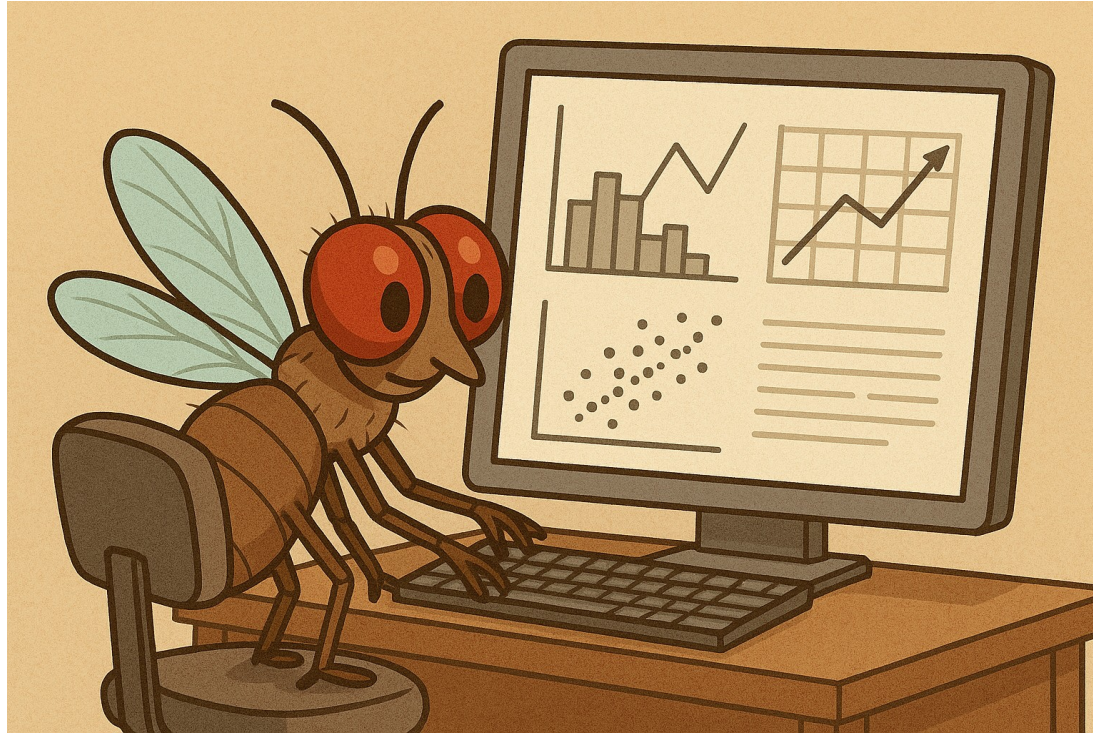
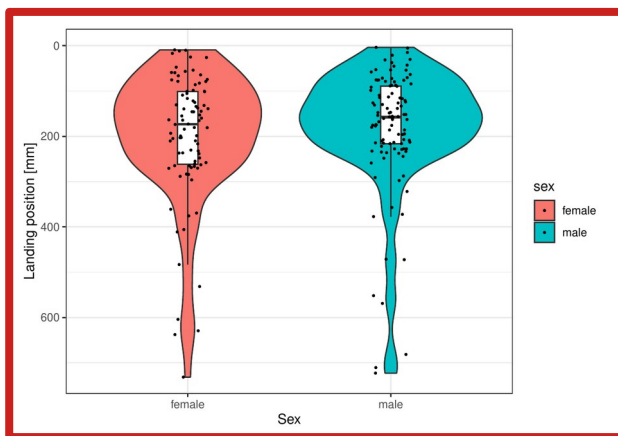
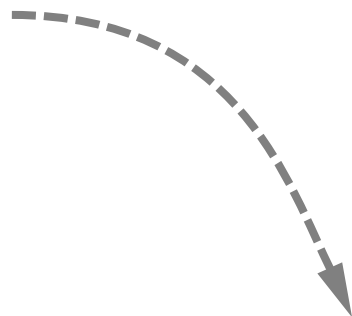


