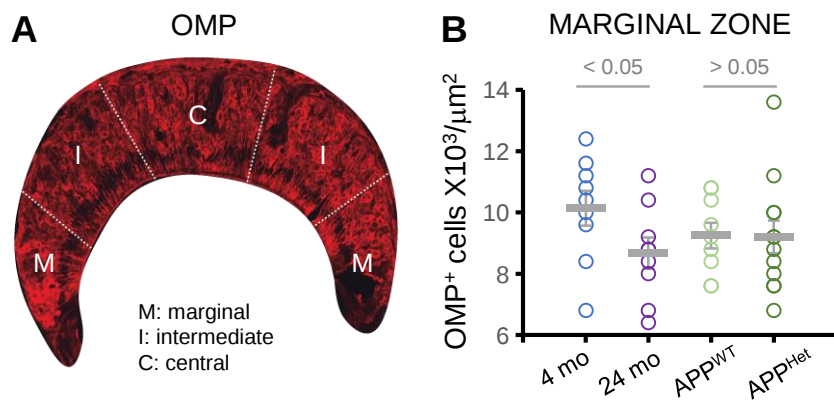
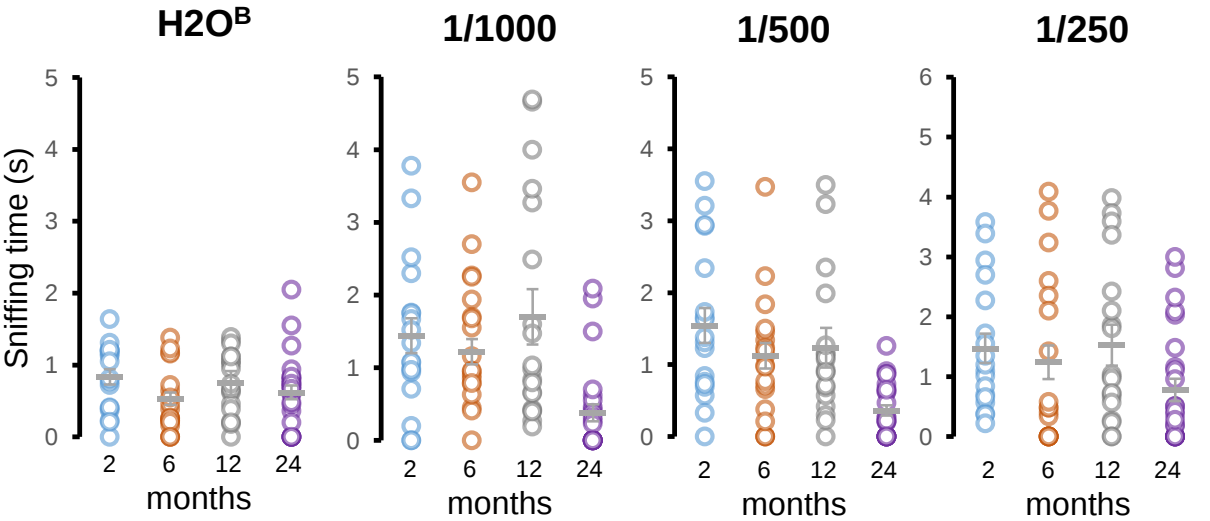




