**Table S2** Data on neophobia included in the meta-analysis, with their classifications and effect sizes (transformed Hedges’ *g* values) for: baseline neophobia vs. control (baseline score) and induced neophobia vs. baseline neophobia (induced score) sorted by taxonomic class with sample sizes in parentheses.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species by taxon (*n*)** | | **Trophic position** | **Age class** | **Back-ground** | **Cue type** | **Inducing treatment** | **Baseline score** | **Induced score** | **Paper** |
| **Actinopterygii (23)** | |  |  |  |  |  |  |  |  |
|  | *Amatitlania nigrofasciata* | tertiary | juvenile | unnatural | novel odour | predation exposure | -0.03 | 0.33 | Brown et al. [[1](#_ENREF_1)] |
|  | *Amatitlania nigrofasciata* | tertiary | juvenile | unnatural | novel odour | predation exposure | 0.12 | 0.83 | Brown et al. [[2](#_ENREF_2)] |
|  | *Amatitlania nigrofasciata* | tertiary | juvenile | unnatural | novel odour | predation exposure | -0.01 | 0.58 | Brown et al. [[3](#_ENREF_3)] |
|  | *Amatitlania nigrofasciata* | tertiary | juvenile | unnatural | novel odour | predation exposure | -0.34 | 0.89 | Brown et al. [[4](#_ENREF_4)] |
|  | *Amatitlania nigrofasciata* | tertiary | juvenile | unnatural | novel odour | predation exposure | 0.02 | 1.00 | Brown et al. [[4](#_ENREF_4)] |
|  | *Amatitlania nigrofasciata* | tertiary | adult | unnatural | novel odour | predation exposure | 0.15 | -0.34 | Joyce et al. [[5](#_ENREF_5)] |
|  | *Amatitlania nigrofasciata* | tertiary | juvenile | unnatural | novel odour | predation exposure | 0.04 | 0.48 | Joyce et al. [[5](#_ENREF_5)] |
|  | *Etheostoma caeruleum* | lower | adult | natural | novel odour | predation exposure | — | 0.75 | Abudayah & Mathis [[6](#_ENREF_6)] |
|  | *Gambusia holbrooki* | lower | adult | natural | novel odour | — | 0.25 | — | Dunlop-Hayden & Rehage [[7](#_ENREF_7)] |
|  | *Gambusia holbrooki* | lower | adult | natural | novel visual cue | — | -0.09 | — | Dunlop-Hayden & Rehage [[7](#_ENREF_7)] |
|  | *Jordanella floridae* | lower | adult | natural | novel odour | — | 0.22 | — | Dunlop-Hayden & Rehage [[7](#_ENREF_7)] |
|  | *Jordanella floridae* | lower | adult | natural | novel visual cue | — | 0.13 | — | Dunlop-Hayden & Rehage [[7](#_ENREF_7)] |
|  | *Pelvicachromis taeniatus* | lower | juvenile | unnatural | novel sound | predation exposure | — | 0.26 | Meuthen et al. [[8](#_ENREF_8)] |
|  | *Pimephales promelas* | lower | adult | natural | novel odour | predation exposure | — | 0.97 | Crane et al. [[9](#_ENREF_9)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | 0.32 | — | Brown et al. [[1](#_ENREF_1)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | 0.26 | — | Brown et al. [[1](#_ENREF_1)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | 0.17 | — | Brown et al. [[1](#_ENREF_1)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | 0.15 | — | Brown et al. [[1](#_ENREF_1)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | 0.04 | — | Brown et al. [[1](#_ENREF_1)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | predation exposure | — | 0.30 | Brown et al. [[10](#_ENREF_10)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | 0.32 | — | Brown et al. [[10](#_ENREF_10)] |