Analysis of Flight Assay Data



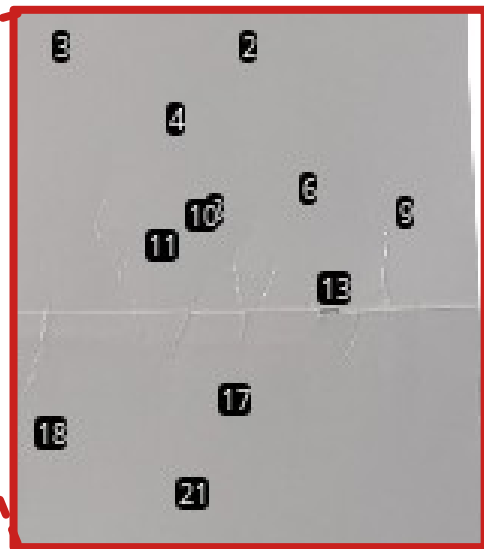
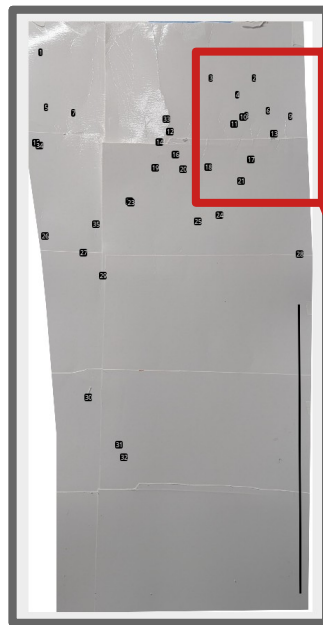
Jun Ishigohoka



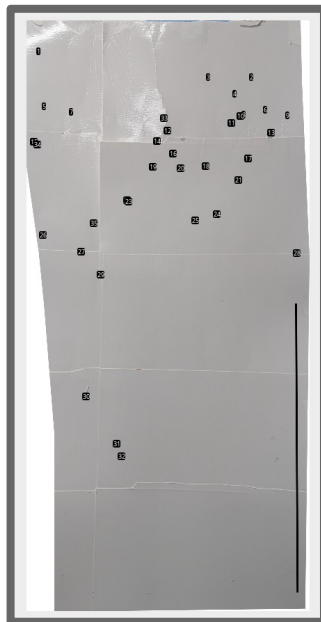
```
## Single term deletions
##
## Model:
## Y ~ sex
##           Df Deviance    AIC scaled dev. Pr(>Chi)
## <none>          111.07 2427.1
## sex           1   111.53 2425.9      0.85803    0.3543
```







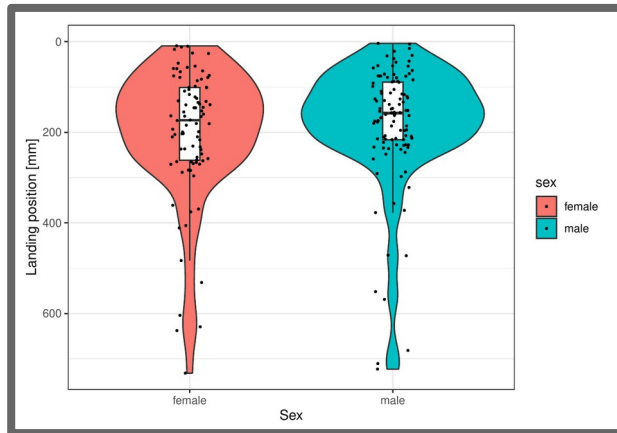




A	B	C	
	X	Y	
1	1.764	4.434	
2	31.788	7.993	
3	25.762	8.034	
4	29.496	10.443	
5	2.501	12.183	
6	33.719	12.611	
7	6.384	12.952	
8	30.703	13.275	
9	37	13.452	
10	30.357	13.532	
11	29.127	14.483	
12	19.949	15.597	
13	34.664	15.91	
14	18.596	17.036	
15	1.186	17.137	
16	20.845	18.798	
17	31.406	19.457	
18	25.393	20.643	
19	17.982	20.696	
20	21.807	20.945	
21	30.096	22.502	
22	14.399	25.419	



A	B	C
X	Y	
1	1.764	4.434
2	31.788	7.993
3	25.762	8.034
4	29.496	10.443
5	2.501	12.183
6	33.719	12.611
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13	34.664	15.91
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18	25.393	20.643
19	17.982	20.696
20	21.807	20.945
21	30.096	22.502
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```
## Single term deletions
##
## Model:
## Y ~ sex
##           Df Deviance    AIC scaled dev. Pr(>Chi)
## <none>          111.07 2427.1
## sex           1   111.53 2425.9      0.85803    0.3543
```


Part 1: Image analysis with ImageJ



A	B	C
	X	Y
1	1.764	4.434
2	31.788	7.993
3	25.762	8.034
4	29.496	10.443
5	2.501	12.183
6	33.719	12.611
7	6.384	12.952
8	30.703	13.275
9	37	13.452
10	30.357	13.532
11	29.127	14.483
12	19.949	15.597
13	34.664	15.91
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15	1.186	17.137
16	20.845	18.798
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18	25.393	20.643
19	17.982	20.696
20	21.807	20.945
21	30.096	22.502
22	14.399	25.419



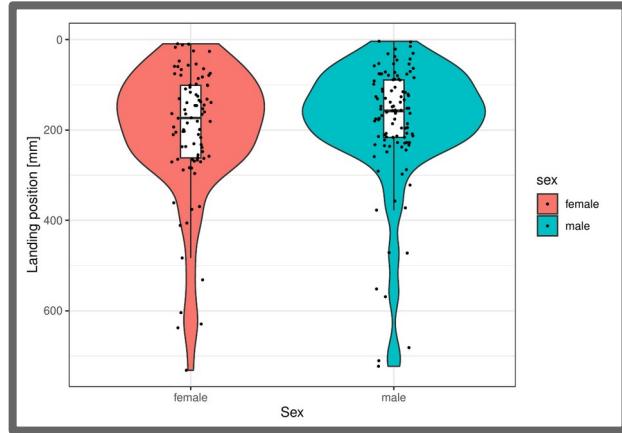
ImageJ



FIJI

Part 2: Statistical analysis in R

A	B	C
X	Y	
1	1.764	4.434
2	31.788	7.993
3	25.762	8.034
4	29.496	10.443
5	2.501	12.183
6	33.719	12.611
7	6.384	12.952
8	30.703	13.275
9	37	13.452
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12	19.949	15.597
13	34.664	15.91
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15	1.186	17.137
16	20.845	18.798
17	31.406	19.457
18	25.393	20.643
19	17.982	20.696
20	21.807	20.945
21	30.096	22.502
22	14.399	25.419