SOCIAL ODOR EXPLORATION – NATURAL AGING

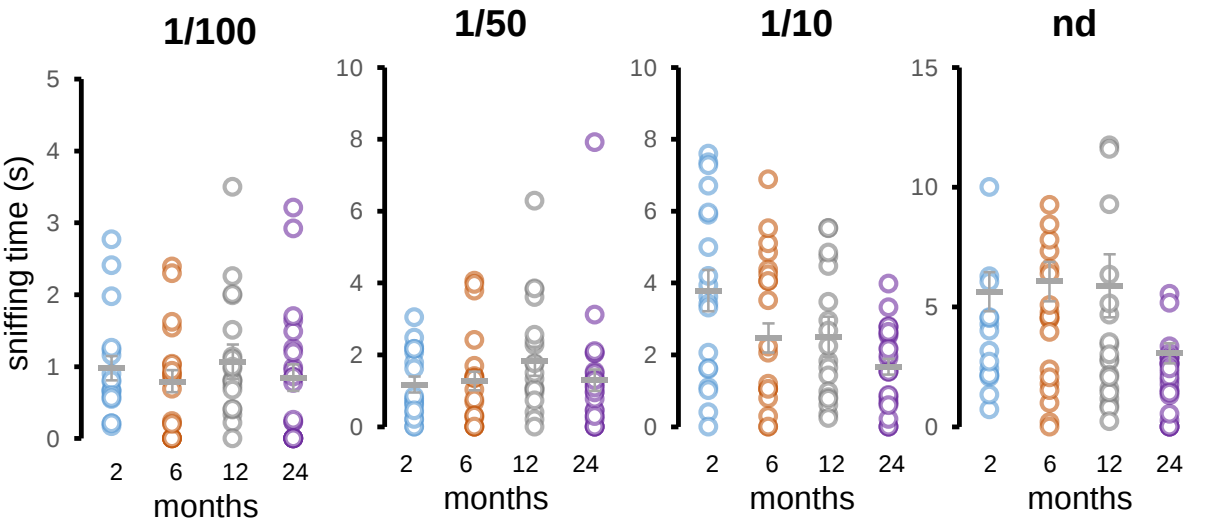


H ₂ O ^B	
Comparison	P
2 m vs 6 m	0.02
2 m vs 12 m	ns
2 m vs 24 m	ns
6 m vs 12 m	ns
6 m vs 24 m	ns
12 m vs 24 m	ns

1:1000 urine dilution	
Comparison	P
2 m vs 6 m	ns
2 m vs 12 m	ns
2 m vs 24 m	0.0007
6 m vs 12 m	ns
6 m vs 24 m	0.0004
12 m vs 24 m	0.002

1:500 urine dilution	
Comparison	P
2 m vs 6 m	ns
2 m vs 12 m	ns
2 m vs 24 m	0.0002
6 m vs 12 m	ns
6 m vs 24 m	0.0005
12 m vs 24 m	0.0008

1:250 urine dilution	
Comparison	P
2 m vs 6 m	ns
2 m vs 12 m	ns
2 m vs 24 m	0.03
6 m vs 12 m	ns
6 m vs 24 m	ns
12 m vs 24 m	0.04



1:100 urine dilution	
Comparison	P
2 m vs 6 m	ns
2 m vs 12 m	ns
2 m vs 24 m	ns
6 m vs 12 m	ns
6 m vs 24 m	ns
12 m vs 24 m	ns

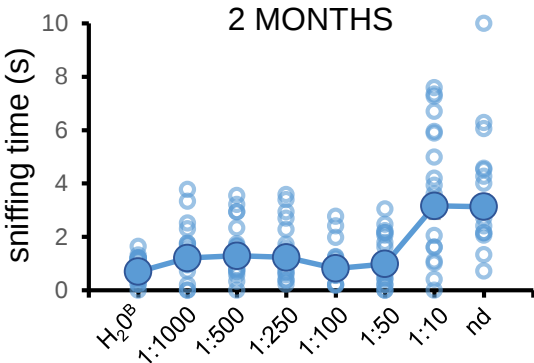
1:50 urine dilution	
Comparison	P
2 m vs 6 m	ns
2 m vs 12 m	ns
2 m vs 24 m	ns
6 m vs 12 m	ns
6 m vs 24 m	ns
12 m vs 24 m	ns

1:10 urine dilution	
Comparison	P
2 m vs 6 m	0.08
2 m vs 12 m	0.04
2 m vs 24 m	0.002
6 m vs 12 m	ns
6 m vs 24 m	ns
12 m vs 24 m	ns

Non diluted	
Comparison	P
2 m vs 6 m	ns
2 m vs 12 m	ns
2 m vs 24 m	0.04
6 m vs 12 m	ns
6 m vs 24 m	0.003
12 m vs 24 m	0.02