|  | *Poecilia reticulata* | lower | adult | natural | novel odour | — | -0.02 | — | Brown et al. [[10](#_ENREF_10)] |
|  | *Pomacentrus chrysurus* | lower | juvenile | unnatural | novel odour | predation exposure | 0.36 | 0.14 | Chivers et al. [[11](#_ENREF_11)] |
| **Amphibia (19)** | |  |  |  |  |  |  |  |  |
|  | *Ambystoma macrodactylum* | lower | adult | natural | novel odour | — | 0.02 | — | Murray et al. [[12](#_ENREF_12)] |
|  | *Bufo bufo* | lower | juvenile | unnatural | novel odour | — | -0.05 | — | Marquis et al. [[13](#_ENREF_13)] |
|  | *Bufo calamita* | lower | juvenile | natural | novel odour | — | 0.48 | — | Polo-Cavia et al. [[14](#_ENREF_14)] |
|  | *Eurycea sosorum* | lower | adult | unnatural | novel odour | — | 0.61 | — | DeSantis et al. [[15](#_ENREF_15)] |
|  | *Hyla arborea* | lower | juvenile | natural | novel odour | — | 0.26 | — | Polo-Cavia et al. [[14](#_ENREF_14)] |
|  | *Hyla regilla* | lower | juvenile | natural | novel odour | — | -0.22 | — | Chivers et al. [[16](#_ENREF_16)] |
|  | *Lithobates sylvaticus* | lower | juvenile | unnatural | novel odour | predation exposure | -0.07 | 0.29 | Brown et al. [[1](#_ENREF_1)] |
|  | *Lithobates sylvaticus* | lower | juvenile | unnatural | novel odour | predation exposure | 0.10 | 0.26 | Mitchell et al. [[17](#_ENREF_17)] |
|  | *Pelobates cultripes* | lower | juvenile | unnatural | novel odour | — | -0.11 | — | Polo-Cavia & Gomez-Mestre [[18](#_ENREF_18)] |
|  | *Pelobates cultripes* | lower | juvenile | natural | novel odour | — | 0.30 | — | Polo-Cavia et al. [[14](#_ENREF_14)] |
|  | *Pelophylax perezi* | lower | juvenile | natural | novel odour | — | 0.22 | — | Polo-Cavia et al. [[14](#_ENREF_14)] |
|  | *Pseudacris regilla* | lower | adult | natural | novel odour | — | -0.08 | — | Murray et al. [[12](#_ENREF_12)] |
|  | *Pseudacris regilla* | lower | juvenile | natural | novel odour | — | 0.05 | — | Pease & Wayne [[19](#_ENREF_19)] |
|  | *Rana aurora* | lower | juvenile | unnatural | novel odour | — | 0.40 | — | Kiesecker & Blaustein [[20](#_ENREF_20)] |
|  | *Rana boylii* | lower | juvenile | unnatural | novel odour | — | 0.30 | — | Paoletti et al. [[21](#_ENREF_21)] |
|  | *Rana cascadae* | lower | juvenile | unnatural | novel odour | — | 1.14 | — | Hartman & Lawler [[22](#_ENREF_22)] |
|  | *Rana luteiventris* | lower | adult | natural | novel odour | — | 0.14 | — | Murray et al. [[12](#_ENREF_12)] |
|  | *Rana temporaria* | lower | juvenile | unnatural | novel odour | — | 0.41 | — | Marquis et al. [[13](#_ENREF_13)] |
|  | *Taricha granulosa* | lower | adult | natural | novel odour | — | 0.07 | — | Murray et al. [[12](#_ENREF_12)] |
| **Aves (15)** | |  |  |  |  |  |  |  |  |
|  | *Corvus orru* | lower | adult | natural | novel object | — | 1.38 | — | Brown and Jones [[23](#_ENREF_23)] |
