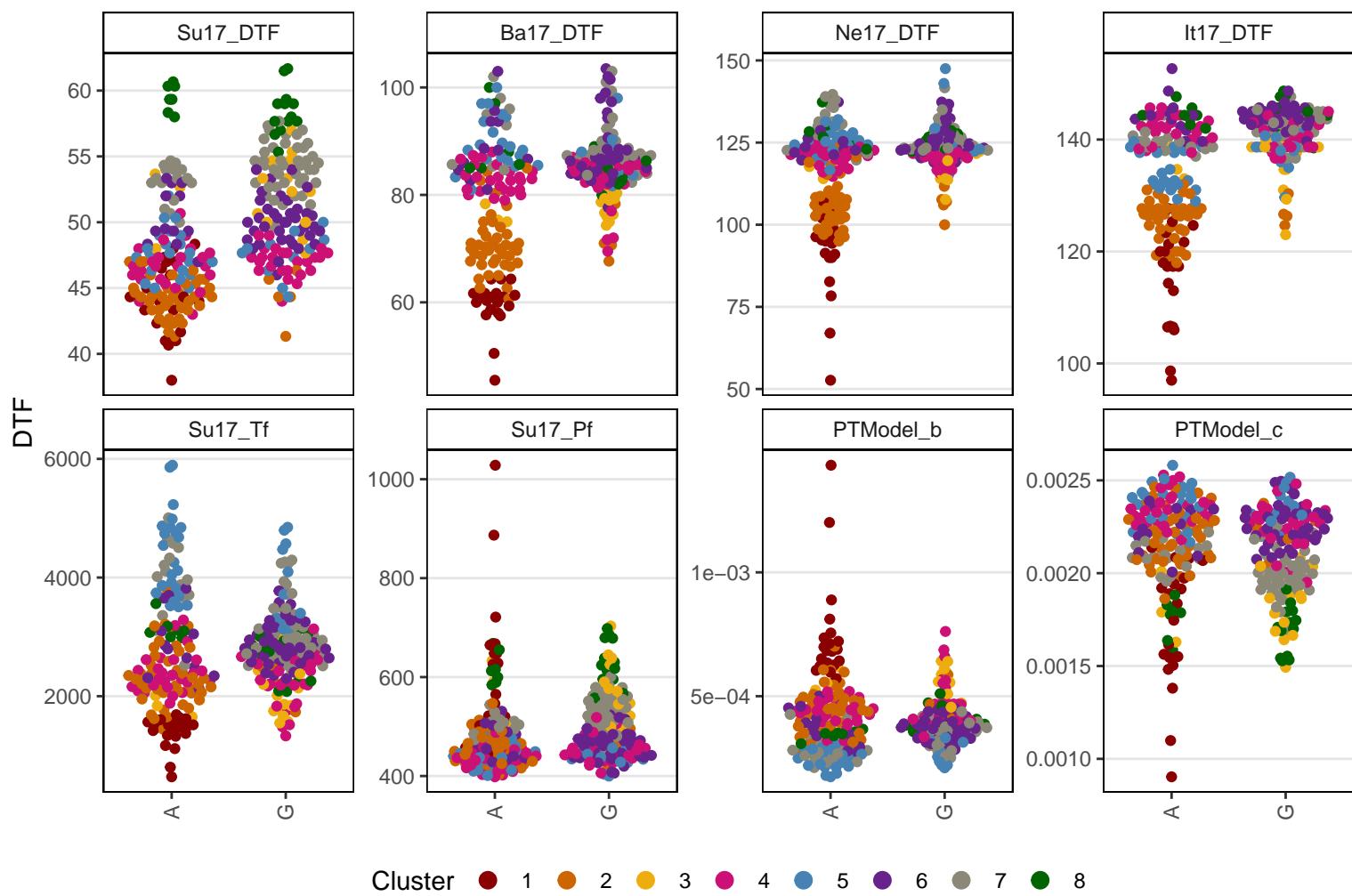
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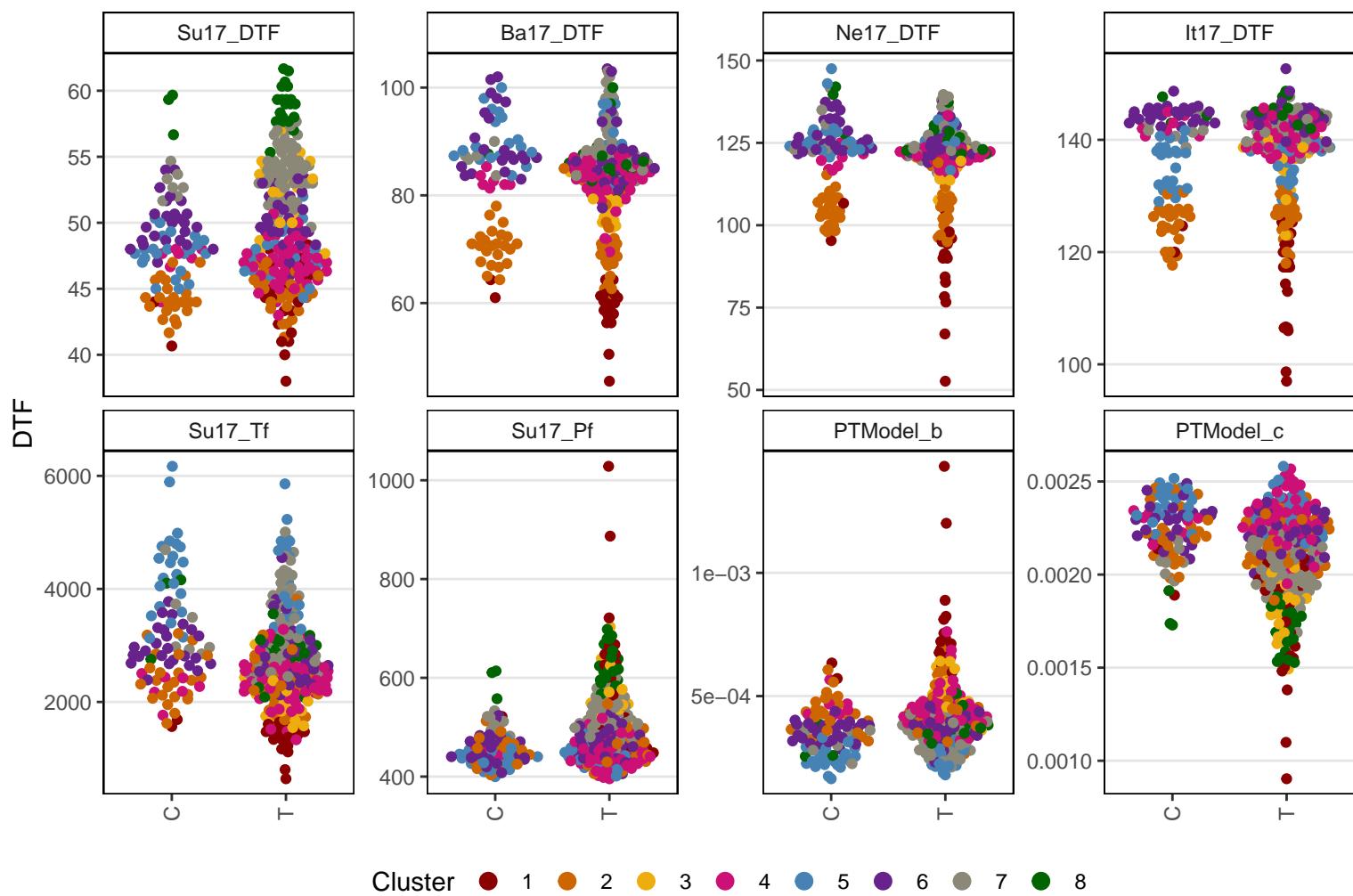
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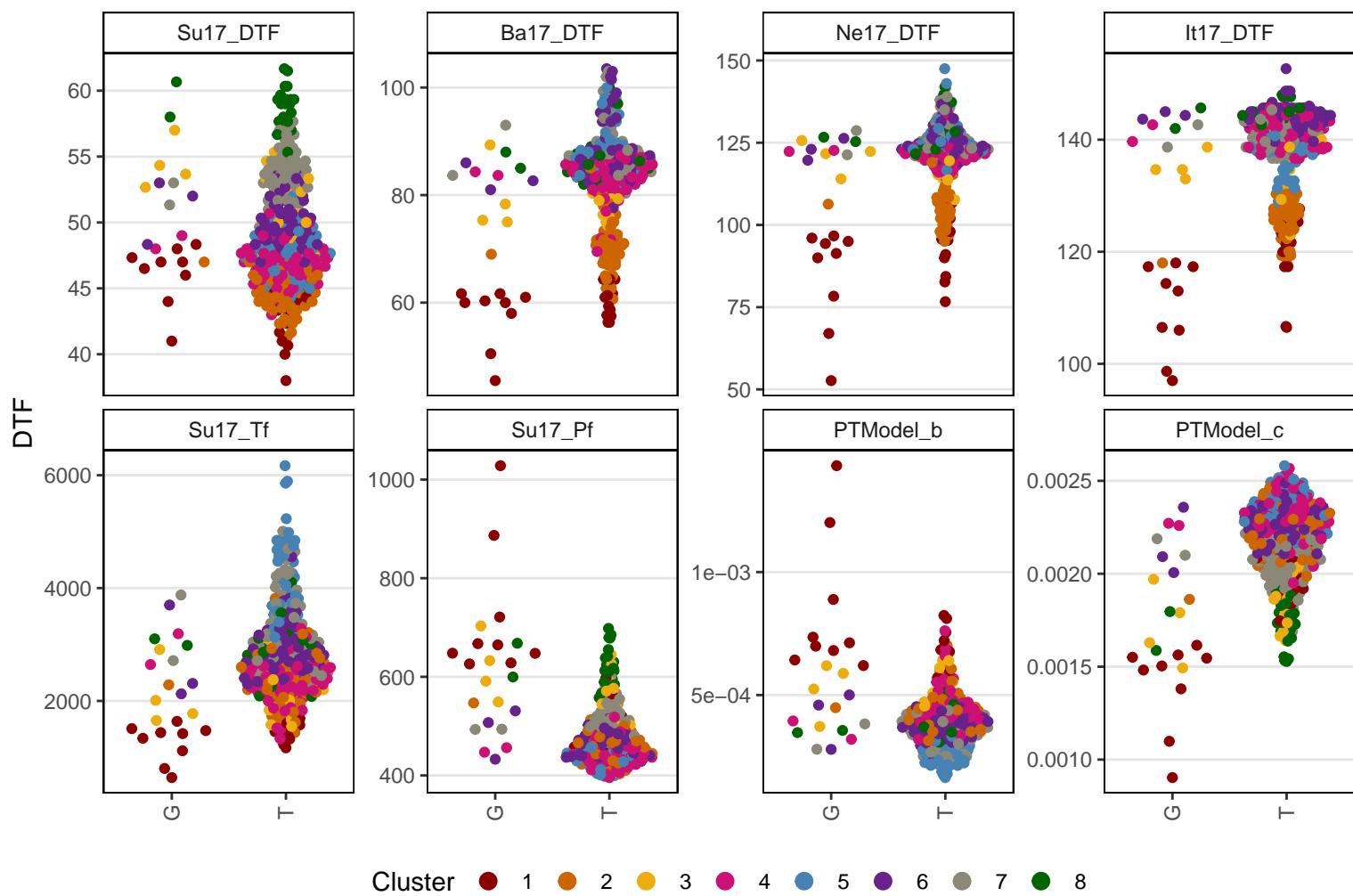
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# Lcu.2RBY.Chr3p342294250

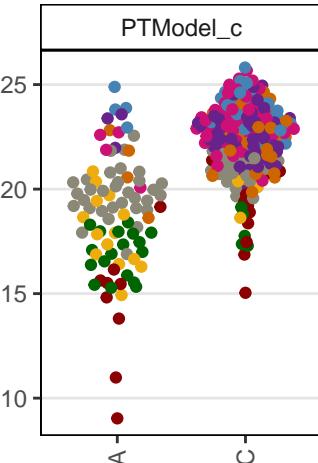
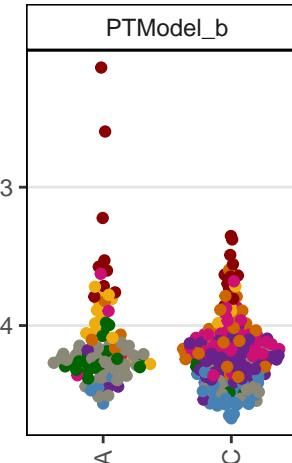
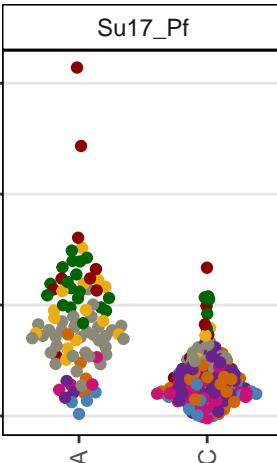
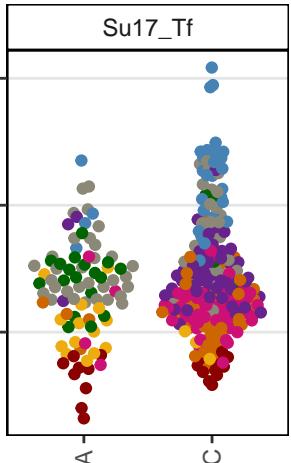
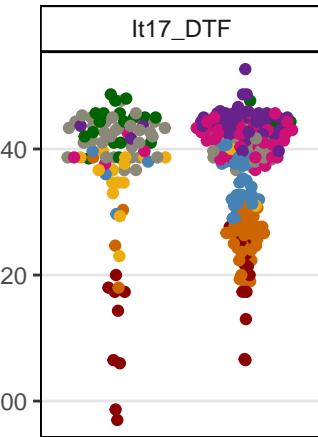
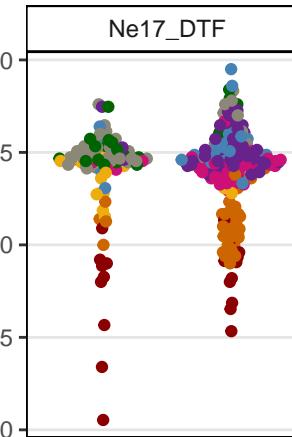
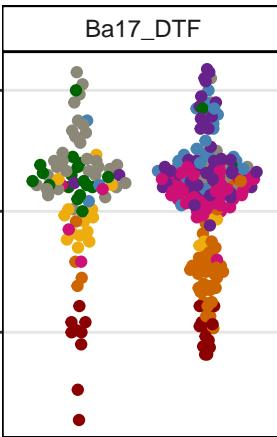
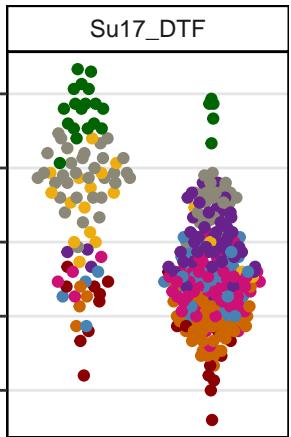


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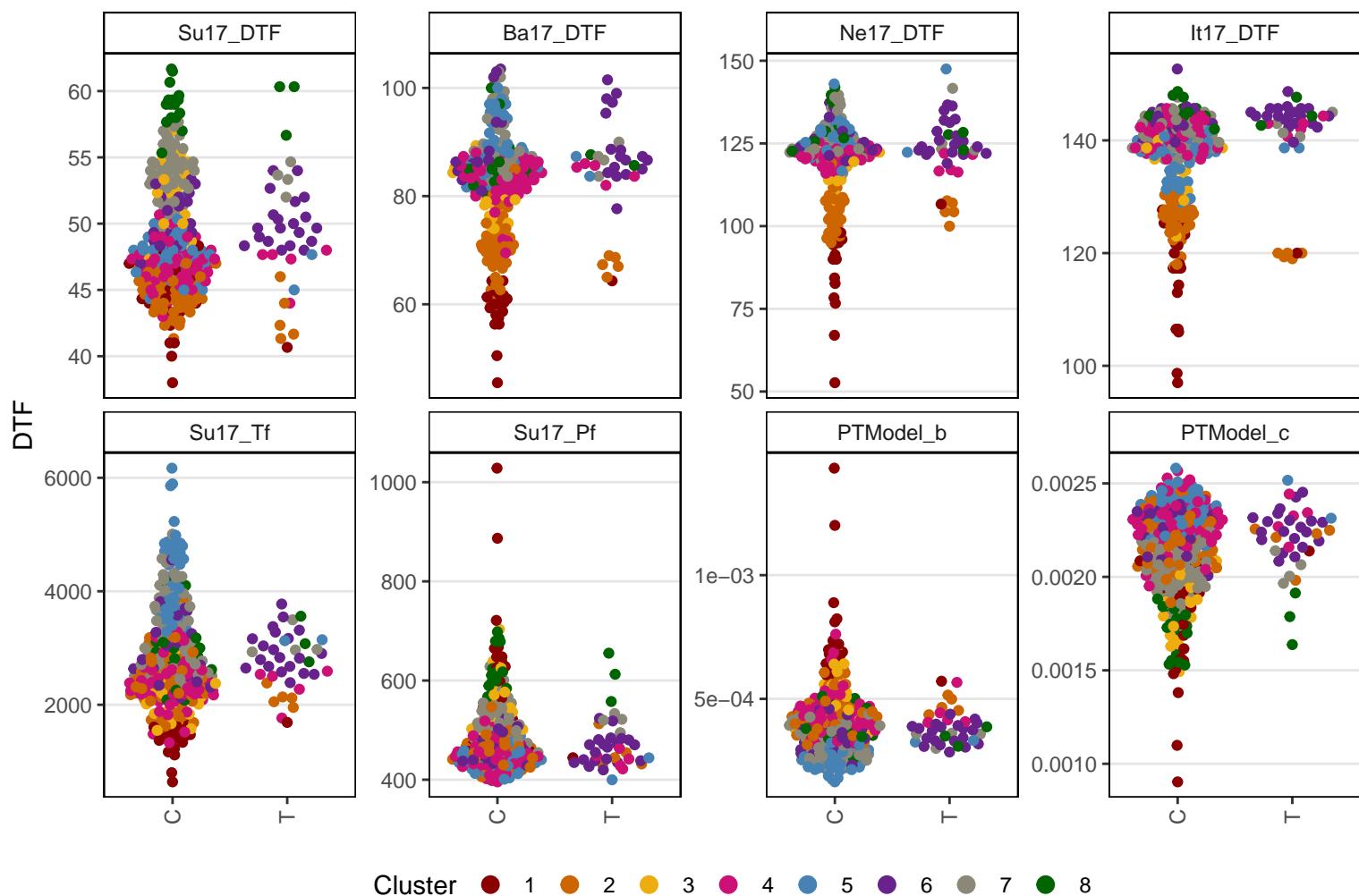
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DTF

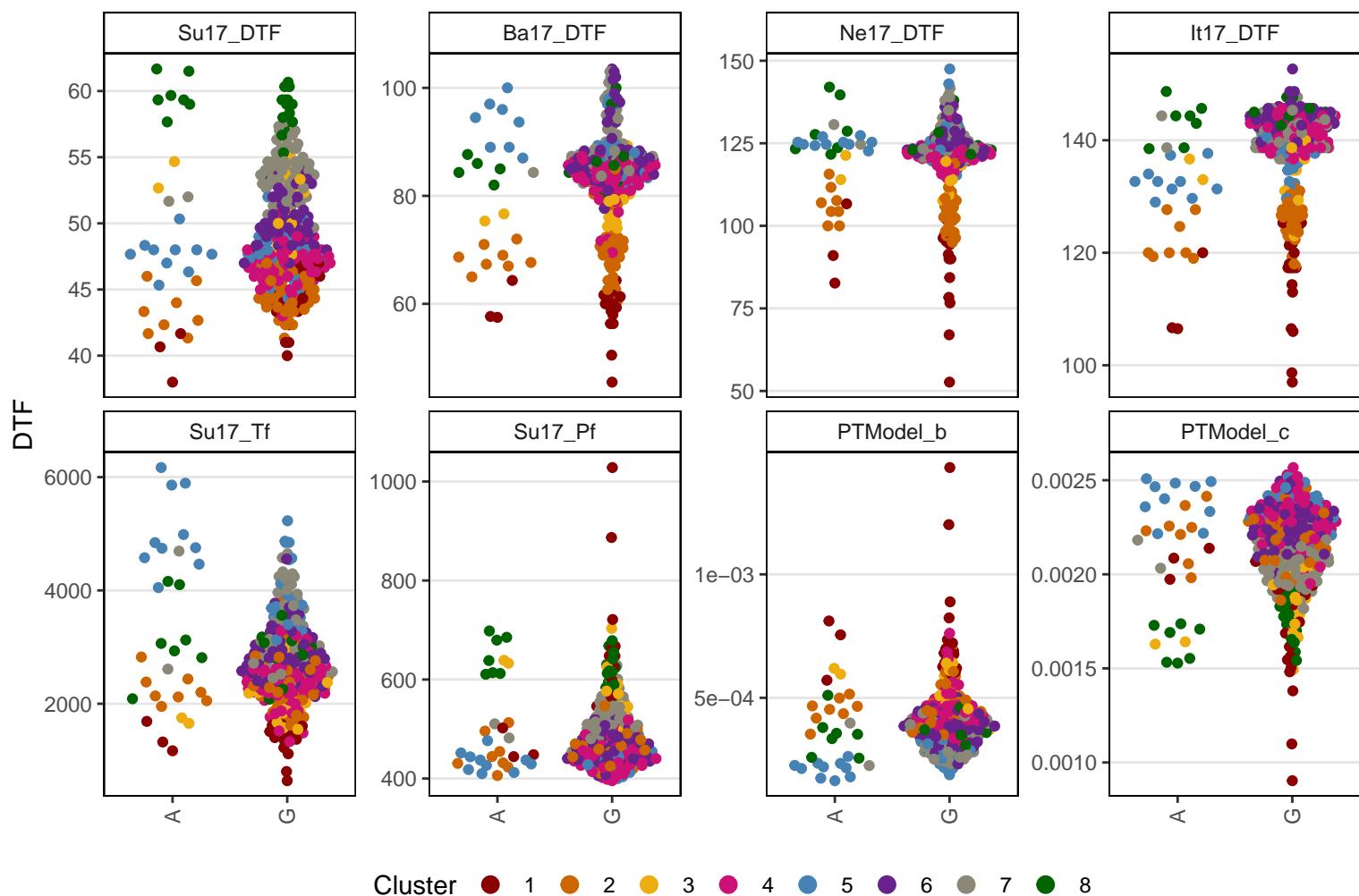


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

# Lcu.2RBY.Chr3p347132456

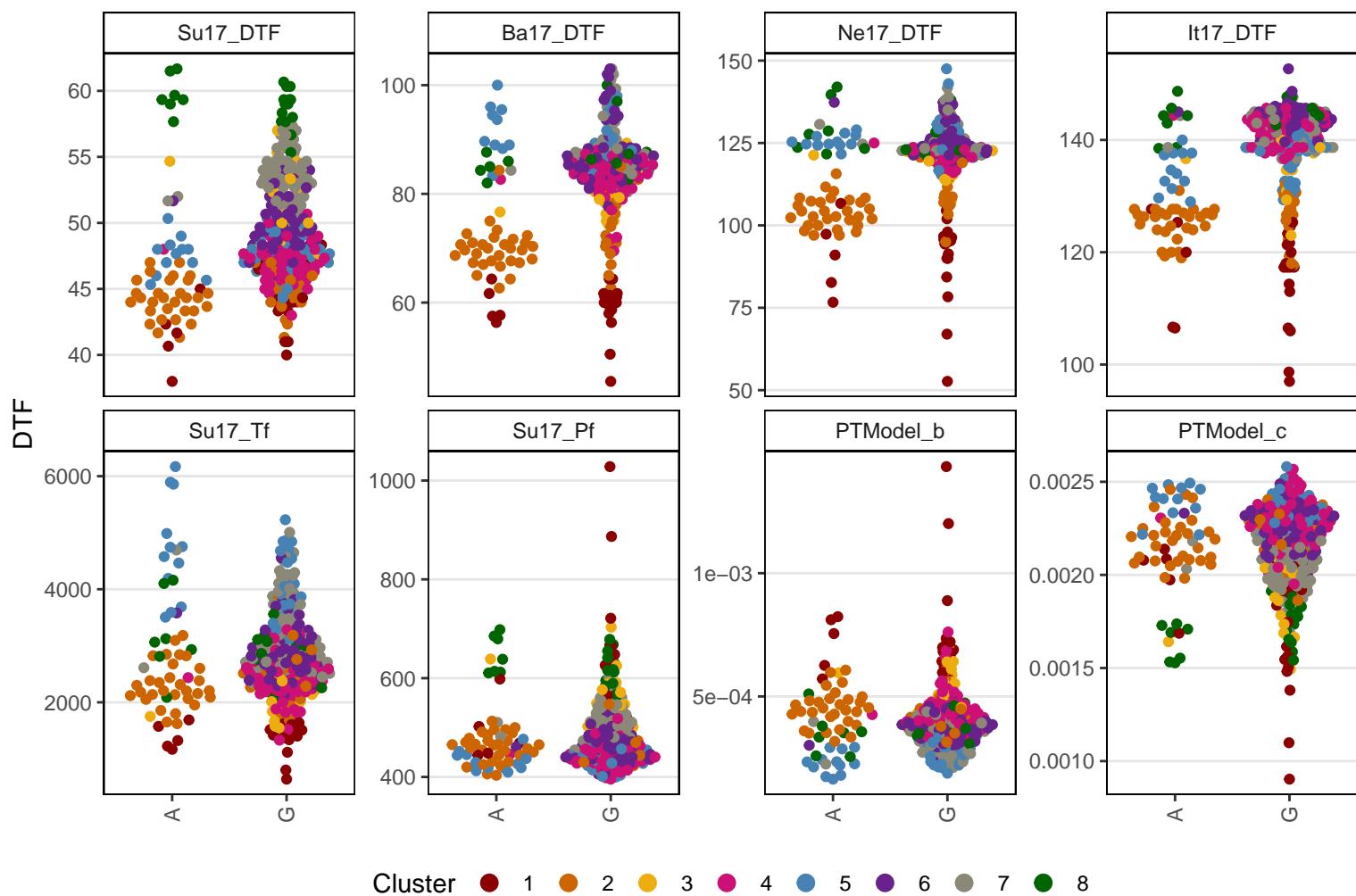


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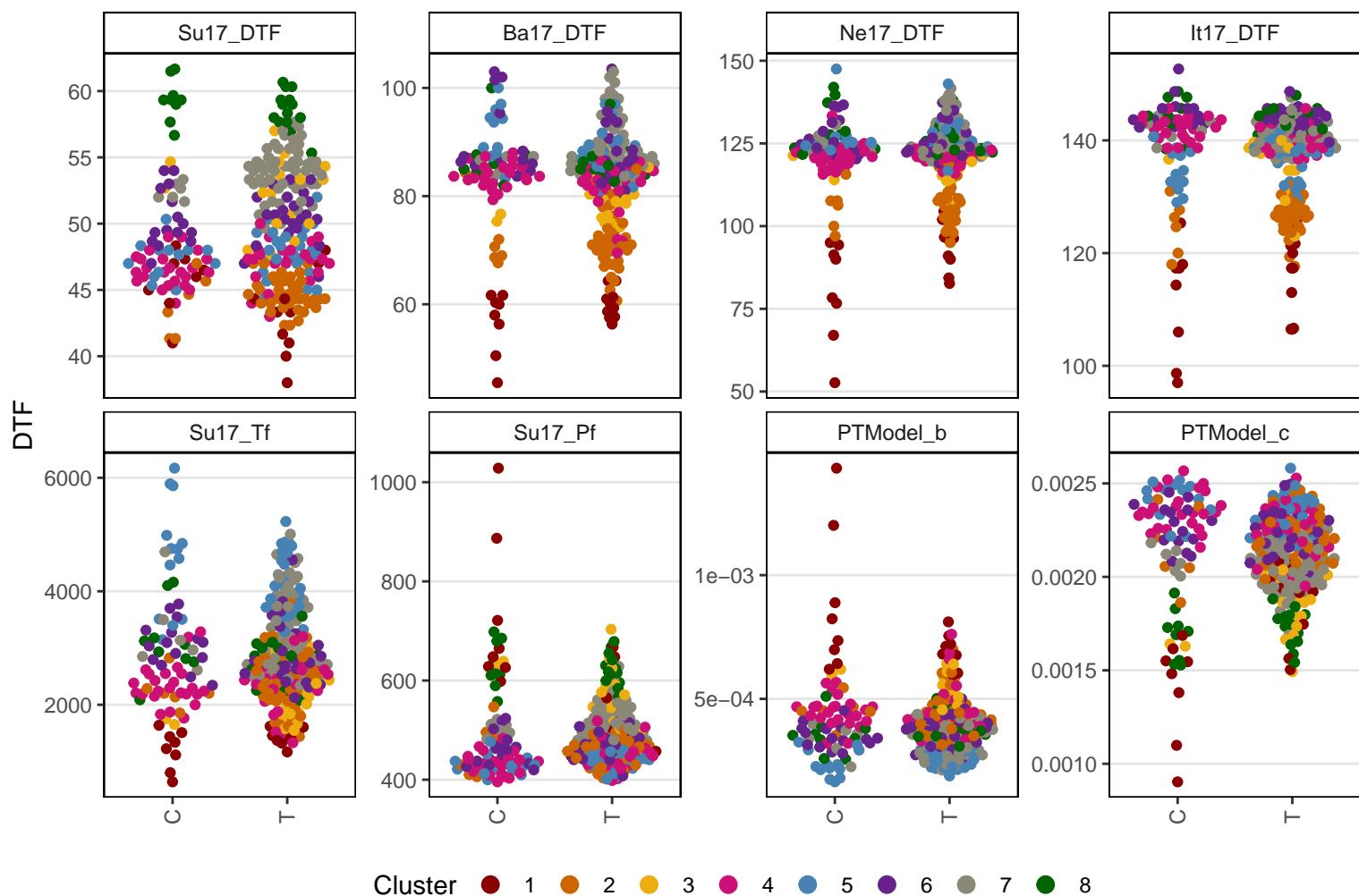
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# Lcu.2RBY.Chr3p348918429

