Key of terms to identify data sets and variable in data sets

Term	Where is it used	Definition
Olfactory bulb, hypothalamus, testes	In the name of data files	Designates the tissue the data were collected from
Tissue name_immuno	In the name of a data files	Designates data collected after immunohistochemical labeling of tissue
Hormone	In the name of a data file	Designates hormone data measured in serum
LHr and FSHr	In the name of a data file	Designates measures of luteinizing hormone receptor (LHr) and follicle stimulating hormone receptor (FSHr)
Olfactorybulb or hypothalamus_pcr_analysis	In the name of a data file	Designates data collected by qRT-PCR in the olfactory bulb or the hypothalamus
Animal number	Column name in files	Number to designate a specific animal
Condition	Column name in files	Designates the exposure the animal received
Day	Column name in files	The number of days of exposure
Weight	Column name in files	Weight of the animals in mg
Air or 3DP	Column name in files	Exposure, air or 3D emissions
Air_number_measure (e.g. air_1_TSH)	Column name in files	Designates exposure, number of days of exposure, and what was measured
TSH, FSH, prolactin, estradiol	Column name in files	Hormones measure, TSH (thyroid stimulating hormone) FSH (follicle stimulating hormone)
LOD	Column name in file	LOD is the lowest detectable level of the hormone (based on the standard curve)
GDNF, TH, mito, MBP, fluorojade, GnRH	Column name in files	Used to label and identify cells in the olfactory bulb or hypothalamus. GDNF (glial derived neurotrophic factor), TH (tyrosine hydroxylase), mito (Mitotracker), MBP (myelin basic protein) , GnRH (gonadotropin releasing hormone)
Cells or fibers	Column name in files	Used to designate whether data are from cell counts (cells/section) or fibers (immunostained or labeled area including neurons and cell processes)
Average Leydig cells, Sertoli cells and spermatogonium	Column names in file	Measure of cell types counted in the testes

Average sperm density	Column name in file	Measure of average density of sperm in the testicular lumen
Fold "transcript name"	Column name in file	Fold change (from air controls) of specific transcripts
cgrp, fos, creb, sod, vim, per, ache, cat, gnrh, pomc, gfap, gdnf, tnf il1, il6	Column name in file In hypothalamus and or olfactory bulb PCR files	Abbreviations of transcripts: cgrp (calcitonin gene related peptide), fos (c-fos immediate early gene), creb(cyclic AMP response element binding protein), sod (supraoxide dismutase), vim (vimentin), per (period1), ache (actylcholine esterase), cat (catalase), gnrh (gonadotropin releasing hormone), pomc (pro-opiomelanocortin), gfap (glial fibrillary acetic protein), gdnf (glial derived neurotrophic factor, tnf (tumor necrosis factor α), il1 (interleukin 1β), il6 (interleukin 6)

Definitions used to describe data set names and variables in the data sets

Study	Control animals	3D emission exposed
Males	6/time point	6/time point

The animal numbers in each group. Missing values were either because of inadequate amounts of tissue or serum to perform the analysis or a sample was missing. A zero (0) in a dataset means that there was an inadequate amount of tissue or that the measured value that was below the lower limit of detection for the assay (limits of detection were 3.5 ng/ml for estradiol, 2.5 ng/ml for FSH, 2.5 ng/ml for TSH and 6.5 ng/ml for prolactin)