

0.25mm



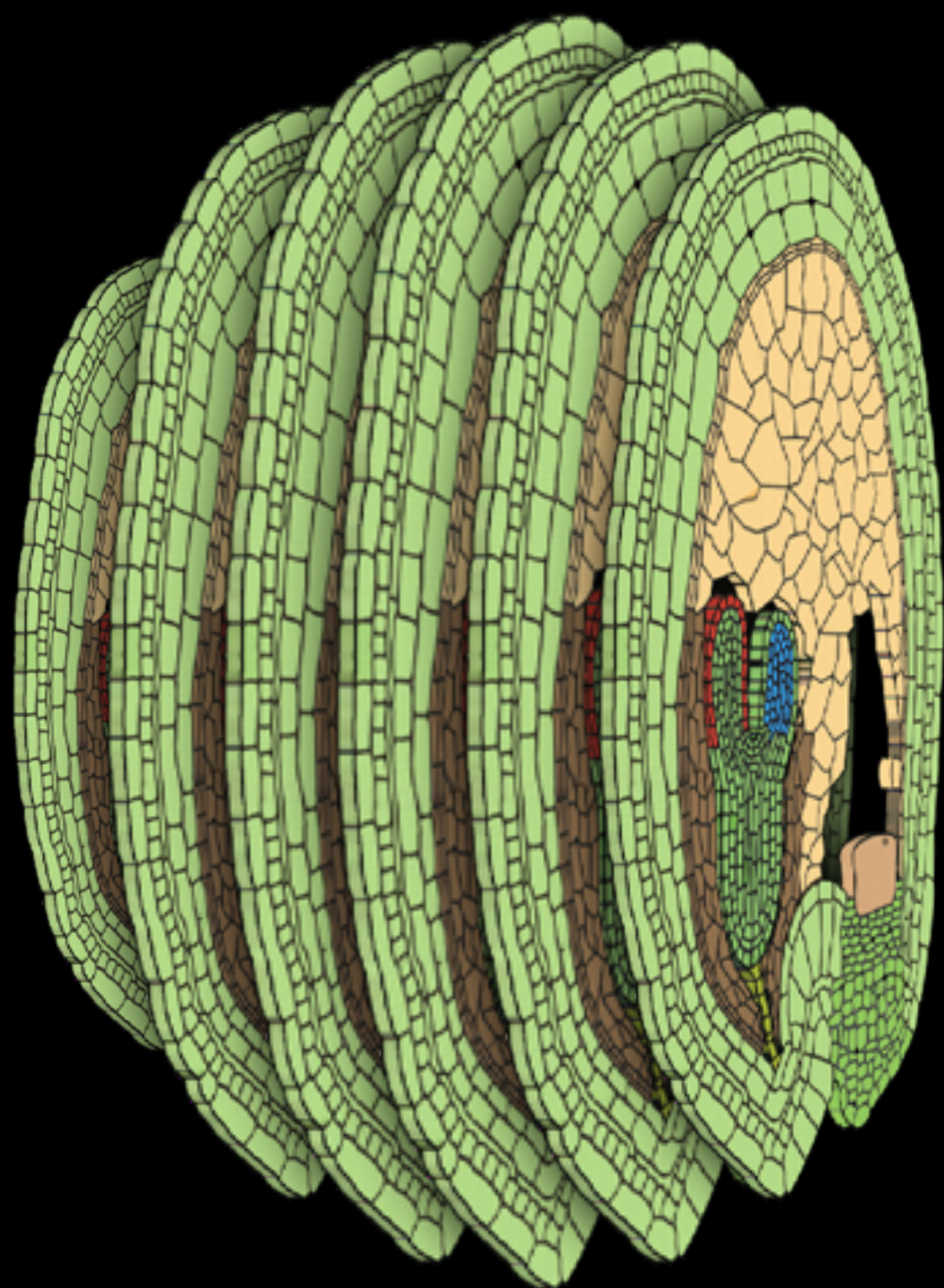
Epidermis

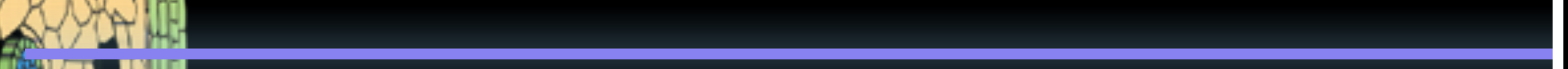