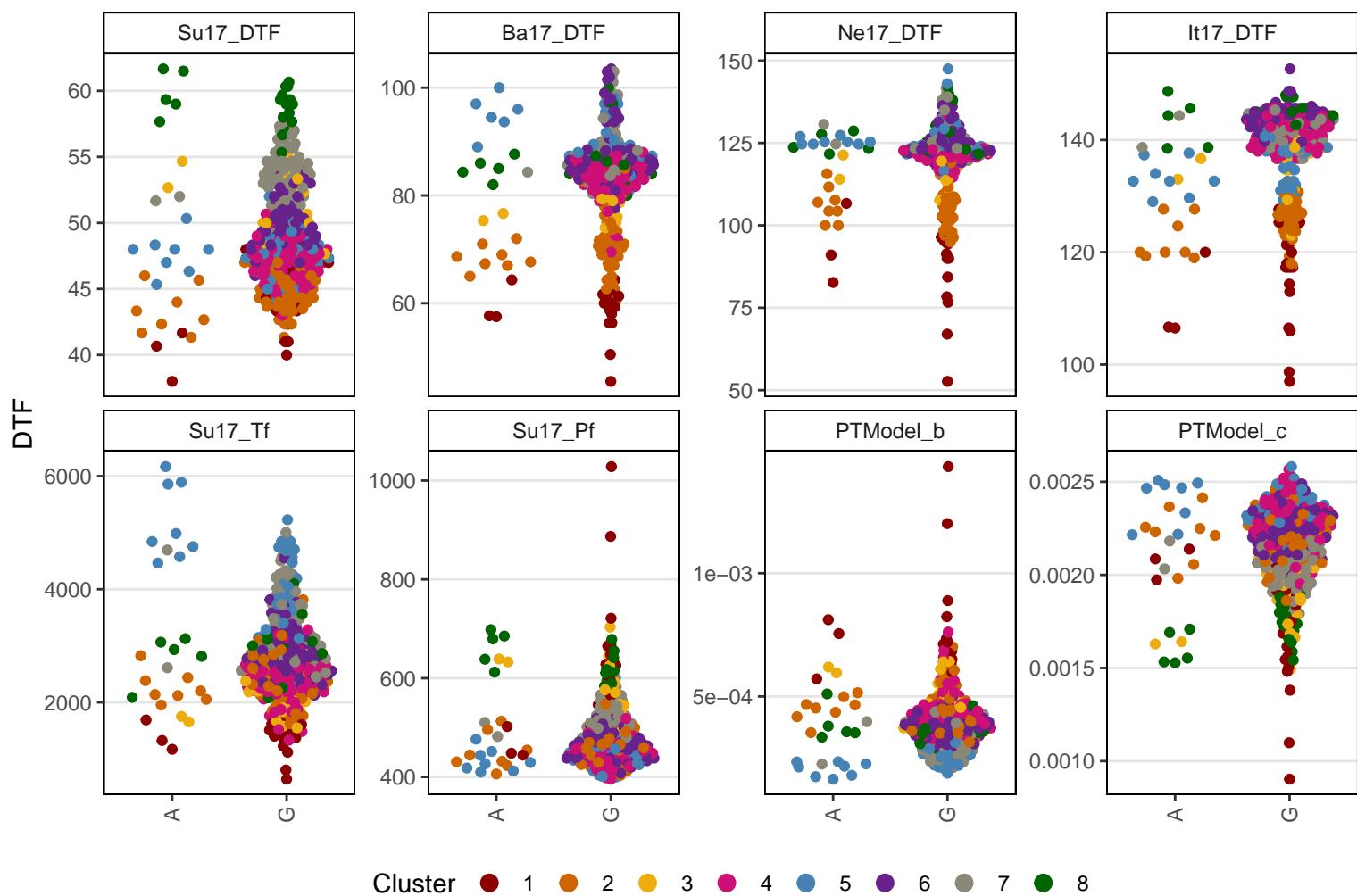


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

# Lcu.2RBY.Chr3p349161206

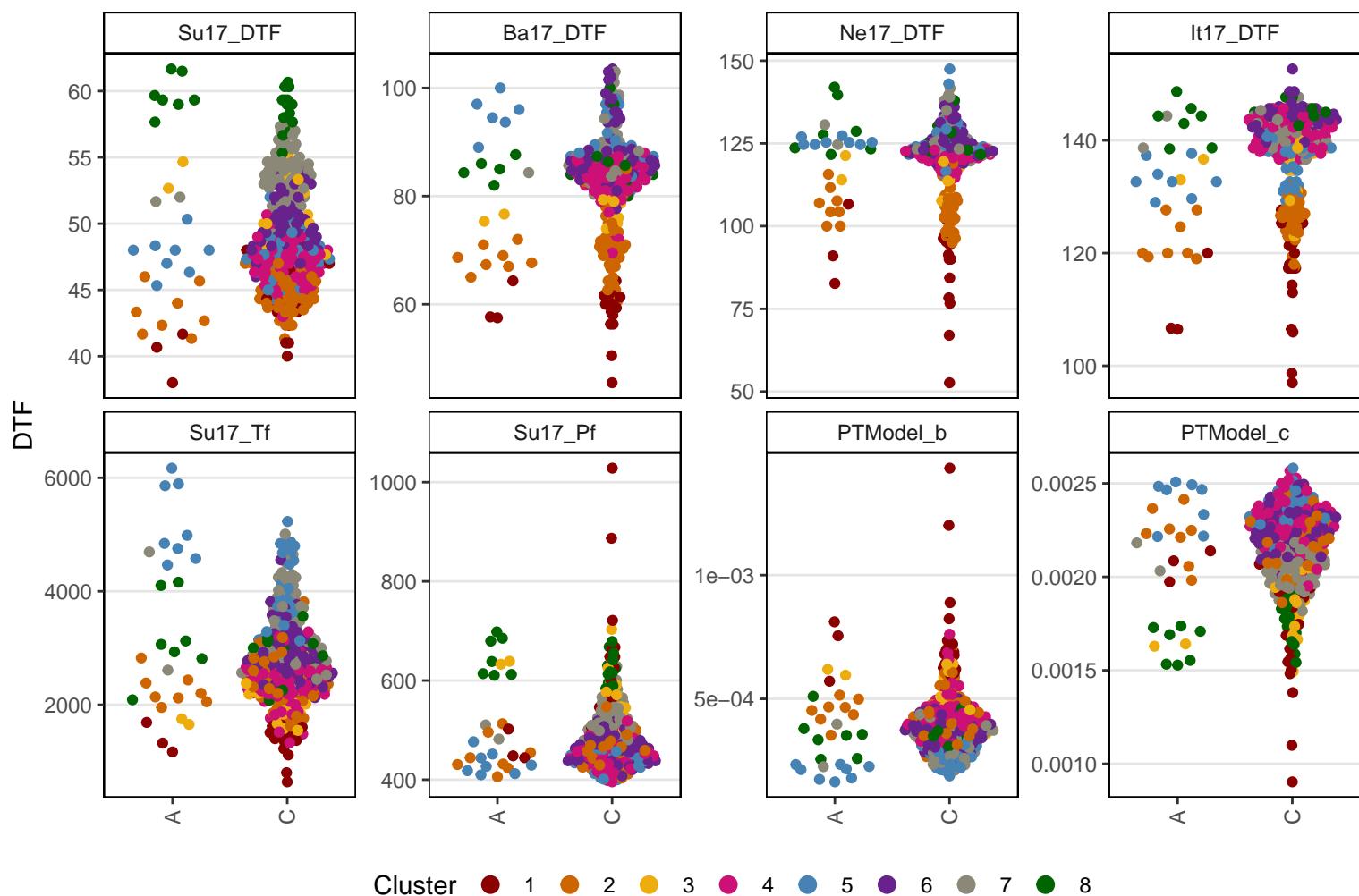


# Lcu.2RBY.Chr3p349773578



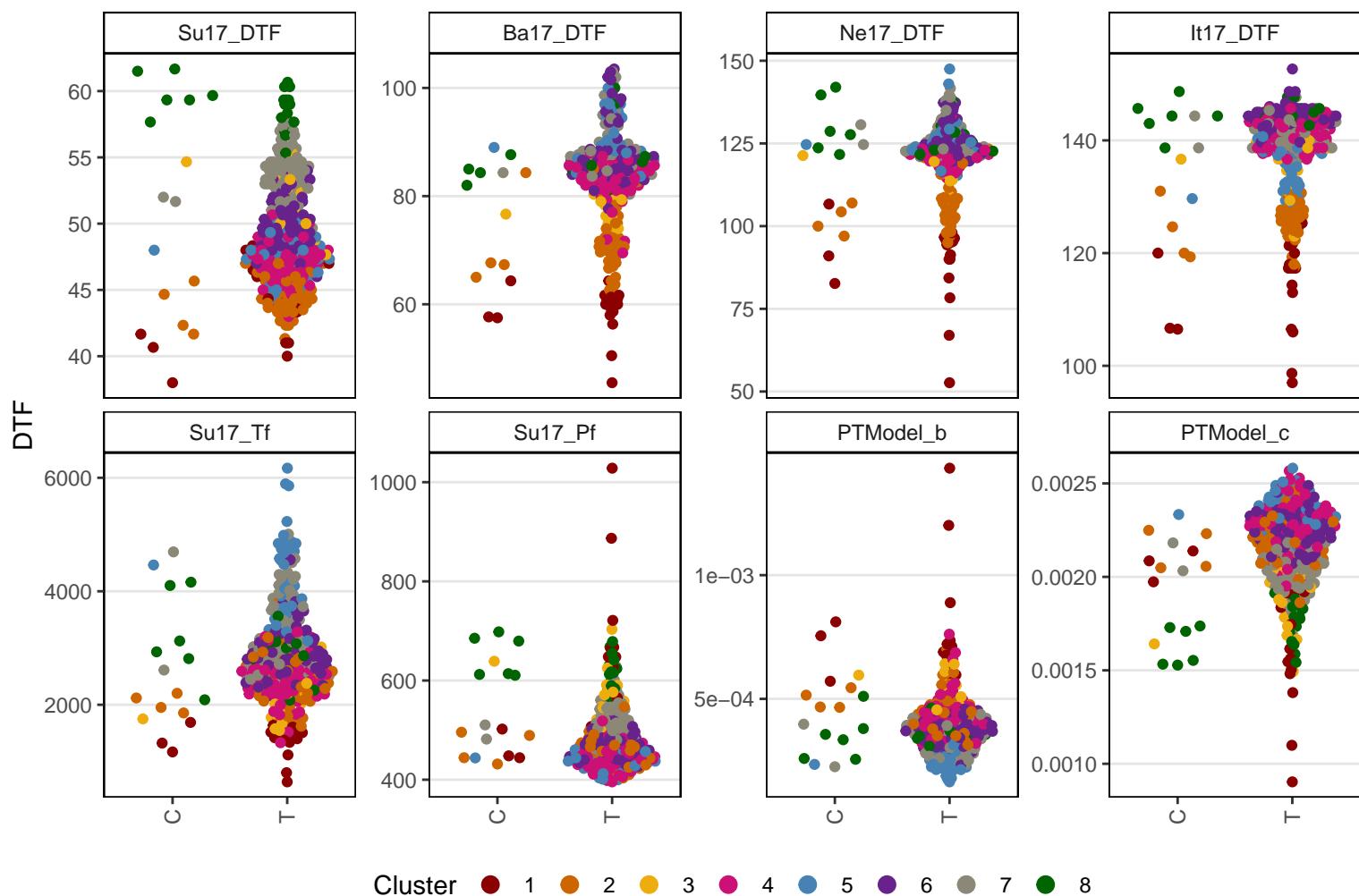
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# Lcu.2RBY.Chr3p353839986



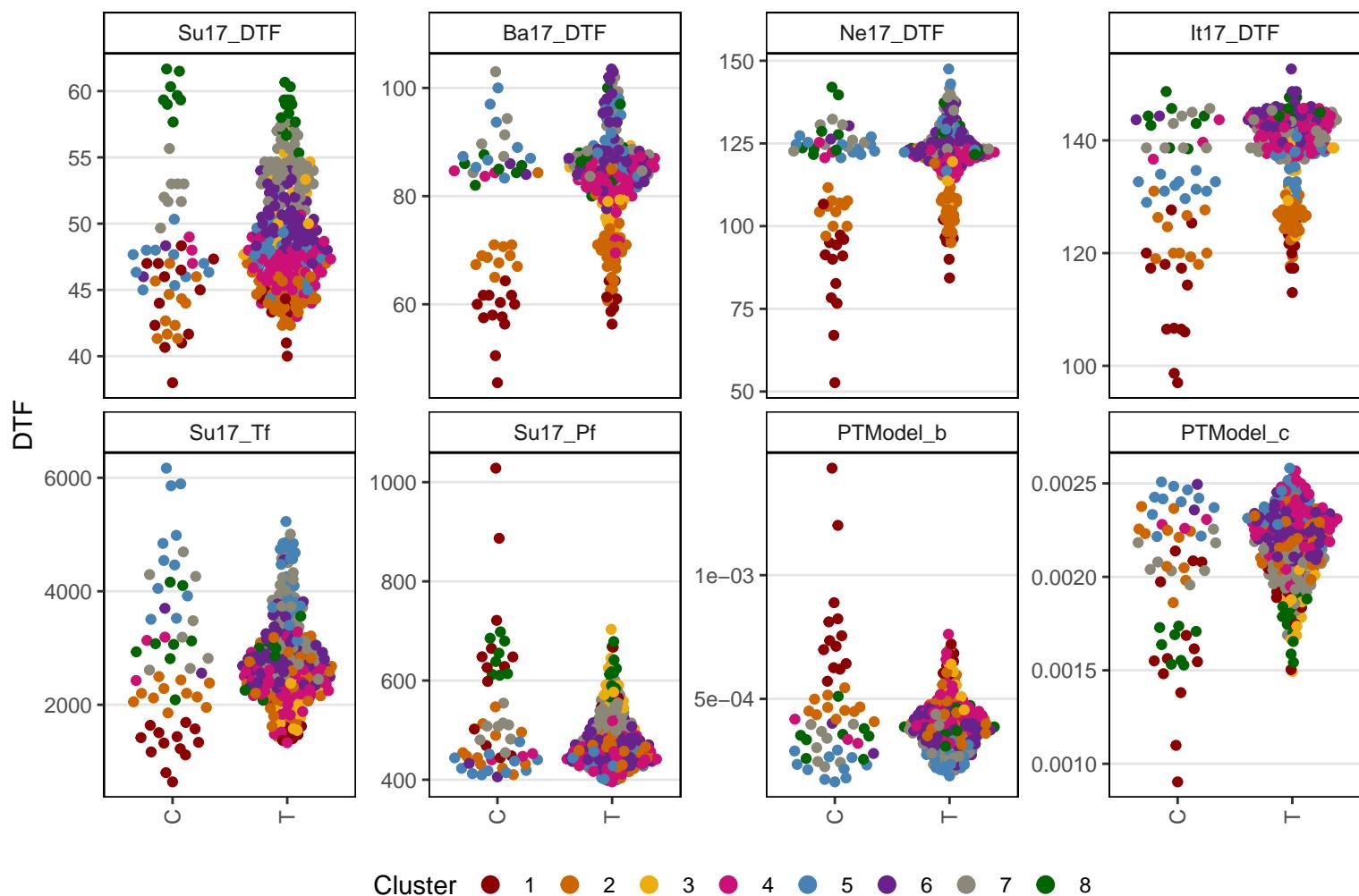
Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

# Lcu.2RBY.Chr3p356512683



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

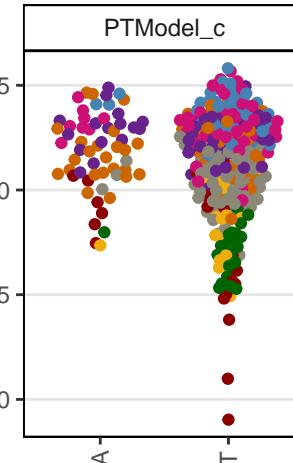
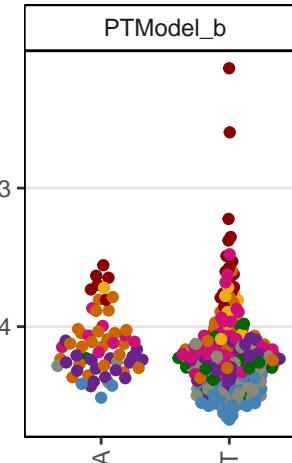
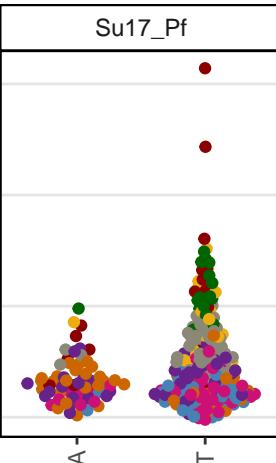
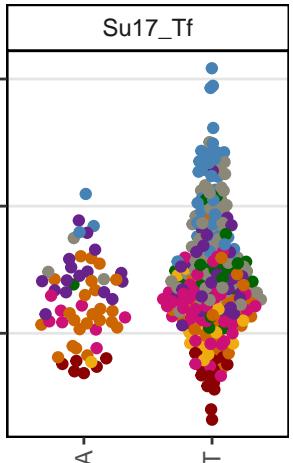
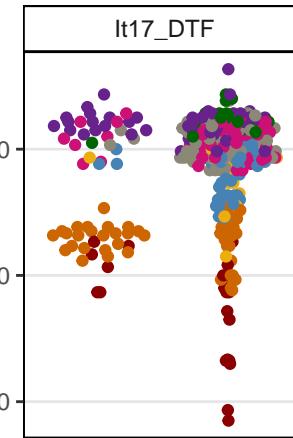
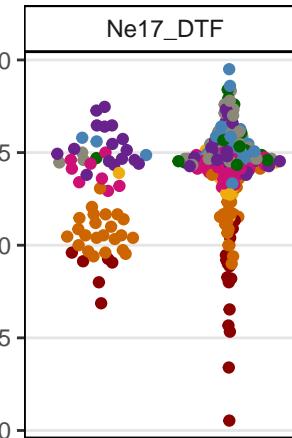
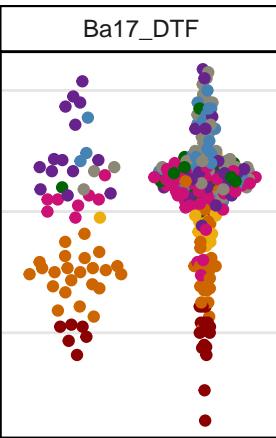
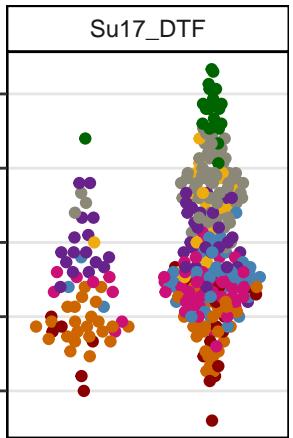
# Lcu.2RBY.Chr3p358708262



LcLFY ; LcFRI ; LcSPL13a  
1357869 ; 2199254 ; 2864155

# Lcu.2RBY.Chr3p360610463

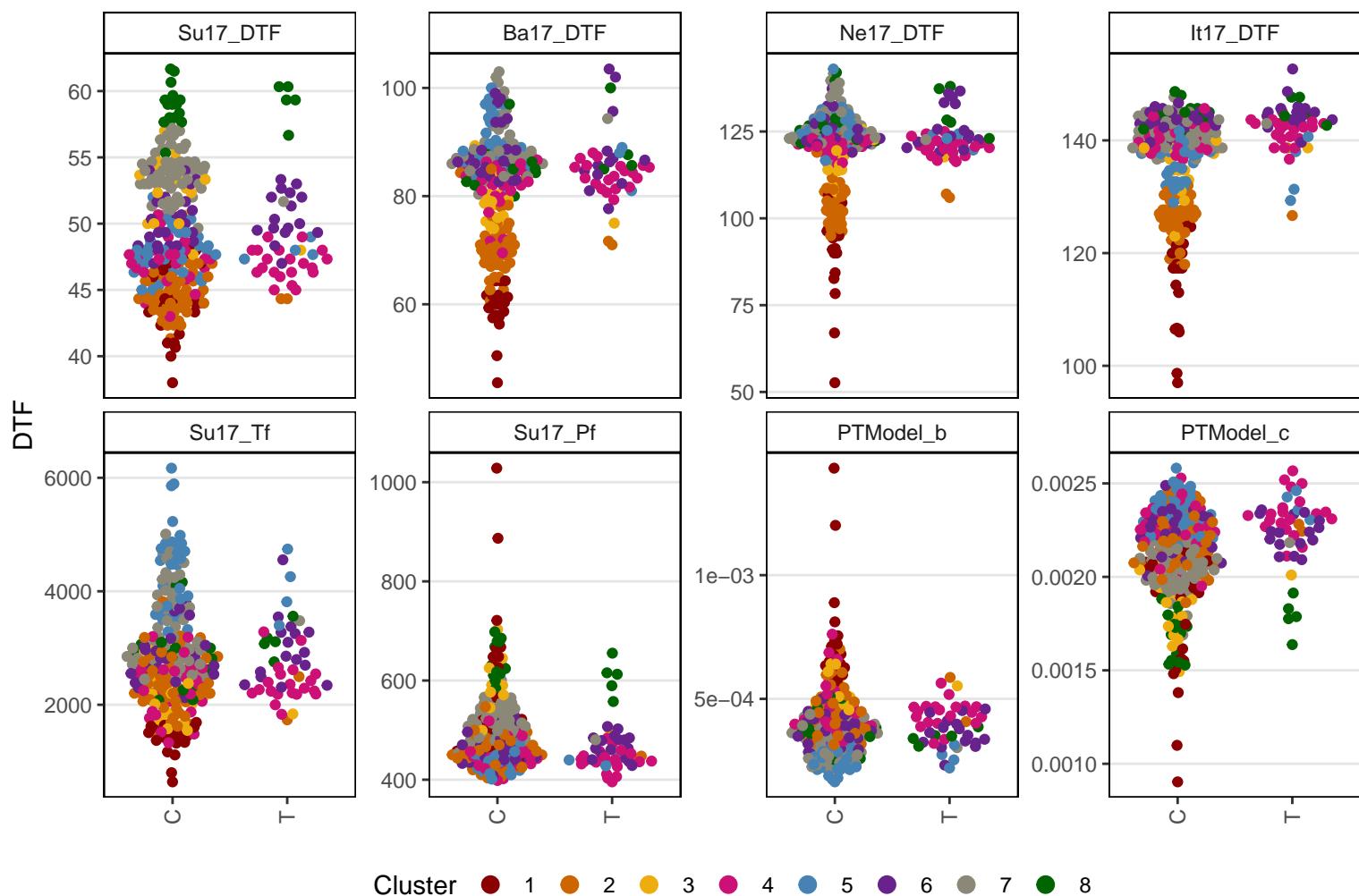
DTF



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

LcSPL13a ; Uncharacterized protein (1)  
961954 ; 1244267

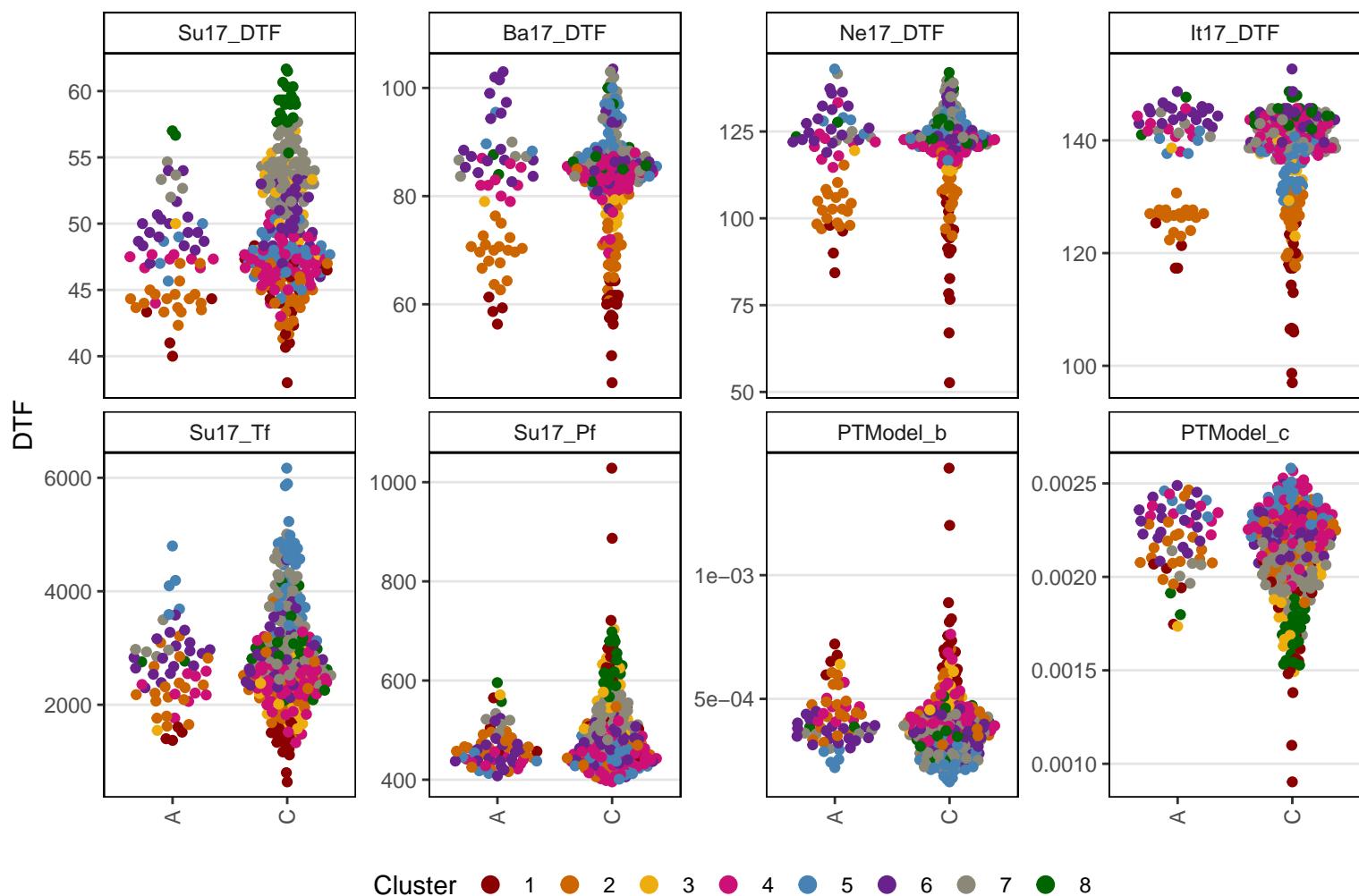
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Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

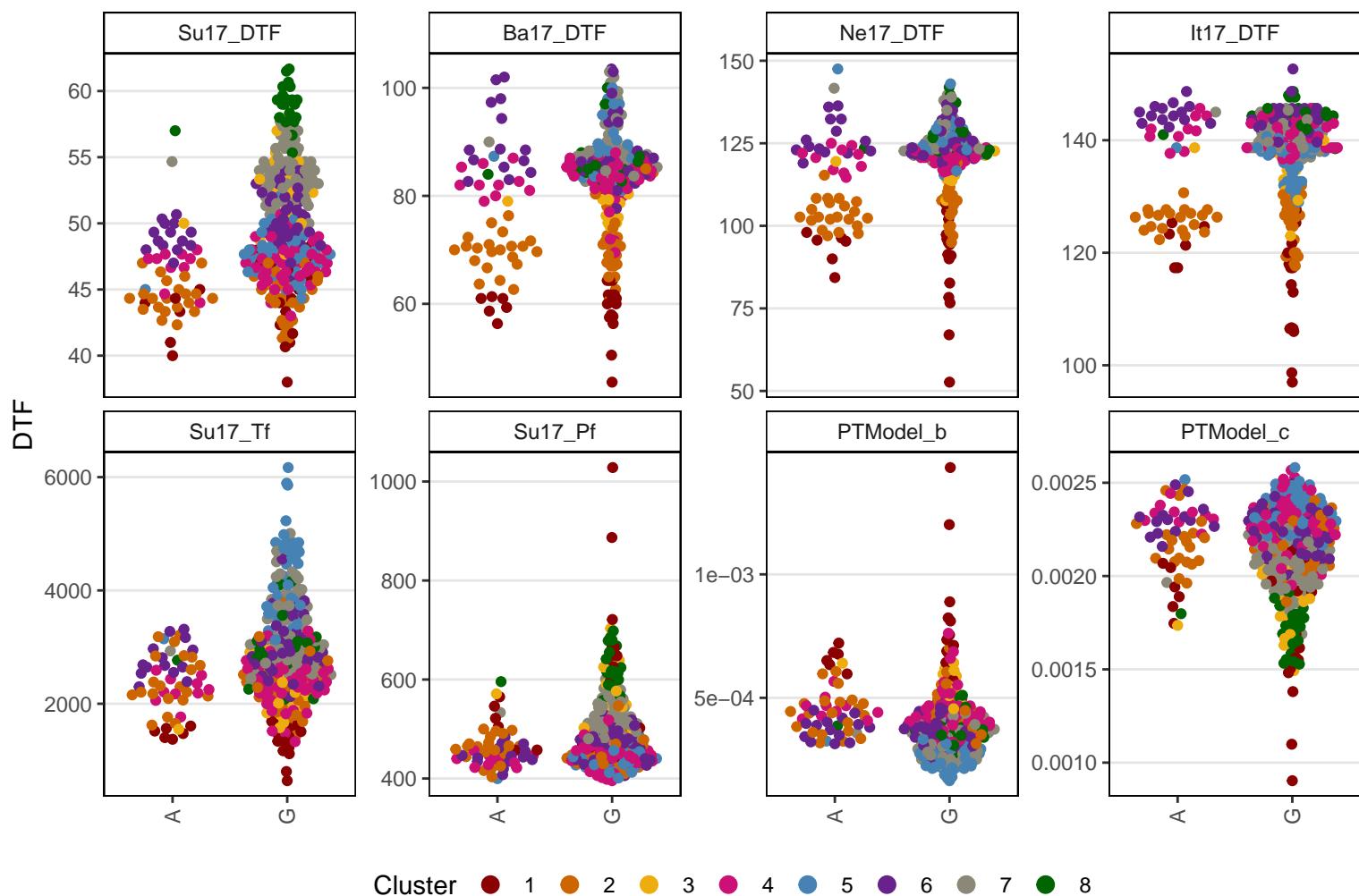
Uncharacterized protein (1) ; LcSPL13a  
99038 ; 183275

# Lcu.2RBY.Chr3p364362549

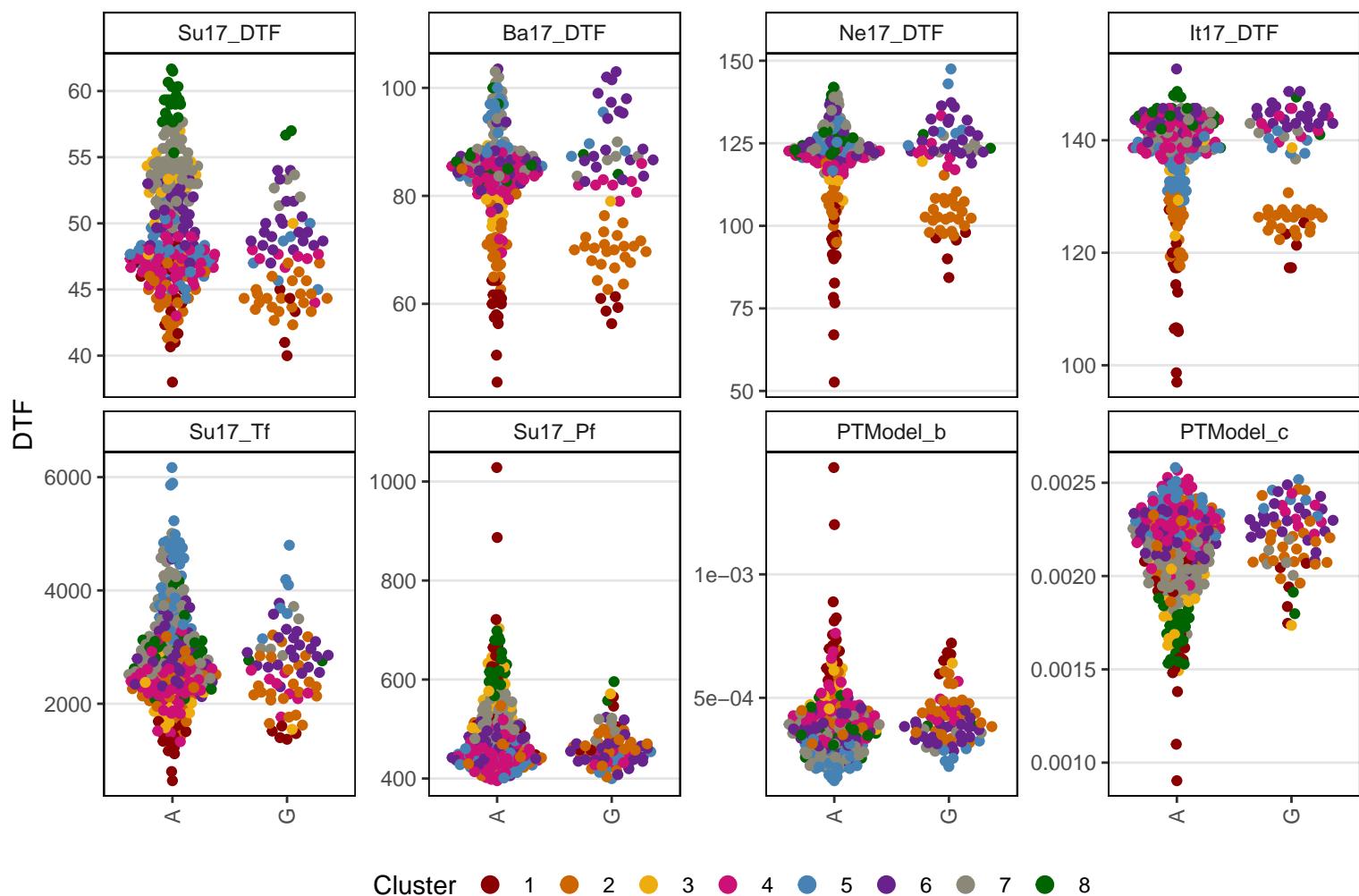


Uncharacterized protein (1) ; LcSPL13a  
2507819 ; 2790132

# Lcu.2RBY.Chr3p366788981



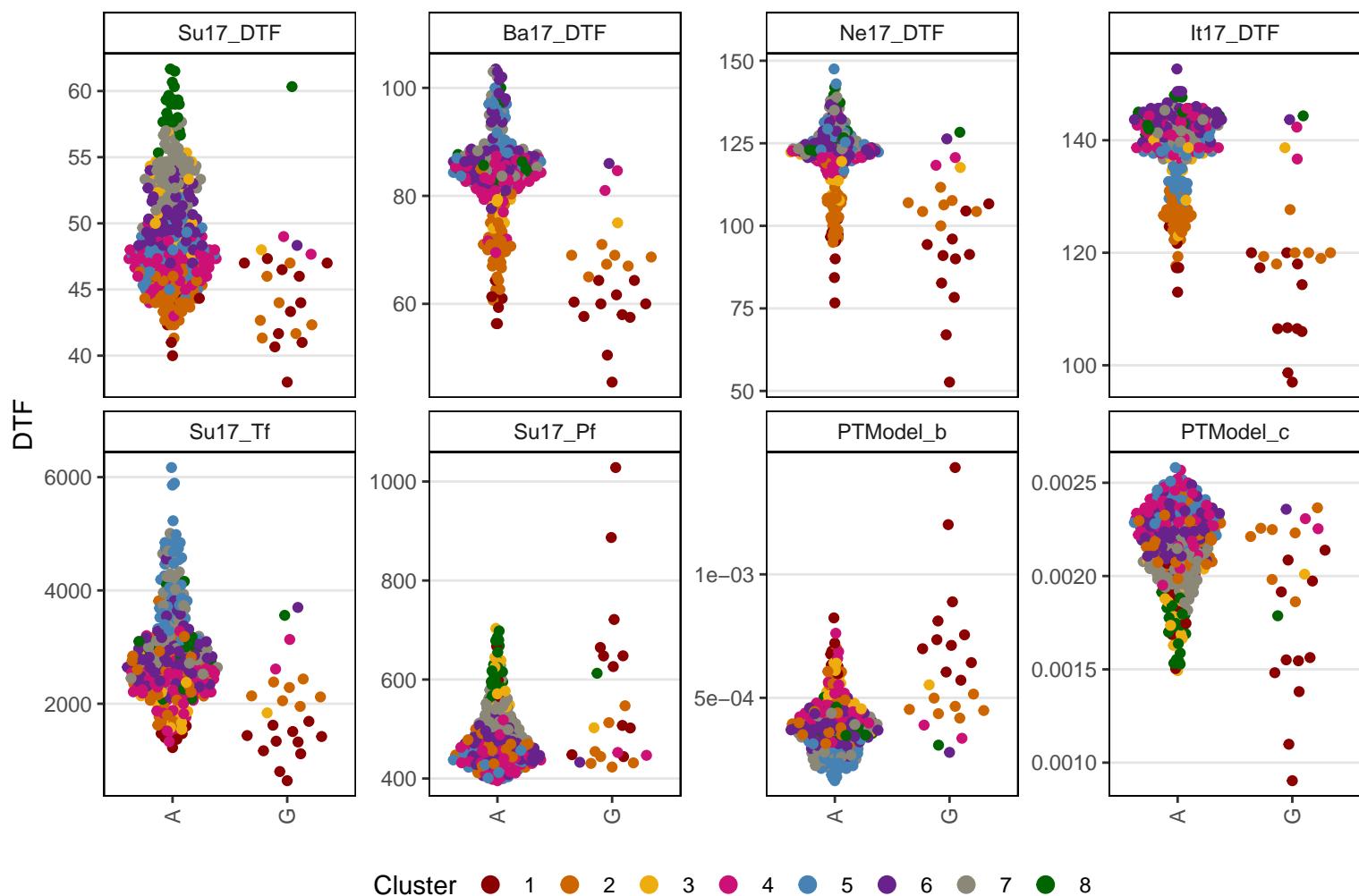
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Cluster ● 1 2 3 4 5 6 7 8