|  | *Dendroica pensylvanica* | lower | juvenile | unnatural | novel area | — | 1.64 | — | Greenberg [[24](#_ENREF_24)] |
|  | *Dendroica pensylvanica* | lower | juvenile | natural | novel area | social isolation | — | 0.16 | Greenberg [[25](#_ENREF_25)] |
|  | *Melospiza georgiana* | lower | adult | natural | novel object | — | 0.80 | — | Greenberg [[26](#_ENREF_26)] |
|  | *Melospiza georgiana* | lower | juvenile | natural | novel object | — | 1.57 | — | Greenberg [[27](#_ENREF_27)] |
|  | *Melospiza georgiana* | lower | juvenile | unnatural | novel object | — | 1.24 | — | Greenberg [[28](#_ENREF_28)] |
|  | *Melospiza melodia* | lower | adult | natural | novel object | — | 0.37 | — | Greenberg [[26](#_ENREF_26)] |
|  | *Melospiza melodia* | lower | juvenile | natural | novel object | — | 0.78 | — | Greenberg [[27](#_ENREF_27)] |
|  | *Melospiza melodia* | lower | juvenile | unnatural | novel object | — | 1.38 | — | Greenberg [[28](#_ENREF_28)] |
|  | *Milvago chimango* | tertiary | adult | natural | novel object | — | 0.14 | — | Biondi et al. [[29](#_ENREF_29)] |
|  | *Milvago chimango* | tertiary | juvenile | natural | novel object | — | 0.12 | — | Biondi et al. [[29](#_ENREF_29)] |
|  | *Saltatricula multicolor* | lower | adult | natural | novel object | — | 1.01 | — | Camin et al. [[30](#_ENREF_30)] |
|  | *Sturnus vulgaris* | lower | adult | unnatural | novel object | social isolation | 0.61 | -0.16 | Apfelbeck & Raess [[31](#_ENREF_31)] |
|  | *Taeniopygia guttata* | lower | adult | unnatural | novel object | social isolation | 1.00 | 1.29 | Coleman & Mellgren [[32](#_ENREF_32)] |
|  | *Zonotrichia capensis* | lower | adult | natural | novel object | — | 1.10 | — | Camin et al. [[30](#_ENREF_30)] |
| **Gastropoda (2)** | |  |  |  |  |  |  |  |  |
|  | *Haustrum vinosum* | lower | adult | natural | novel odour | — | 0.45 | — | Freeman et al. [[33](#_ENREF_33)] |
|  | *Lymnaea stagnalis* | lower | adult | natural | novel odour | — | 0.09 | — | Dalesman et al. [[34](#_ENREF_34)] |
| **Malacostraca (2)** | |  |  |  |  |  |  |  |  |
|  | *Palaemonetes paludosus* | lower | adult | natural | novel odour | — | 0.13 | — | Dunlop-Hayden & Rehage [[7](#_ENREF_7)] |
|  | *Palaemonetes paludosus* | lower | adult | natural | novel visual cue | — | 0.10 | — | Dunlop-Hayden & Rehage [[7](#_ENREF_7)] |
|  |  |  |  |  |  |  |  |  |  |
| **Mammalia (28)** | |  |  |  |  |  |  |  |  |
|  | *Bos taurus* | lower | juvenile | unnatural | novel object | social isolation | — | 0.52 | Meagher et al. [[35](#_ENREF_35)] |
|  | *Canis latrans* | tertiary | adult | unnatural | novel object | — | 0.88 | — | Mettler & Shivik [[36](#_ENREF_36)] |
|  | *Canis lupus* | tertiary | juvenile | unnatural | novel object | social isolation | — | -0.70 | Moretti et al. [[37](#_ENREF_37)] |
|  | *Canis lupus familiaris* | tertiary | adult | unnatural | novel object | social isolation | — | -0.26 | Moretti et al. [[37](#_ENREF_37)] |