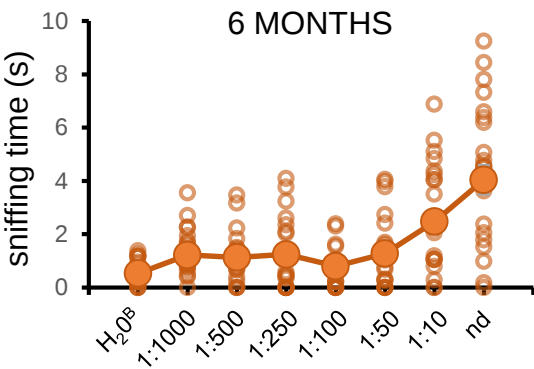
age \ dilution		H ₂ O ^B	1:000	1:500	1:250	1:100	1:50	1:10	nd
		n	n	n	n	n	n	n	n
2 months	●	18	18	18	18	18	19	19	15
6 months	●	24	19	20	20	19	21	20	21
12 months	●	20	19	20	19	20	20	18	19
24 months	●	26	25	25	25	26	27	26	26

SOCIAL ODOR EXPLORATION – NATURAL AGING



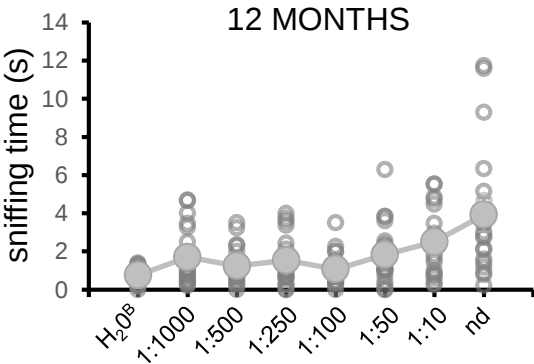
One Way ANOVA – Tukey test

2 months		2 months	
Comparison	P	Comparison	P
H ₂ O ^B vs 1/1000	0.91	1/100 vs 1/50	0.99
H ₂ O ^B vs 1/500	0.81	H ₂ O ^B vs 1/10	1.5 x10 ⁻⁷
1/1000 vs 1/500	1.00	1/10 vs 1/1000	5.0 x10 ⁻⁵
H ₂ O ^B vs 1/250	0.88	1/10 vs 1/500	1.3 x10 ⁻⁴
1/250 vs 1/1000	1.00	1/10 vs 1/250	7.0 x10 ⁻⁵
1/250 vs 1/500	1.00	1/10 vs 1/100	5.8 x10 ⁻⁷
H ₂ O ^B vs 1/100	0.99	1/10 vs 1/50	3.0 x10 ⁻⁶
1/100 vs 1/1000	0.97	Nd vs H ₂ O ^B	1.0 x10 ⁻⁶
1/100 vs 1/500	0.93	Nd vs 1/1000	2.2 x10 ⁻⁴
1/100 vs 1/250	0.99	Nd vs 1/500	5.2 x10 ⁻⁴
H ₂ O ^B vs 1/50	0.99	Nd vs 1/250	3.0 x10 ⁻⁴
1/50 vs 1/1000	0.99	Nd vs 1/100	4.0 x10 ⁻⁶
1/500 vs 1/50	0.99	Nd vs 1/50	1.8 x10 ⁻⁵
1/250 vs 1/50	0.99	Nd vs 1/10	1.00



