Figure S5

A_1 genetically specified branch point closest to target

A_2 random branching + growth towards target

A_3 multiple transient branches + stabilization by target

B

midline

L_a

L_b

DM
VL

$y = L_b / (L_a + L_b) * 100\%$

C

DL2

VC3

20 µm

$y = L_b / (L_a + L_b) * 100\%$

D

anterior AL

58
67
52
DL3
DA4m
DA2
DA1
DA4l
VA6
VA1d
VA1v
64
55
DM2
56
DM6
58 (±5.4)
VM2
80
VA2
60 (±8.5)
VM3
43 (±12.5)
47

posterior AL

67
48 (±4.3)
DL5
DM3
DL1
DP1m
75 (±2.6) &
47 (±4.0)
DM1
65 (±2.8)
56 & 37
DL2
57
DM4
63 (±3.5)
VL2a
37 (±5.1)
VL1
16 (±1.2)
VC3
VM4
43 (±4.0)
69

E

retraction speed (µm/min)

8

DM6 contralateral axon branches

F

young → mature

DL1

ORN1

ORN2

ORN3

G

DM1

ORN1

ORN2

ORN3

20 min apart   60 min apart