|  | *Canis lupus familiaris* | tertiary | juvenile | unnatural | novel object | — | 0.18 | — | Pluijmakers et al. [[38](#_ENREF_38)] |
|  | *Homo sapiens* | tertiary | adult | unnatural | novel sound | predation exposure | — | 0.06 | Brocke et al. [[39](#_ENREF_39)] |
|  | *Macaca fascicularis* | lower | juvenile | unnatural | novel object | social isolation | 0.32 | 0.20 | Timmermans et al. [[40](#_ENREF_40)] |
|  | *Mesocricetus auratus* | lower | juvenile | unnatural | novel odour | castration | — | 0.34 | Cornwell-Jones & Kovanic [[41](#_ENREF_41)] |
|  | *Mesocricetus auratus* | lower | adult | unnatural | novel odour | castration | — | 1.23 | Cornwell-Jones & Kovanic [[41](#_ENREF_41)] |
|  | *Mus musculus* | lower | adult | unnatural | novel area | drug | 1.29 | 0.15 | Agmo & Belzung [[42](#_ENREF_42)] |
|  | *Mus musculus* | lower | adult | unnatural | novel area | drug | — | 0.55 | Kopp et al. [[43](#_ENREF_43)] |
|  | *Mus musculus* | lower | adult | unnatural | novel object | social isolation | — | 0.22 | Laviola & Loggi [[44](#_ENREF_44)] |
|  | *Mus musculus* | lower | adult | unnatural | novel area | drug | — | 1.28 | Laviola et al. [[45](#_ENREF_45)] |
|  | *Mus musculus* | lower | adult | unnatural | novel object | drug | — | 1.21 | Laviola et al. [[45](#_ENREF_45)] |
|  | *Mus musculus* | lower | adult | unnatural | novel area | drug | — | 0.41 | Sarowar et al. [[46](#_ENREF_46)] |
|  | *Mus musculus* | lower | adult | unnatural | novel area | drug | — | 0.68 | Sarowar et al. [[46](#_ENREF_46)] |
|  | *Mus musculus* | lower | adult | unnatural | novel object | drug | -0.10 | 0.77 | Sarowar et al. [[46](#_ENREF_46)] |
|  | *Peromyscus californicus* | lower | adult | unnatural | novel area | social isolation | — | 0.68 | Chauke et al. [[47](#_ENREF_47)] |
|  | *Peromyscus californicus* | lower | adult | unnatural | novel object | social isolation | — | 0.83 | Chauke et al. [[47](#_ENREF_47)] |
|  | *Pseudalopex culpaeus* | tertiary | adult | natural | novel object | — | 0.09 | — | Travaini et al. [[48](#_ENREF_48)] |
|  | *Pseudalopex griseus* | tertiary | adult | natural | novel object | — | 0.10 | — | Travaini et al. [[48](#_ENREF_48)] |
|  | *Rattus norvegicus* | lower | adult | unnatural | novel area | drug | — | 1.07 | Siemiatkowski [[49](#_ENREF_49)] |
|  | *Rattus norvegicus* | lower | adult | natural | novel object | — | 1.14 | — | Stryjek & Modlinska [[50](#_ENREF_50)] |
|  | *Rattus norvegicus* | lower | adult | unnatural | novel area | brain lesion | — | 1.59 | Velley et al. [[51](#_ENREF_51)] |
|  | *Rattus norvegicus* | lower | adult | unnatural | novel area | brain lesion | — | 0.67 | Walker & Winn [[52](#_ENREF_52)] |
|  | *Rattus norvegicus* | lower | adult | unnatural | novel area | brain lesion | — | 0.70 | Walker & Winn [[52](#_ENREF_52)] |
|  | *Rattus norvegicus* | lower | adult | unnatural | novel area | brain lesion | — | 0.80 | Walker & Winn [[52](#_ENREF_52)] |
|  | *Rattus norvegicus* | lower | adult | unnatural | novel area | brain lesion | — | 0.94 | Walker & Winn [[52](#_ENREF_52)] |

