

Identifying new susceptibility genes on dopaminergic and serotonergic pathways for the framing effect in decision-making

H G^{1,2} J L^{3,4} G⁵ J⁶ F^{7,8}
 H G^{1,2} J L^{3,4} G⁵ J⁶ F^{7,8}
¹C B C² C³ C⁴ E⁵ C⁶ C⁷ C⁸ C⁹ C¹⁰ C¹¹
 B F^{1,2} B^{3,4} B^{5,6} C^{7,8} C^{9,10} C^{11,12} C^{13,14} C^{15,16} C^{17,18} C^{19,20} C^{21,22} C^{23,24} C^{25,26} C^{27,28} C^{29,30} C^{31,32} C^{33,34} C^{35,36} C^{37,38} C^{39,40} C^{41,42} C^{43,44} C^{45,46} C^{47,48} C^{49,50} C^{51,52} C^{53,54} C^{55,56} C^{57,58} C^{59,60} C^{61,62} C^{63,64} C^{65,66} C^{67,68} C^{69,70} C^{71,72} C^{73,74} C^{75,76} C^{77,78} C^{79,80} C^{81,82} C^{83,84} C^{85,86} C^{87,88} C^{89,90} C^{91,92} C^{93,94} C^{95,96} C^{97,98} C^{99,100} C^{101,102} C^{103,104} C^{105,106} C^{107,108} C^{109,110} C^{111,112} C^{113,114} C^{115,116} C^{117,118} C^{119,120} C^{121,122} C^{123,124} C^{125,126} C^{127,128} C^{129,130} C^{131,132} C^{133,134} C^{135,136} C^{137,138} C^{139,140} C^{141,142} C^{143,144} C^{145,146} C^{147,148} C^{149,150} C^{151,152} C^{153,154} C^{155,156} C^{157,158} C^{159,160} C^{161,162} C^{163,164} C^{165,166} C^{167,168} C^{169,170} C^{171,172} C^{173,174} C^{175,176} C^{177,178} C^{179,180} C^{181,182} C^{183,184} 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C^{1581,1582} C^{1583,1584} C^{1585,1586} C^{1587,1588} C^{1589,1590} C^{1591,1592} C^{1593,1594} C^{1595,1596} C^{1597,1598} C^{1599,1600} C^{1601,1602} C^{1603,1604} C^{1605,1606} C^{1607,1608} C^{1609,1610} C^{1611,1612} C^{1613,1614} C^{1615,1616} C^{1617,1618} C^{1619,1620} C^{1621,1622} C^{1623,1624} C¹

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Materials and methods

Participants

[illegible]

The behavioral test

et al. (2016), et al (2006) (et al., 2009; et al., 2013). A

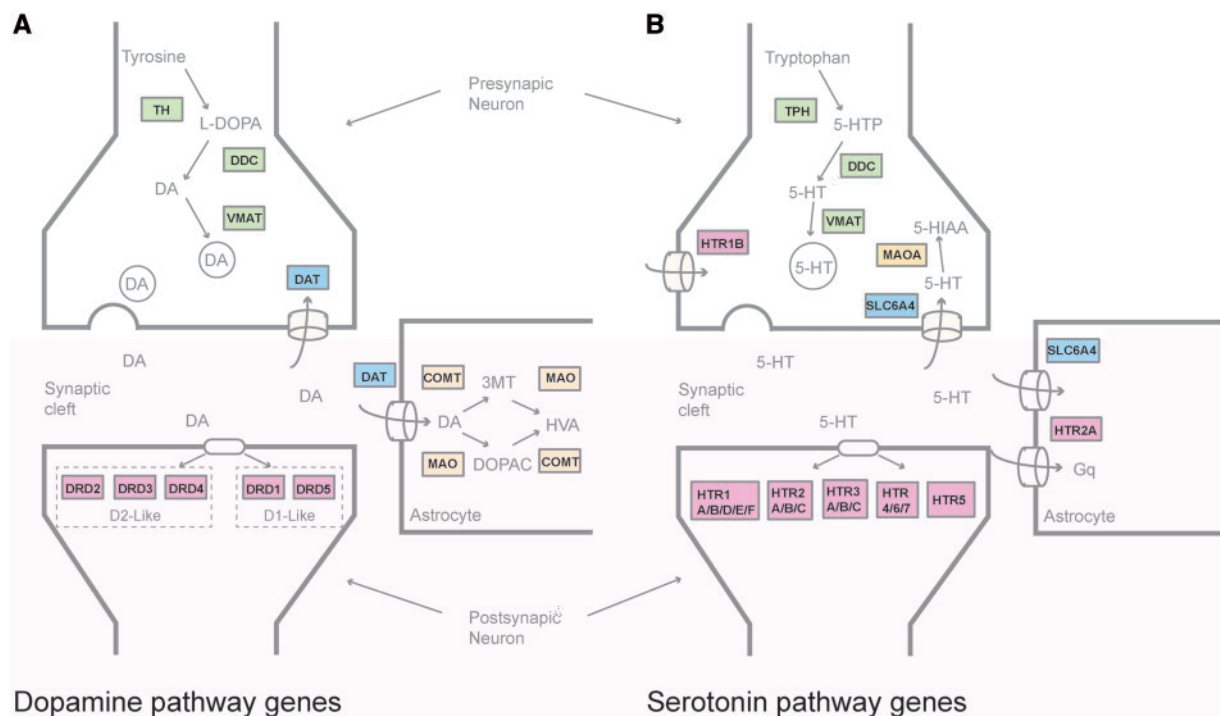
$\chi^2 = 1317$, $df = 1$, $P < 0.001$, $\phi^2 = 0.905 \pm 0.001$ (90.5%); $\chi^2 = 1317$, $df = 1$, $P < 0.001$, $\phi^2 = 0.579 \pm 0.001$ (57.9%). The results of the chi-square test indicated that the observed frequencies of the different genotypes were significantly different from the expected frequencies ($P < 0.001$). The results of the chi-square test indicated that the observed frequencies of the different genotypes were significantly different from the expected frequencies ($P < 0.001$). The results of the chi-square test indicated that the observed frequencies of the different genotypes were significantly different from the expected frequencies ($P < 0.001$).