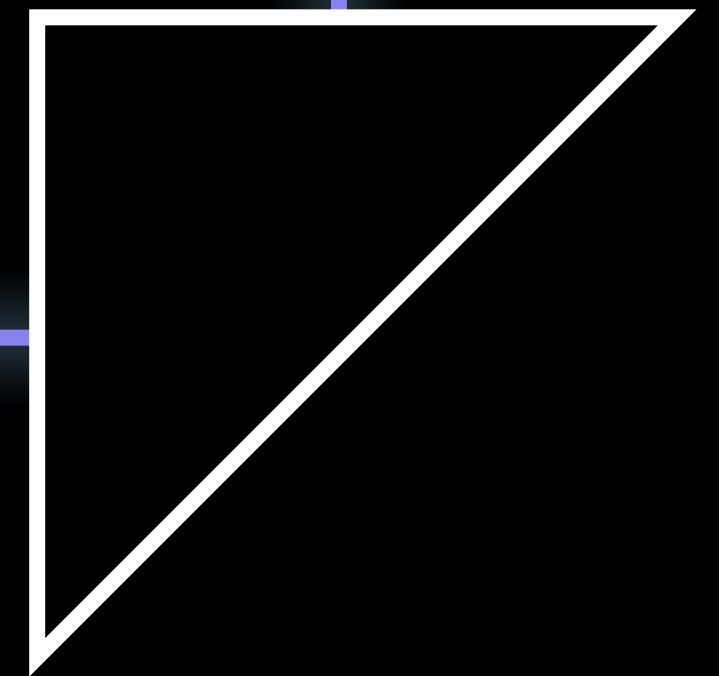
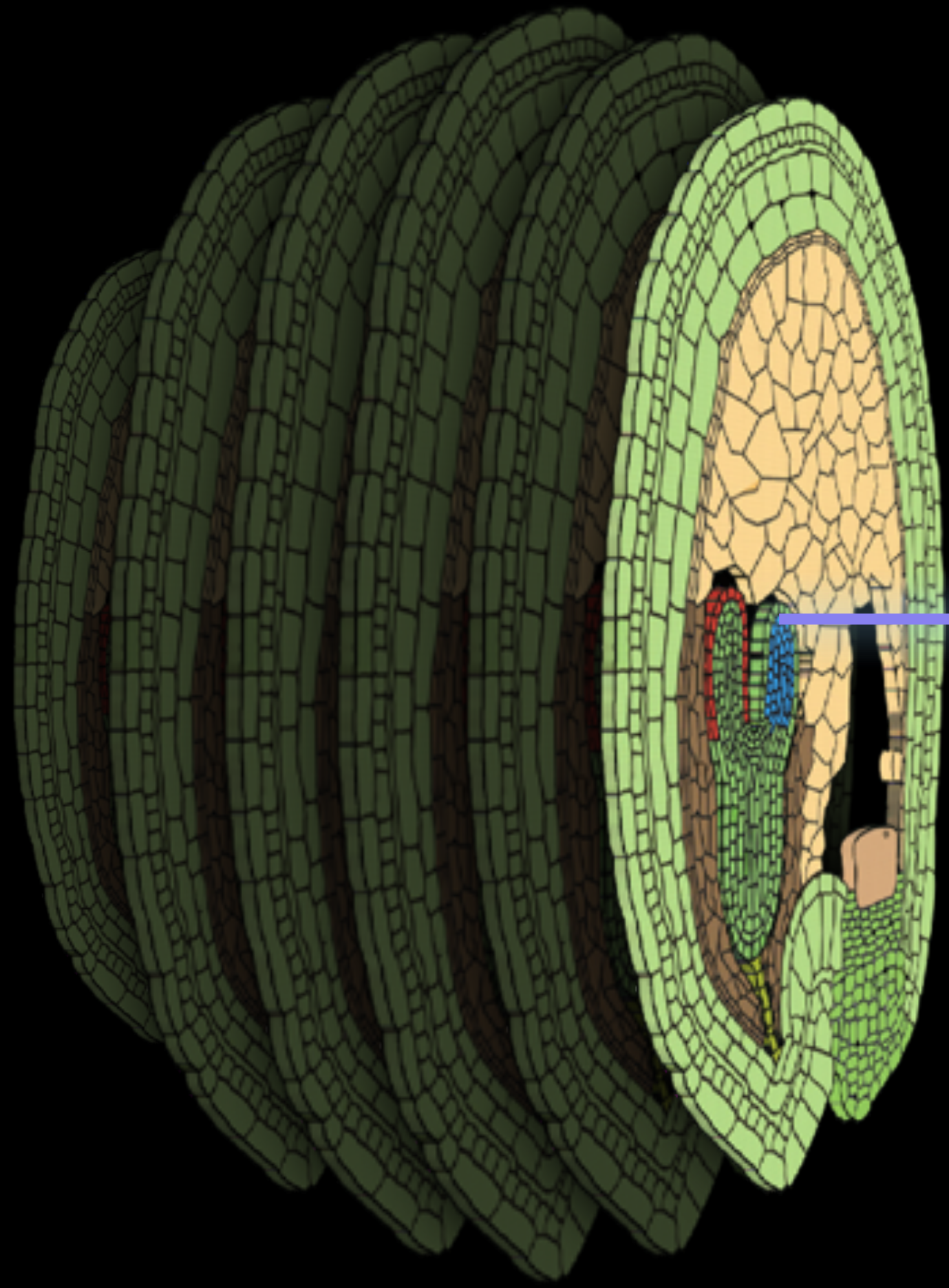