**References**

[1] Brown, G.E., Ferrari, M.C., Elvidge, C.K., Ramnarine, I. & Chivers, D.P. 2013 Phenotypically plastic neophobia: a response to variable predation risk. *Proc Roy Soc B* **280**, 20122712.

[2] Brown, G.E., Chivers, D.P., Elvidge, C.K., Jackson, C.D. & Ferrari, M.C. 2014 Background level of risk determines the intensity of predator neophobia in juvenile convict cichlids. *Behav Ecol Sociobiol* **68**, 127-133.

[3] Brown, G.E., Demers, E.E., Joyce, B.J., Ferrari, M.C. & Chivers, D.P. 2015 Retention of neophobic predator recognition in juvenile convict cichlids: effects of background risk and recent experience. *Anim Cogn* **18**, 1331-1338.

[4] Brown, G.E., Jackson, C.D., Joyce, B.J., Chivers, D.P. & Ferrari, M.C. 2016 Risk-induced neophobia: does sensory modality matter? *Anim Cogn* **19**, 1143-1150.

[5] Joyce, B.J., Demers, E.E.M., Chivers, D.P., Ferrari, M.C.O. & Brown, G.E. 2016 Risk-induced neophobia is constrained by ontogeny in juvenile convict cichlids. *Anim Behav* **114**, 37-43.

[6] Abudayah, W. & Mathis, A. 2016 Predator recognition learning in rainbow darters *Etheostoma caeruleum*: specific learning and neophobia. *J Fish Biol* **89**, 1612-1623.

[7] Dunlop-Hayden, K. & Rehage, J.S. 2011 Antipredator behavior and cue recognition by multiple Everglades prey to a novel cichlid predator. *Behaviour* **148**, 795-823.

[8] Meuthen, D., Baldauf, S.A., Bakker, T.C.M. & Thuenken, T. 2016 Predator-induced neophobia in juvenile cichlids. *Oecologia* **181**, 947-958.

[9] Crane, A.L., Mathiron, A.G.E. & Ferrari, M.C.O. 2015 Social learning in a high-risk environment: incomplete disregard for the ‘minnow that cried pike’ results in culturally transmitted neophobia. *Proc Roy Soc B* **282**.

[10] Brown, G.E., Elvidge, C.K., Ramnarine, I., Ferrari, M.C. & Chivers, D.P. 2015 Background risk and recent experience influences retention of neophobic responses to predators. *Behav Ecol Sociobiol* **69**, 737-745.

[11] Chivers, D.P., McCormick, M.I., Mitchell, M.D., Ramasamy, R.A. & Ferrari, M.C. 2014 Background level of risk determines how prey categorize predators and non-predators. *Proc Roy Soc B* **281**, 20140355.

[12] Murray, D., Roth, J. & Wirsing, A. 2004 Predation risk avoidance by terrestrial amphibians: the role of prey experience and vulnerability to native and exotic predators. *Ethology* **110**, 635-647.

[13] Marquis, O., Saglio, P. & Neveu, A. 2004 Effects of predators and conspecific chemical cues on the swimming activity of *Rana temporaria* and *Bufo bufo* tadpoles. *Arch Hydrobiol* **160**, 153-170.

[14] Polo-Cavia, N., Gonzalo, A., López, P. & Martín, J. 2010 Predator recognition of native but not invasive turtle predators by naïve anuran tadpoles. *Anim Behav* **80**, 461-466.

[15] DeSantis, D.L., Davis, D.R. & Gabor, C.R. 2013 Chemically mediated predator avoidance in the barton springs salamander (*Eurycea sosorum*). *Herpetologica* **69**, 291-297.

[16] Chivers, D.P., Wildy, E.L., Kiesecker, J.M. & Blaustein, A.R. 2001 Avoidance response of juvenile pacific treefrogs to chemical cues of introduced predatory bullfrogs. *J Chem Ecol* **27**, 1667-1676.

[17] Mitchell, M.D., Chivers, D.P., Brown, G.E. & Ferrari, M.C.O. 2016 Living on the edge: how does environmental risk affect the behavioural and cognitive ecology of prey? *Anim Behav* **115**, 185-192.

[18] Polo‐Cavia, N. & Gomez‐Mestre, I. 2014 Learned recognition of introduced predators determines survival of tadpole prey. *Funct Ecol* **28**, 432-439.

[19] Pease, K.M. & Wayne, R.K. 2014 Divergent responses of exposed and naive Pacific tree frog tadpoles to invasive predatory crayfish. *Oecologia* **174**, 241-252.