Ubiquitin ligase cop1 (B)  
105177

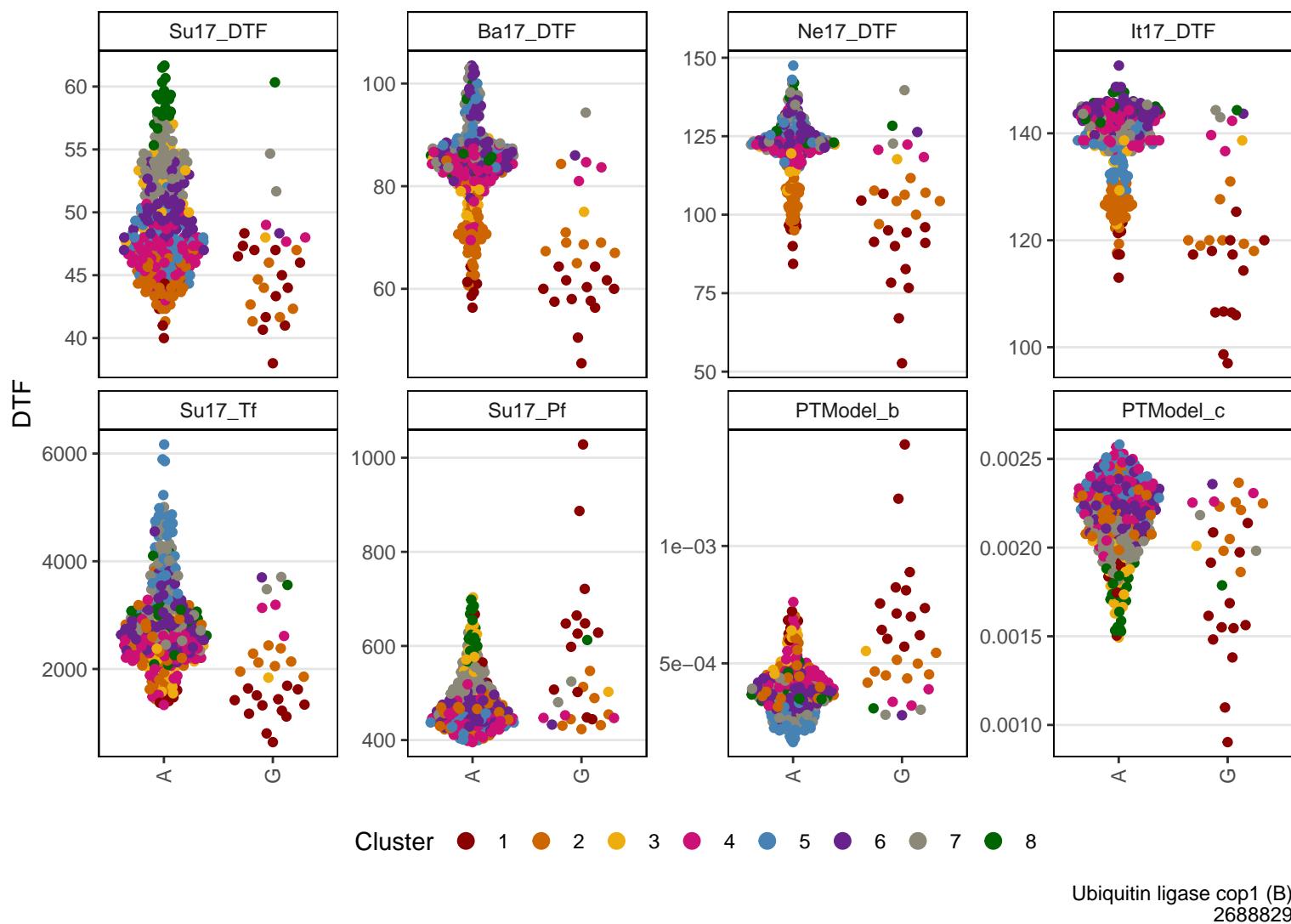
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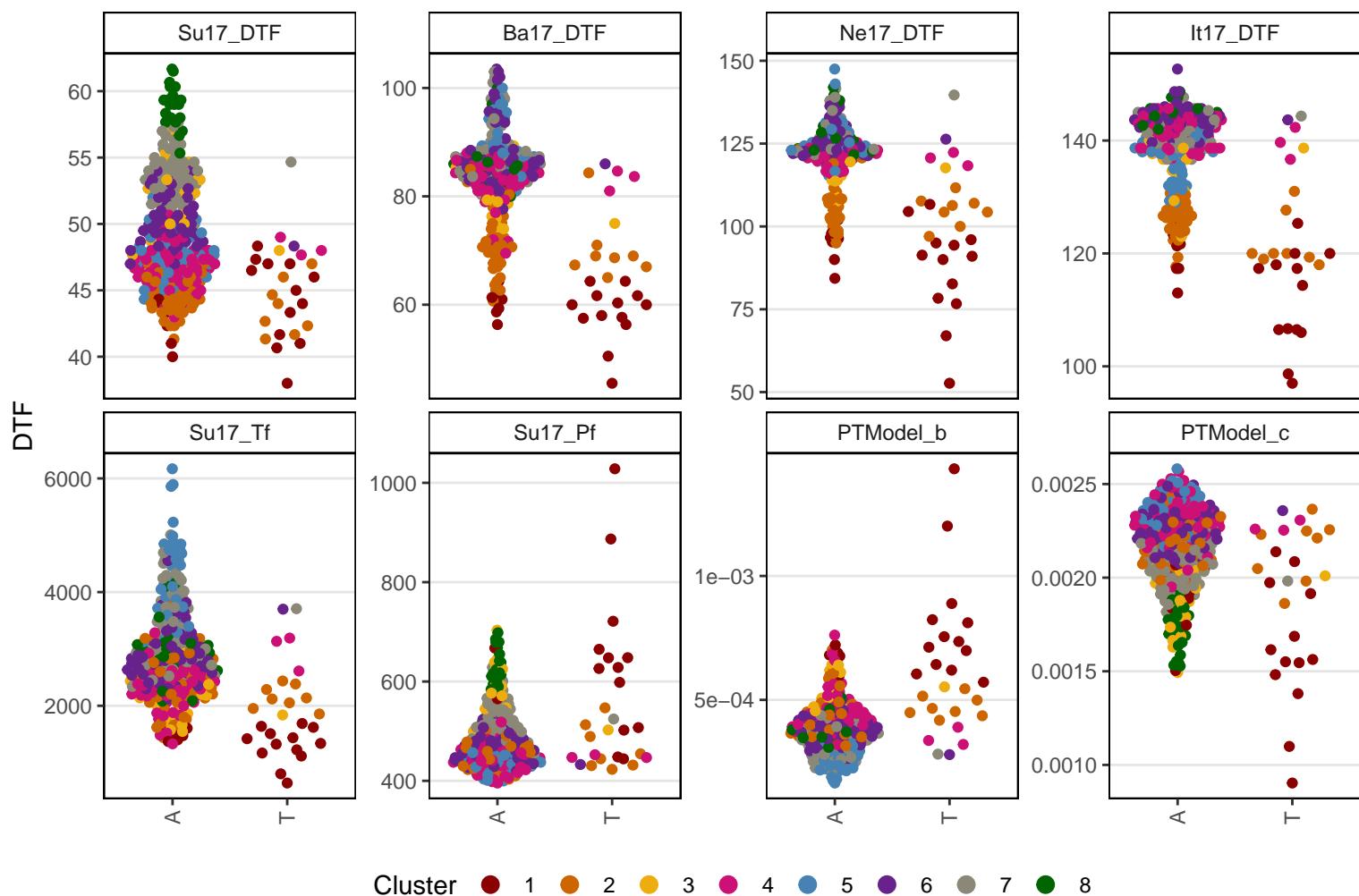
Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

Ubiquitin ligase cop1 (B)  
2406134

# Lcu.2RBY.Chr3p370833092

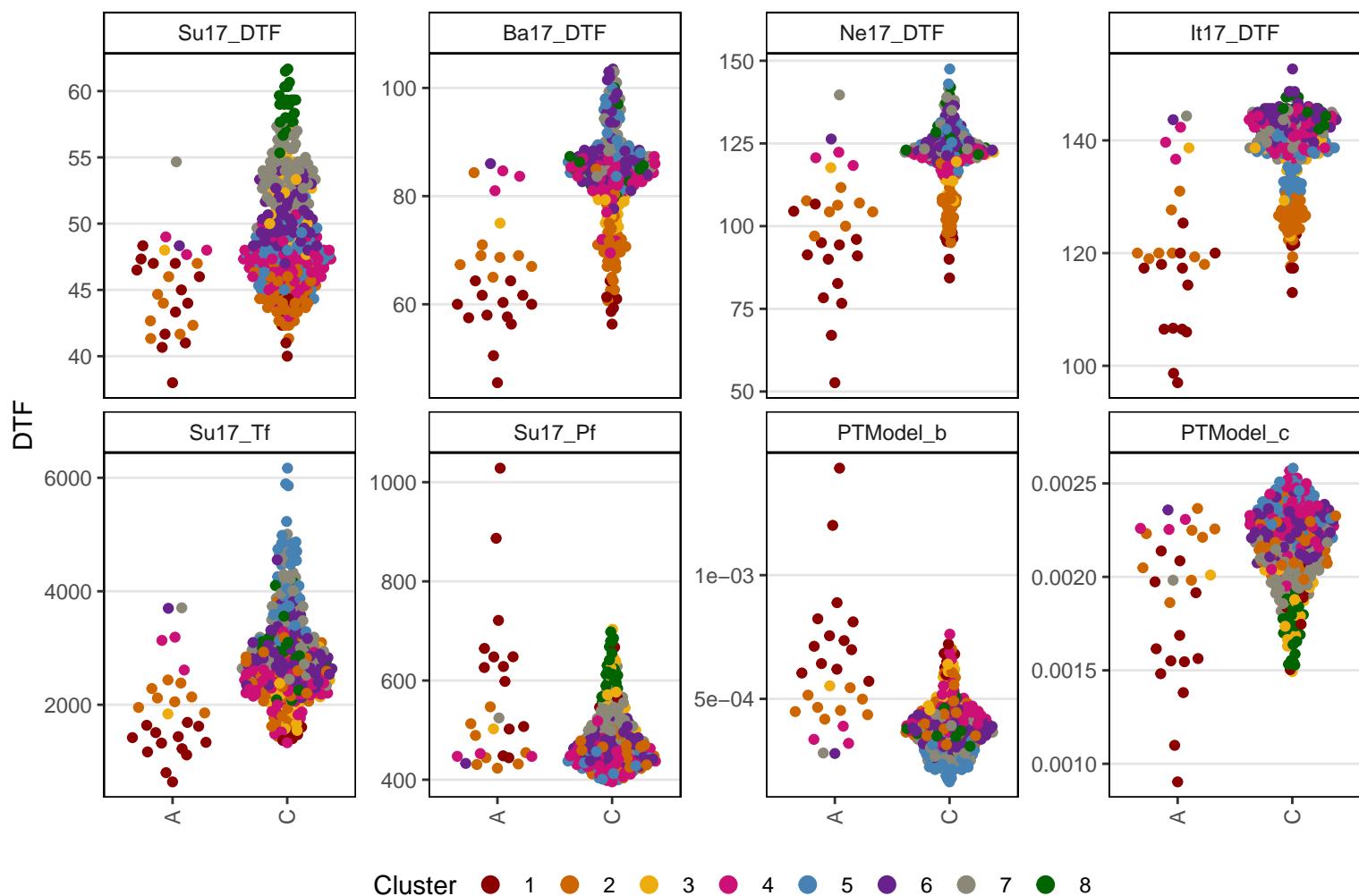


# Lcu.2RBY.Chr3p371054579



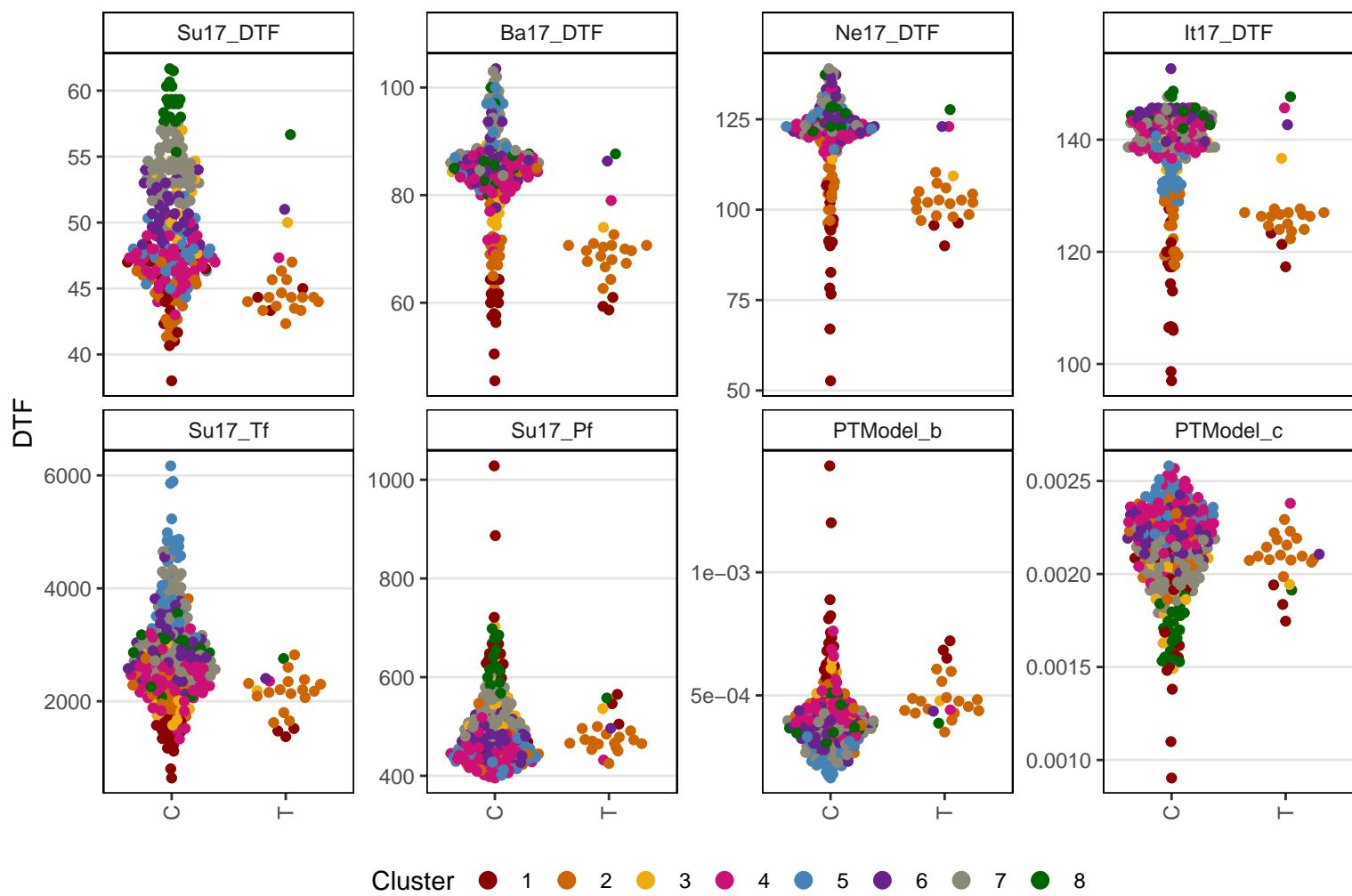
Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

# Lcu.2RBY.Chr3p371054689

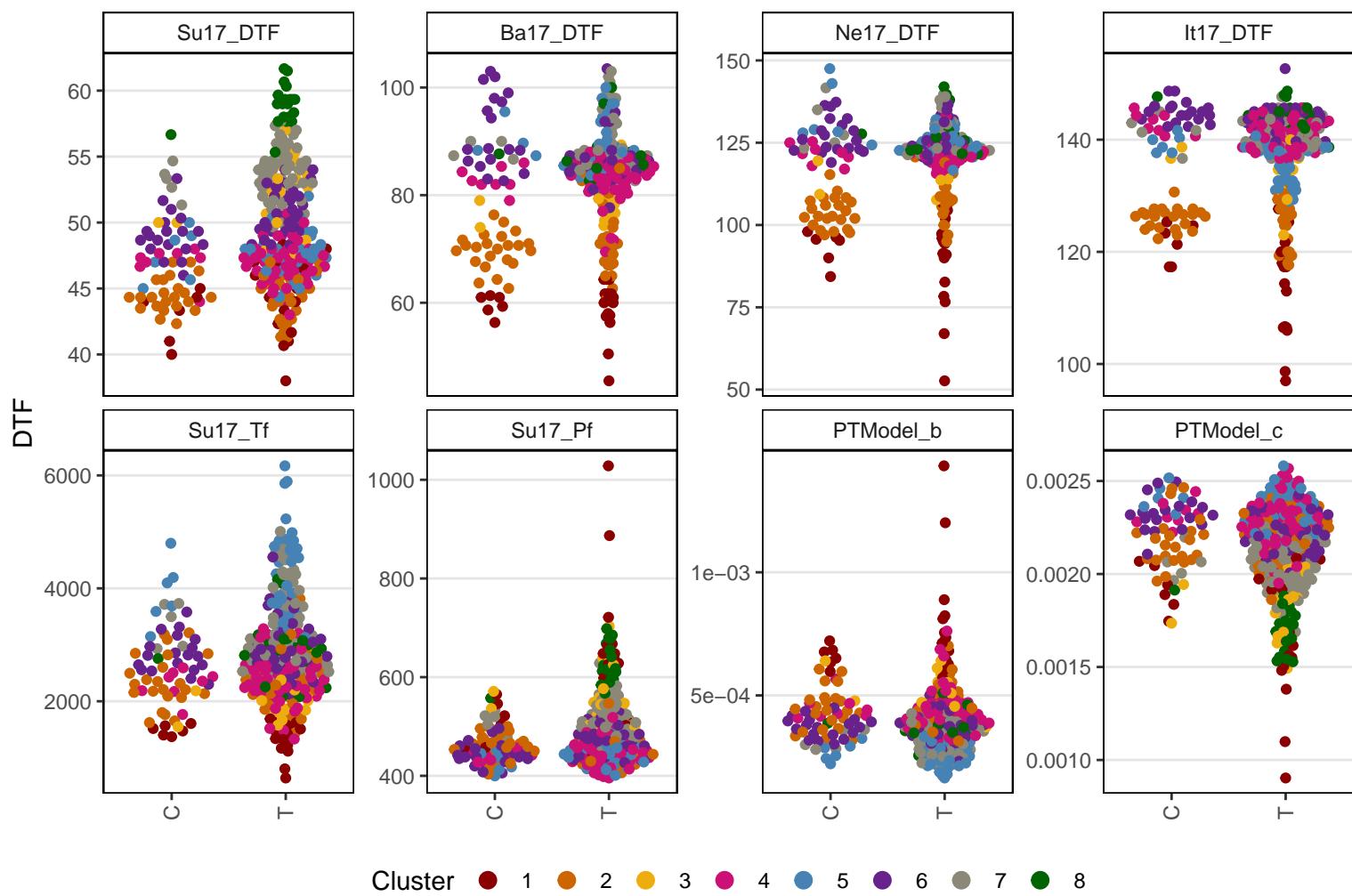


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

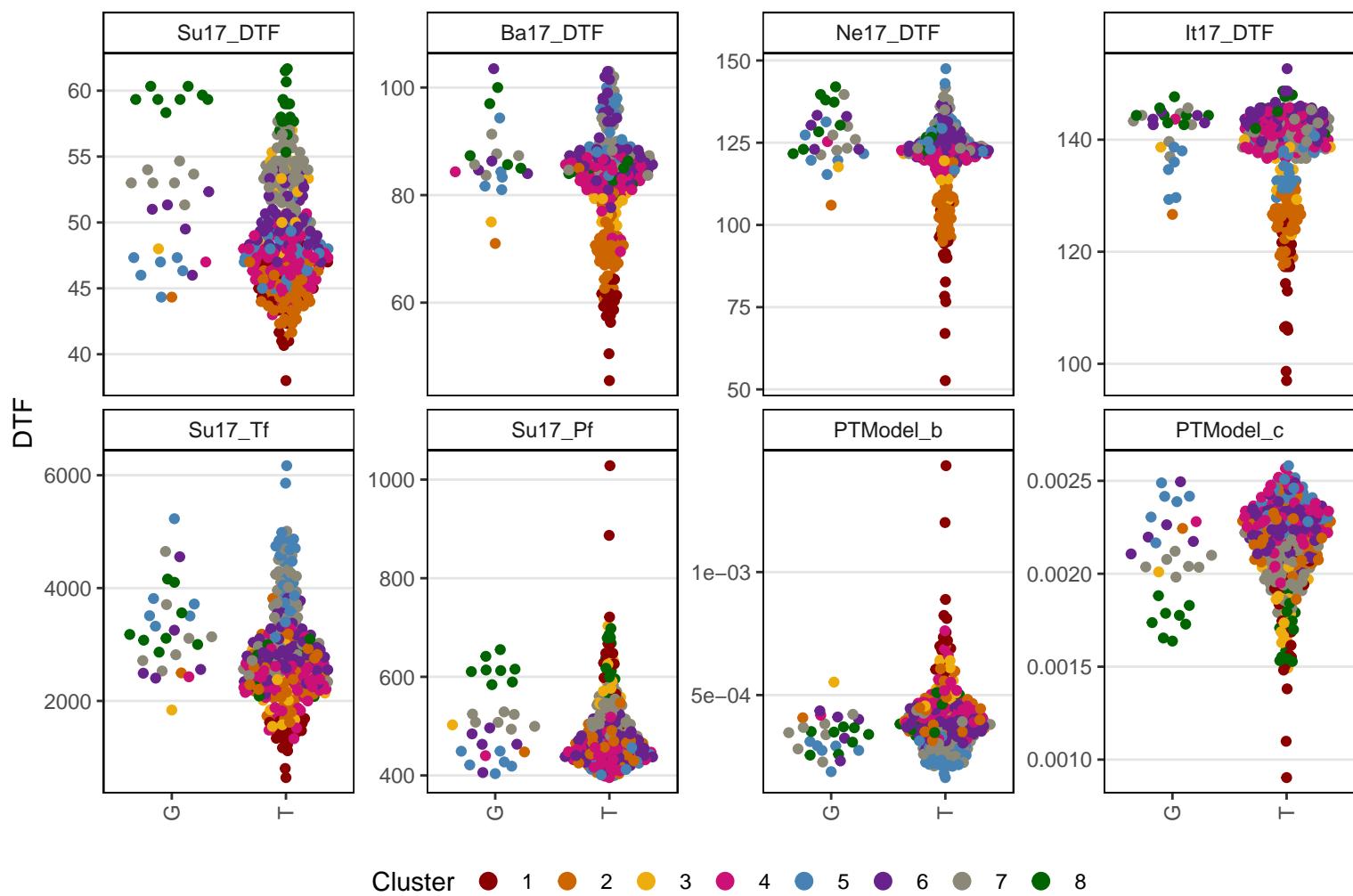
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# Lcu.2RBY.Chr3p372343730

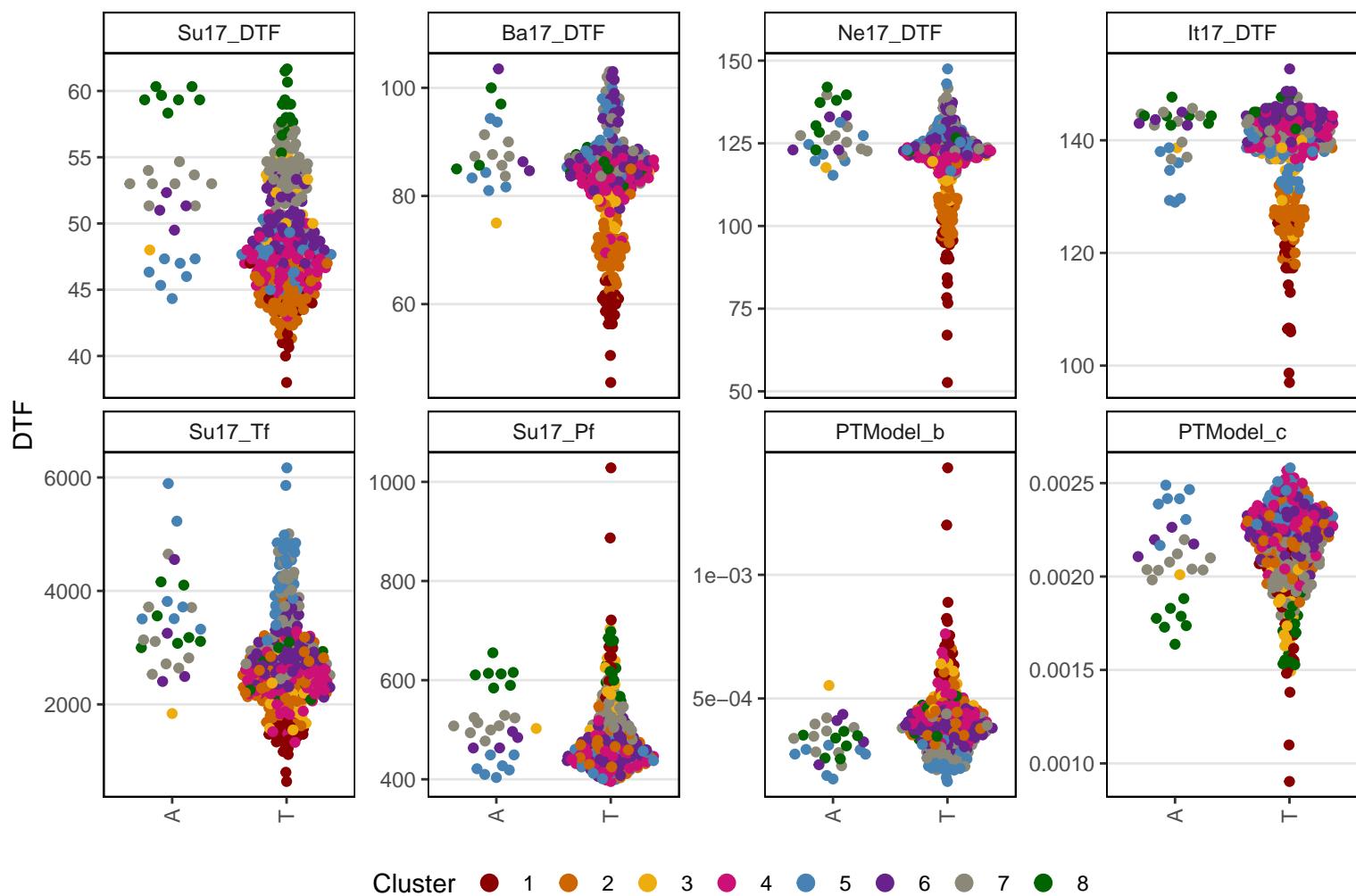


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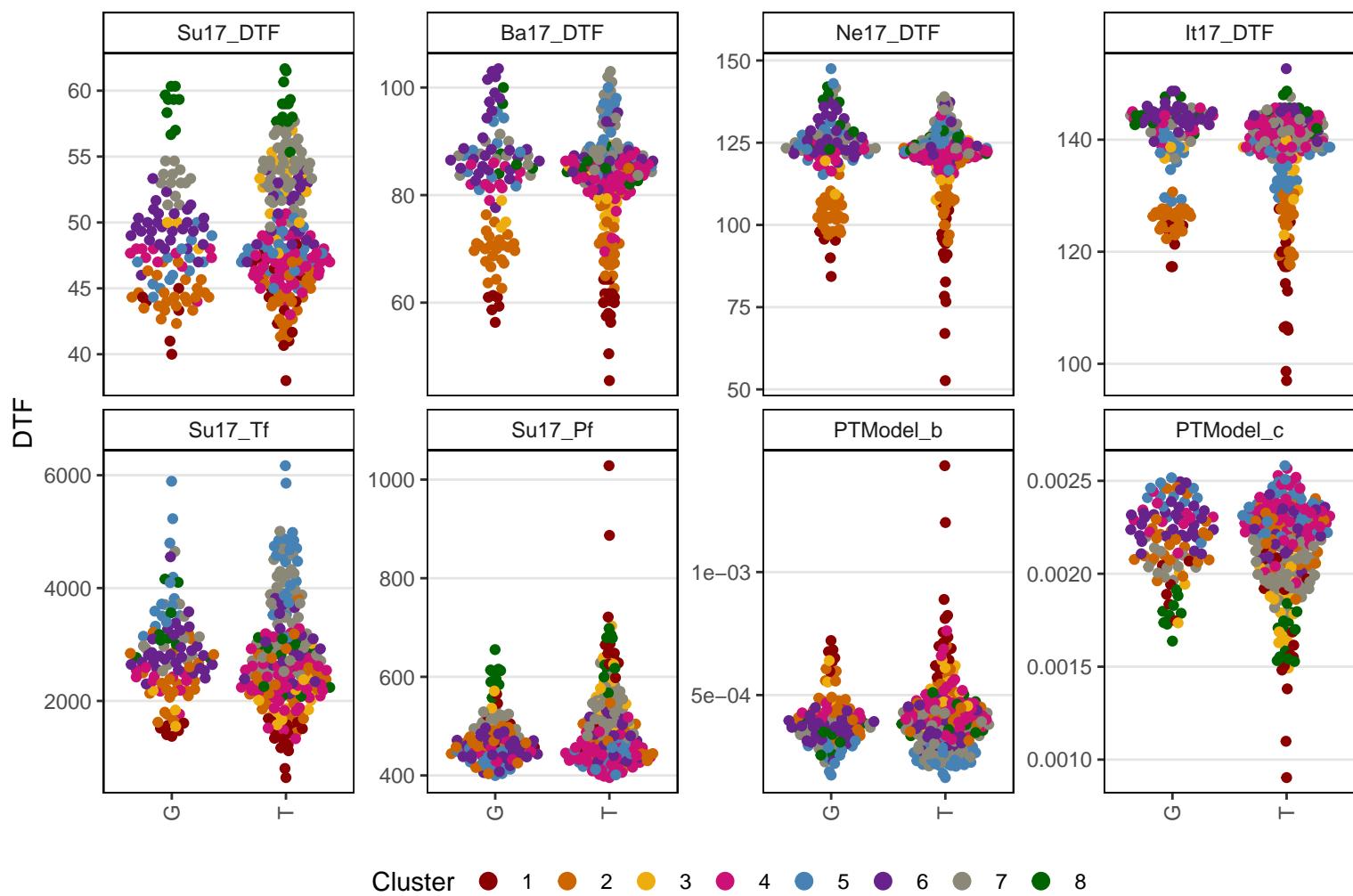
Cluster ● 1 2 3 4 5 6 7 8

# Lcu.2RBY.Chr3p378863850



MADS-box transcription factor (B) ; CCAAT-binding transcription factor (C) ; CCAAT-binding transcription factor (B) ; F-box GID2-like protein  
 1893602 ; 2327594 ; 2339781 ; 2864880

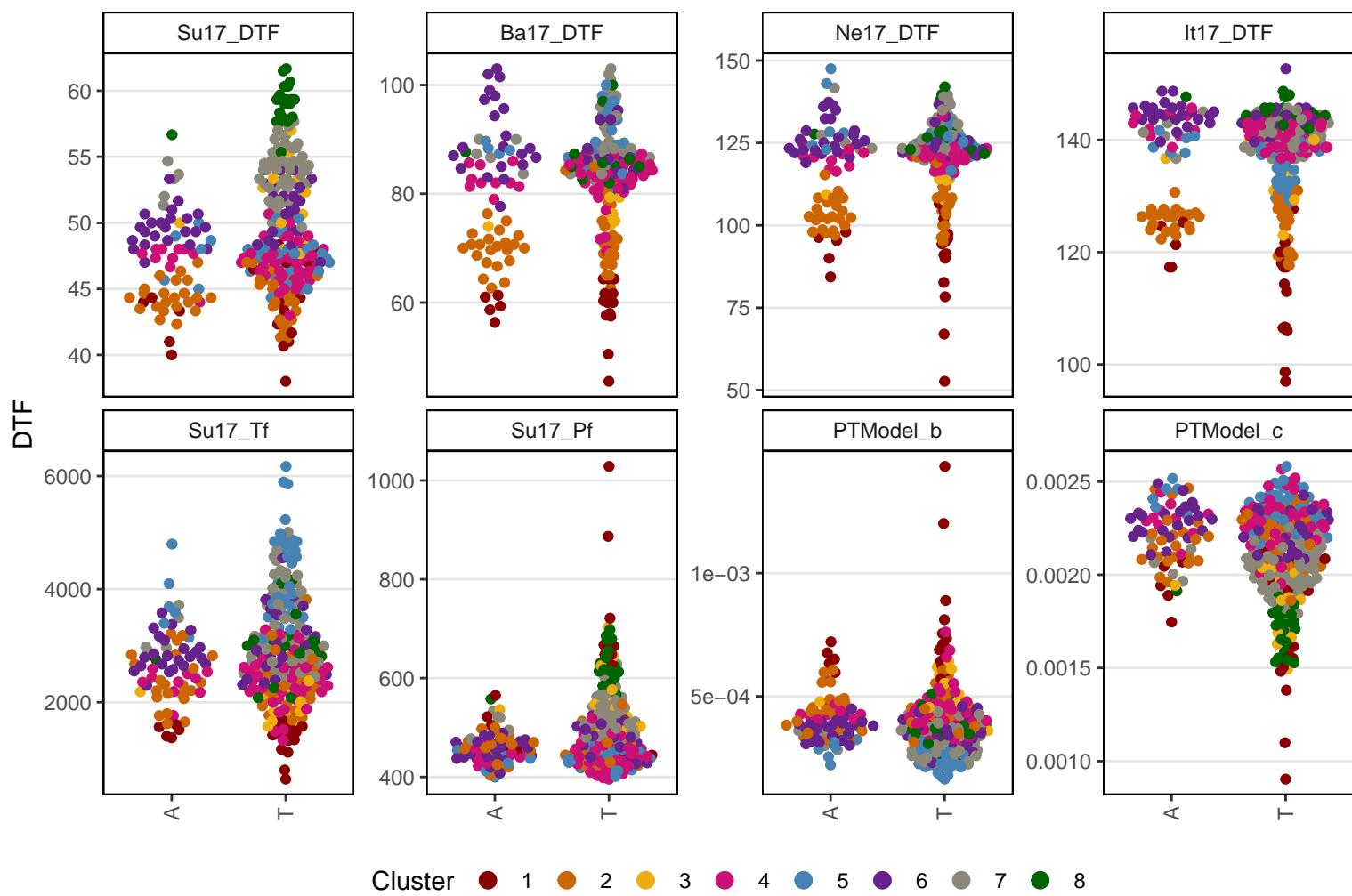
# Lcu.2RBY.Chr3p378879937



Cluster ● 1 2 3 4 5 6 7 8

MADS-box transcription factor (B) ; CCAAT-binding transcription factor (C) ; CCAAT-binding transcription factor (B) ; F-box GID2-like protein  
1909689 ; 2343681 ; 2355868 ; 2880967

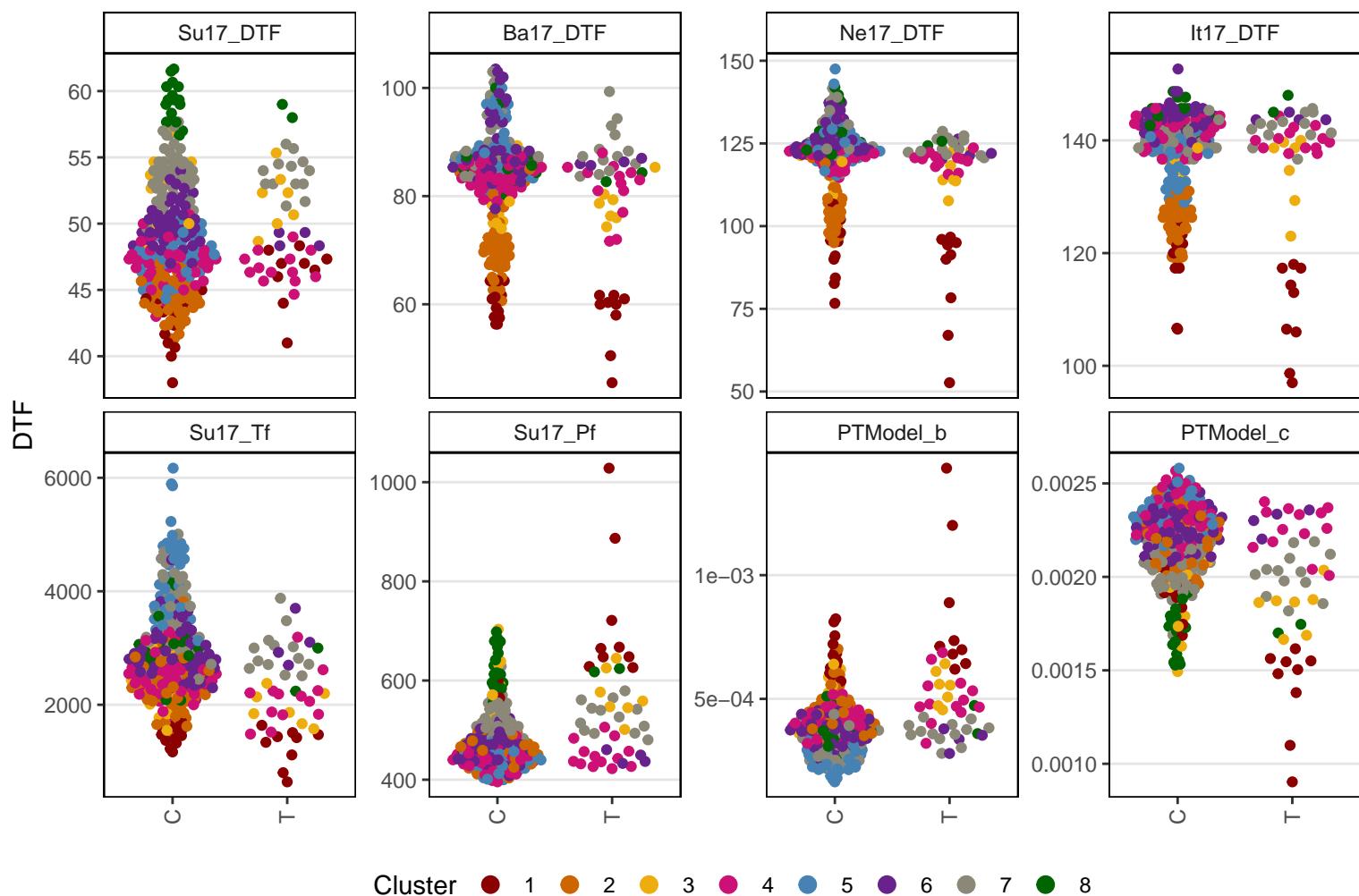
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Cluster ● 1 2 3 4 5 6 7 8

