



XXX VHPCBTJMF DPN

4PDJBCJMJUZ "QQBSBUVT

DIBNCFSFE TPDJBM UFTU

GPS .064& PS 3"5

(FOFSBM

3FTFBSDI IBT TIPXO UIBU BMUIPVHI IVNBO
TPDJBM CFIBWJPS JT HFOFSBMMZ NPSF DPNQMFY
IVNBOT BOE BOJNBMT TIBSF TPNF BTQFDUT PG
TPDJBM CFIBWJPS

5IF DIBNCFSFE UFTU JT B WBMVBCMF UPPM UP BT
TFTT HFOFSBM TPDJBCJMJUZ BOE JOUFSFTU JO TPDJBM
OPWFMUZ JO SPEFOU NPEFMT PG\$ / E T P S F S T

3PEFOUT OPSNBMMZ QSGFGS UP TQFOE UJNF XJUI
BOPUIFS SPEFOU TPDJBCJMJUZ BOE XJMM JOWFTUJ
HBUF B OPWFM JOUSVEFS NPSE UHPOBEMJMNPSZ OF/PWFMUZ
TPDJBM OPWFMUZ

#BTFE PO UIFTF JODMJOBUIJPOT UIF 5ISFF \$IBN
CFS 5FTU DBO IFMQ JEFQJGZ SPEFOUT XJUI EF PDJUT
JO TPDJBCJMJUZ BOE PS TPDJBM OPWFMUZ

5IF6HP #BTJMF 4PDJBCJMJUZ "QQBSBUVT
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PS HSFZ PQBRVF XBMMT B TQFDJBM OPO SFqFDUJWF
HSFZ DPMPSE qPPS BOE HSJE FODMPTVSFT

.BOZ BVUIPST F H .PZ FU BM /BEMFS FU
BM IBWF TIPXO UIBU B DIBNCFSFE CPY
DBO CF VTFE UP UFTU

- z 4PDJBM /PWFMUZ 1SFGFSFODF
- z 4PDJBCJMJUZ
- z %PNJOBODF
- z "VUJTN

.BJO 'FBUVSFT

- z 8PSLTFD XJUI UIF NPTU CBTJMF TQFDJBM QBJOUJOH HJWFT B T
USBDLJOH TPGUXBSF QMFBTBOU GPS UIF BOJNBMT UP XI
- z (SJE &ODMPTVSFT NBYJNJ[E B WBMVBCMF XJUI USBOTQBSFOU PS
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- z 5IF HSFZ qPPS HJWFT IJHI DPMPSE BTJMF XJUI UBOEBSSE Y Y I DN
CPUI MJHIU BOE EBSL BOJNBMTY Y I DN

Rationale and Outline of the Procedure

The Ugo Basile 3-Chambered Apparatus can be used with many different procedures.

In their 2004 paper, Moy and co-authors (see bibliography), describe a typical protocol: after a period of habituation a mouse sociability is determined by measuring the time spent by the freely-moving subject in the proximity of the grid enclosures containing the first 'stranger' mouse.

A second 'stranger' mouse is then introduced in the box and the preference for the new 'stranger' mouse can be easily assessed.

3-Chamber Box & Grid Enclosures

The 46553 perimetral walls and internal partitions of grey opaque PVC form a **3 compartment box**, each **20x40x22(h)cm**; two **sliding doors** (5x8(h)cm), opening on the central compartment, can be closed to confine the animal.

Partitions can be easily removed for cleaning (or replaced with transparent ones, if preferred). Transparent lids 46553-320 can be ordered as optional.

The grey metal floor gives high contrast with both light & dark animals, allowing for automated video-tracking of the animals.

Its special painting also gives a slightly rough surface, pleasant for the animals to walk on.

The grid enclosures allow mice to interact closely; the grid bars have a diameter of 3mm and are spaced 7mm.

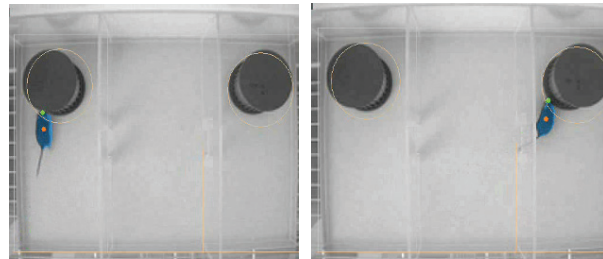
The standard enclosures are 15cm tall with an I.D. of 7cm. The top and the bottom are made of grey (**46503-003**) or white (**46503-013**) PVC.

Model 46503 with transparent walls is also available: the clear Perspex is ideal for visual observation of the experiment or for side positioning of the video-camera.



Optimized for Video-Tracking

The grey floor gives best contrast to both light and dark animals, which is the most critical factor for **all video-tracking softwares** to work properly.



Images and videos, courtesy of Dr. Patrizia D'Adamo (San Raffaele Institute, Milan, Italy)

Ordering Information

46553 Mouse Cage for 3-Chamber Sociability Test, opaque walls & internal partitions (no lids). With 2 grid cages (grey, I.D. 7cm, height 15cm)

46503 Mouse Cage for 3-Chamber Sociability Test, transparent walls, internal partitions and lids. With 2 grid cages (grey, I.D. 7cm, h 15cm)

46552 Rat Cage for 3-Chamber Sociability Test, opaque walls & internal partitions (no lids). With 2 grid cages (grey, I.D. 15cm, h 25cm)

46562 Rat Cage XL, opaque

46502 Rat Cage for 3-Chamber Sociability Test, transparent walls, internal partitions and lids. With 2 grid cages (grey, I.D. 15cm, h 25cm), 15cm(h)

46512 Rat Cage XL, transparent

Physical	Mouse	Rat
Dimensions	60x40x22(h)cm	120x40x40(h)cm 120x80x40(h)cm XL
Weight	9Kg	18Kg
Shipping Weight	12Kg	25Kg
Packing	67x42x53cm	Pallet

Bibliography

- A.J. Mierzwa et alia: "FGF2 and FGFR1 Signaling Regulate Functional Recovery Following Cuprizone Demyelination" *Neuroscience Letters* 548: 280-285, 2013
- M. J. Kane et alia: "Mice Genetically Depleted of Brain Serotonin Display Social Impairments, Communication Deficits and Repetitive Behaviors: Possible Relevance to Autism" *PLoS ONE* 7(11): e48975, 2012
- M. Yang et alia: "UNIT 8.26 Automated Three-Chambered Social Approach Task for Mice" *Current Protocols in Neuroscience* Published Online: 1 July 2011

Method Papers

- S.S. Moy et alia: "Sociability and Preference for Social Novelty in Five Inbred Strains: an Approach to Assess Autistic-Like Behavior in Mice" *Genes, Brain and Behavior* 3(5):287-302, 2004
- J.J. Nadler et alia: "Automated Apparatus for Quantitation of Social Approach Behaviors in Mice". *Genes, Brain and Behavior* 3(5): 303-314, 2004.