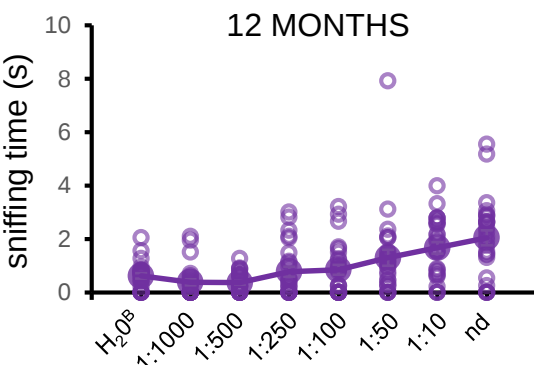
One Way ANOVA – Tukey test

6 months		6 months	
Comparison	P	Comparison	P
H ₂ O ^B vs 1/1000	0.63	1/100 vs 1/50	0.90
H ₂ O ^B vs 1/500	0.85	H ₂ O ^B vs 1/10	6.4 x10 ⁻⁵
1/1000 vs 1/500	0.99	1/10 vs 1/1000	0.07
H ₂ O ^B vs 1/250	0.82	1/10 vs 1/500	0.02
1/250 vs 1/1000	0.99	1/10 vs 1/250	0.03
1/250 vs 1/500	1.00	1/10 vs 1/100	0.0016
H ₂ O ^B vs 1/100	0.99	1/10 vs 1/50	0.07
1/100 vs 1/1000	0.94	Nd vs H ₂ O ^B	2.2 x10 ⁻⁸
1/100 vs 1/500	0.99	Nd vs 1/1000	8.3 x10 ⁻⁸
1/100 vs 1/250	0.98	Nd vs 1/500	4.1 x10 ⁻⁸
H ₂ O ^B vs 1/50	0.53	Nd vs 1/250	4.3 x10 ⁻⁸
1/50 vs 1/1000	1.0	Nd vs 1/100	4.5 x10 ⁻⁸
1/500 vs 1/50	0.99	Nd vs 1/50	7.0 x10 ⁻⁸
1/250 vs 1/50	0.99	Nd vs 1/10	0.01