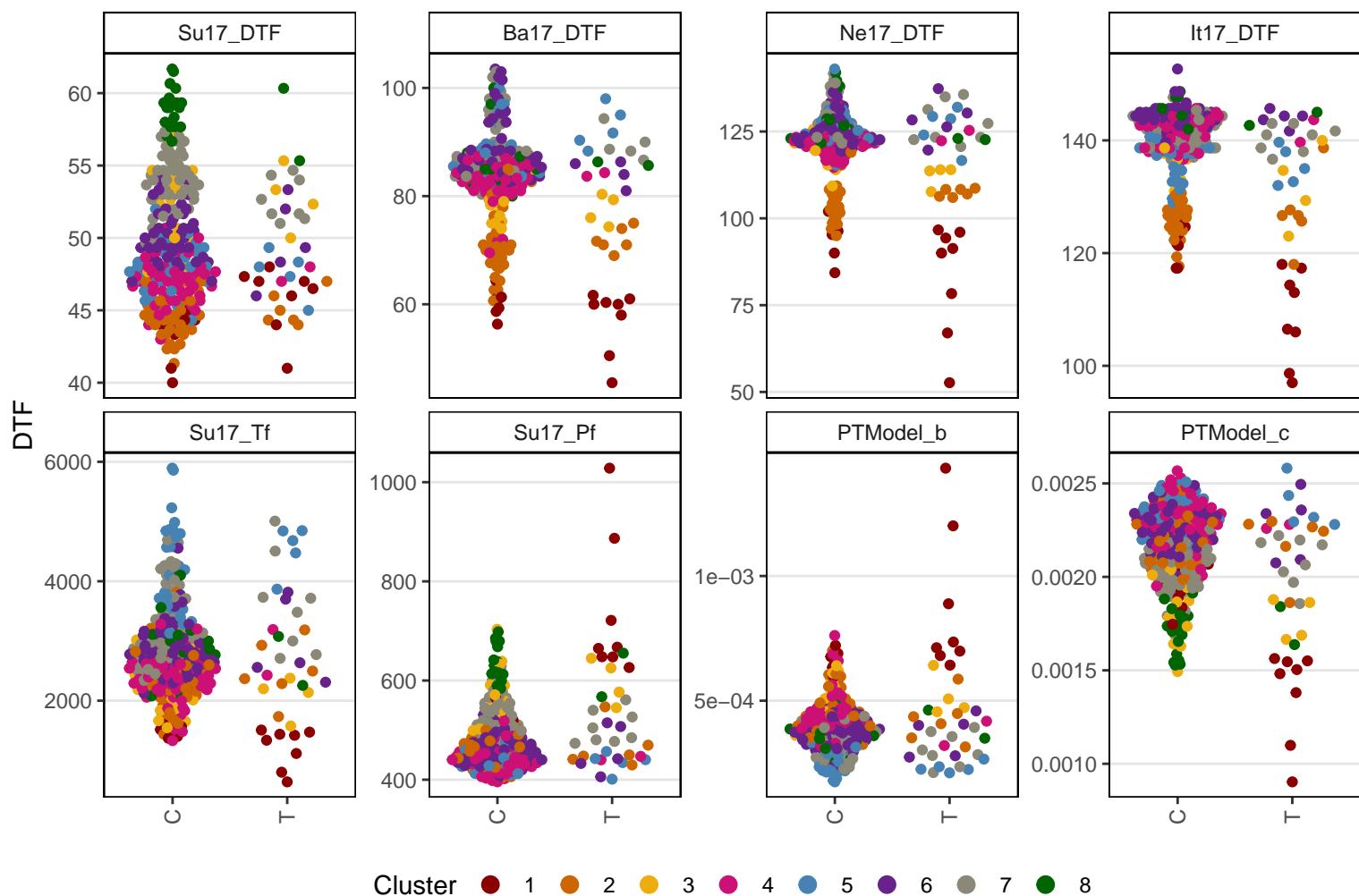
MADS-box transcription factor (B) ; CCAAT-binding transcription factor (C) ; CCAAT-binding transcription factor (B) ; F-box GID2-like protein  
 1957385 ; 2391377 ; 2403564 ; 2928663

# Lcu.2RBY.Chr3p380983394

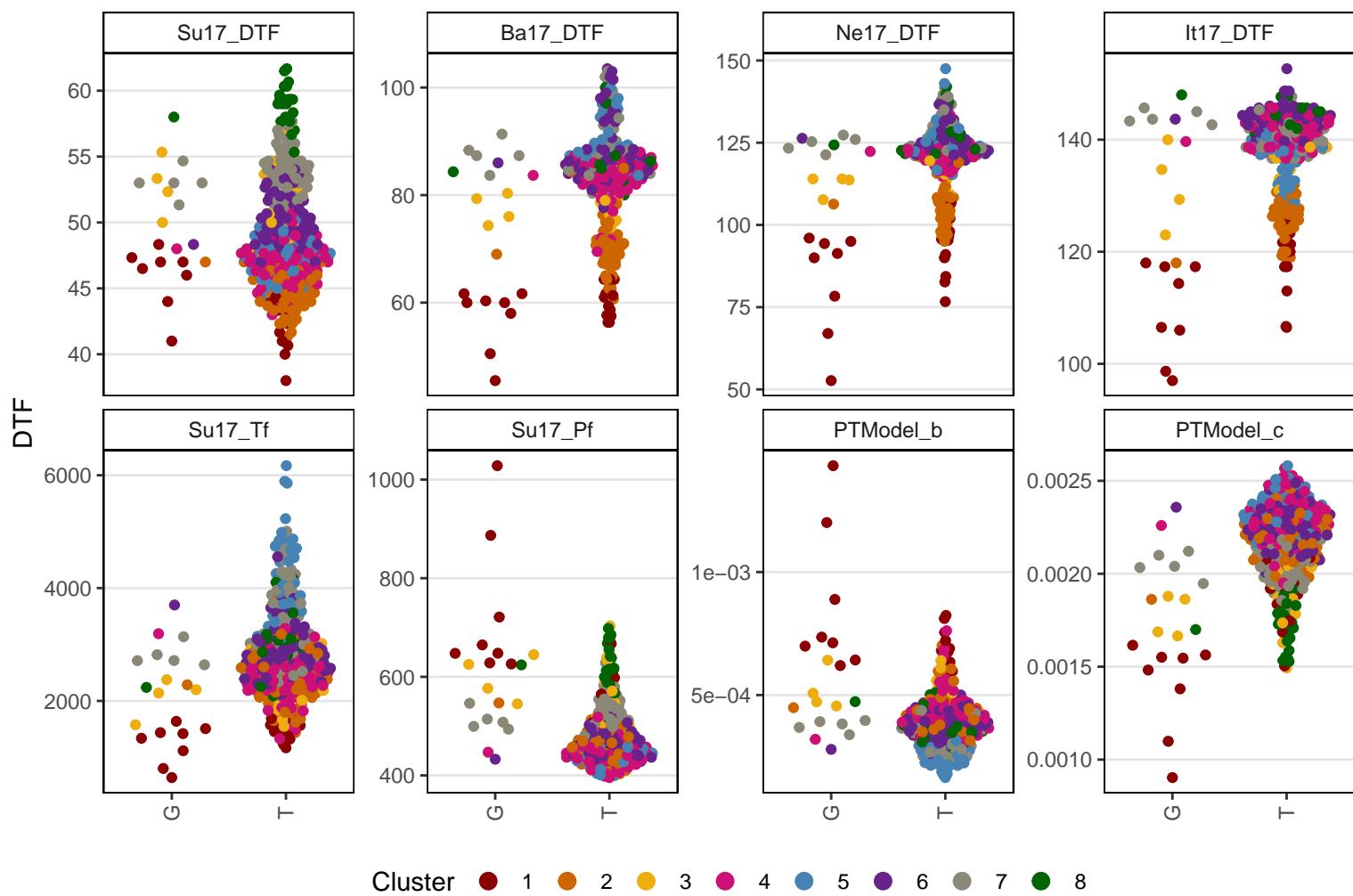


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

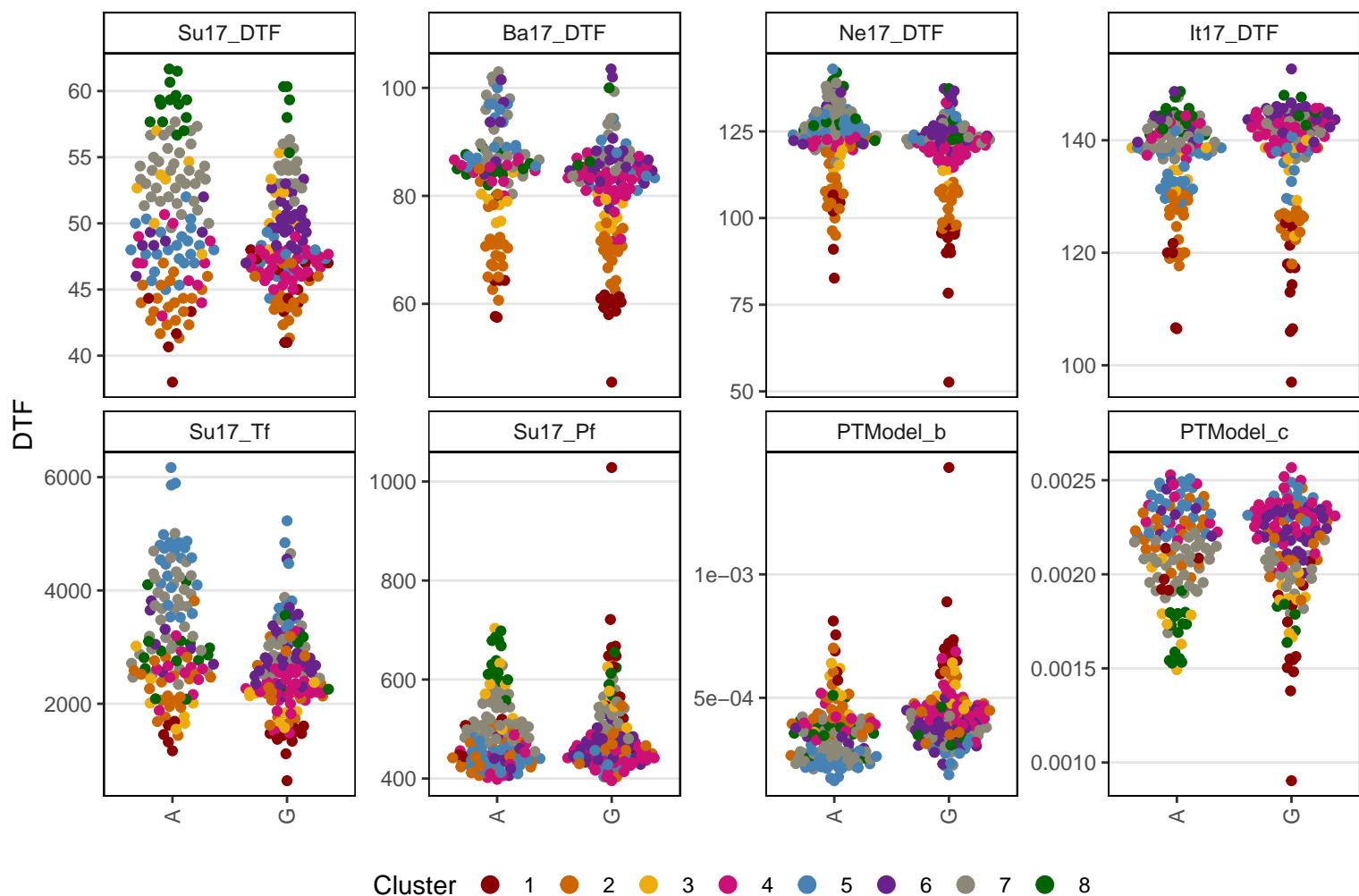
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# Lcu.2RBY.Chr3p385528479

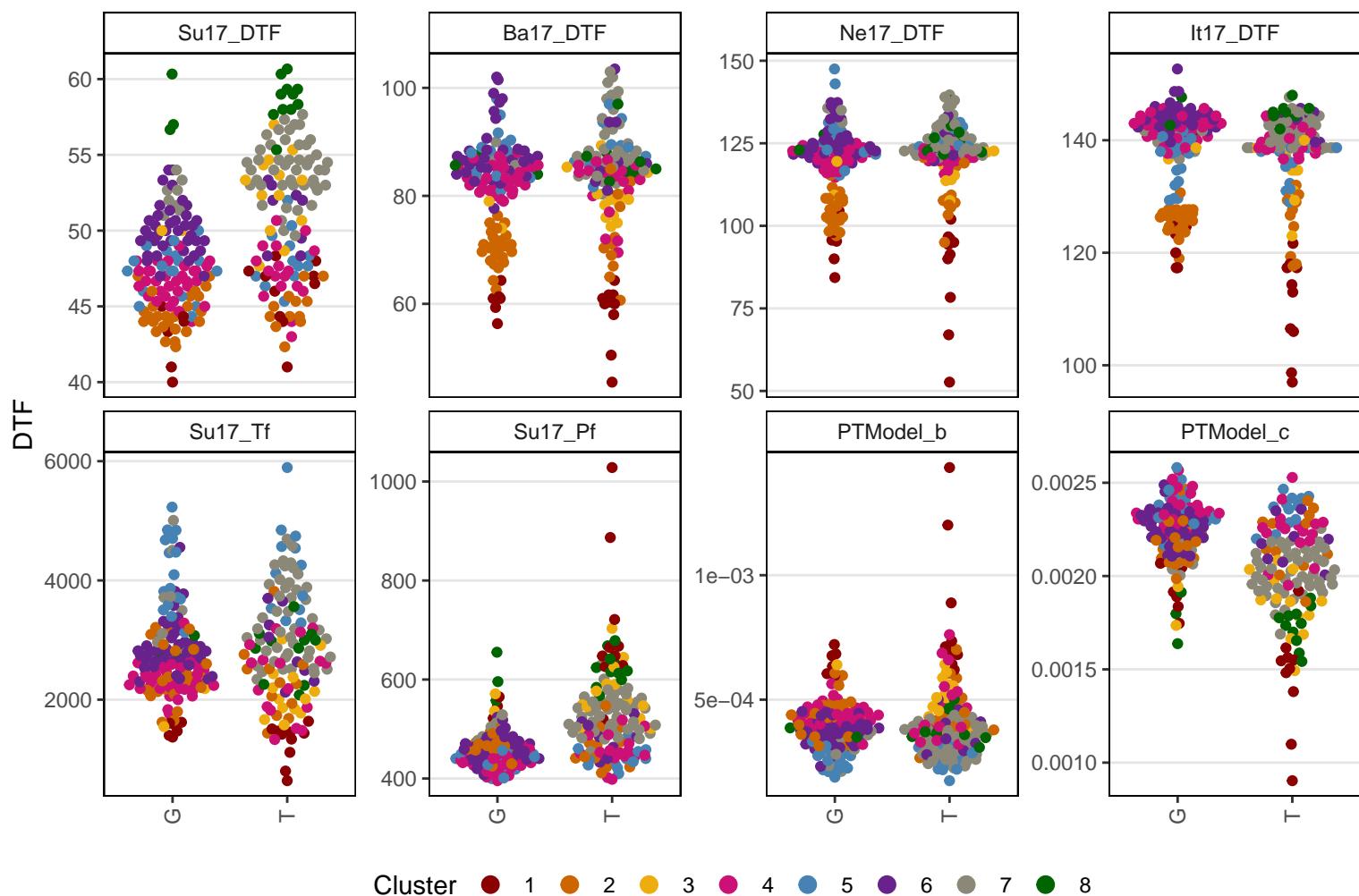


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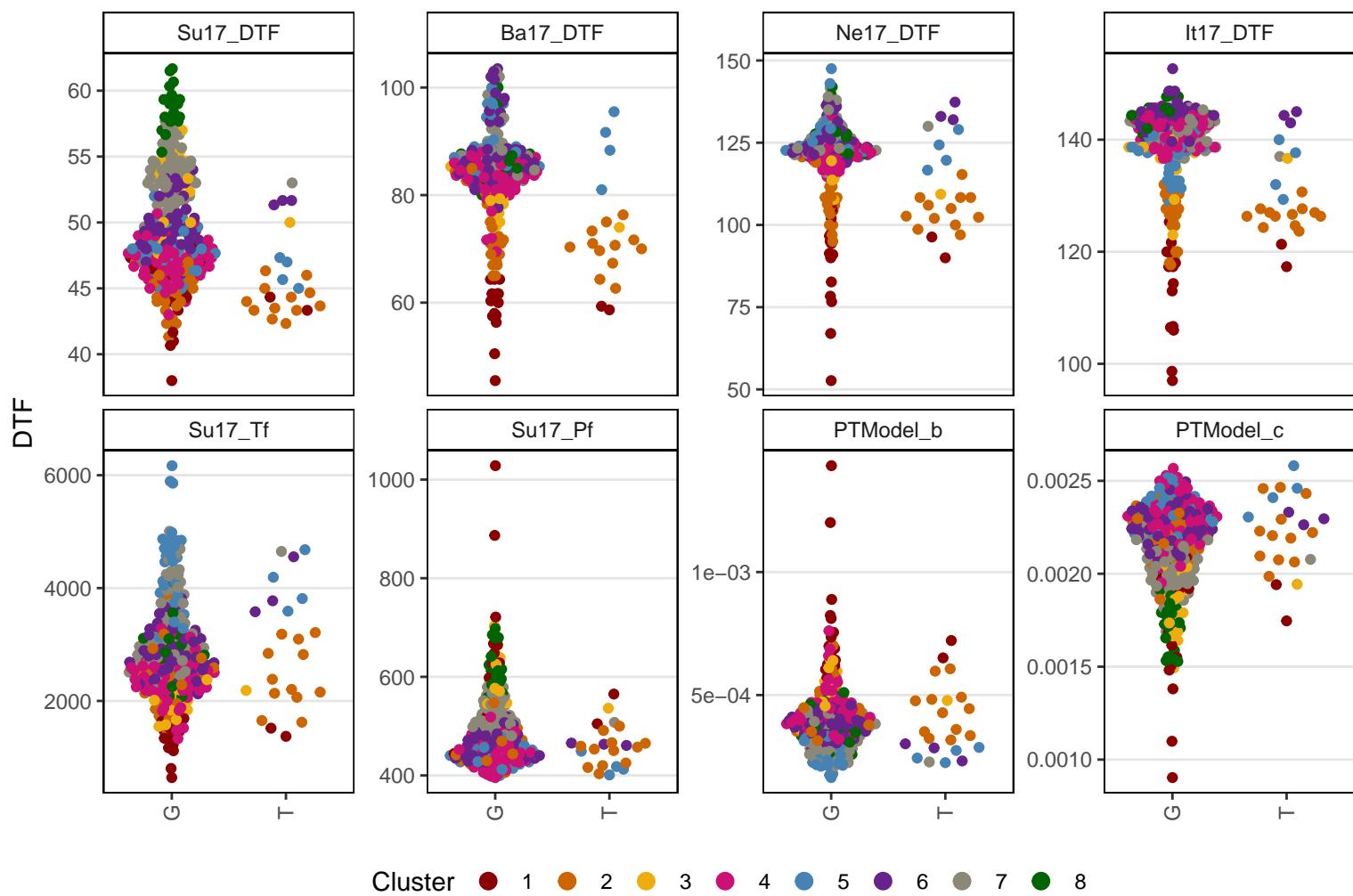


Cluster ● 1 2 3 4 5 6 7 8

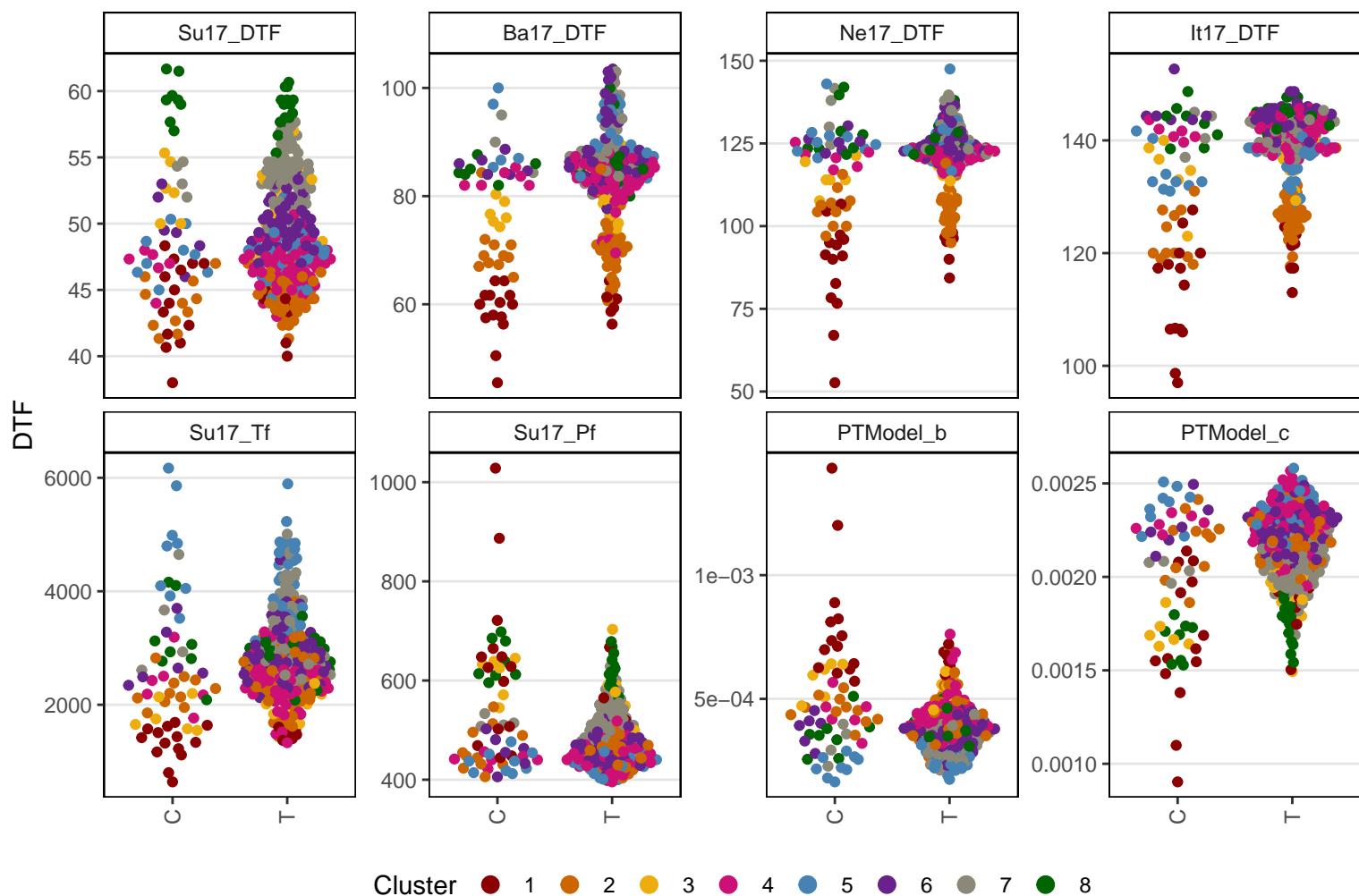
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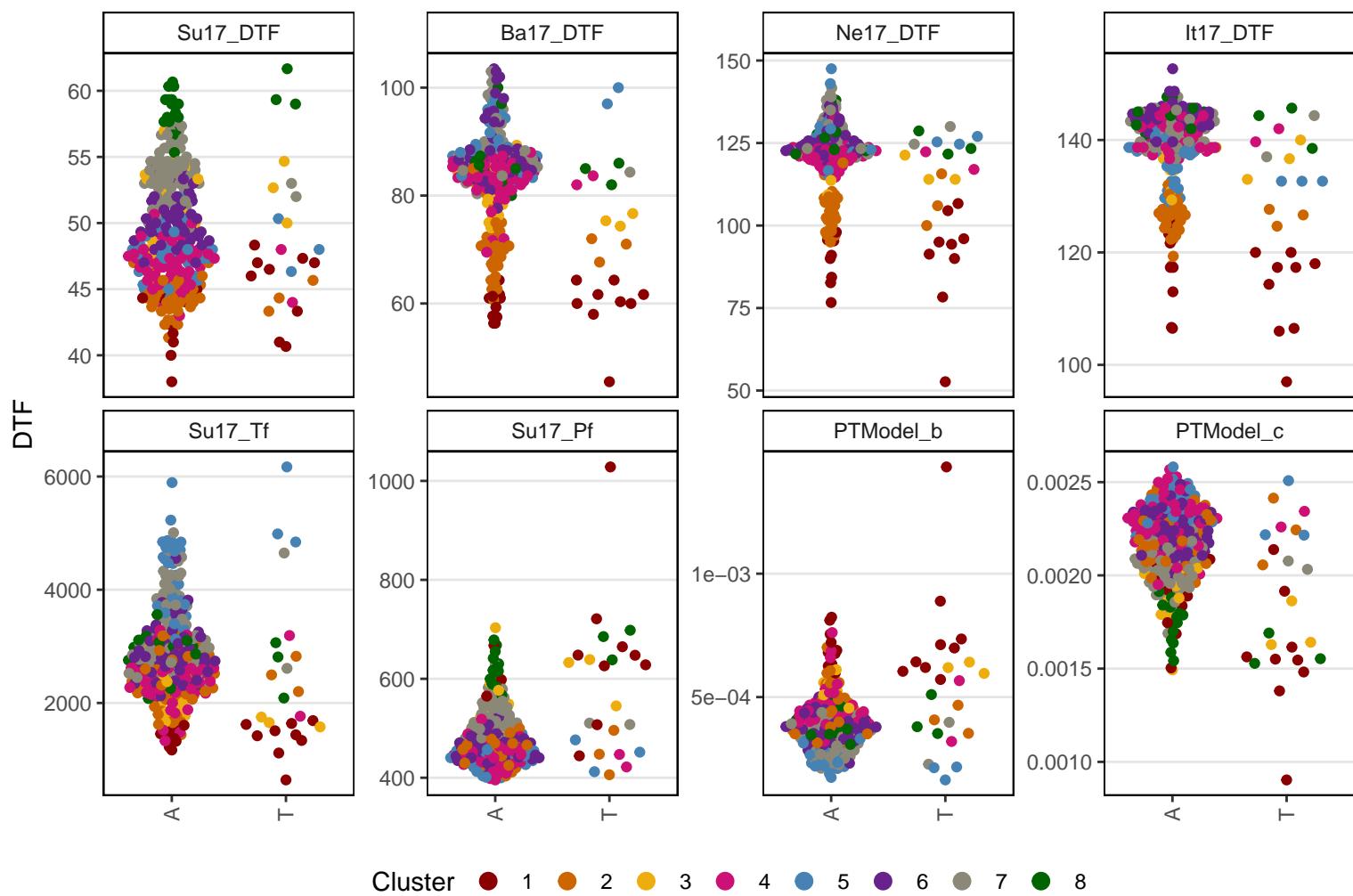
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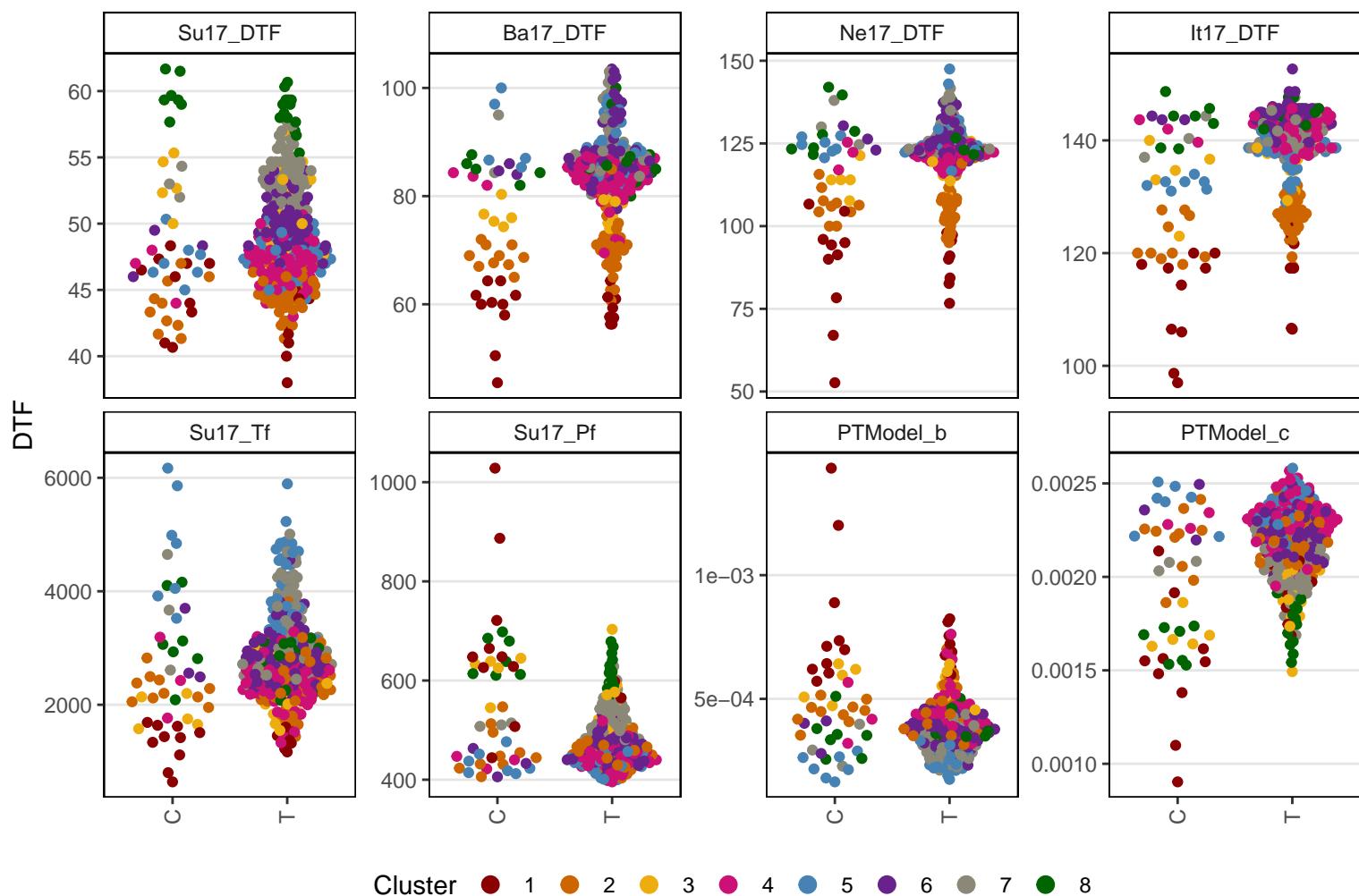
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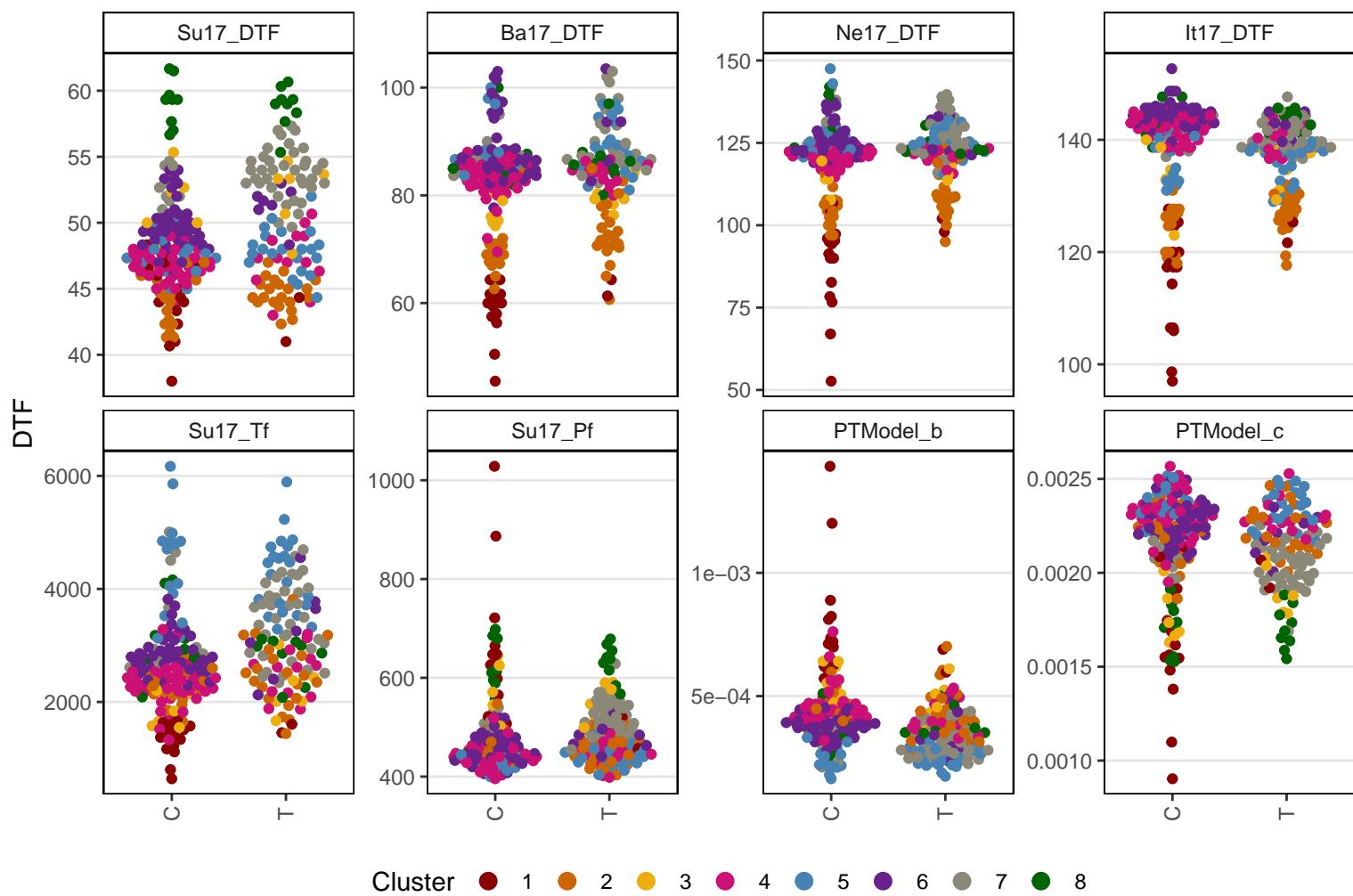
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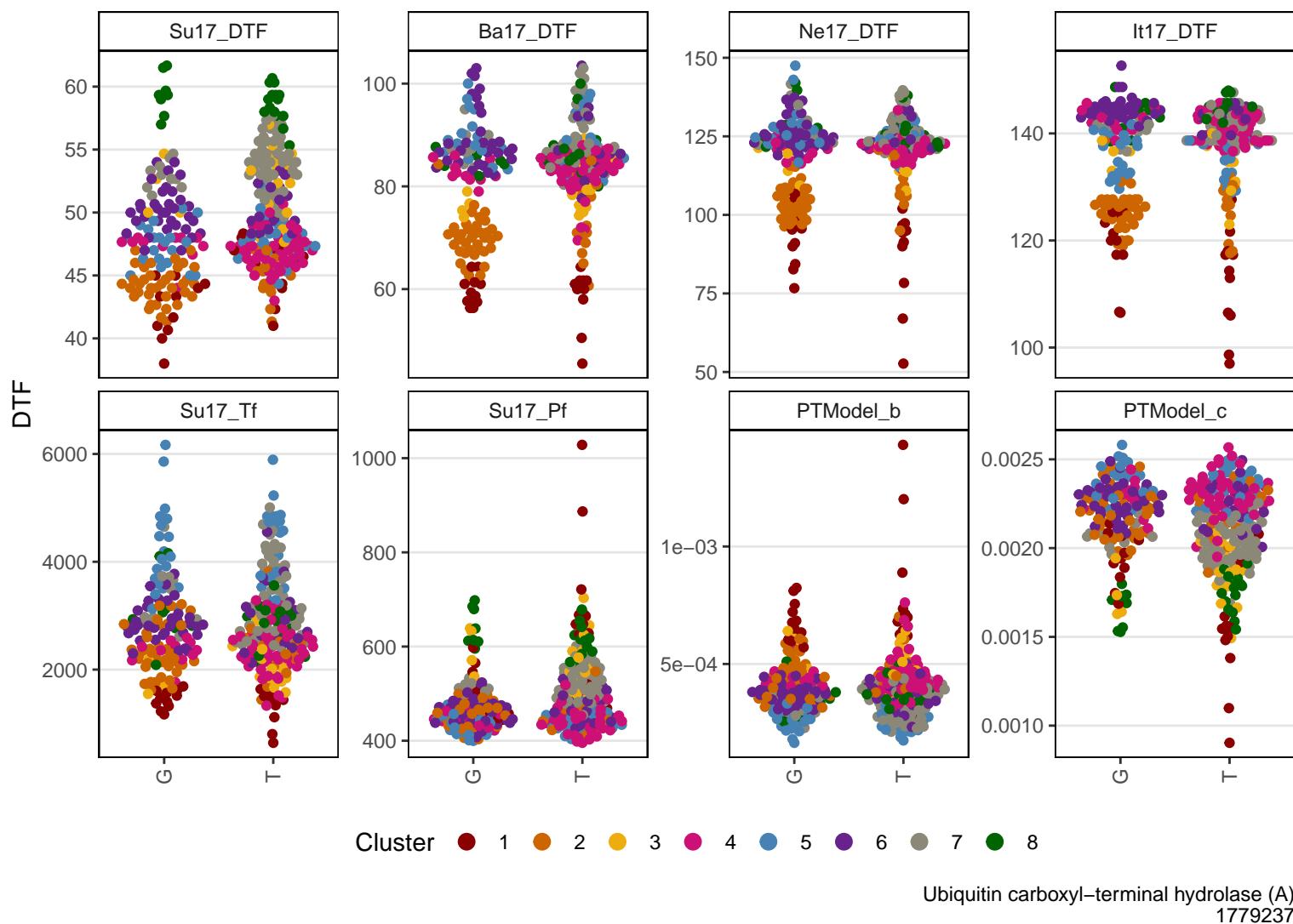
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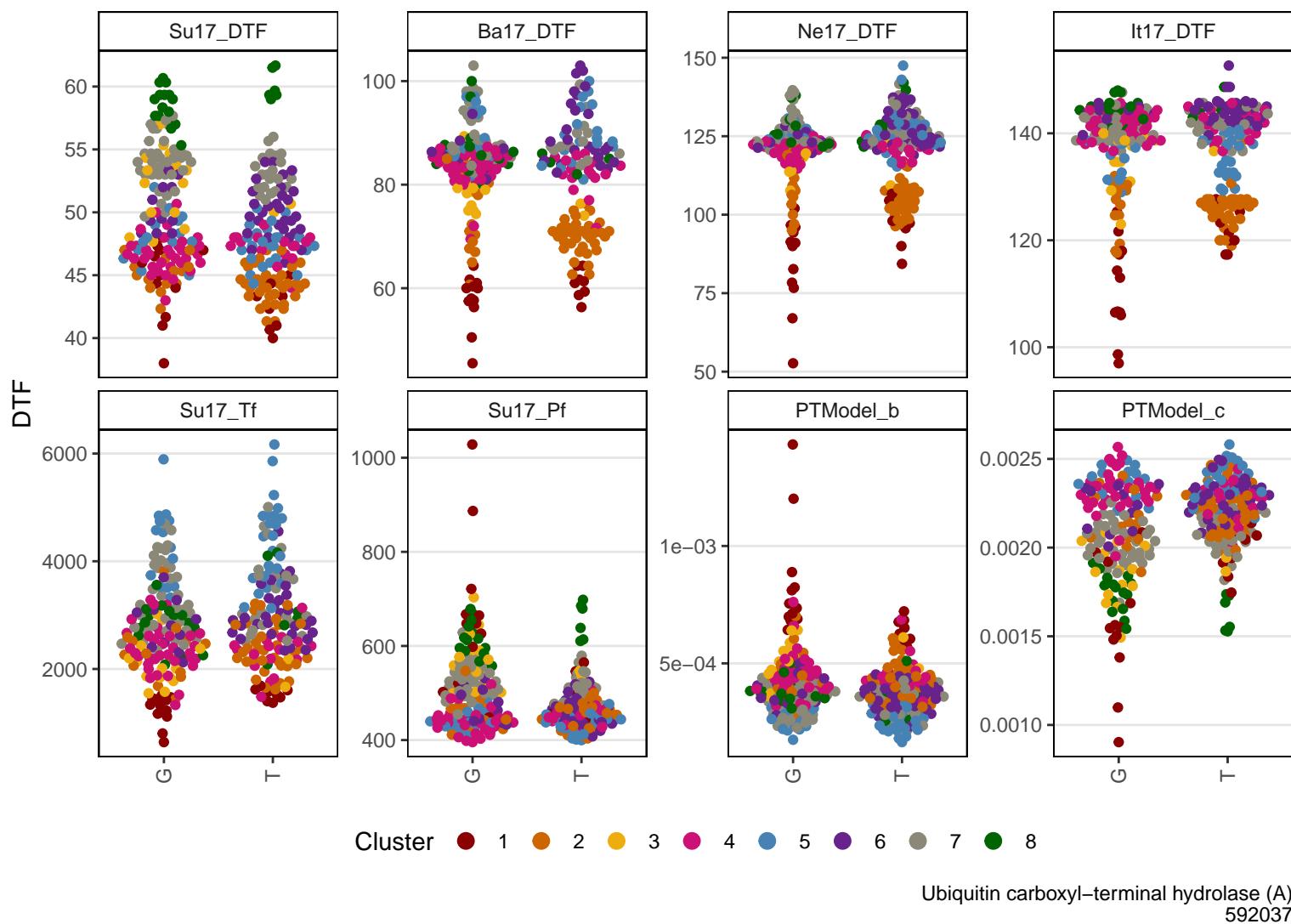
# Lcu.2RBY.Chr3p395685385