Mesophyll

0.25mm








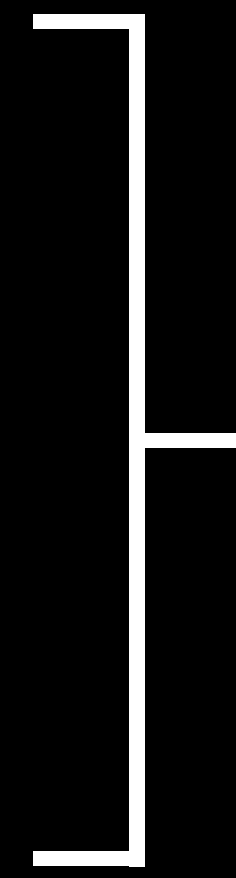


RNA (ng)	5	0.10	0.75	0.05	0.25	0.01
Library size (10⁶)	53	38	25	32	33	30
Genes detected	17,400	19,300	19,500	18,500	16,800	15,900

“As low as 0.05ng of total RNA can be used ... to perform a comprehensive analysis of the expressed genome ... without compromising the number of genes detected.”

0.10ng = 25x 

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4 biological replicates each
10 min collection time each



Epidermal vs Mesophyll



CPM	No Significant Difference	Up	Down	Total DEGs
0.3	17817	201	111	312
1.0	16943	144	94	238

"Of our genes, 571 had a log ratio > 1"

Gene	Published logFC	My logFC	My adj. p-value
MYB56	>10	8.76	0.019
NAC2	9.70	8.87	0.029
WOX8	9.09	7.43	0.126
AT4g31680	6.50	6.60	0.195
ULT2	5.23	6.97	0.111
bHLH	5.08	5.95	0.315
MYB118	5.03	4.61	0.304