One Way ANOVA – Tukey test

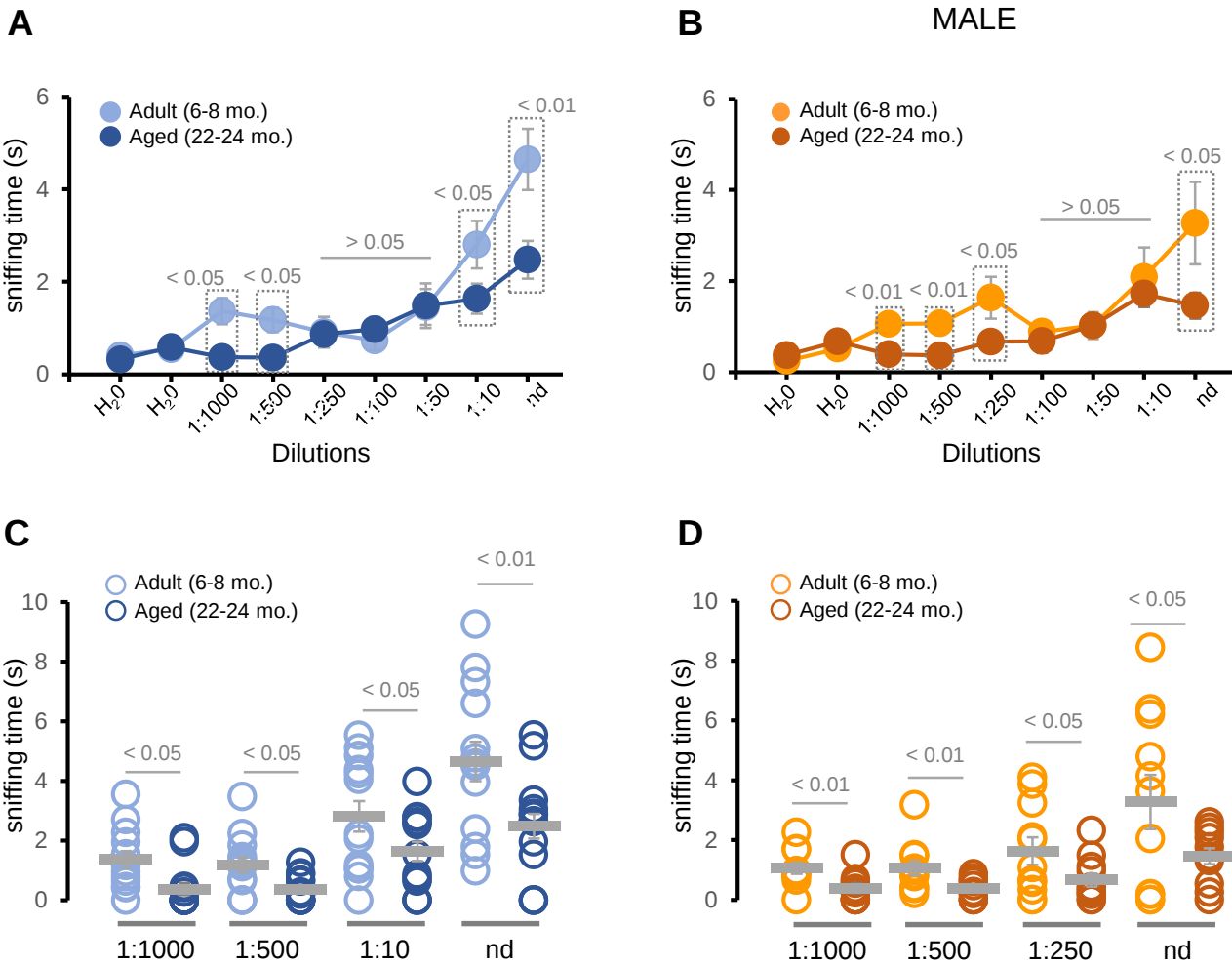
12 months		12 months	
Comparison	P	Comparison	P
H ₂ O ^B vs 1/1000	0.67	1/100 vs 1/50	0.85
H ₂ O ^B vs 1/500	0.98	H ₂ O ^B vs 1/10	0.04
1/1000 vs 1/500	0.99	1/10 vs 1/1000	0.84
H ₂ O ^B vs 1/250	0.85	1/10 vs 1/500	0.31
1/250 vs 1/1000	0.99	1/10 vs 1/250	0.67
1/250 vs 1/500	0.99	1/10 vs 1/100	0.17
H ₂ O ^B vs 1/100	0.99	1/10 vs 1/50	0.92
1/100 vs 1/1000	0.94	Nd vs H ₂ O ^B	1.3 x10 ⁻⁶
1/100 vs 1/500	0.99	Nd vs 1/1000	0.002
1/100 vs 1/250	0.99	Nd vs 1/500	7.2 x10 ⁻⁵
H ₂ O ^B vs 1/50	0.50	Nd vs 1/250	8.0 x10 ⁻⁴
1/50 vs 1/1000	1.0	Nd vs 1/100	2.0 x10 ⁻⁵
1/500 vs 1/50	0.95	Nd vs 1/50	0.005
1/250 vs 1/50	0.99	Nd vs 1/10	0.20