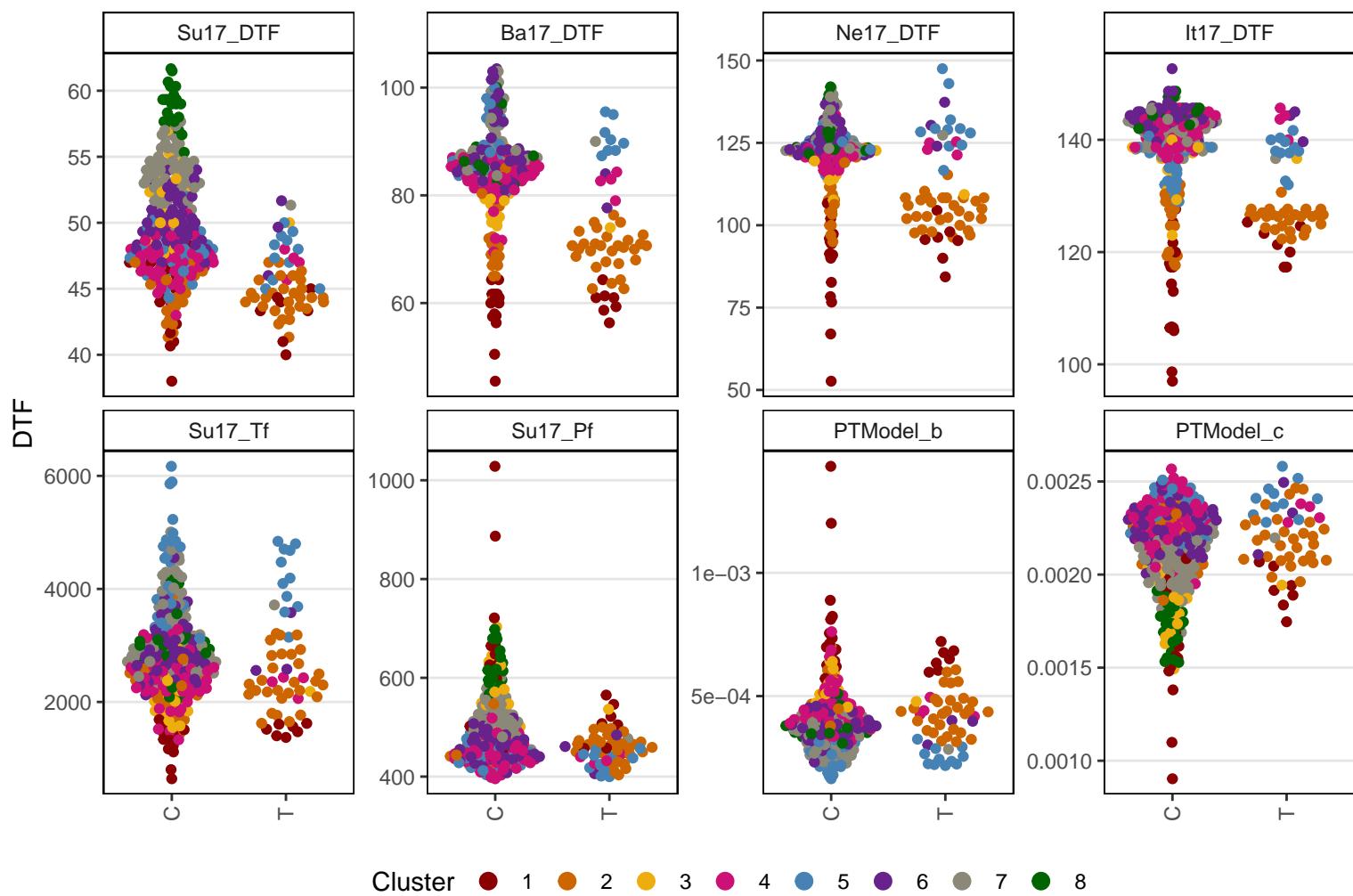
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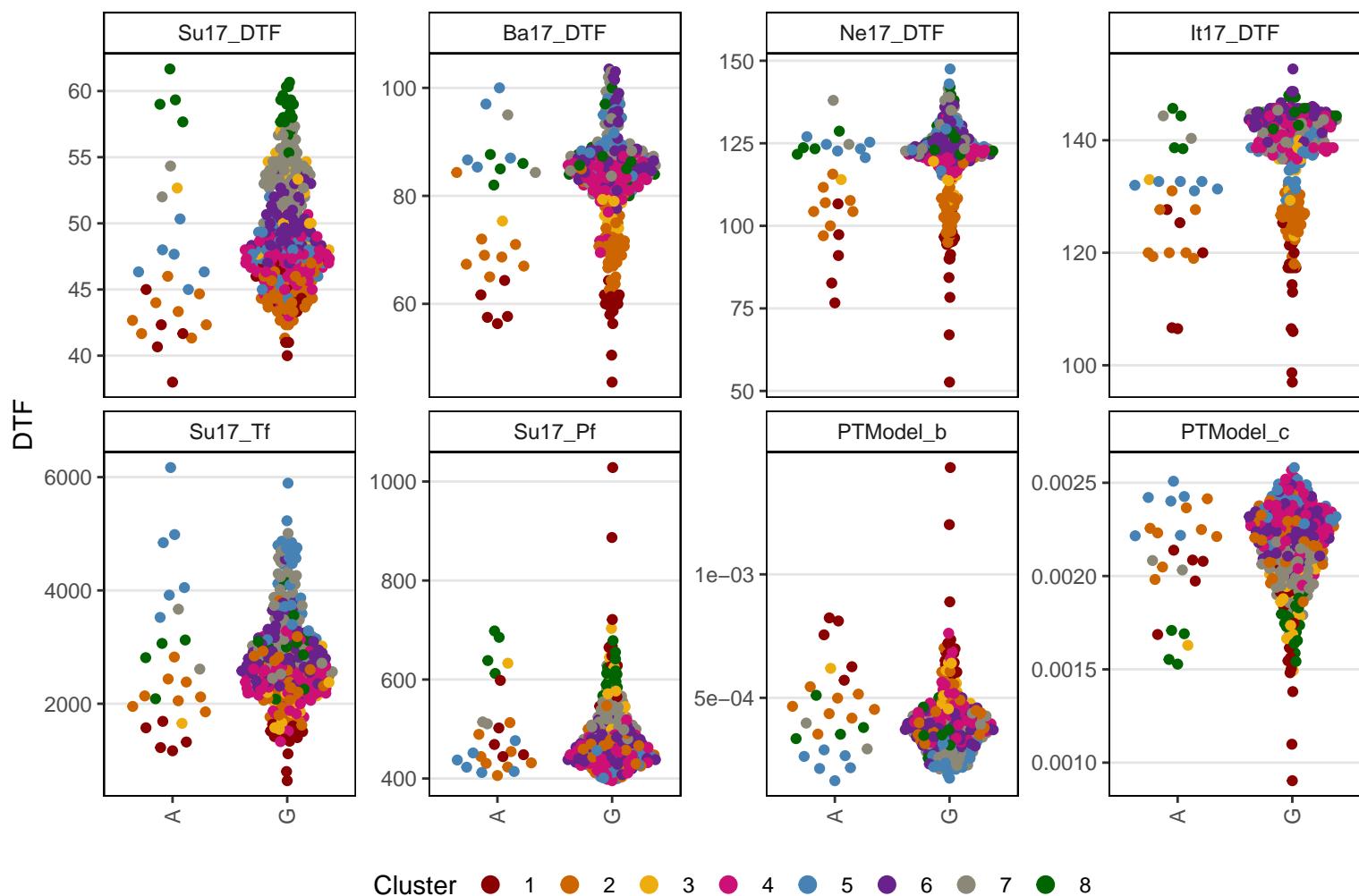
# Lcu.2RBY.Chr3p399689326



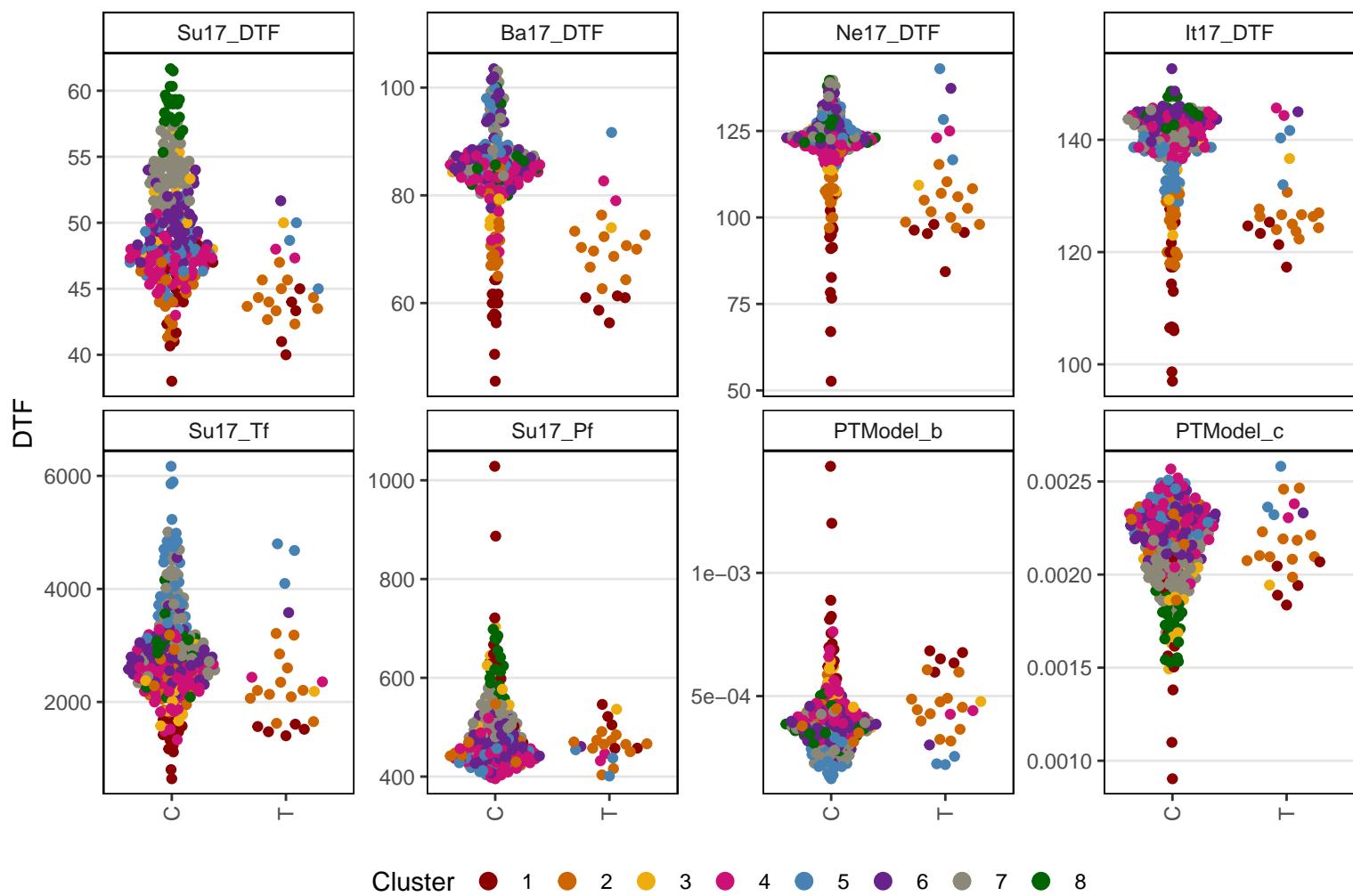
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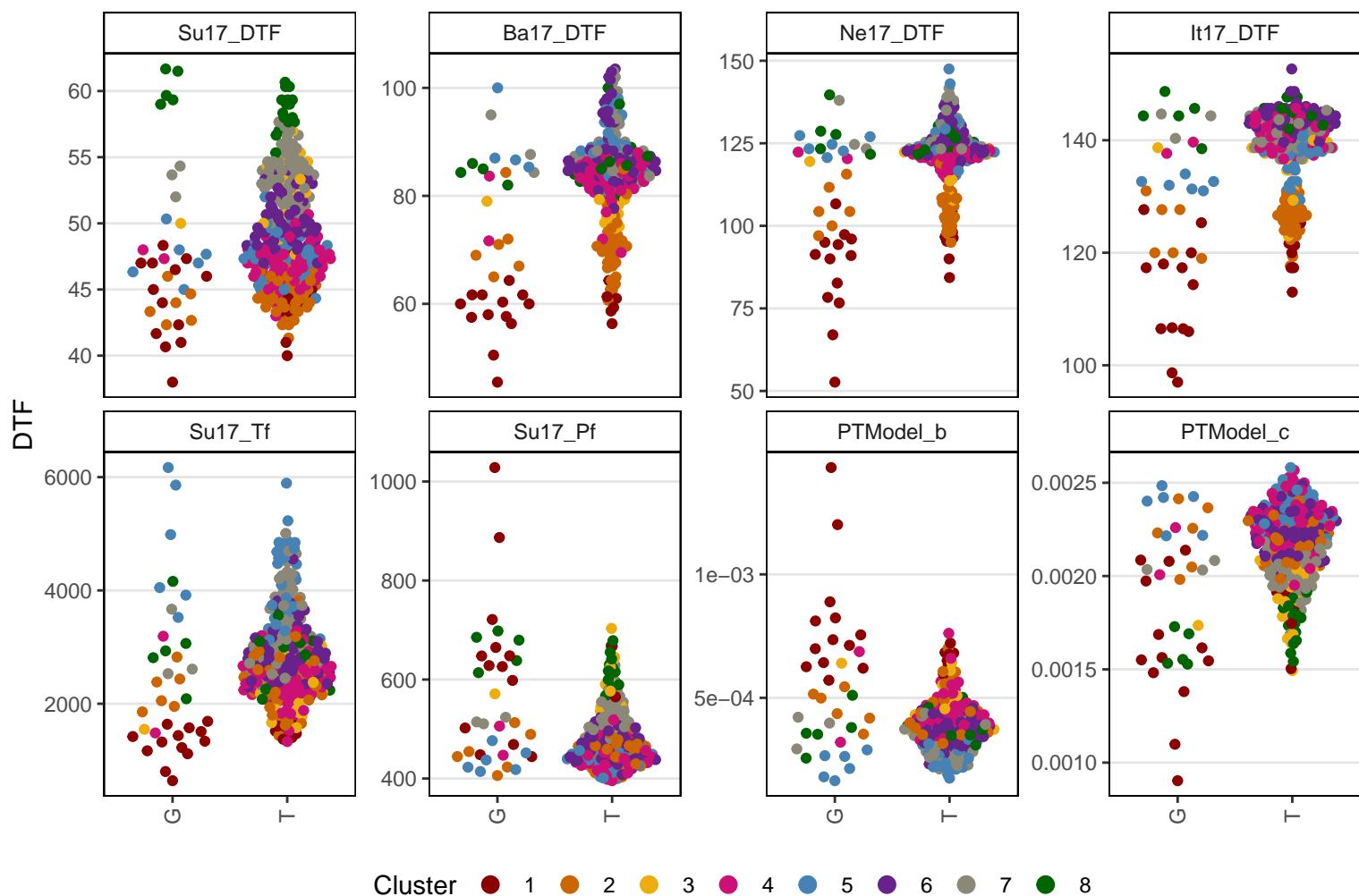
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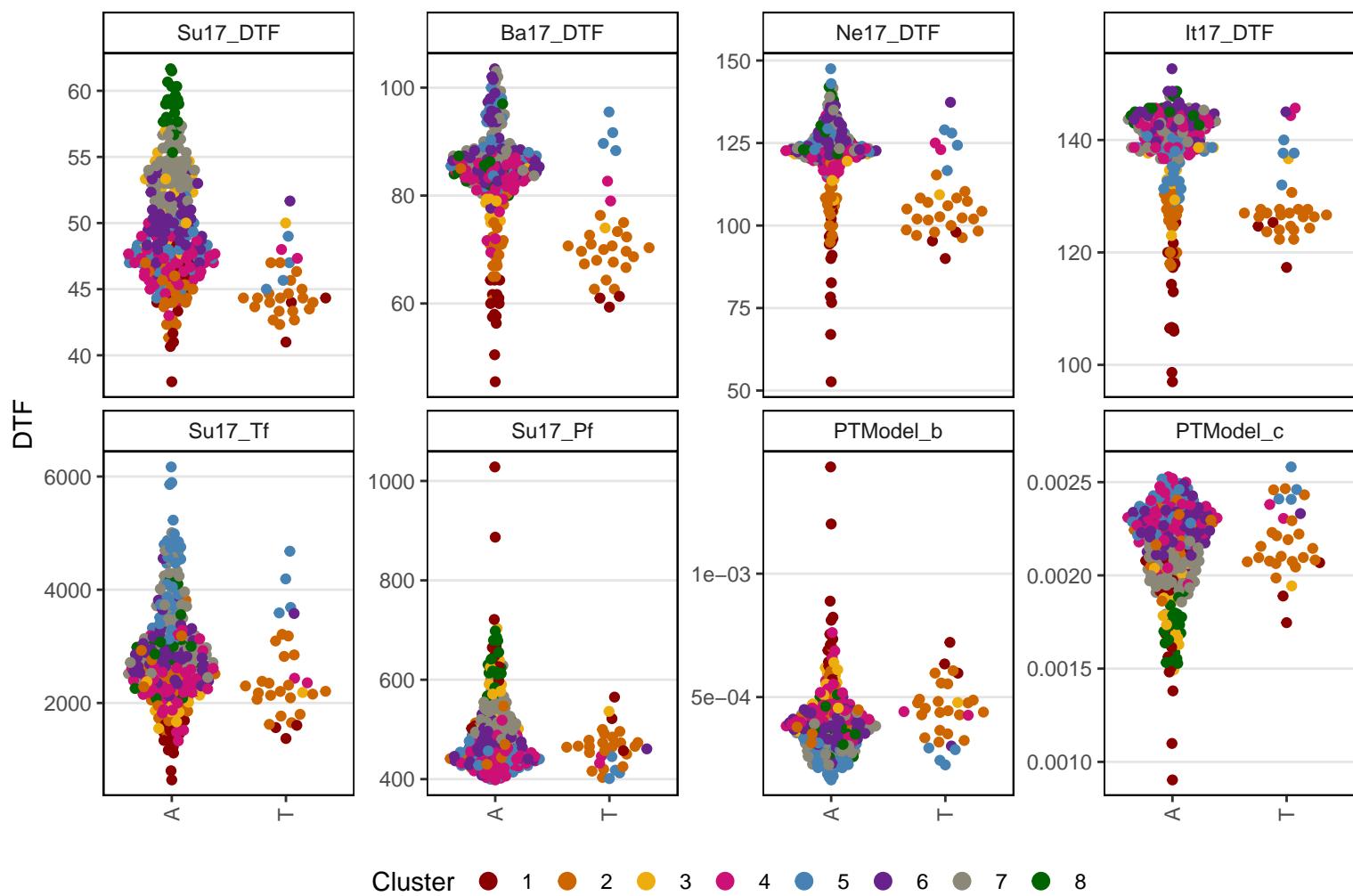


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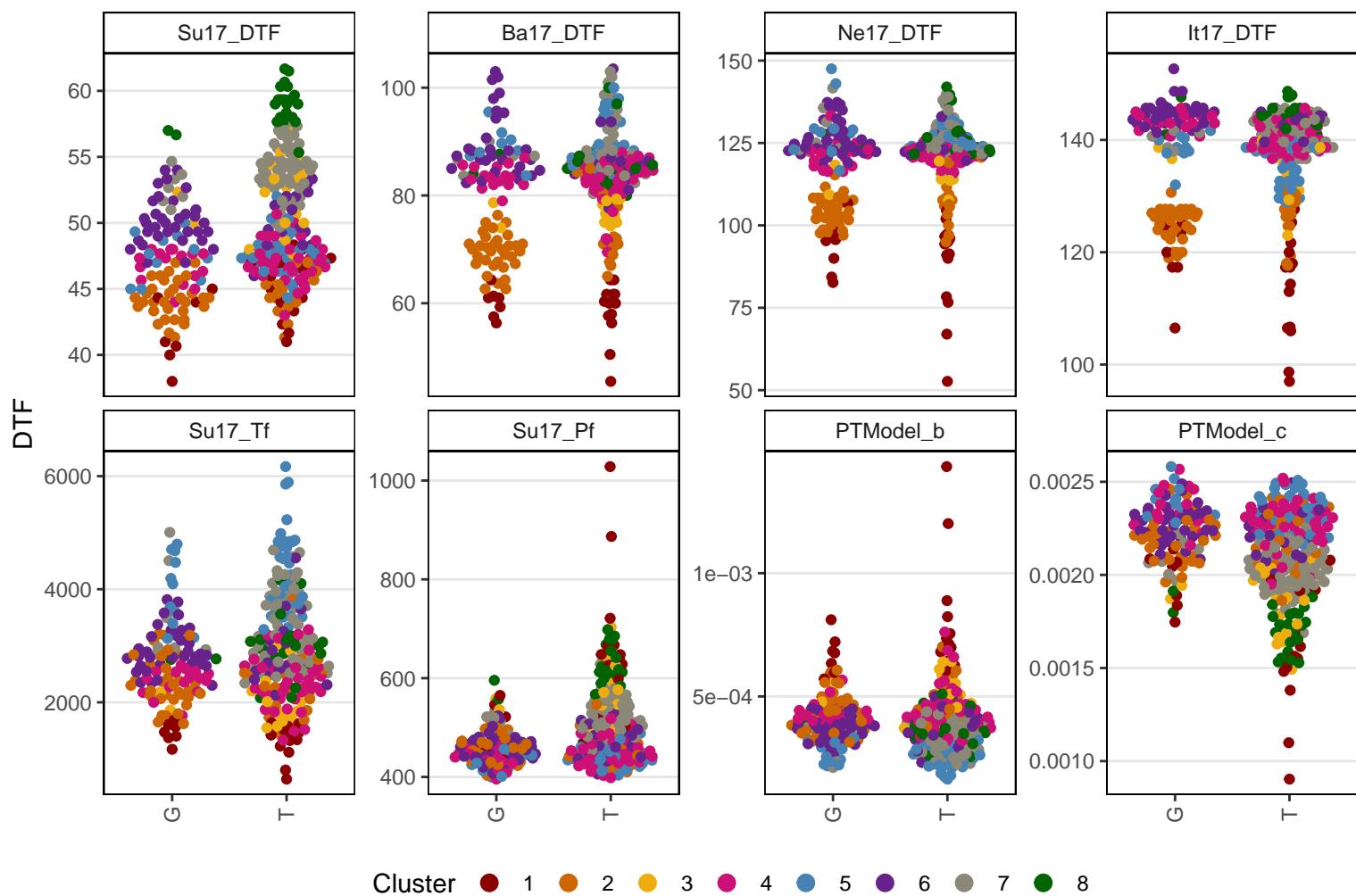


