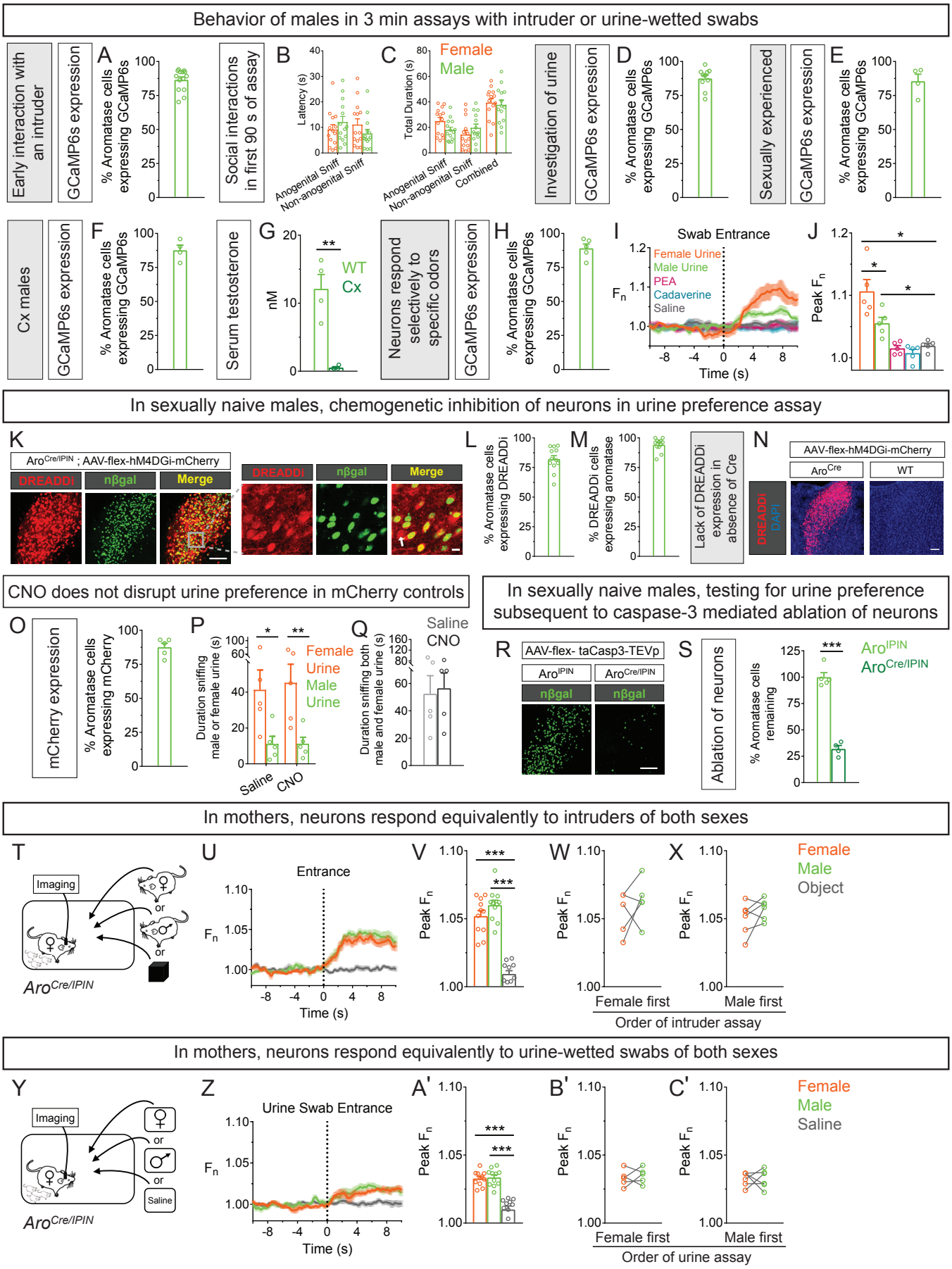
Figure S3


Behavior of males in 3 min assays with intruder or urine-wetted swabs
Early interaction with an intruder
GCaMP6s expression
A
% Aromatase cells expressing GCaMP6s
Social interactions in first 90 s of assay
B
Latency (s)
Anogenital Sniff
Non-anogenital Sniff
C
Female
Male
Total Duration (s)
Combined
Investigation of urine
D
Sexually experienced
E
Cx males
F
Serum testosterone
G
nM
WT
Cx
Neurons respond selectively to specific odors
H
I
Swab Entrance
Female Urine
Male Urine
PEA
Cadaverine
Saline
Fn
Time (s)
J
Peak Fn
In sexually naive males, chemogenetic inhibition of neurons in urine preference assay
K
AroCre/IPIN ; AAV-flex-hM4DGi-mCherry
DREADDi
nβgal
Merge
L
% Aromatase cells expressing DREADDi
M
% DREADDi cells expressing aromatase
Lack of DREADDi expression in absence of Cre
N
AAV-flex-hM4DGi-mCherry
AroCre
WT
DAPI
CNO does not disrupt urine preference in mCherry controls
O
mCherry expression
% Aromatase cells expressing mCherry
P
Duration sniffing male or female urine (s)
Female Urine
Male Urine
Saline
CNO
Q
Duration sniffing both male and female urine (s)
Saline
CNO
In sexually naive males, testing for urine preference subsequent to caspase-3 mediated ablation of neurons
R
AAV-flex- taCasp3-TEVp
AroIPIN
AroCre/IPIN
nβgal
S
Ablation of neurons
% Aromatase cells remaining
AroIPIN
AroCre/IPIN
In mothers, neurons respond equivalently to intruders of both sexes
T
Imaging
or
AroCre/IPIN
U
Entrance
Fn
Time (s)
V
Peak Fn
W
Female first
Male first
Order of intruder assay
X
Female
Male
Object
In mothers, neurons respond equivalently to urine-wetted swabs of both sexes
Y
Imaging
or
Saline
AroCre/IPIN
Z
Urine Swab Entrance
Fn
Time (s)
A'
Peak Fn
B'
Female first
Male first
Order of urine assay
C'
Female
Male
Saline