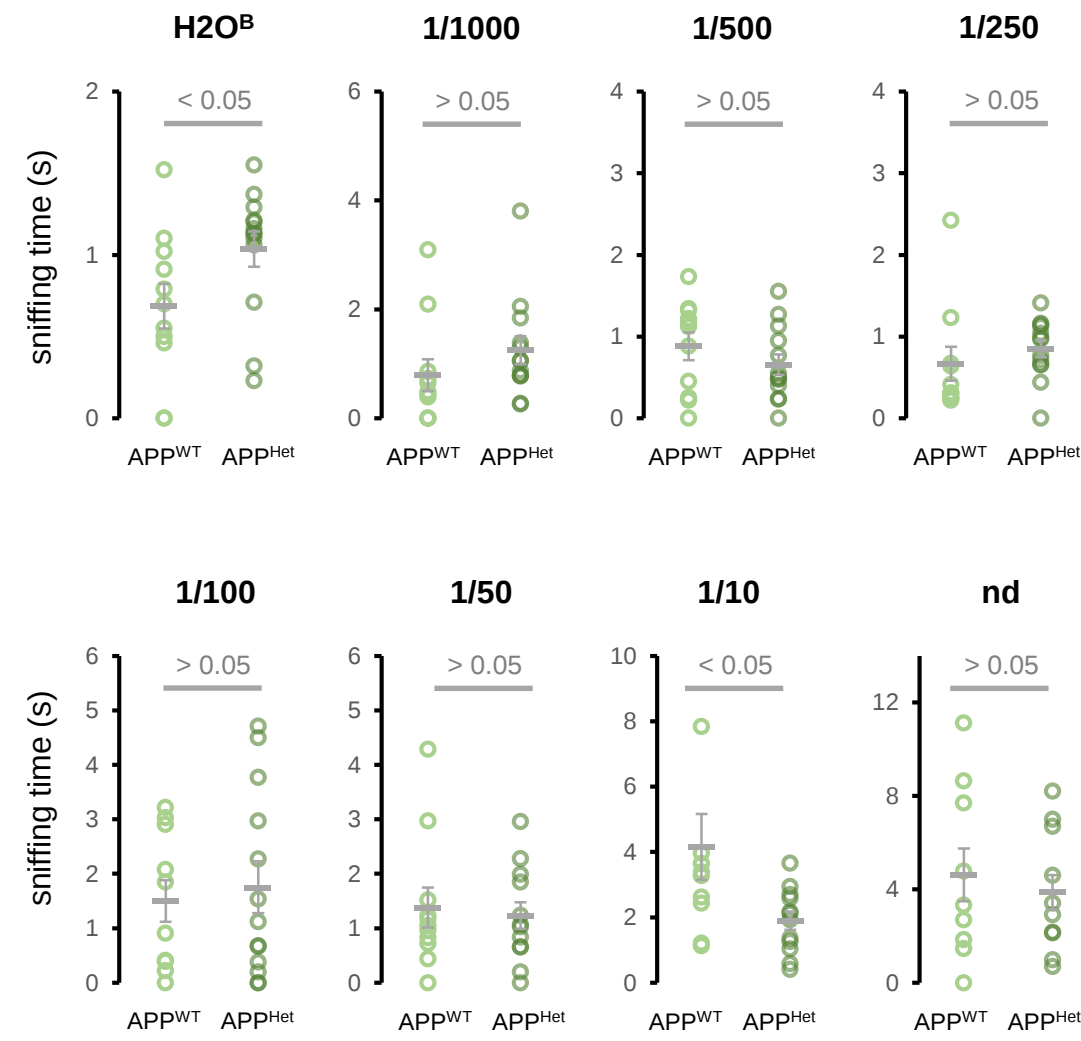
One Way ANOVA – Tukey test

24 months		24 months	
Comparison	P	Comparison	P
H ₂ O ^B vs 1/1000	0.99	1/100 vs 1/50	0.76
H ₂ O ^B vs 1/500	0.98	H ₂ O ^B vs 1/10	0.007
1/1000 vs 1/500	1.0	1/10 vs 1/1000	3.4 x10 ⁻⁴
H ₂ O ^B vs 1/250	0.99	1/10 vs 1/500	2.6 x10 ⁻⁴
1/250 vs 1/1000	0.87	1/10 vs 1/250	0.04
1/250 vs 1/500	0.84	1/10 vs 1/100	0.08
H ₂ O ^B vs 1/100	0.99	1/10 vs 1/50	0.88
1/100 vs 1/1000	0.73	Nd vs H ₂ O ^B	3.4 x10 ⁻⁵
1/100 vs 1/500	0.69	Nd vs 1/1000	8.4 x10 ⁻⁷
1/100 vs 1/250	1.0	Nd vs 1/500	6.3 x10 ⁻⁷
H ₂ O ^B vs 1/50	0.25	Nd vs 1/250	4.6 x10 ⁻⁴
1/50 vs 1/1000	0.03	Nd vs 1/100	0.001
1/500 vs 1/50	0.03	Nd vs 1/50	0.14
1/250 vs 1/50	0.6	Nd vs 1/10	0.89