Cluster ● 1 2 3 4 5 6 7 8

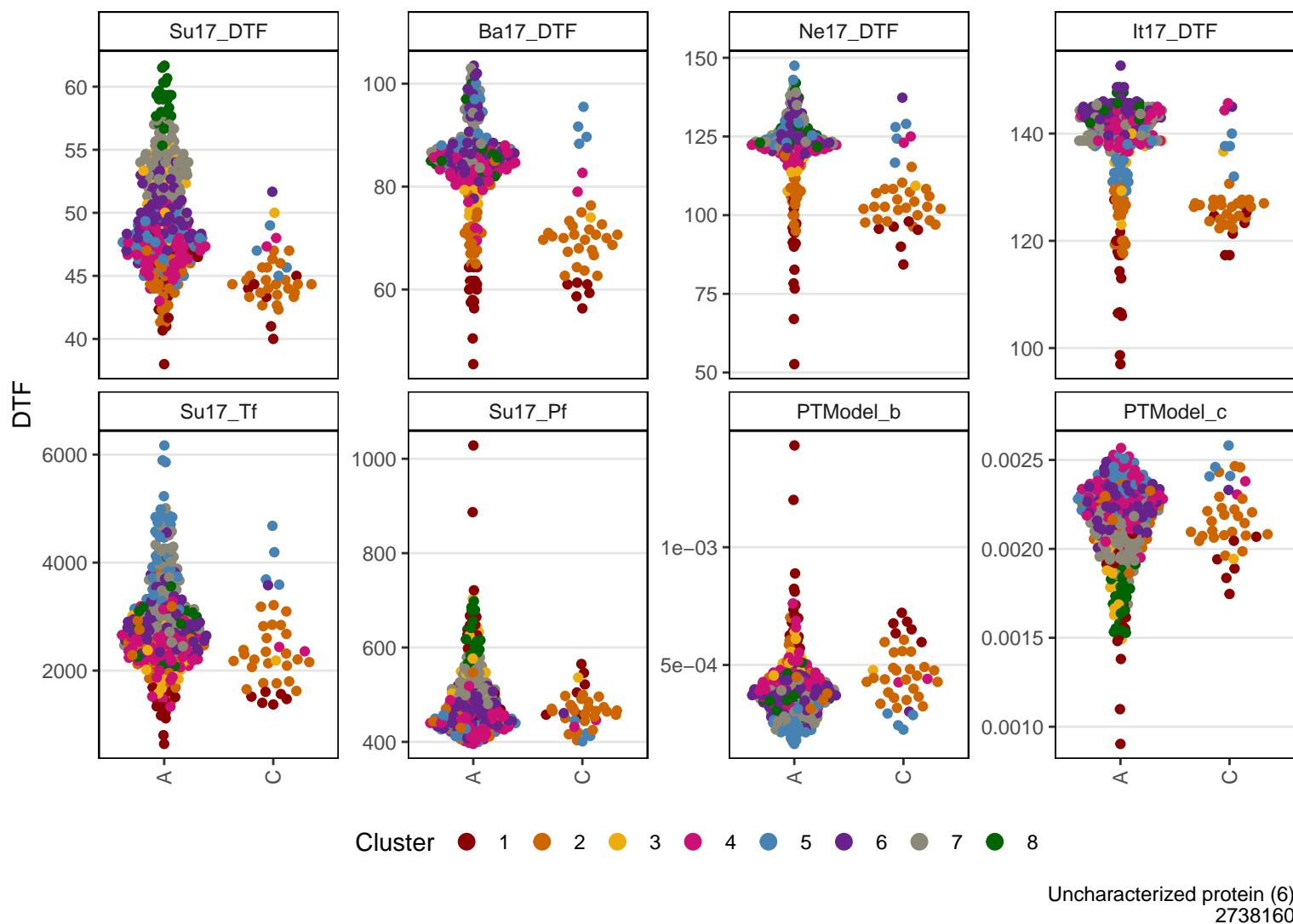
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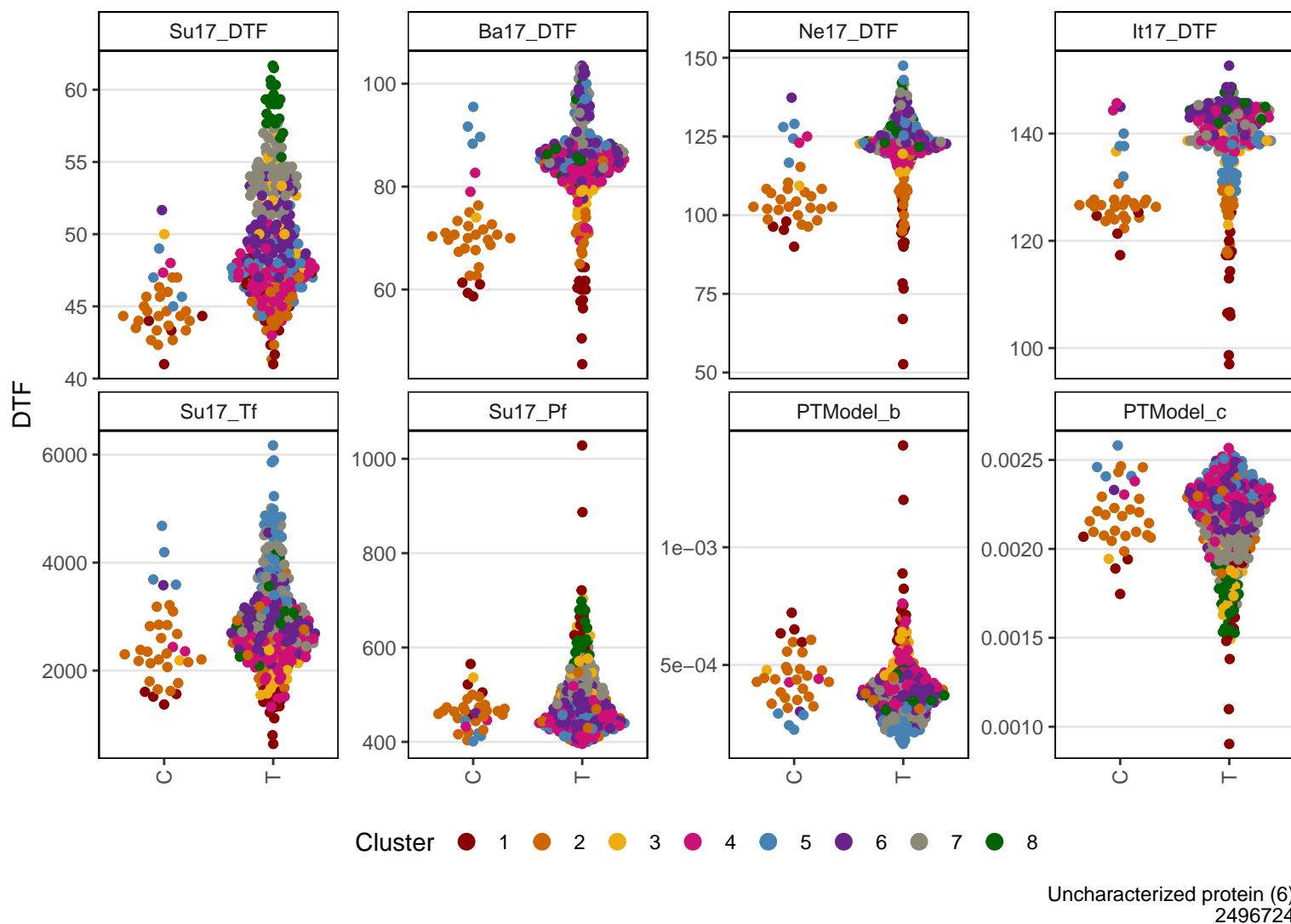
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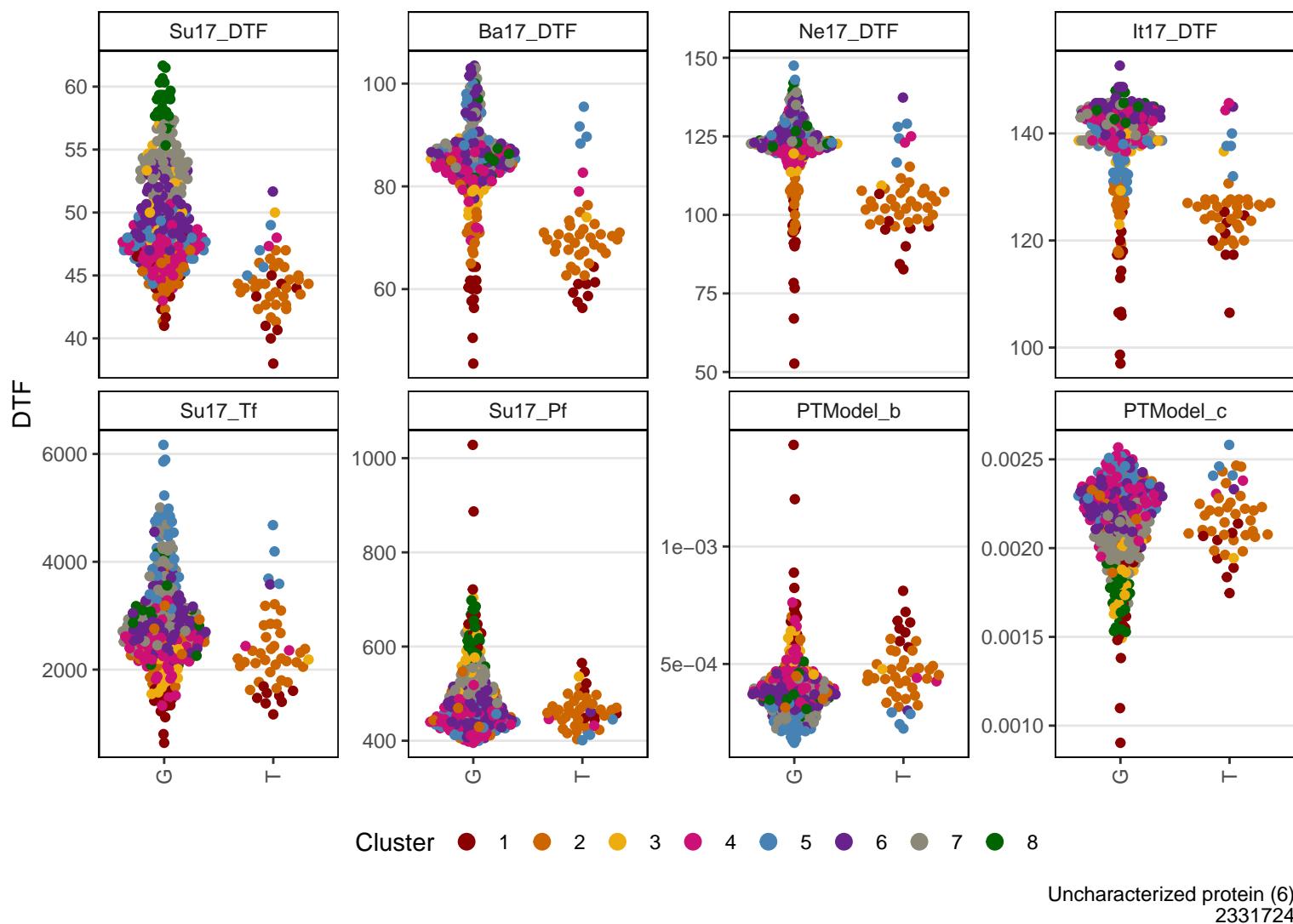
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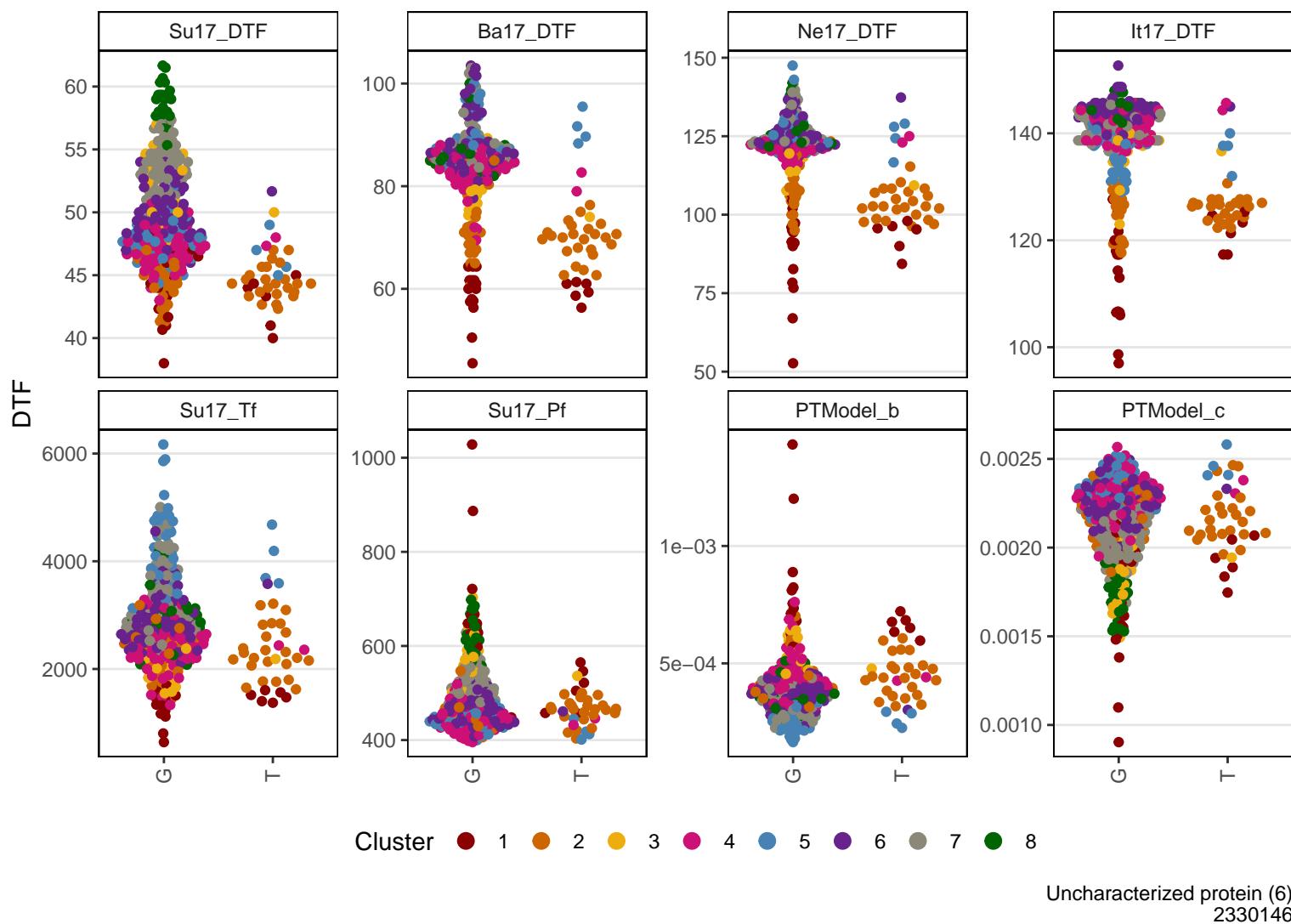
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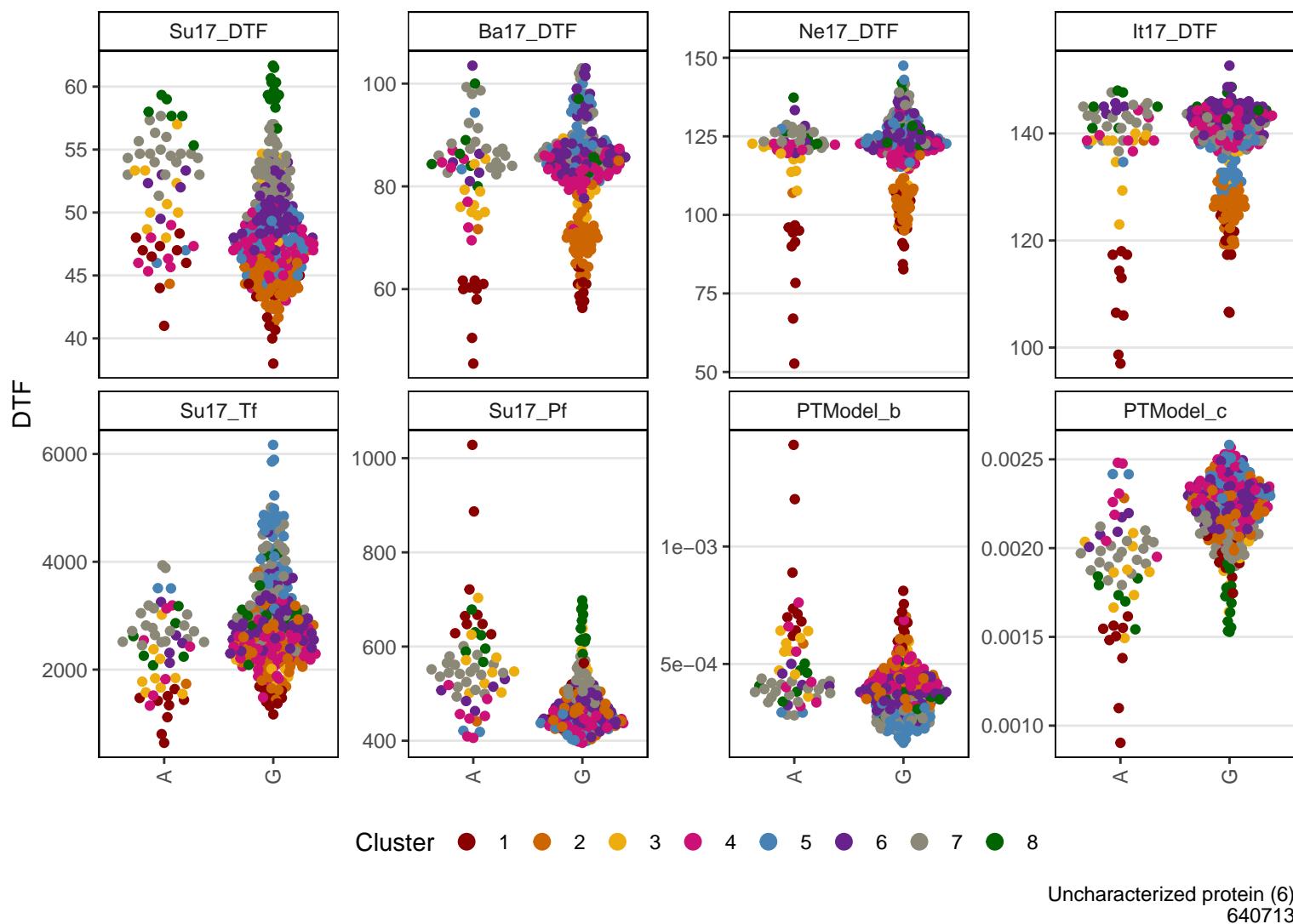
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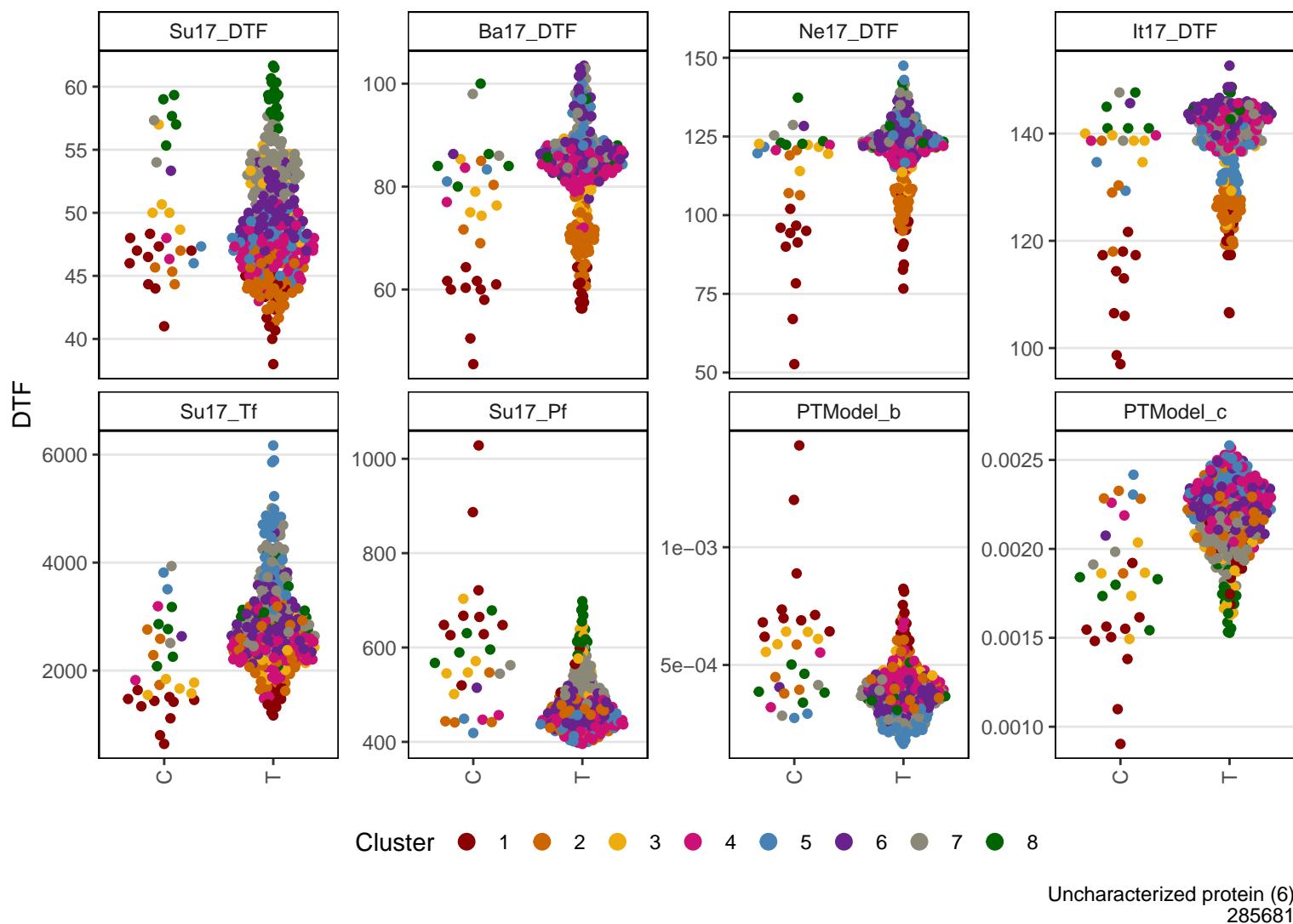
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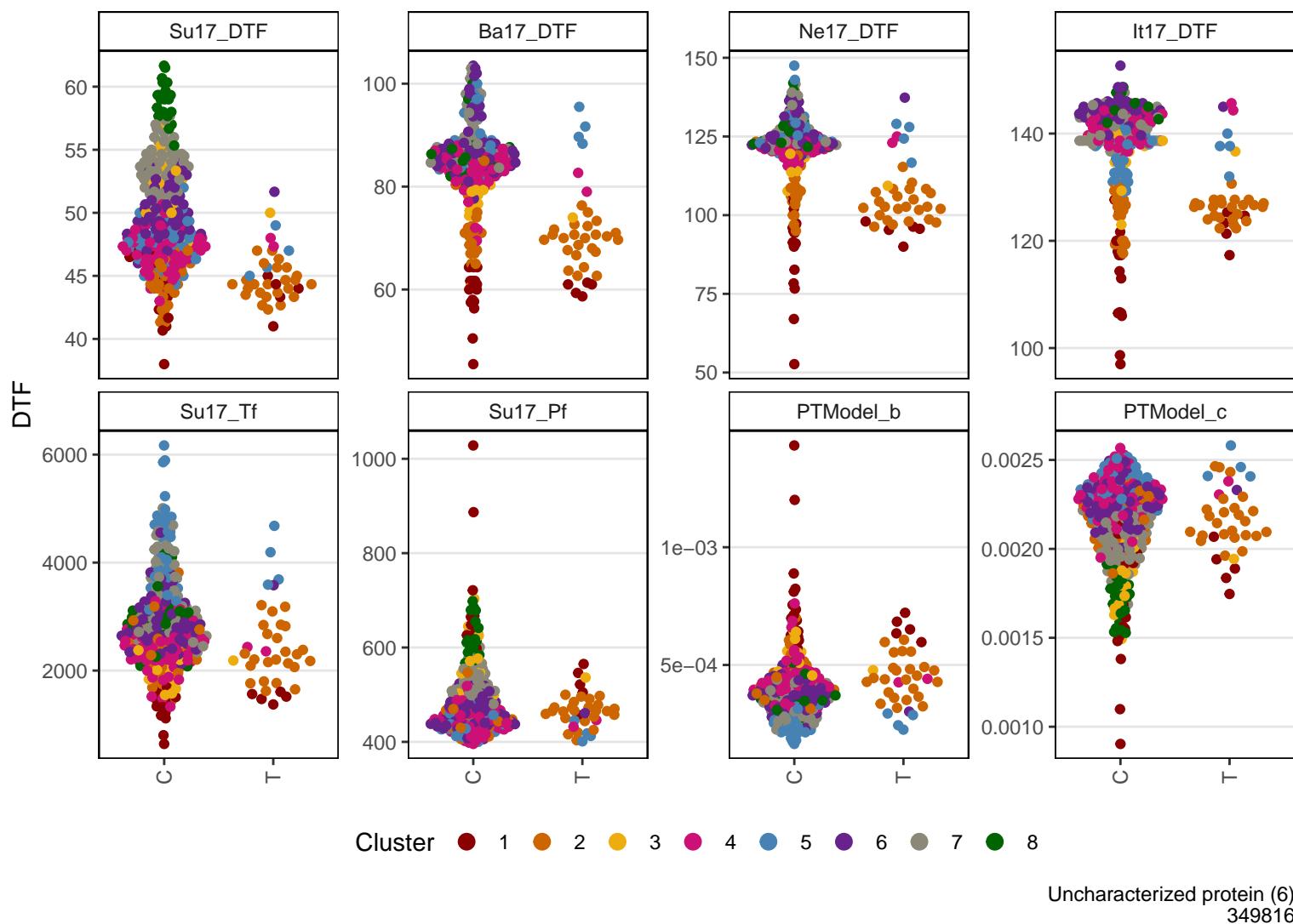
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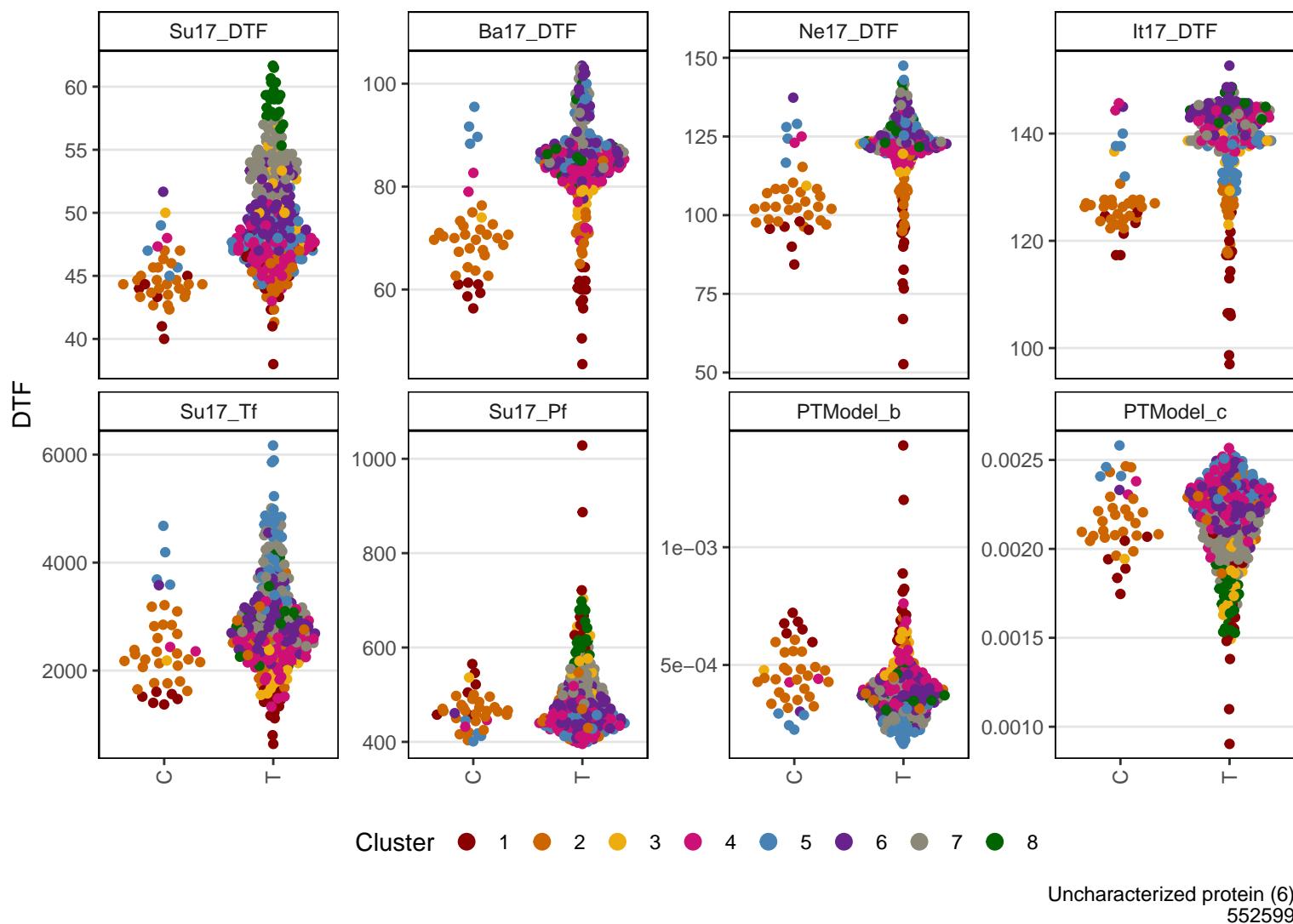
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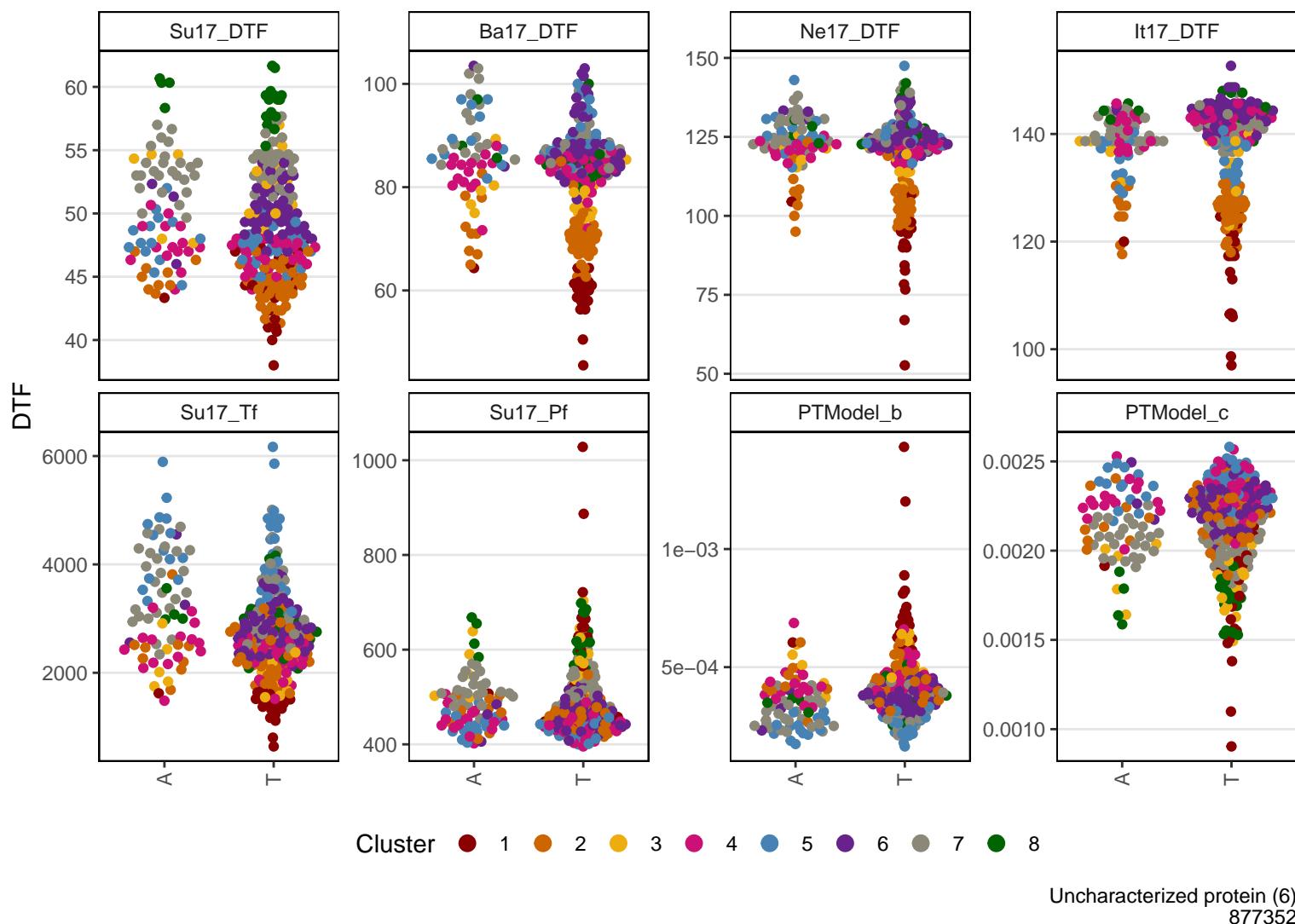
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# Lcu.2RBY.Chr3p411745250



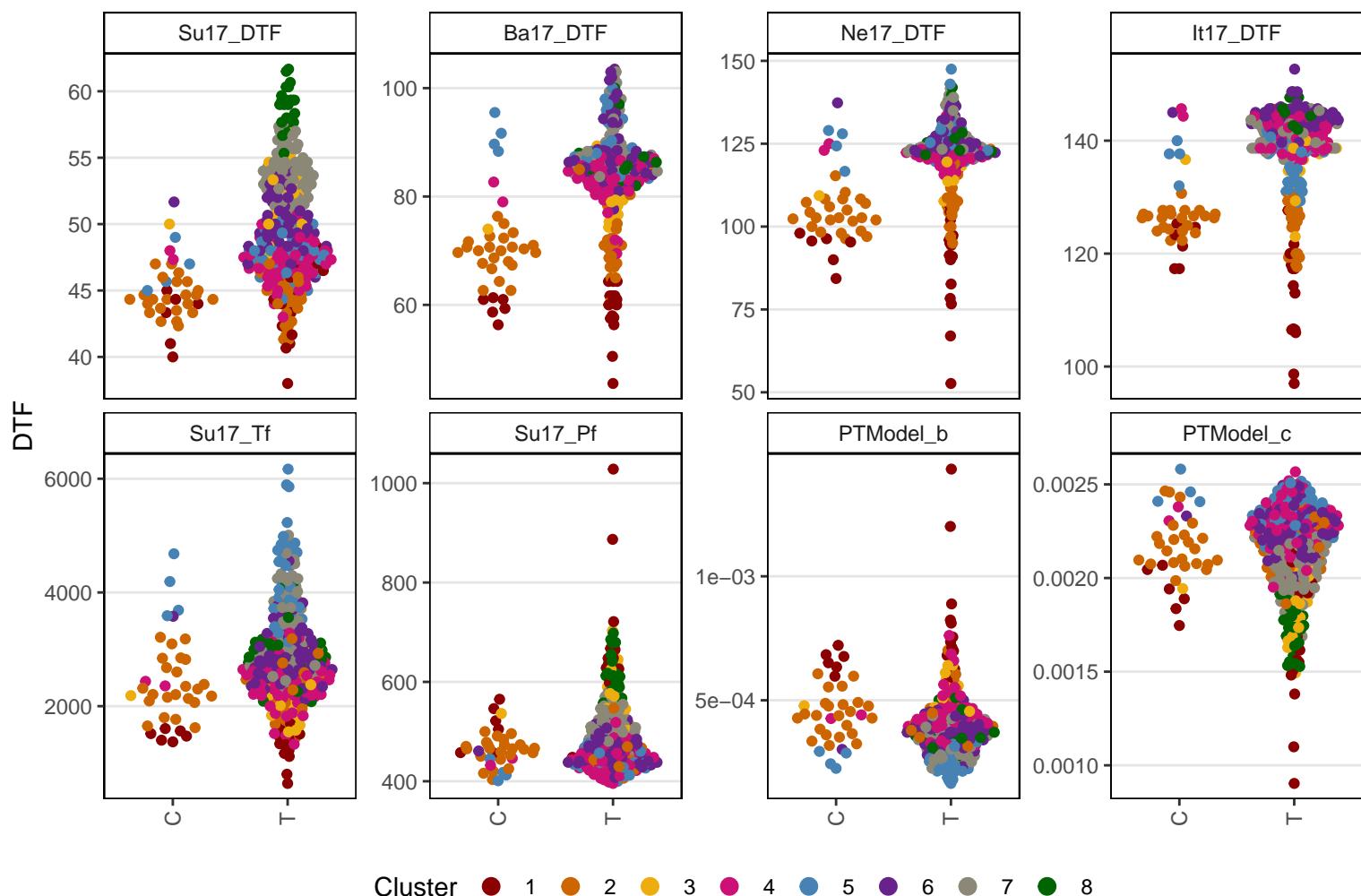
# Lcu.2RBY.Chr3p412070003



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

Uncharacterized protein (6)  
877352

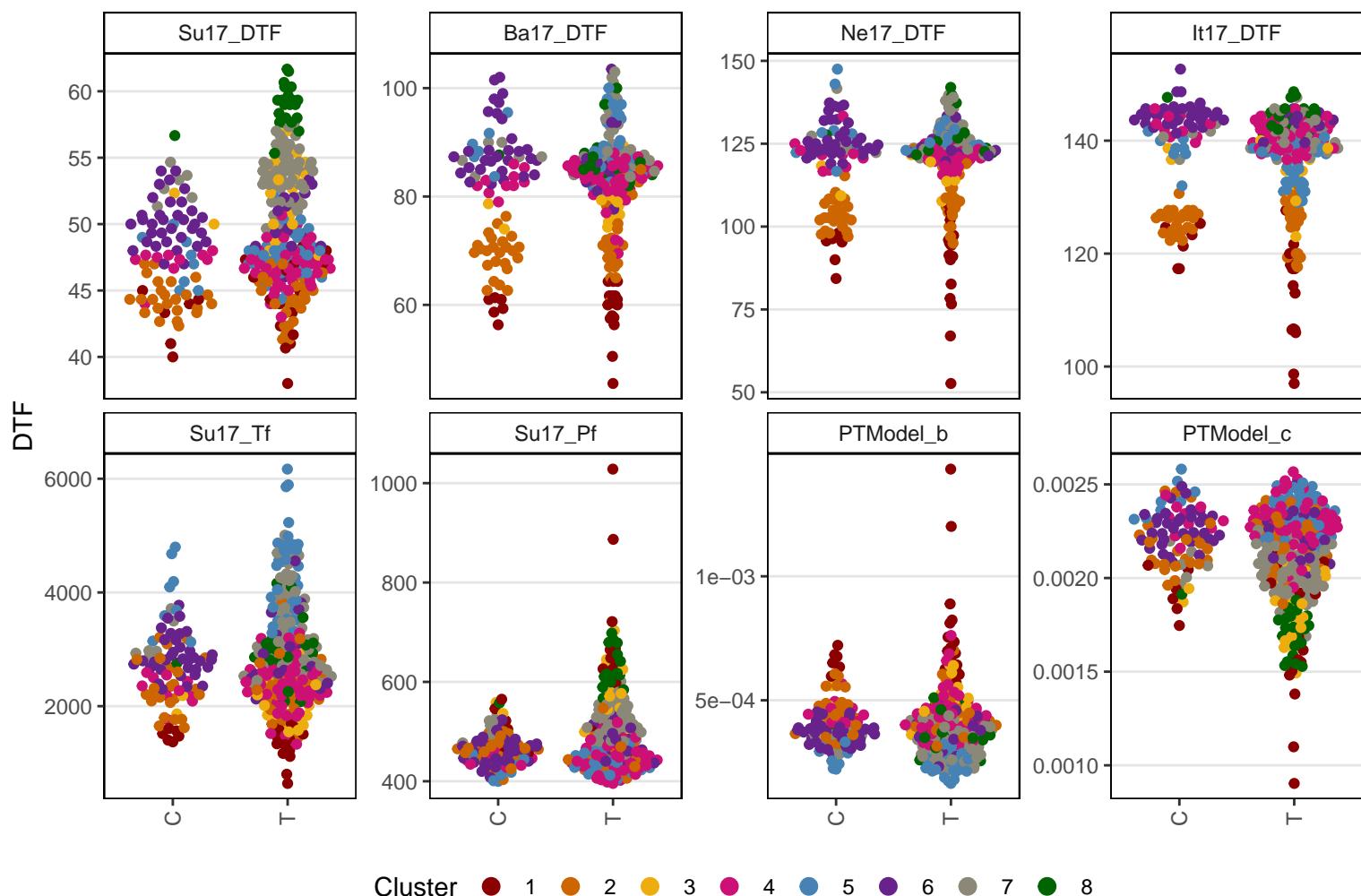
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Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