[20] Kiesecker, J.M. & Blaustein, A.R. 1997 Population differences in responses of red-legged frogs (*Rana aurora*) to introduced bullfrogs. *Ecology* **78**, 1752-1760.

[21] Paoletti, D.J., Olson, D.H. & Blaustein, A.R. 2011 Responses of foothill yellow-legged frog (*Rana boylii*) larvae to an introduced predator. *Copeia* **2011**, 161-168.

[22] Hartman, R. & Lawler, S. 2014 Evidence for contemporary evolution of behavioural responses to introduced fish. *Anim Behav* **97**, 213-220.

[23] Brown, M.J. & Jones, D.N. 2016 Cautious Crows: Neophobia in Torresian Crows (*Corvus orru*) Compared with Three Other Corvoids in Suburban Australia. *Ethology* **122**, 726-733.

[24] Greenberg, R. 1984 Neophobia in the foraging-site selection of a neotropical migrant bird - an experimental study. *P Nat Acad Sci USA* **81**, 3778-3780.

[25] Greenberg, R. 1987 Social facilitation does not reduce neophobia in chestnut-sided warblers (Parulinae, *Dendroica pensylvanica*). *Journal of Ethology* **5**, 7-10.

[26] Greenberg, R. 1989 Neophobia, aversion to open space, and ecological plasticity in song and swamp sparrows. *Can J Zool* **67**, 1194-1199.

[27] Greenberg, R. 1990 Feeding neophobia and ecological plasticity: a test of the hypothesis with captive sparrows. *Anim Behav* **39**, 375-379.

[28] Greenberg, R. 1992 Differences in neophobia beween naive song and swamp sparrows. *Ethology* **91**, 17-24.

[29] Biondi, L.M., Bo, M.S. & Vassallo, A.I. 2010 Inter-individual and age differences in exploration, neophobia and problem-solving ability in a Neotropical raptor (*Milvago chimango*). *Anim Cogn* **13**, 701-710.

[30] Camin, S.R., Martin-Albarracin, V., Jefferies, M. & Marone, L. 2016 Do neophobia and dietary wariness explain ecological flexibility? An analysis with two seed-eating birds of contrasting habits. *J Avian Biol* **47**, 245-251.

[31] Apfelbeck, B. & Raess, M. 2008 Behavioural and hormonal effects of social isolation and neophobia in a gregarious bird species, the European starling (*Sturnus vulgaris*). *Hormones and Behavior* **54**, 435-441.

[32] Coleman, S.L. & Mellgren, R.L. 1994 Neophobia when feeding alone or in flocks in zebra finches, *Taeniopygia guttata*. *Anim Behav* **48**, 903-907.

[33] Freeman, A.S., Wright, J.T., Hewitt, C.L., Campbell, M.L. & Szeto, K. 2013 A gastropod’s induced behavioral and morphological responses to invasive *Carcinus maenas* in Australia indicate a lack of novelty advantage. *Biol Invasions* **15**, 1795-1805.

[34] Dalesman, S., Rundle, S.D. & Cotton, P.A. 2007 Predator regime influences innate anti-predator behaviour in the freshwater gastropod Lymnaea stagnalis. *Freshwater Biology* **52**, 2134-2140.

[35] Meagher, R.K., Daros, R.R., Costa, J.H.C., von Keyserlingk, M.A.G., Hoetzel, M.J. & Weary, D.M. 2015 Effects of Degree and Timing of Social Housing on Reversal Learning and Response to Novel Objects in Dairy Calves. *PloS One* **10**, e0132828.

[36] Mettler, A.E. & Shivik, J.A. 2007 Dominance and neophobia in coyote (*Canis latrans*) breeding pairs. *Appl Anim Behav Sci* **102**, 85-94.

[37] Moretti, L., Hentrup, M., Kotrschal, K. & Range, F. 2015 The influence of relationships on neophobia and exploration in wolves and dogs. *Anim Behav* **107**, 159-173.