SOCIAL ODOR EXPLORATION

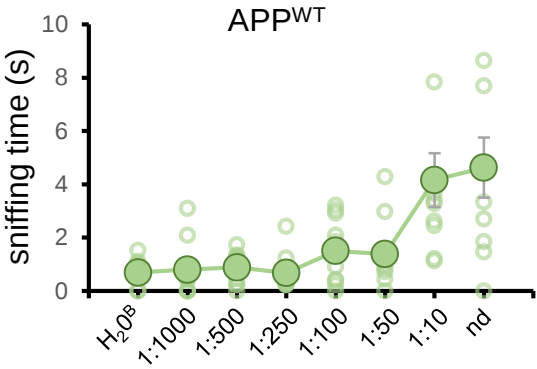


SOCIAL ODOR EXPLORATION - PATHOLOGICAL AGING



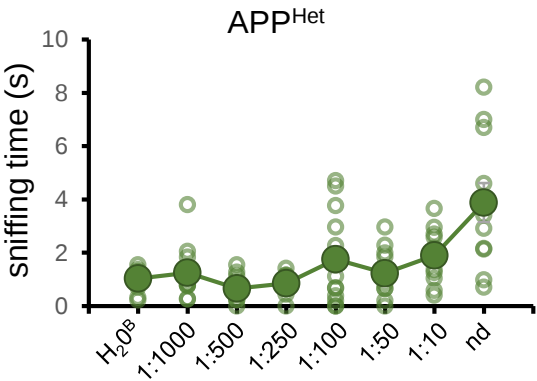
dilution genotype	H ₂ O _B	1:1000	1:500	1:250	1:100	1:50	1:10	nd
	n	n	n	n	n	n	n	n
○ APP ^{WT}	11	11	11	10	10	11	10	9
● APP ^{Het}	13	13	13	13	13	12	12	10

SOCIAL ODOR EXPLORATION – PATHOLOGICAL AGING



One Way ANOVA – Tukey test	
APP ^{WT}	
Comparison	P
H ₂ O ^B vs 1/1000	1.00
H ₂ O ^B vs 1/500	1.00
1/1000 vs 1/500	1.00
H ₂ O ^B vs 1/250	1.00
1/250 vs 1/1000	1.00
1/250 vs 1/500	0.99
H ₂ O ^B vs 1/100	0.97
1/100 vs 1/1000	0.99
1/100 vs 1/500	0.99
1/100 vs 1/250	0.97
H ₂ O ^B vs 1/50	0.98
1/50 vs 1/1000	0.99
1/500 vs 1/50	0.99
1/250 vs 1/50	0.98

APP ^{WT}	
Comparison	P
1/100 vs 1/50	1.00
H ₂ O ^B vs 1/10	0.001
1/10 vs 1/1000	0.002
1/10 vs 1/500	0.003
1/10 vs 1/250	0.002
1/10 vs 1/100	0.04
1/10 vs 1/50	0.02
Nd vs H ₂ O ^B	3.1 x10 ⁻⁴
Nd vs 1/1000	5.0 x10 ⁻⁴
Nd vs 1/500	7.2 x10 ⁻⁴
Nd vs 1/250	4.1 x10 ⁻⁴
Nd vs 1/100	0.01
Nd vs 1/50	0.005
Nd vs 1/10	0.99



One Way ANOVA – Tukey test	
APP ^{Het}	
Comparison	P
H ₂ O ^B vs 1/1000	0.99
H ₂ O ^B vs 1/500	0.99
1/1000 vs 1/500	0.91
H ₂ O ^B vs 1/250	0.99
1/250 vs 1/1000	0.99
1/250 vs 1/500	0.99
H ₂ O ^B vs 1/100	0.79
1/100 vs 1/1000	0.96
1/100 vs 1/500	0.30
1/100 vs 1/250	0.99
H ₂ O ^B vs 1/50	0.99
1/50 vs 1/1000	1.00
1/500 vs 1/50	0.93
1/250 vs 1/50	0.99

APP ^{Het}	
Comparison	P
1/100 vs 1/50	0.95
H ₂ O ^B vs 1/10	0.63
1/10 vs 1/1000	0.88
1/10 vs 1/500	0.18
1/10 vs 1/250	0.38
1/10 vs 1/100	0.99
1/10 vs 1/50	0.90
Nd vs H ₂ O ^B	6.6 x10 ⁻⁶
Nd vs 1/1000	3.7 x10 ⁻⁵
Nd vs 1/500	3.4 x10 ⁻⁷
Nd vs 1/250	1.5 x10 ⁻⁶
Nd vs 1/100	0.002
Nd vs 1/50	4.7 x10 ⁻⁵
Nd vs 1/10	0.005

THREE CHAMBER SOCIABILITY TEST

