



Varal 9ata ra thit tate r9(QTL)a t t ra a - 9 D H rtv.B. H 9 ra.*, D a P 99 t Sar A <math>ra, Ta a Rar It D 9 a a, J Br t 9, Var Tr a9, . Rar G ra, Ag t S -H 19, Da ra, K' tH r r, B f a P 99 t G L a a, D r 49 M. R'

1. r^{2} r^{2} r

tar, 1995). La a tô 9 a t Ma a 9, 1983; M t tar, 2003; T 9a, a Grint, 2005; It tar, 2007). Crista 94 a 99t 9t T 9 9a 9 a 99 a t9(Rara, J, 9, 1982; P tt 1070 P tta L B rtr (1979)a tr T 9 9 9 9 9 19 (Rat a J 9) 9 9 2; P It a Aa, 1979; P Ita L B T 1979) a b (C)9 a I b B (C) It b (C)1979) a b (G)1 a 1996) (C)1 a 2 9 (C)1 a 2 9 (C)1 a 3 9 (C)1 a 3 9 (C)1 a 3 9 (C)1 a 4 (G)1 a 5 (G)1 a 5 (G)1 a 6 (G)1 a 7 (Cr tt tar, 2001; R tar, 2002)a, br 49aa r ATR 9 (PMCA) (Va r a, P a Ot 2004). I D tag 9 br Ga^{2+} ta 9 t r 9 ta 9 9a, br 9 ta Wt Ga^{2+} ta 9 t r 9 ta 9 a 9 9a, br 9 ta Wt Ga^{2+} ta 9 t r 9 ta 9 a 9 9a, br 9 ta Wt Ga^{2+} ta 9 t r 9 ta 9 a 9 9a, br 9 ta Wt Ga^{2+} ta 9 t r 9 ta 9 a 9 a br 9 ta Wt Ga^{2+} 9 t r 9 ta 9 a 9 ba br 9 ta Wt Ga^{2+} 9 t r 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19). Ca r tr 9 9 a t t a 9 (H tar, r 19 a t t a 9 (H tar, 1996; M 9 - Or a, 1989; Sa r 19 1 br a a 9 (B th a tar, 1996; M 9 - Or a, 1989; Sa r 19 1 br a a 9 (B th a tar, 1996; M 9 - Or a, 1989; Sa r 19 1 br a a 9 (B th a tar, 1996; M 9 - Or a, 1989; Sa r 19 1 br a a 9 (B th a tar, 1996; M 9 - Or a, 1989; Sa r 19 1 br a a 19 (H tar, 2003) r 19 4; H 9 r tar, 2003; M r tar, 2003). r batat 9 9, r a 19 1 c 19 9 a T 9 9, r a 19 1 c 19 9 a T 9 9, r a 19 1 c 19 9 a T 9 9, r a 19 1 c 19 9 a T 9 9, r a 19 1 c 19 1 9 a C a r 1, 2003; r 10 a t 10 1 c 10 9 a T 9 9, r a 1 1 c 19 1 9 a C a r 1, 2003; r 10 a 1 1 c 19 1 10 1 c 10 1 c

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Ma a , 2000).

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2.3. 7 7 7 1 1 1

RIS a 9 at 25 °C I Sh tD. M r⁴ F r⁴ 4-24(G a B at 5 C a B a 5 C a B b a 5 C a B b a 5 C a B b a 5 C a B b a 5 C a B b a 5 C a B b b c b b b b c b b c b b c b b c b b c b b c

2.4. B

DAM9 r_1^{\prime} the r_2^{\prime} r_1^{\prime} r_2^{\prime} r_3^{\prime} r_4^{\prime} r_4^{\prime} r_4^{\prime} r_5^{\prime} $r_5^{$

a Str 9a, raa 9999a9, ab rt Stat, at rig, "(10a) a 7. bra, ar 99at 10a a 11, r 94 brat r9 ab ran 99at 10a a a a r9, Rr br at r9 ta (M, M, M, C, a), I_1 , Sr_1 , OR).

2.5. , ,

DAM A \mathbf{t} \mathbf{t} \mathbf{c} \mathbf{r}_{1} \mathbf{t} $\mathbf{0}$ \mathbf{r}_{1} \mathbf{t} \mathbf{t}_{1} $\mathbf{0}$ \mathbf{t}_{2} \mathbf{t}_{1} \mathbf{t}_{2} \mathbf{t}_{1} \mathbf{t}_{2} \mathbf{t}_{1} \mathbf{t}_{2} \mathbf{t}_{1} \mathbf{t}_{2} \mathbf{t}_{2} \mathbf{t}_{1} \mathbf{t}_{2} \mathbf{t}_{2} \mathbf{t}_{1} \mathbf{t}_{2} \mathbf{t}_{2}

2.6.

La r^{4} , ga, ra^{4} a ra^{4} , t t t t a, a, gaa ra^{4} , ra^{5} , b G, a, L, a, M, (GLM), r^{4} , ra^{4}

2.7.

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2.8. / ...

Mar9 br9 ar9 rar r9 brat r9br ra art\$t, 9 a 9 br ra ara, a, 9 br rt ara, a, 9 br rt br 9 batbr a, a, 9 rr r, r 9 ar9 br c t r 1 br tbr 9 batbr a, a, 9 9 rr r, r 7 . Tr 9 ar9 br c t r 1 br tTabrit rar rar 1 r tC r Pa9 a Ma\$9 s to tr at br G D at t

U, C, H, a t tr tr 9 9 1, H 9 ta. (2003). T ta I, h a 9 t a 9 t a 9 522. • • • • • • • • 3.1. / - - -



3.3.

F r^{4} , 99 QTLa a 99 r^{6} ADA t r^{4} ta La 1 " a r r^{4} ta r^{4} a r^{4} ta r^{4} ta La 39 r^{4} , 16 t a^{94} b r^{4} ta r^{4} ta r^{4} ta r^{4} 94 r^{4} ; (ADA a r^{4} ta ADA r^{4} r^{4}) (ADA a r^{4} r^{4} ta r^{4} + ADA r^{4}). S ADA a 9 a 9 a 1 a ta r^{4} a ta r^{4} 19 r^{6} b 9 r^{4} a r^{4} a^{94} r^{4} r^{4} r^{4} 19 r^{6} b 9 r^{4} a r^{4} r^{4

and by using the roo lines we were able to locate a genetic site on Chromosome 2, 30AB, involved in that interaction. We are thus able, in this species, to study behavioral (Hirsch et al., 2003), synaptic (He et al., unpublished; Morley et al., 2003) and now genetic changes resulting from chronic lead exposure during

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- The first field for the field

Si a, a, D, G, MA, A, KRR, Ma a TF. P, t (St ta), t G, t 92008;179:1079 88. Si, F, R, GW, KD, AH, at 9 a 7 9599 a 9 a at 9 a t 9 9 M C B r 1994;131:25 33. Sr, S, D a E, P Stable 9 a 9 a a (1 - 3) a (1