Genotyping

[illegible]

Gene selection and preprocessing

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)
 -L- (DDC),
 (VMAT2), ()
 (DRD1-5), ()
 (DAT1,

[illegible]

SLC6A3), $-O_{-11}$ (COMT), m
A (MAOA) m B (MAOB) (m ,
 m et al., 2011; et al., 2014) m
() 5-
(TPH 1 TPH2), () m
 m (HTR1A/B/D/E/F, HTR2A/B/C,
HTR3A/B/C/D/E, HTR4, HTR5A/B, HTR6-7, HTR1-4), ()
(SLC6A4) (B m et al., 2016) (F m 1). HTR3D
HTR3E m m et al., 2003;
B m : G E E m , :// m . m). DRD4,
DRD5, HTR1A/B/D/F, HTR5B, HTRA2 HTRA4
 m m m m
 m m G A m
 m m LI K (m et al., 2007; et al., 2014):
() m m H E 10^{-4} m
 m (AF) 0.1 m m 0.05;
() 0.05 () m m m
 m m m m G A
 m m LI K (m et al., 2006; m et al., 2007)
 m m LI K (m et al., 2007)
(et al., 2006). F m m
 m 19

Principle component analysis

A

C_m LD m

G A m LD (CA) LD (A, 2008).

(C) 90% (A, 2008; et al., 2014).

(LD m),

C m

LD (D et al., 2001; et al., 2001; G et al., 2002), 6 90.2% (1). F

m DDC 47 G A

Gene-behavior association analysis

2011,). β (β A, 2008; H et al., β . F

Table 1.