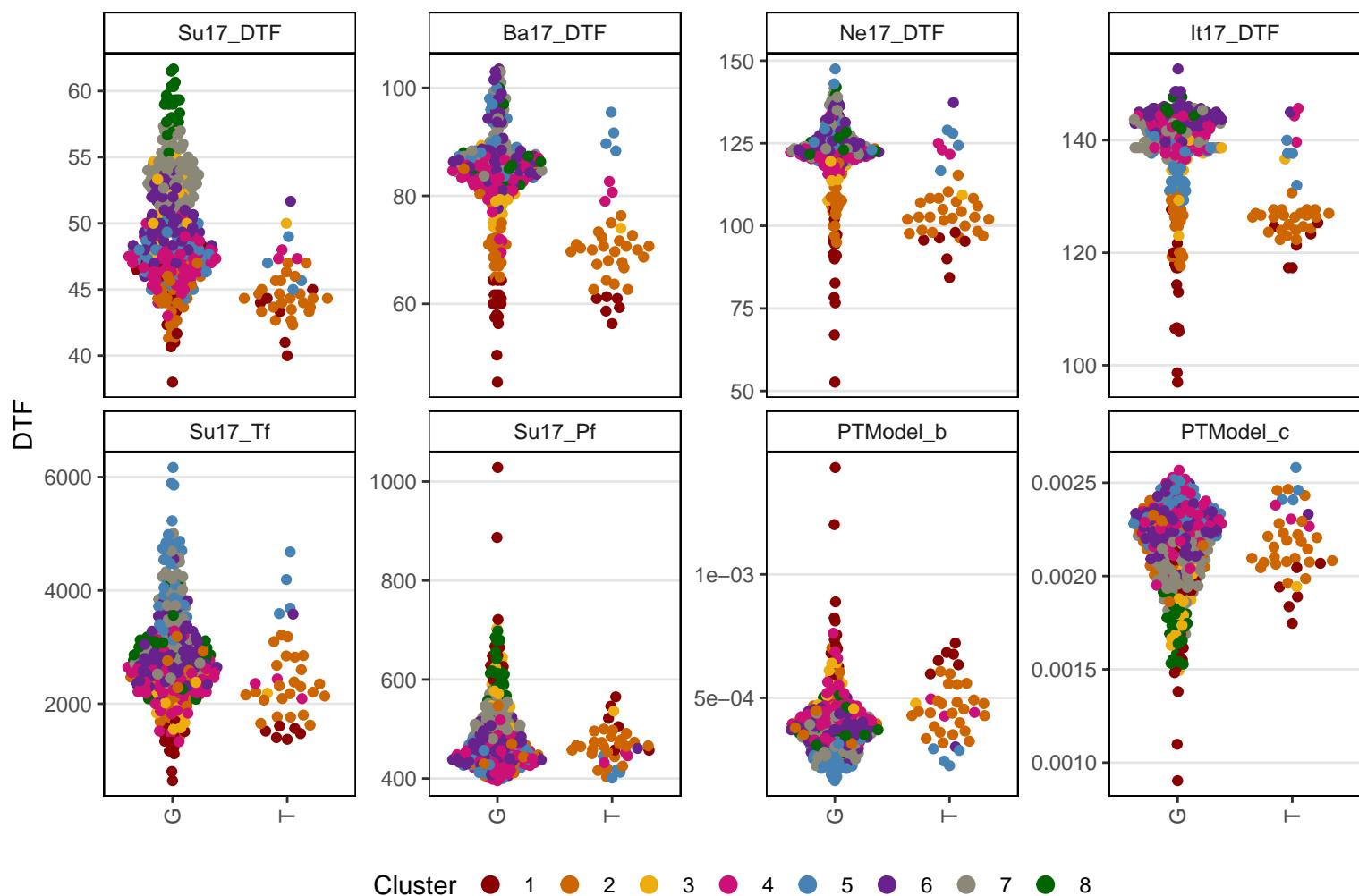
LcAP3a ; Uncharacterized protein (6)  
2832394 ; 2959760

# Lcu.2RBY.Chr3p414178317



LcAP3a ; Uncharacterized protein (6)  
2806488 ; 2985666

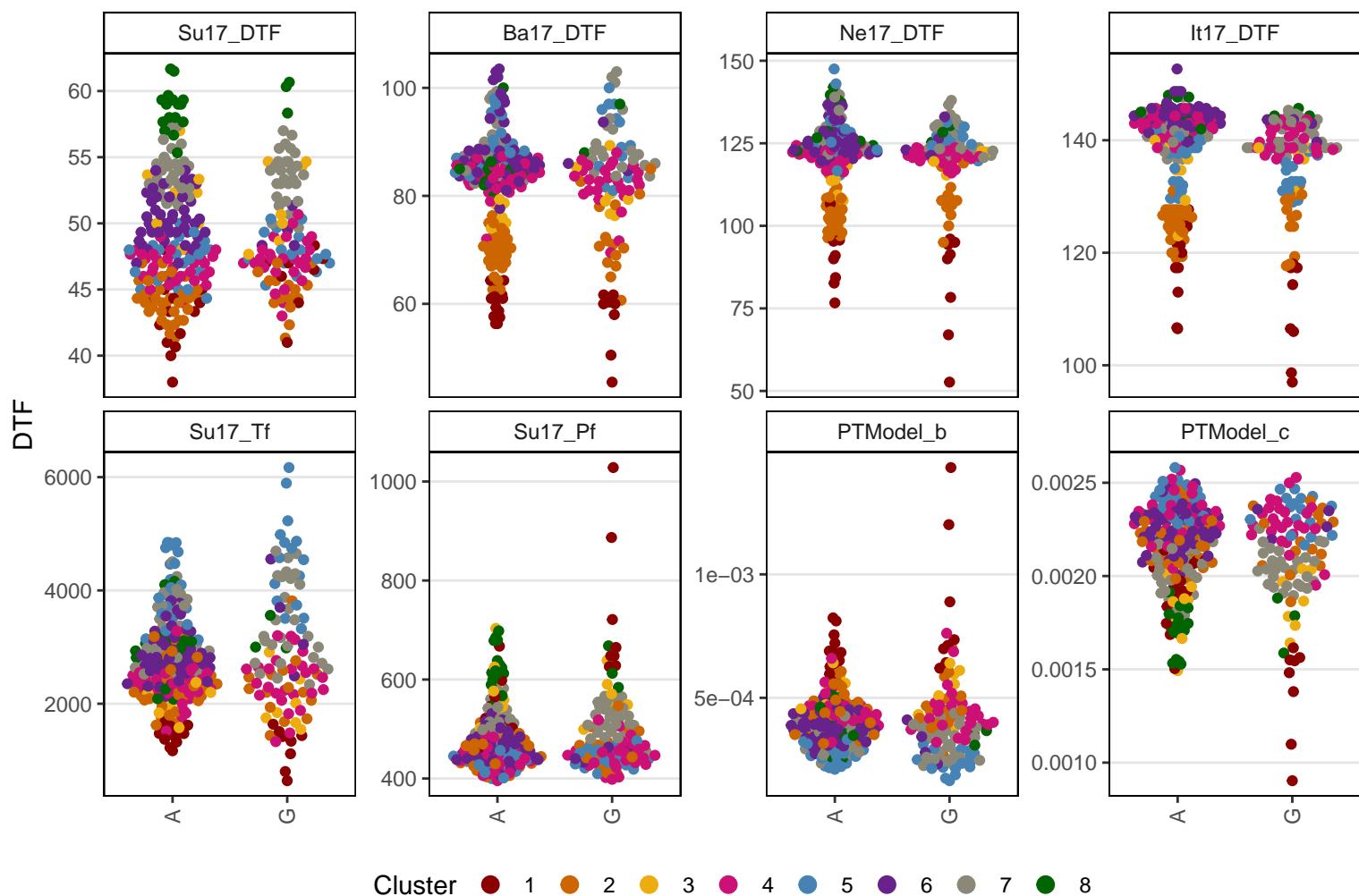
# Lcu.2RBY.Chr3p414187054



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

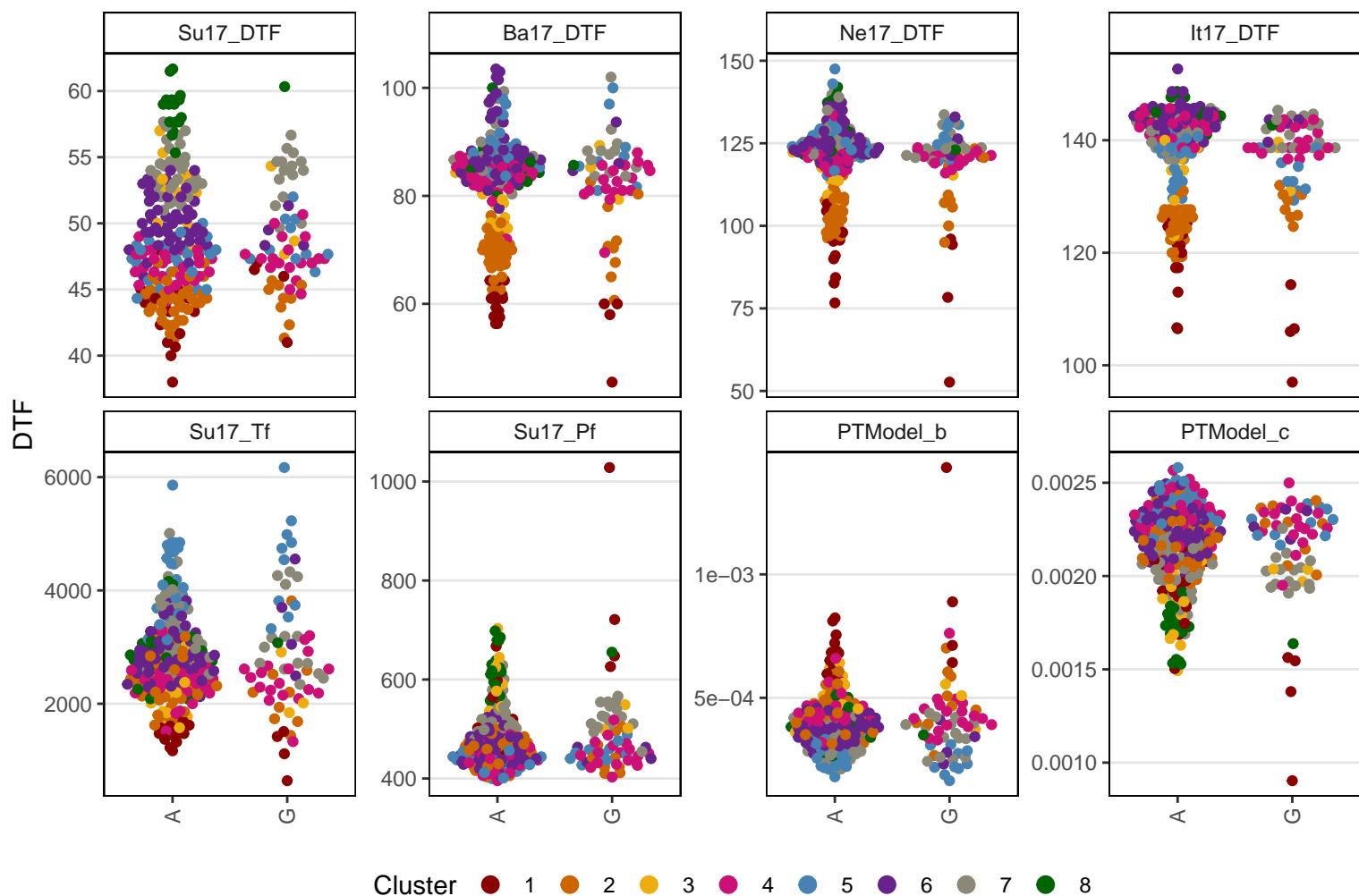
LcAP3a ; Uncharacterized protein (6)  
2797751 ; 2994403

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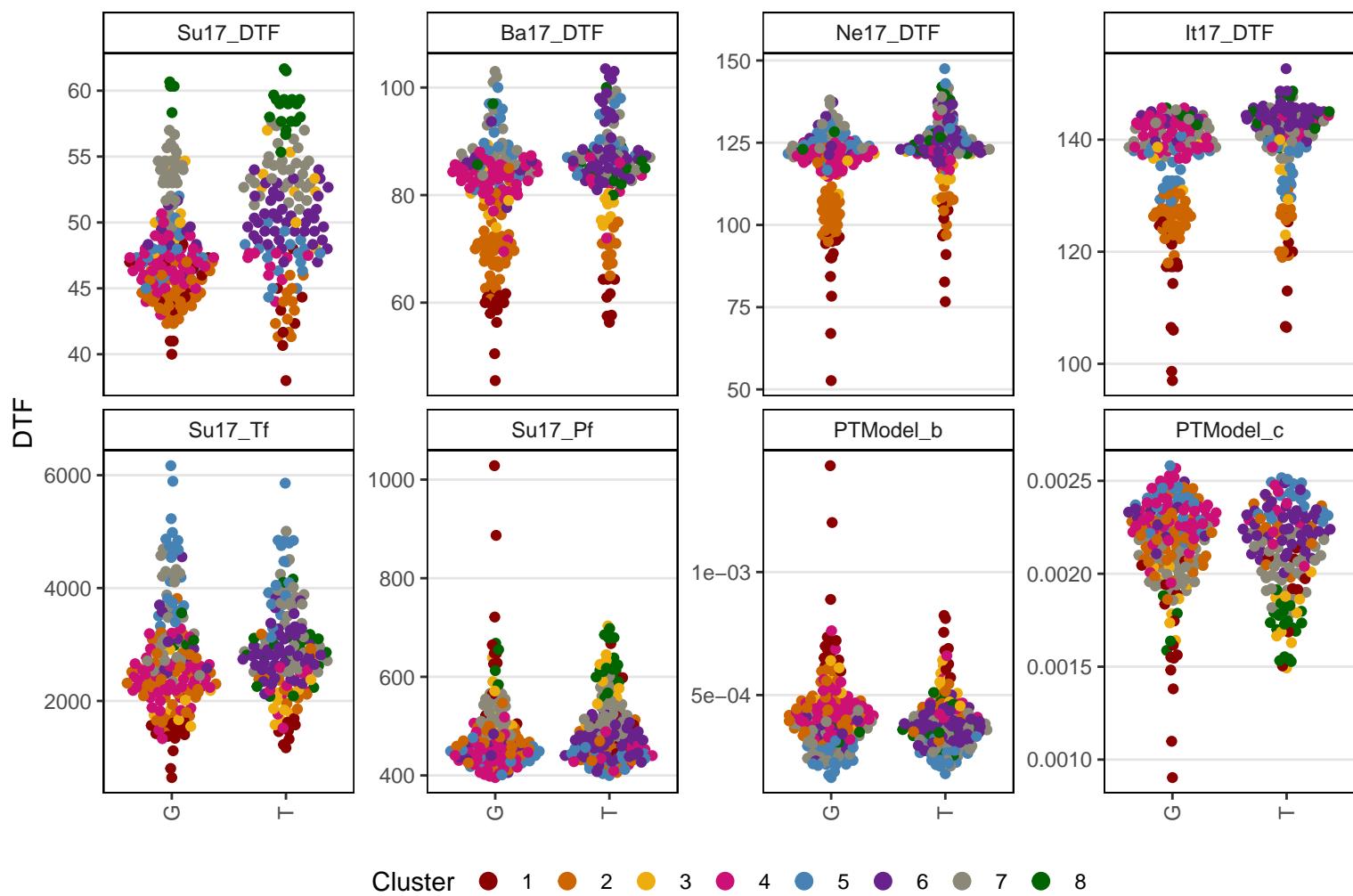


Cluster ● 1 2 3 4 5 6 7 8

# Lcu.2RBY.Chr3p414302867

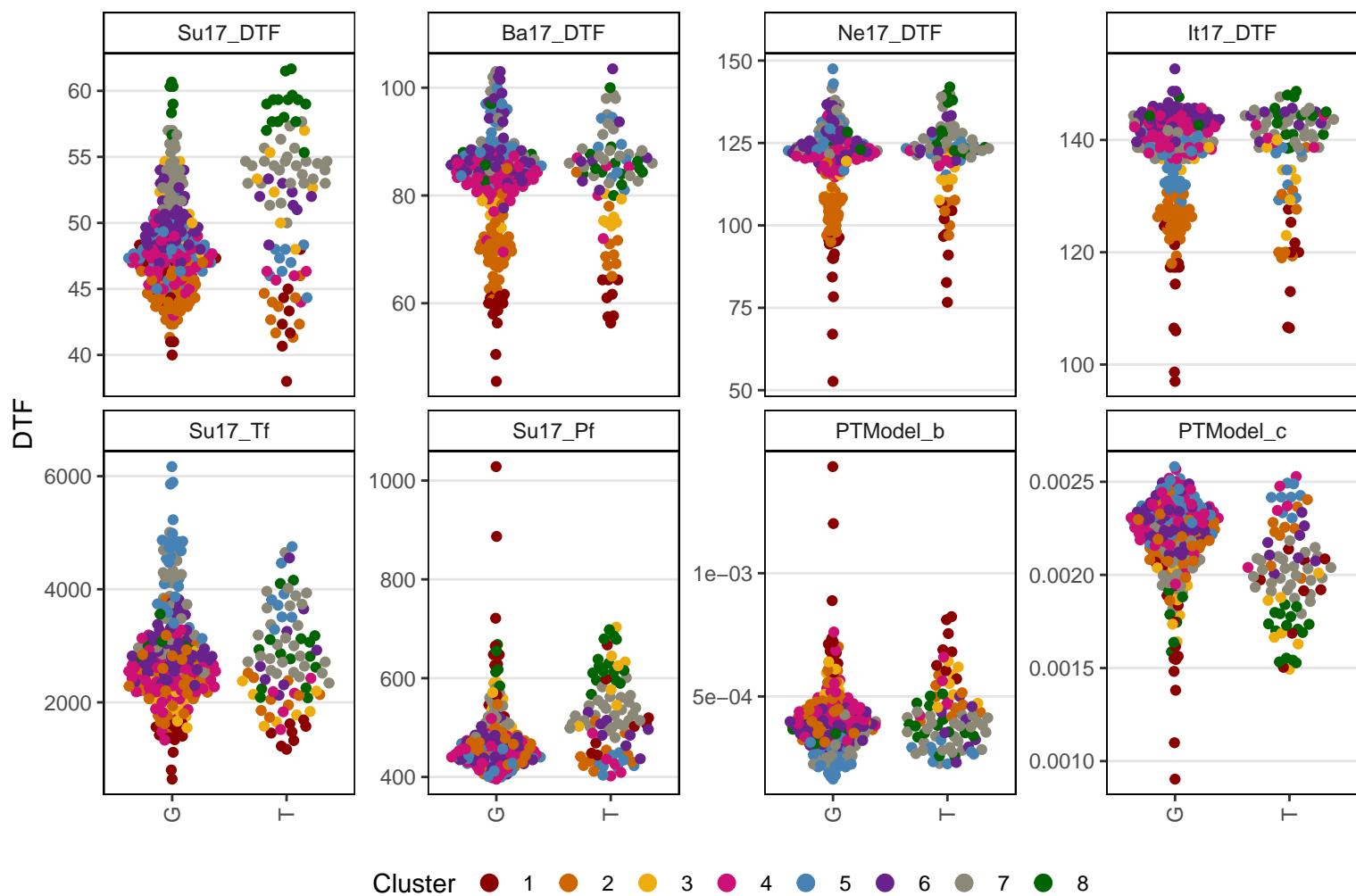


# Lcu.2RBY.Chr3p415035290



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

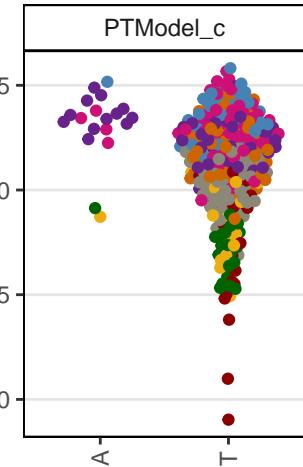
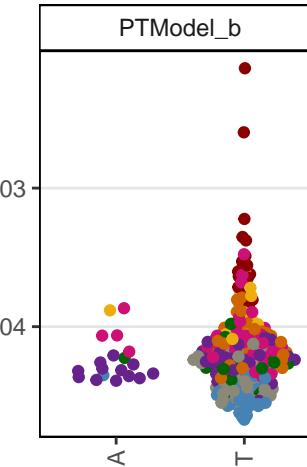
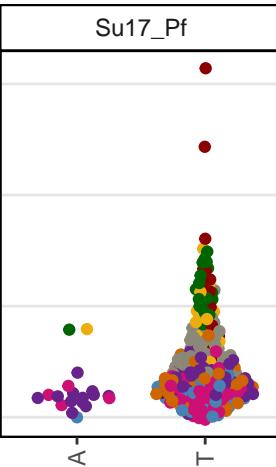
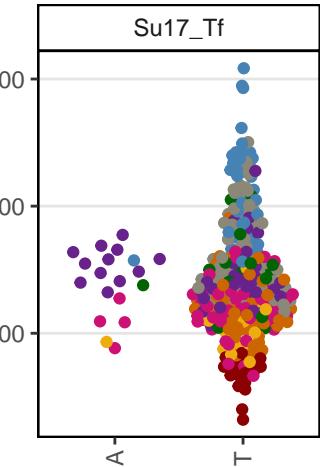
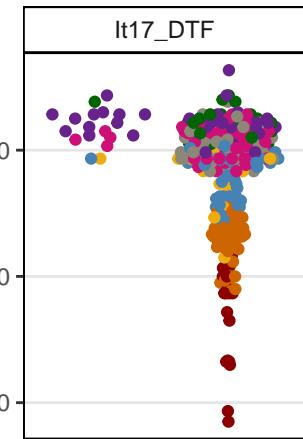
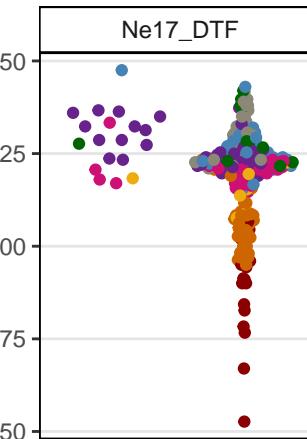
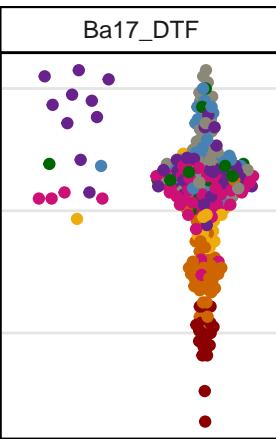
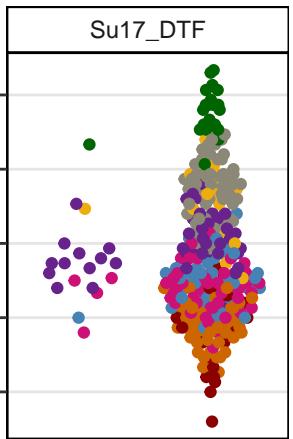
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Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

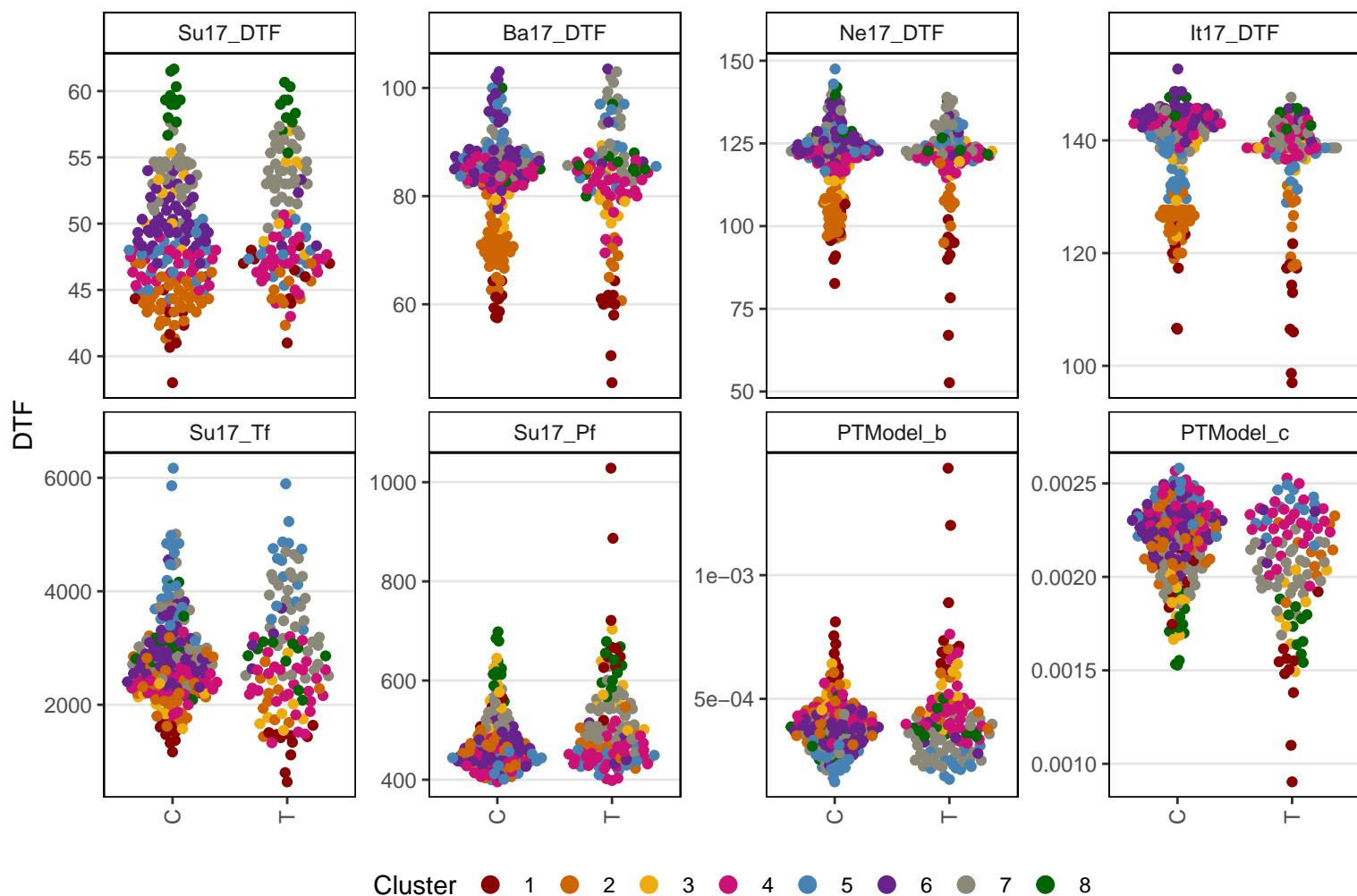
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DTF



Cluster 1 2 3 4 5 6 7 8

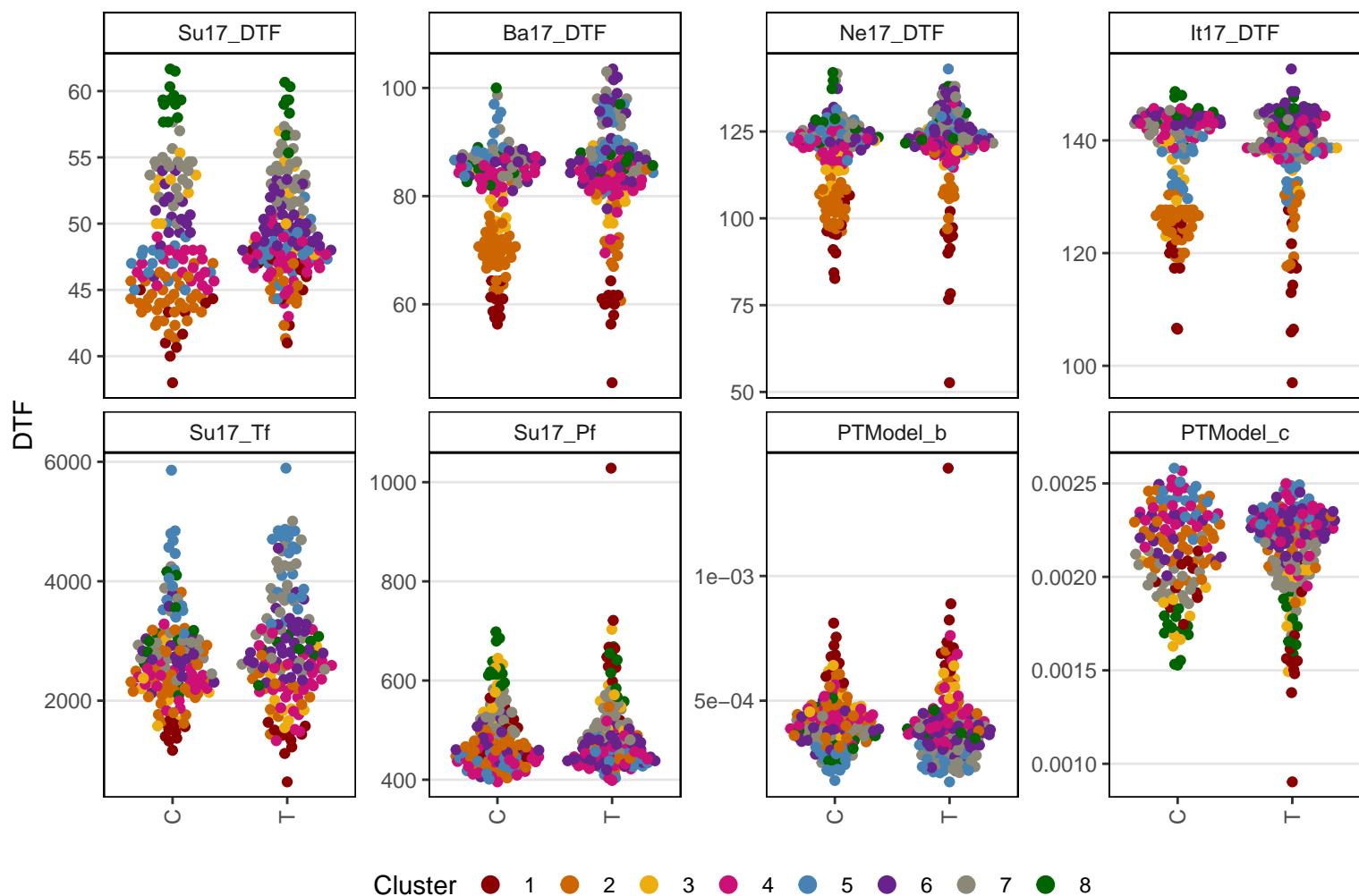
# Lcu.2RBY.Chr3p417335563



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

LcAP3a ; Methyltransferase  
350758 ; 2485160

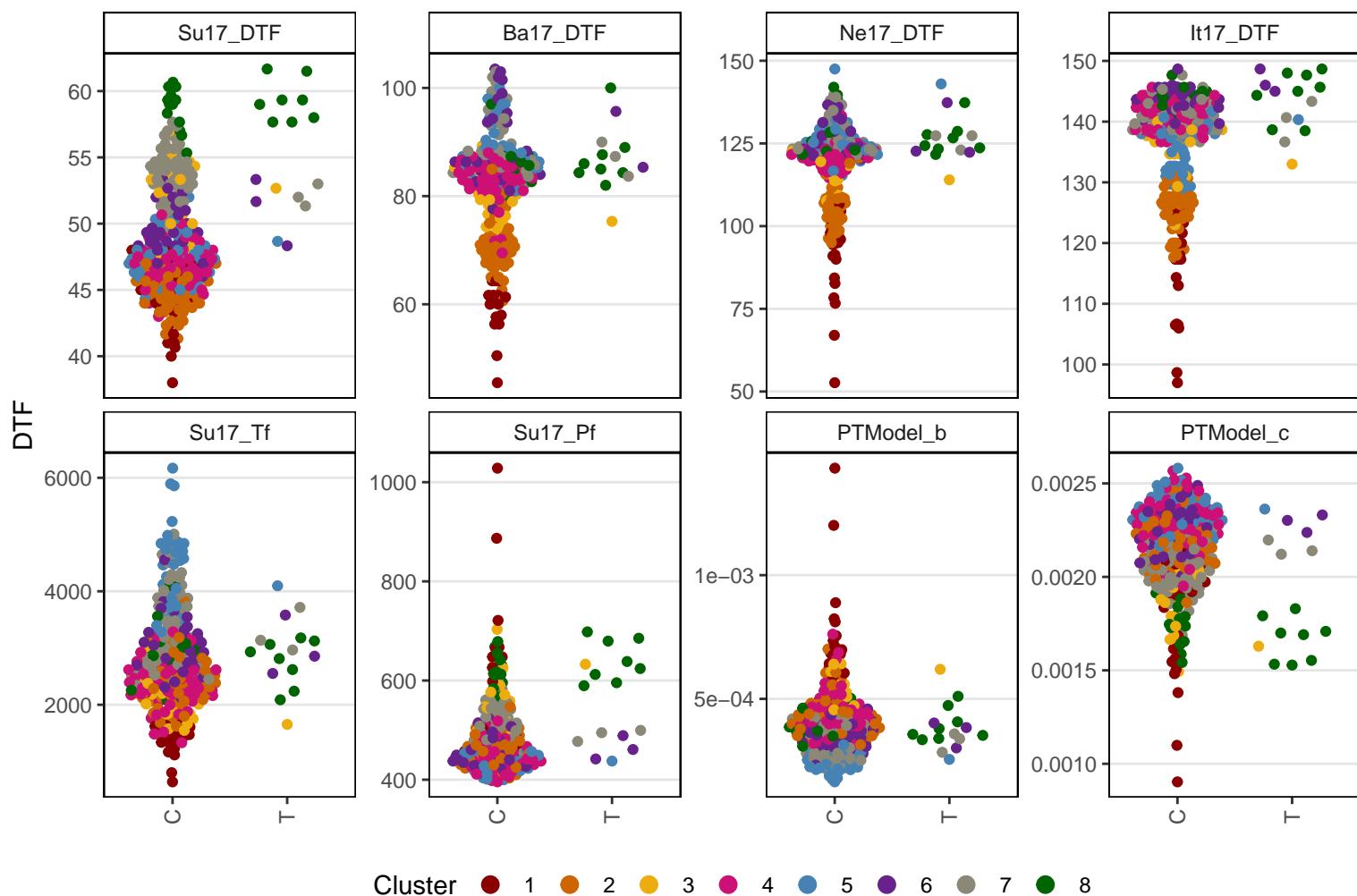
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Cluster    1    2    3    4    5    6    7    8