[38] Pluijmakers, J., Appleby, D.L. & Bradshaw, J.W.S. 2010 Exposure to video images between 3 and 5 weeks of age decreases neophobia in domestic dogs. *Appl Anim Behav Sci* **126**, 51-58.

[39] Brocke, B., Armbruster, D., Muller, J., Hensch, T., Jacob, C., Lesch, K., Kirschbaum, C. & Strobel, A. 2006 Serotonin transporter gene variation impacts innate fear processing: acoustic startle response and emotional startle. *Mol Psychiatr* **11**, 1106-1112.

[40] Timmermans, P.J.A., Vochteloo, J.D. & Vossen, J.M.H. 1997 Mobility of surrogate mothers and persistent neophobia in cynomolgus monkeys (*Macaca fascicularis*). *Primates* **38**, 139-148.

[41] Cornwell-Jones, C.A. & Kovanic, K. 1981 Testosterone reduces olfactory neophobia in male golden-hamsters. *Phys Behav* **26**, 973-977.

[42] Agmo, A. & Belzung, C. 1998 Interactions between dopamine and GABA in the control of ambulatory activity and neophobia in the mouse. *Phamacol Biochem Behavh* **59**, 239-247.

[43] Kopp, C., Vogel, E., Rettori, M.C., Delagrange, P., Renard, P., Lesieur, D. & Misslin, R. 1999 Antagonistic effects of S 22153, a new mt1 and MT2 receptor ligand, on the neophobia-reducing properties of melatonin in BALB/c mice. *Phamacol Biochem Behavh* **64**, 131-136.

[44] Laviola, G. & Loggi, G. 1992 Sexual segregation in infancy and bidirectional Benzodiazepine effects on hot-plate response and neophobia in adult mice. *Phamacol Biochem Behavh* **42**, 865-870.

[45] Laviola, G., Pick, C.G., Yanai, J. & Alleva, E. 1992 8-arm maze performance, neophobia, and hippocampla cholinergic alterations after prenatal Oxazepam in mice. *Brain Res Bull* **29**, 609-616.

[46] Sarowar, T., Grabrucker, S., Foehr, K., Mangus, K., Eckert, M., Bockmann, J., Boeckers, T.M. & Grabrucker, A.M. 2016 Enlarged dendritic spines and pronounced neophobia in mice lacking the PSD protein RICH2. *Mol Brain* **9**, 28.

[47] Chauke, M., de Jong, T.R., Garland, T. & Saltzman, W. 2012 Paternal responsiveness is associated with, but not mediated by reduced neophobia in male California mice (*Peromyscus californicus*). *Phys Behav* **107**, 65-75.

[48] Travaini, A., Ivan Vassallo, A., Oscar Garcia, G., Isabel Echeverria, A., Cristina Zapata, S. & Nielsen, S. 2013 Evaluation of neophobia and its potential impact upon predator control techniques: A study on two sympatric foxes in southern Patagonia. *Behav Process* **92**, 79-87.

[49] Siemiatkowski, M., Maciejak, P., Wislowska, A., Zienowicz, M., Sienkiewicz-Jarosz, H., Szyndler, J., Czlonkowska, A.I., Bidzinski, A., Gryczynska, A. & Plaznik, A. 2004 Neophobia and cortical and subcortical binding of the dopamine D-2 receptor antagonist H-3 -raclopride. *Life Sci* **76**, 753-761.

[50] Stryjek, R. & Modlinska, K. 2016 Neophobia in wild rats is elicited by using bait stations but not bait trays. *Int J Pest Manage* **62**, 158-164.

[51] Velley, L., Mormede, P. & Kempf, E. 1988 Neurochemical lesion of the lesion of the nucleus locus coeruleus increases neophobia in a specific exploration task but does not modify endocrine response to moderate stress. *Phamacol Biochem Behavh* **29**, 1-7.

[52] Walker, S.C. & Winn, P. 2007 An assessment of the contributions of the pedunculopontine tegmental and cuneiform nuclei to anxiety and neophobia. *Neuroscience* **150**, 273-290.