		F ₀	G	C	% ₁	R ²	A	R ²	Partial-F	p _{unc}	p _{perm}	p _{emp}	
D	m	C	/	TH	2	2	100	0.001	<0.001	0.712	0.491	0.484	0.485
				DDC	47	6	90	0.010	0.006	2.329	0.031*	0.031*	0.038*
				VMAT2	17	9	90	0.003	<0.001	0.501	0.875	0.878	0.862
				DAT1	16	6	91	0.005	<0.001	1.027	0.406	0.408	0.466
				COMT	18	6	91	0.012	0.009	2.648	0.015*	0.014*	0.027*
				MAOA	6	3	90	0.003	<0.001	1.143	0.331	0.325	0.346
				MAOB	37	5	92	0.005	0.002	1.367	0.234	0.232	0.293
				DRD1	1	1	100	0.000	<0.001	0.097	0.756	0.756	0.780
				DRD2	16	8	90	0.004	<0.001	0.721	0.673	0.680	0.770
				DRD3	41	12	92	0.014	0.006	1.617	0.081	0.081	0.099
				TPH1	2	2	100	0.001	<0.001	0.719	0.487	0.476	0.477
				TPH2	6	4	93	0.002	<0.001	0.519	0.721	0.718	0.753
				SLC6A4	8	3	90	0.006	0.004	2.795	0.039*	0.038*	0.037*
				HTR1E	16	6	91	0.007	0.003	1.545	0.160	0.158	0.199
				HTR2A	44	12	90	0.013	0.005	1.492	0.120	0.121	0.123
				HTR2B	3	2	100	0.001	<0.001	0.596	0.551	0.551	0.519
				HTR2C	22	8	90	0.006	<0.001	0.920	0.499	0.499	0.517
				HTR3A	4	4	100	0.001	<0.001	0.364	0.834	0.831	0.833
				HTR3B	22	6	90	0.001	<0.001	0.228	0.968	0.967	0.970
				HTR3C	2	1	99	0.000	<0.001	0.124	0.725	0.724	0.677
HTR4	46	14	91	0.015	0.005	1.422	0.135	0.136	0.075				
HTR5A	7	4	92	0.006	0.003	1.866	0.114	0.114	0.118				
HTR6	2	1	100	0.000	<0.001	0.000	0.990	0.992	0.982				
HTR7	22	6	93	0.006	0.002	1.316	0.247	0.242	0.301				
HTRA1	34	9	91	0.007	<0.001	0.974	0.460	0.456	0.441				
HTRA3	19	5	92	0.004	0.001	1.133	0.341	0.356	0.370				

* $P < 0.05$.

Principle component analysis) . E

$$Fk, df(full) = \frac{RSS(reduced) - RSS(full)}{df(reduced) - df(full)} / \frac{RSS(full)}{df(full)} \quad (1)$$

2003), m (E) (1). A, m = 0.62% ± 0.08%

Gene-behavior association results (COMT, SLC6A, DDC MAOB;).

, C

(COMT: $P=0.028$, SLC6A4: $P=0.038$, DDC: $P=0.070$, MAOB: $P=0.029$),

Permutation tests

(H et al., 2011 ; et al., 2014).
 (B et al., 2001; et al., 2004; G et al., 2008; G et al., 2014),
 (P).
 (C et al., 2001).

Empirical tests

$\frac{1}{18}$ $\frac{1}{18}$

$\frac{1}{18}$ $\frac{1}{18}$ m $\frac{1}{18}$ m

(et al., 2014). E_n

Protein–protein interactions

[illegible]

SNP–SNP interactions

[illegible]

Results

Behavioral results

C et al., 2009; et al., 2013; G et al., 2016), et al., 2006;

$\beta = 59.75 \pm 0.47\%$ (E) vs $45.23 \pm 0.46\%$
 r_1 , $t_{(1316)} = 42.08$, $P < 0.0001$.
 r_1 (F, 1990; H, 2010), 2 (F, 2010) vs (A - A) r_1
 r_1 , $F_{(1, 1315)} = 15.587$, $P < 0.001$, $F_{(1, 1314)} = 14.701$, $P < 0.001$,
 r_1 , $\beta = -0.052$, $t = -1.903$, $P = 0.057$.
 (et al., 2011). (2009; et al., 2011).

Gene-behavior association results

C

et al., 2016),

COMT

$r^2 = 0.009$,

$-F = 2.648$, $P = 0.015$.

et al. (2009)

SLC6A4

$r^2 = 0.004$,

$-F = 2.795$, $P = 0.039$.

$r^2 = 0.006$,

$-F = 2.329$, $P = 0.031$,

0.6%

(1).

10 000

(1), COMT:

$P = 0.038$, DDC:

$P = 0.014$,

$P = 0.031$.

G

B

(FD)

D

G A

(1),

(1), COMT:

$P = 0.027$, SLC6A4:

$P = 0.037$, DDC:

$P = 0.038$.

B

MAOA/B

MAOB $R^2 = 0.028$,
 $-F = 2.499$, $P = 0.031$.
 $(P = 0.038)$ $(P = 0.043)$.
 MAOA
 CA
 SLC6A4
 COMT
 DDC
 MAOB
 I G
 (COMT, SLC6A4, DDC MAOB)
 G CA F 1).
 (H , 1975),
 F 2
 COMT 4680
 LD

m \mathbb{R} \mathbb{R} \mathbb{R}
DDC \mathbb{R} MAOB \mathbb{R} m m \mathbb{R} \mathbb{R}
FC- m \mathbb{R} \mathbb{R} \mathbb{R} m \mathbb{R}

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