LcAP3a ; Methyltransferase  
449477 ; 2386441

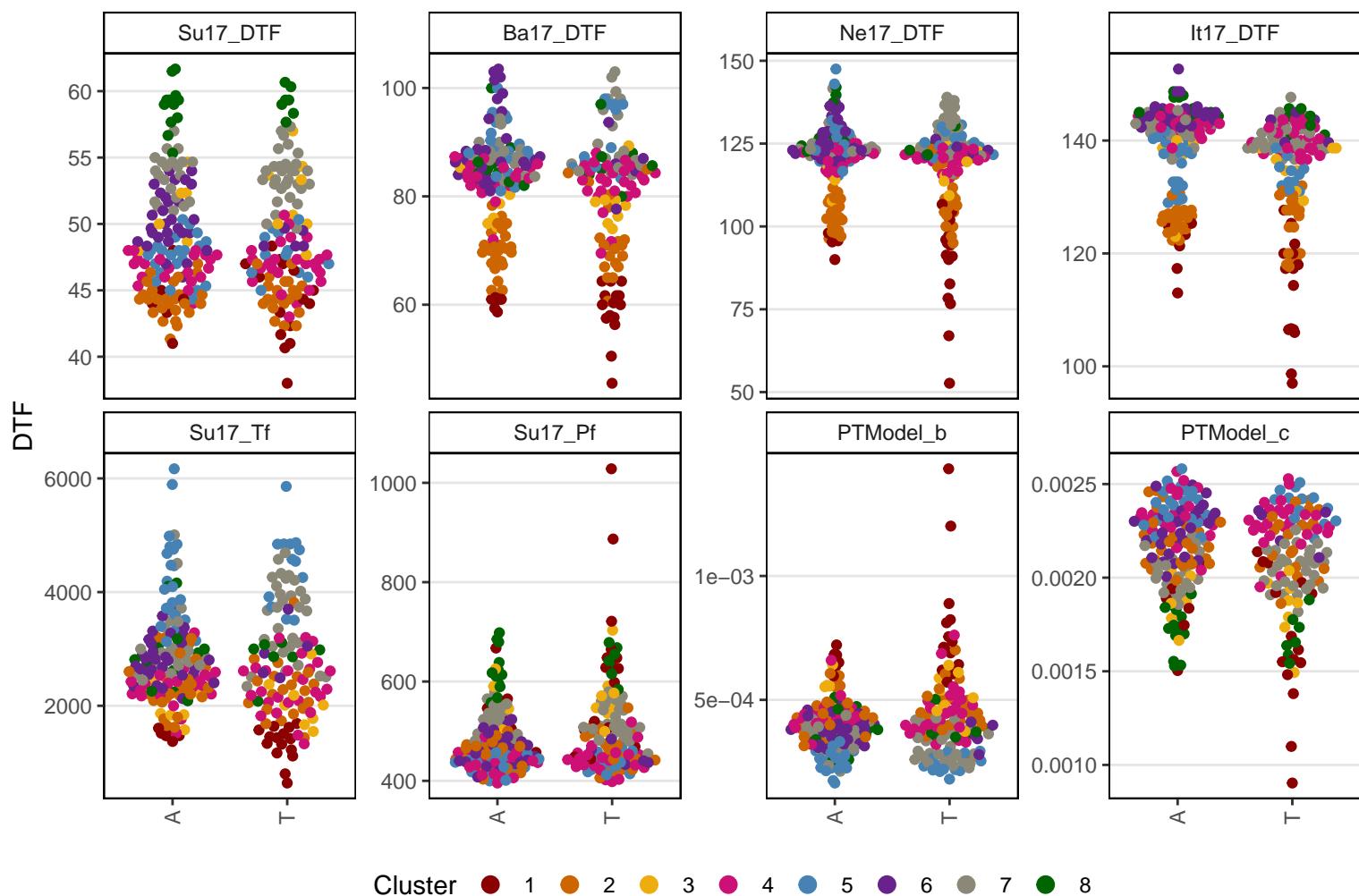
# Lcu.2RBY.Chr3p417877296



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

LcAP3a ; Methyltransferase  
892491 ; 1943427

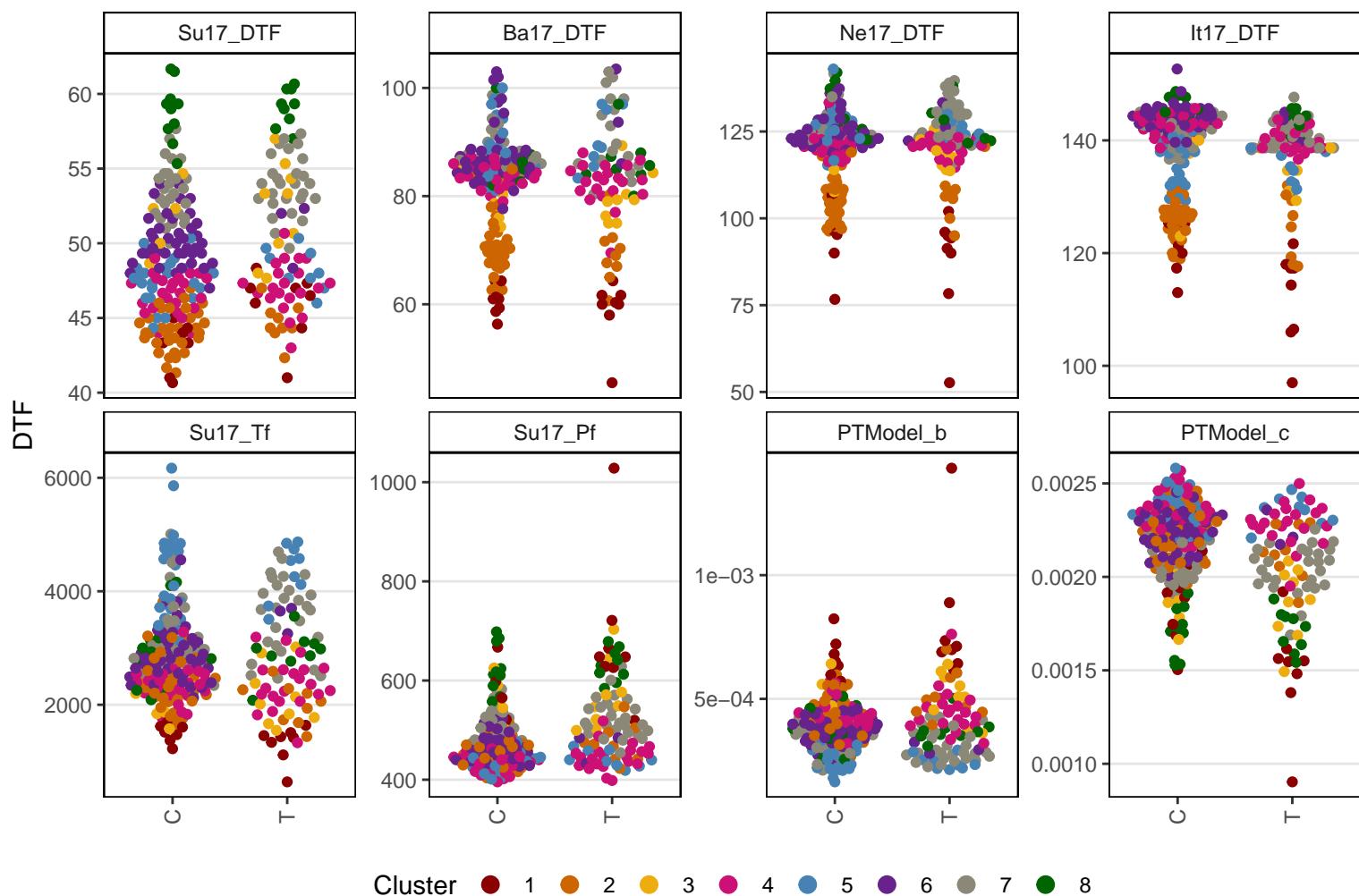
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Cluster ● 1 2 3 4 5 6 7 8

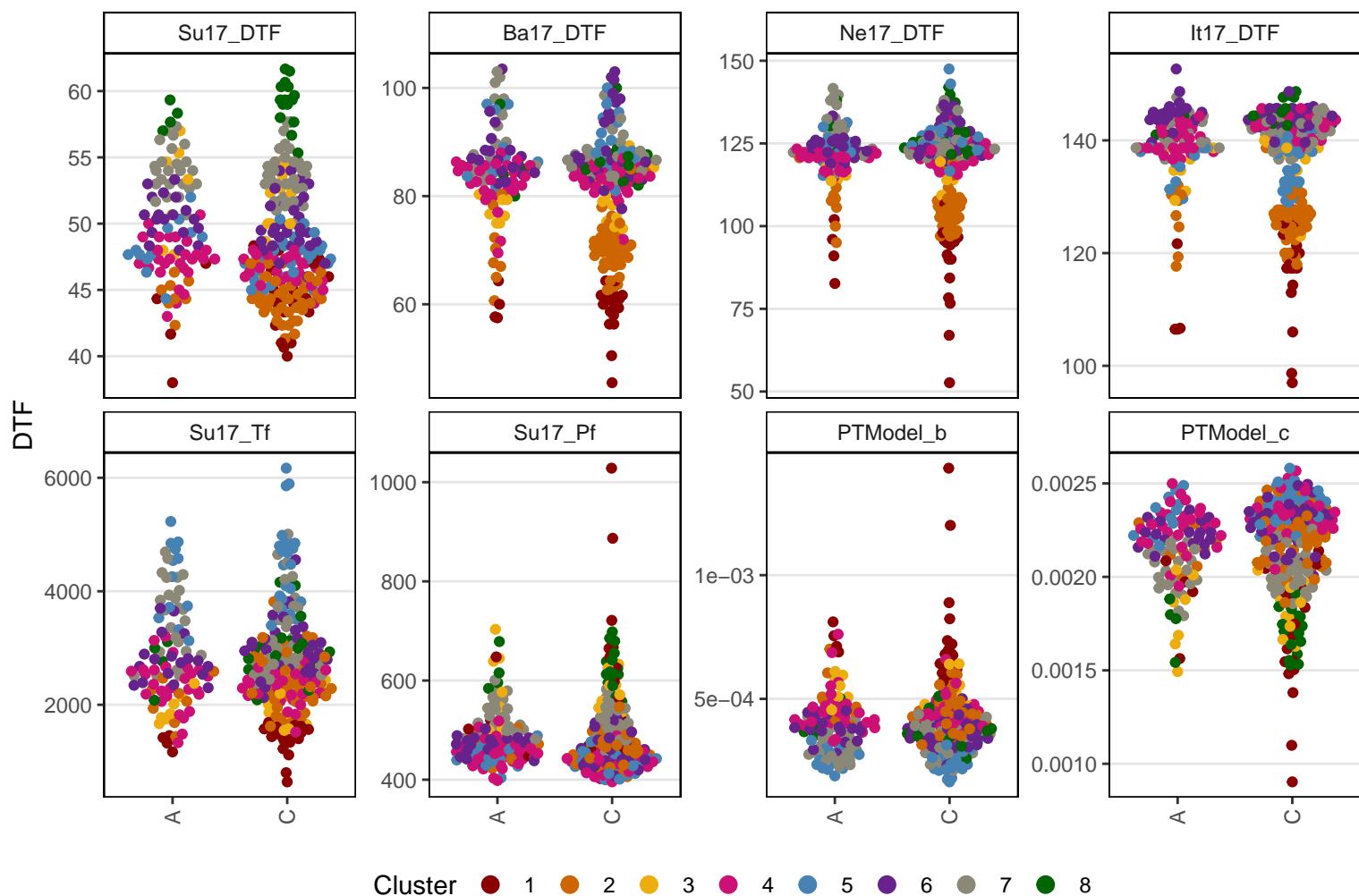
Methyltransferase ; LcAP3a  
439450 ; 2396468

# Lcu.2RBY.Chr3p419389632



Methyltransferase ; LcAP3a  
431091 ; 2404827

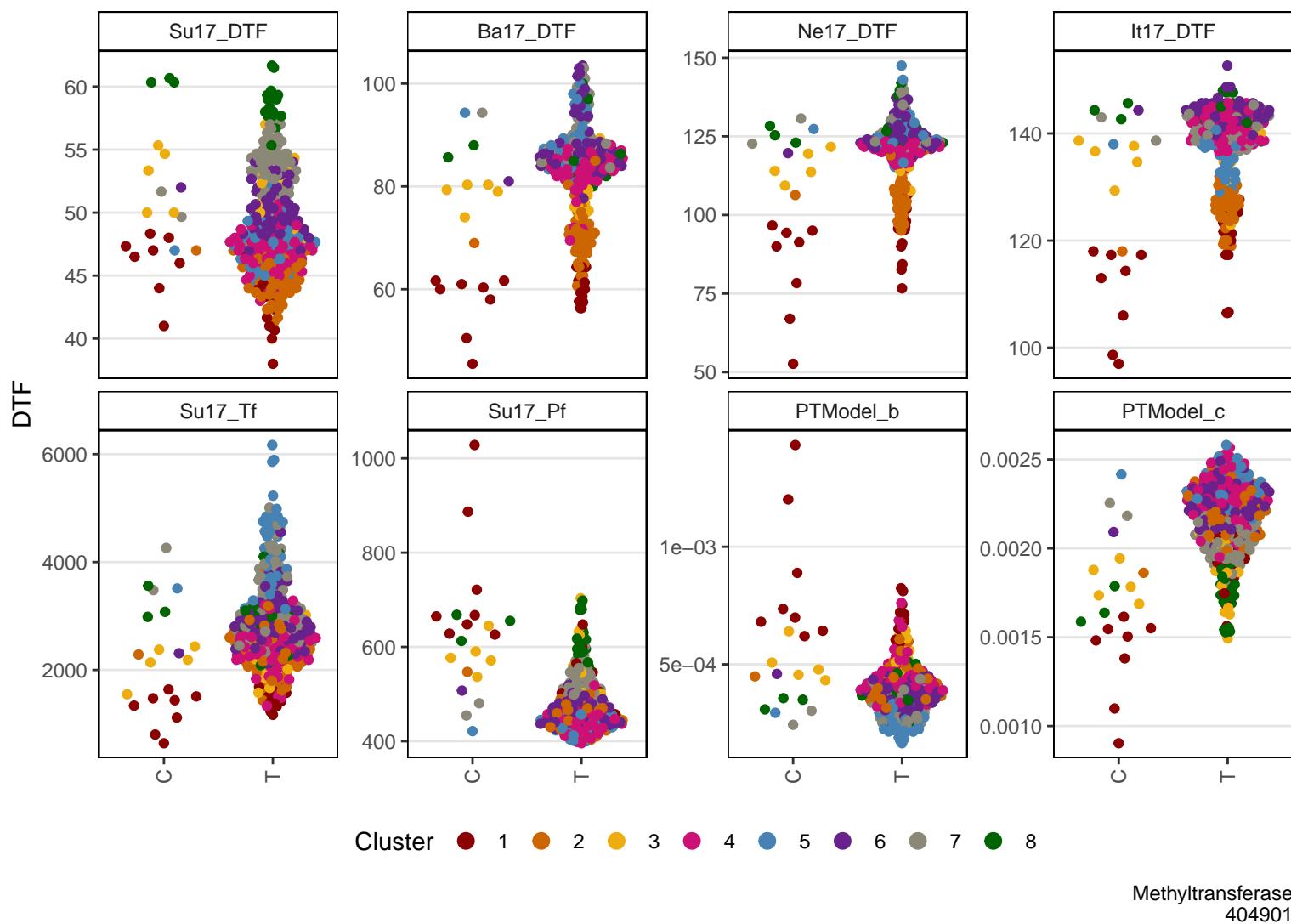
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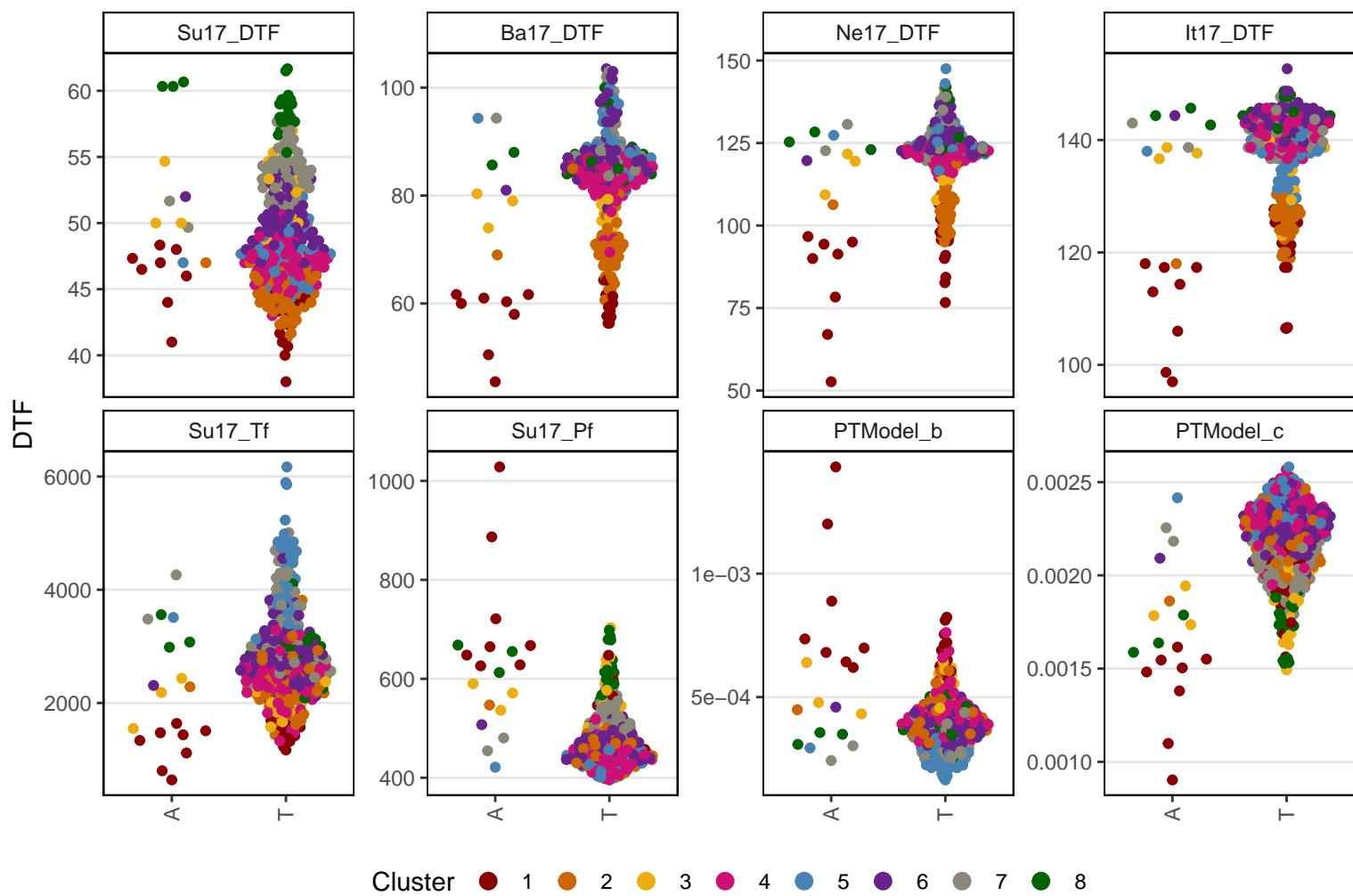
Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

Methyltransferase ; LcAP3a  
123945 ; 2711973

# Lcu.2RBY.Chr3p420225624



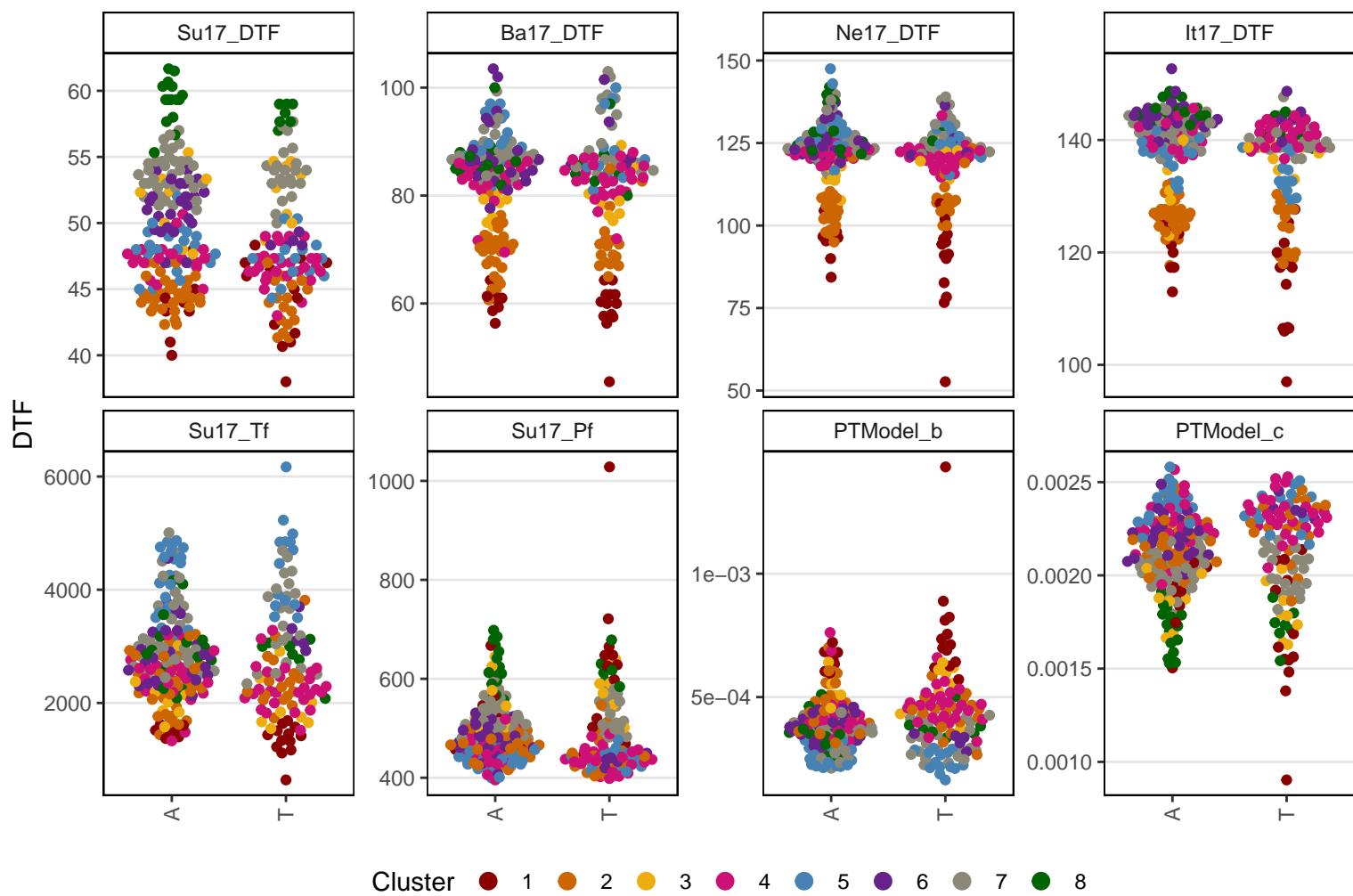
Lcu.2RBY.Chr3p420421917



Cluster 1 2 3 4 5 6 7 8

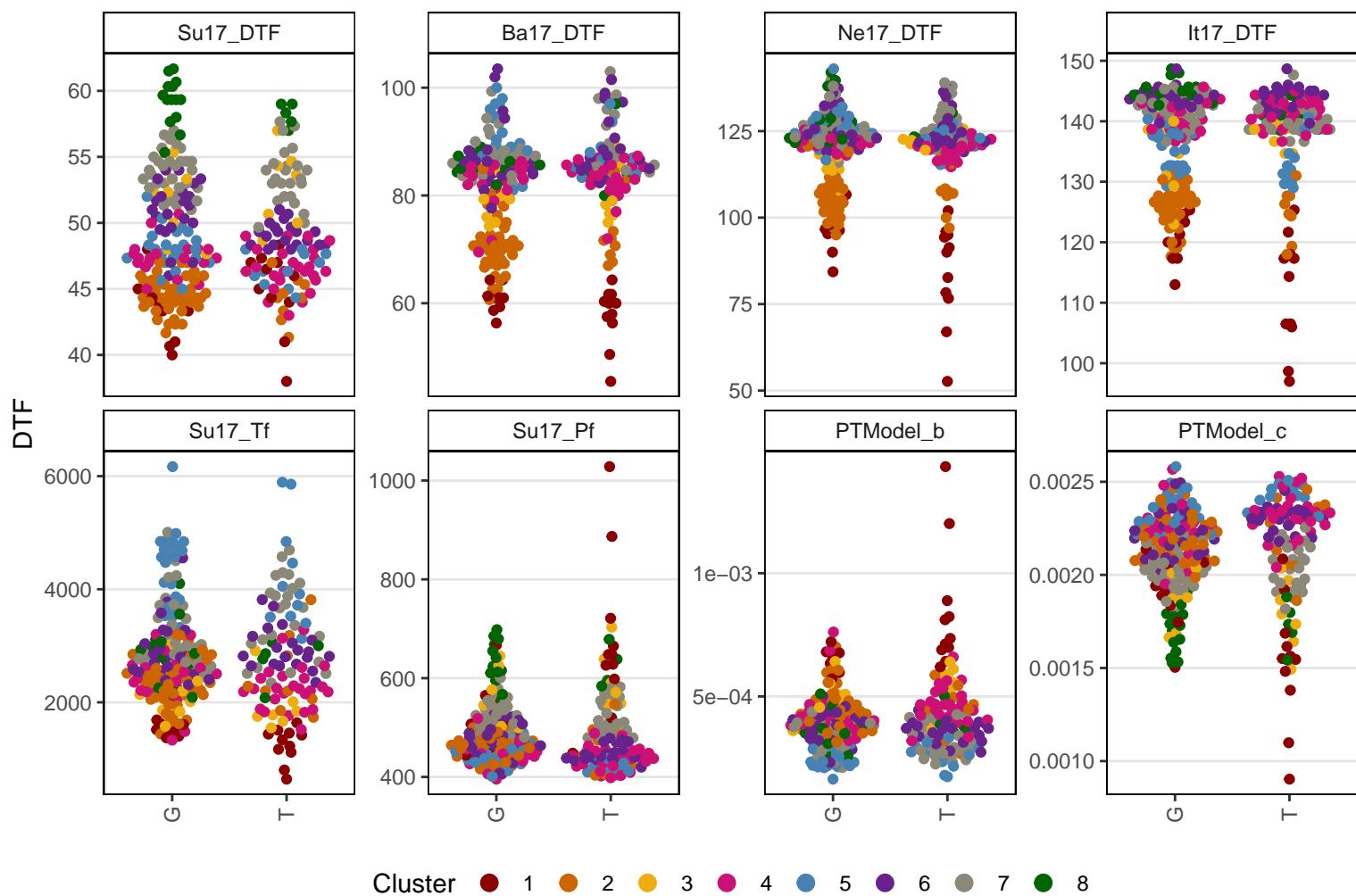
## Methyltransferase 601194

# Lcu.2RBY.Chr3p424264095

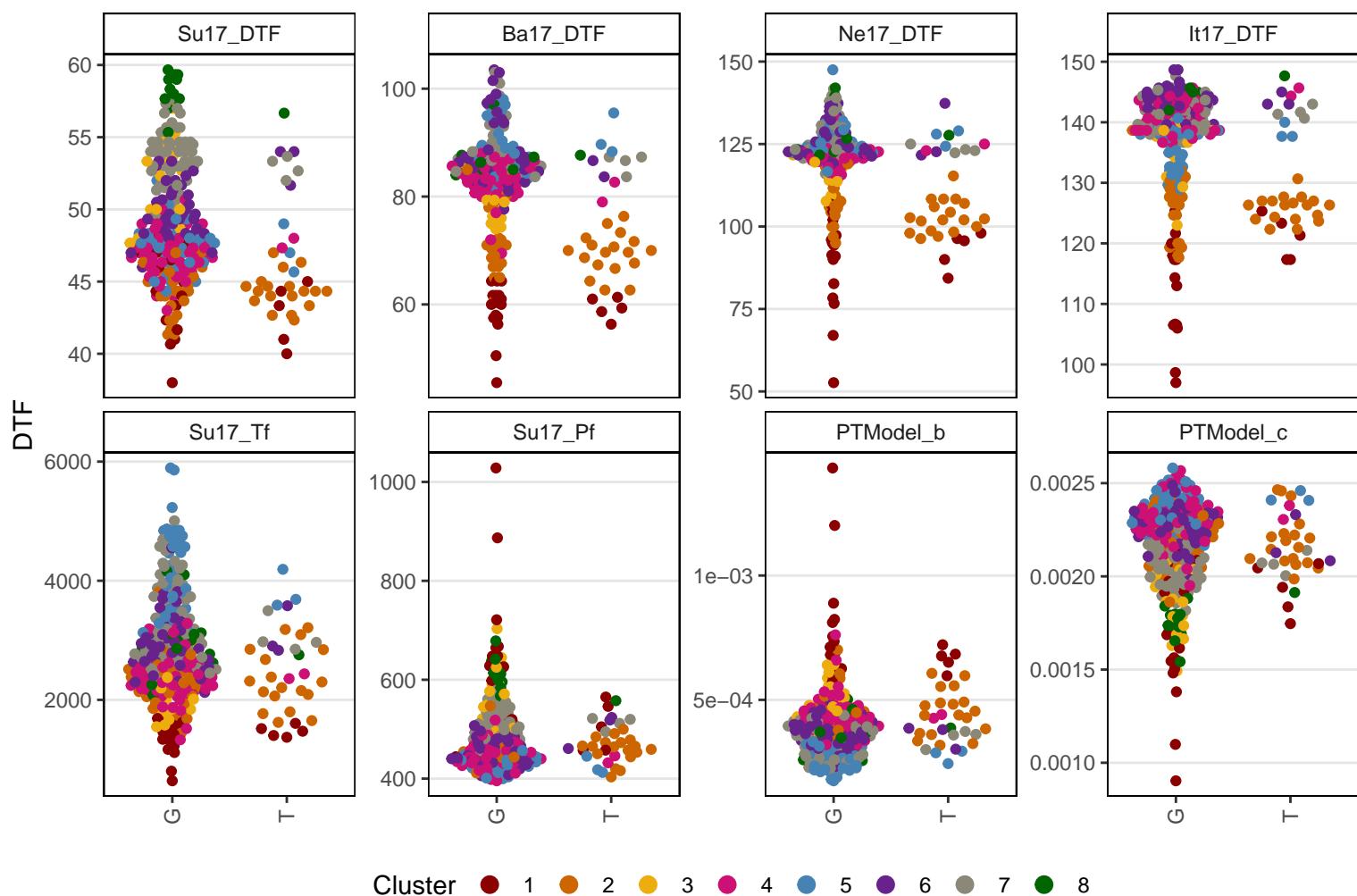


Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

# Lcu.2RBY.Chr3p424280231



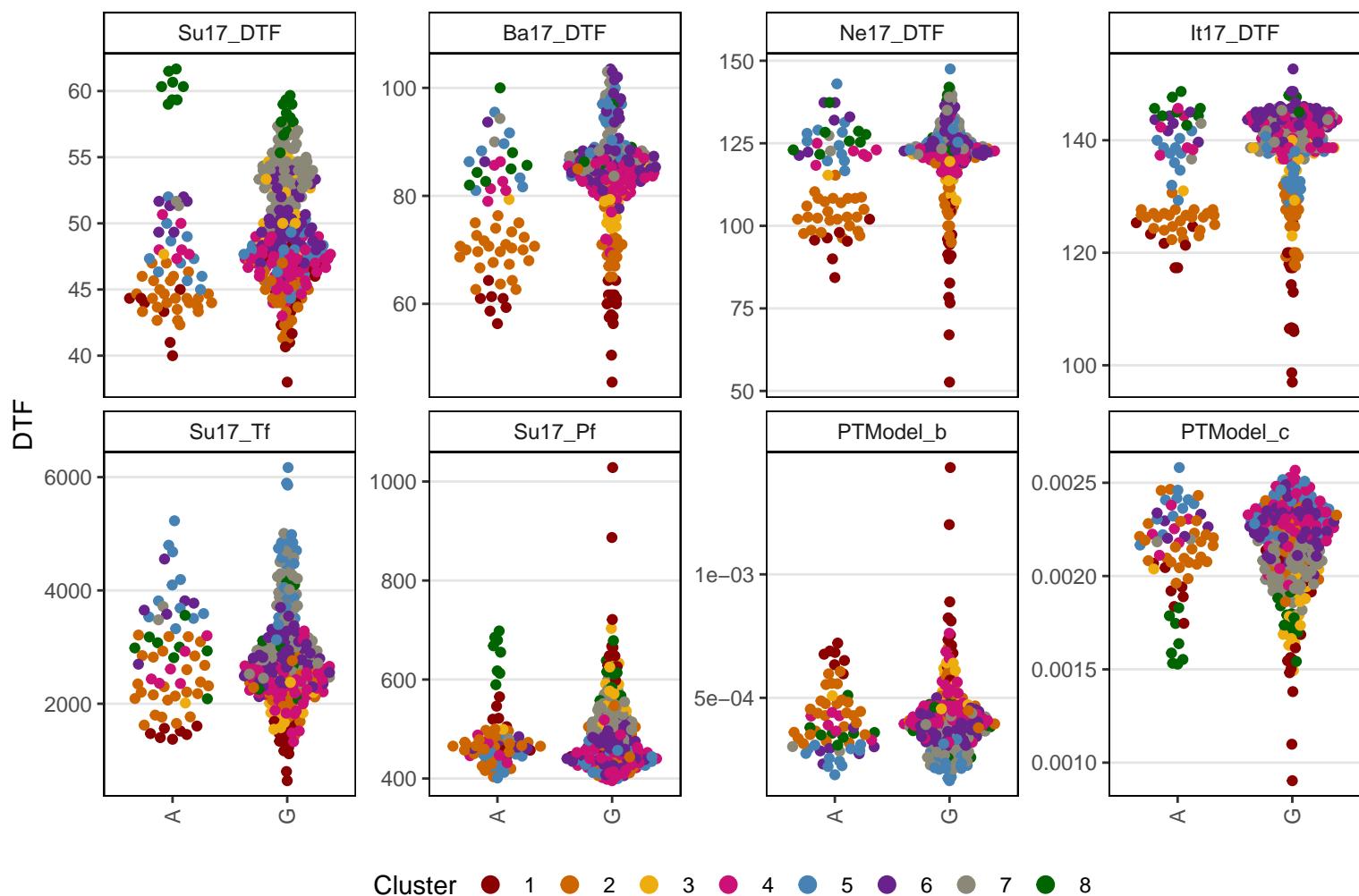
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Cluster ● 1 2 3 4 5 6 7 8

E3 ubiquitin–protein ligase MARCH3  
2610699

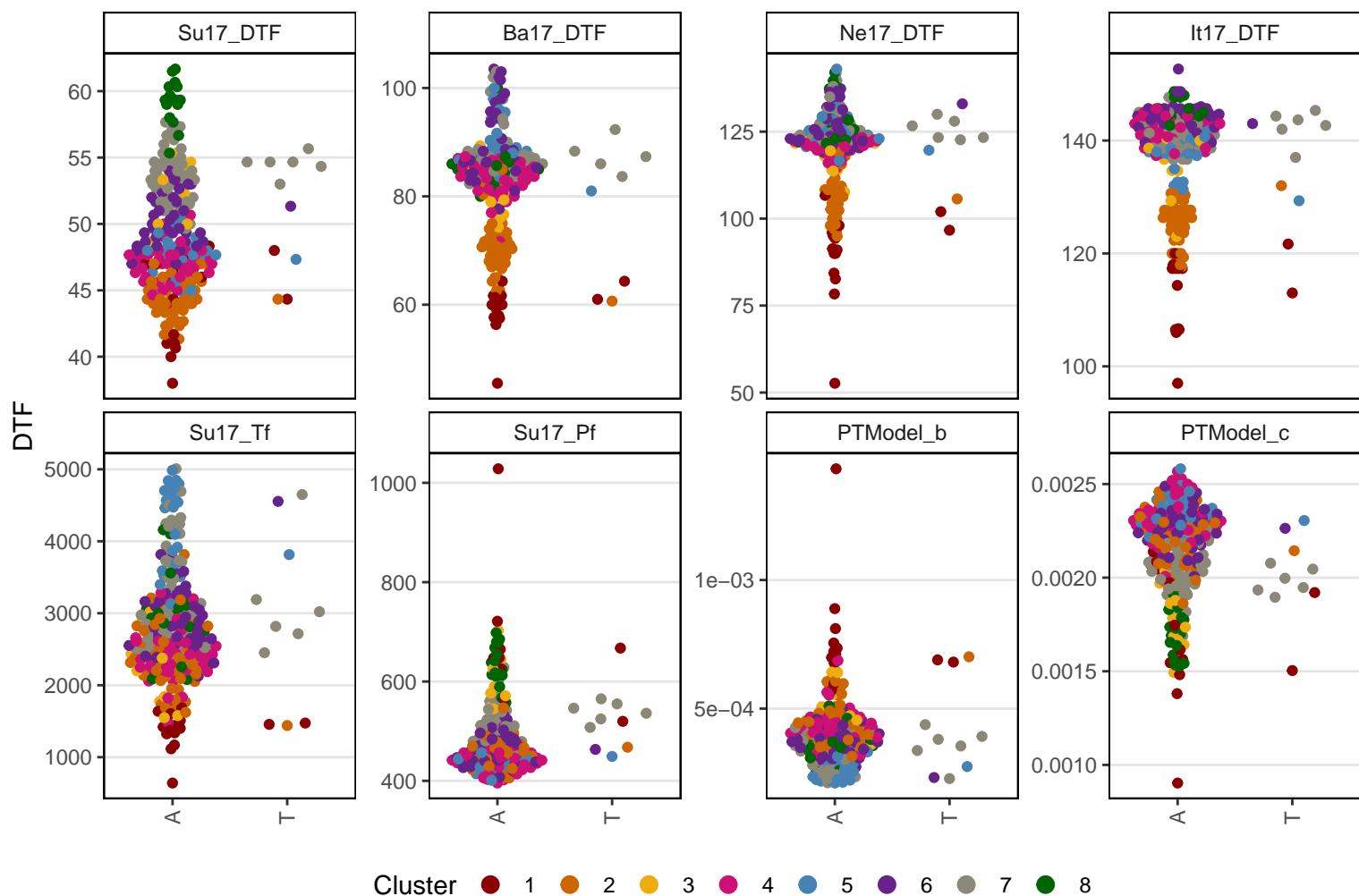
# Lcu.2RBY.Chr3p426933413



Cluster ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8

E3 ubiquitin–protein ligase MARCH3 ; Uncharacterized protein (11)  
1322116 ; 2437317

# Lcu.2RBY.Chr3p428940677



Uncharacterized protein (11) ; E3 ubiquitin–protein ligase MARCH3  
430053 ; 685148