```
## Single term deletions
##
## Model:
## Y ~ sex
##           Df Deviance    AIC scaled dev. Pr(>Chi)
## <none>           111.07 2427.1
## sex          1    111.53 2425.9      0.85803    0.3543
```



R



RStudio

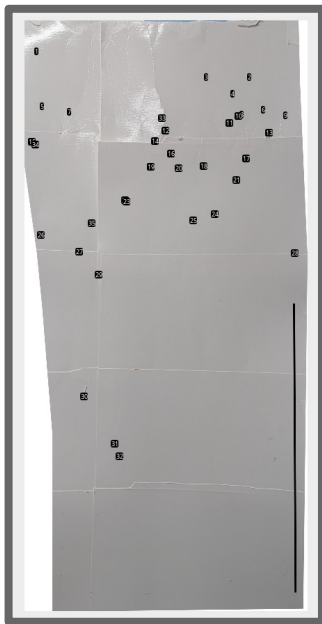
Part 1: Image analysis with **ImageJ**



Preparation

- Copy the materials from shared folder to your desktop
- Open ImageJ
- Install ImageJ macro (FlightAssay.ijm)

Image analysis

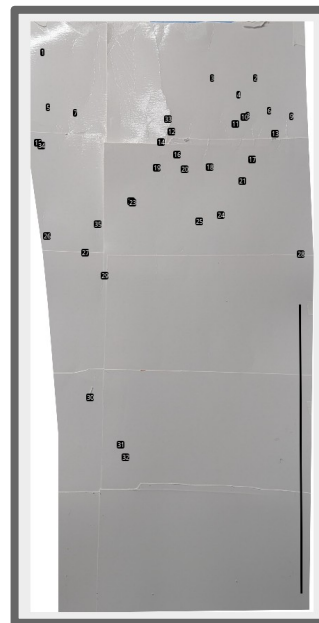


A	B	C	
	X	Y	
1	1.764	4.434	
2	31.788	7.993	
3	25.762	8.034	
4	29.496	10.443	
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9	37	13.452	
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17	31.406	19.457	
18	25.393	20.643	
19	17.982	20.696	
20	21.807	20.945	
21	30.096	22.502	
22	14.399	25.419	

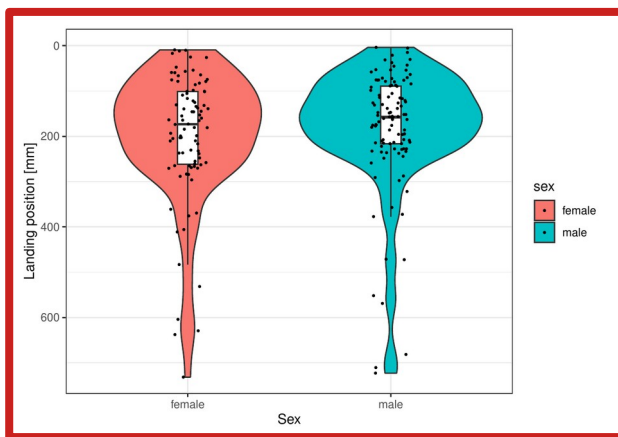


Part 2: Statistical analysis in R





A	B	C
X	Y	
1	1.764	4.434
2	31.788	7.993
3	25.762	8.034
4	29.496	10.443
5	2.501	12.183
6	33.719	12.611
7	6.384	12.952
8	30.703	13.275
9	37	13.452
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13	34.664	15.91
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15	1.186	17.137
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18	25.393	20.643
19	17.982	20.696
20	21.807	20.945
21	30.096	22.502
22	14.399	25.419



```
## Single term deletions
##
## Model:
## Y ~ sex
##           Df Deviance    AIC scaled dev. Pr(>Chi)
## <none>          111.07 2427.1
## sex          1    111.53 2425.9      0.85803    0.3543
```

