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Department of Psychology, McGovern Institute for Brain Research at PKU, Key Laboratory on Machine Perception (Ministry of Education), Peking University, Beijing, 100080, seartrophysiological_evidence_found_in_rats_or_hamsters_with_behavioral_evidence_of_tinnitus. Behaviorally, we tested for tinnitus using a conditioned suppression/avoidance paradigm, gap detection acoustic re fl

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1. Introduction

10–15% (A, 1989) 33% (, 2002, 2007). (, 2006; , 2007). (BA, 2013).

Abbreviations: A, ; AW, ; -A, AW

E-mail address: @ (..).

W

50%

B , 1981; W , 1993).

(J

W , 2012; , 2010).

(, 2011;

B

fi),

2011; , 2011),
(A)(B , 2008; , 2004;
2011; W , 2011; , 2006).
A

2012),

2002; (J , 2010).

, 2004; J , 2012 ;

2004; J , 1993; , 2002;
2010).

(AW)

AW

fi

Fig. 1.

(+), (-), (+) (A), 5-6 - A fi

10 16

(0.25-0.75 A), 50%

fi

(8-16 J, 105-110 B, 2), 7 A - 50%

(- . 2A-B).

(- . 2 -),

2.2. Testing of limbic dysfunctions

fi

(J, 2012 ;

, 2002; ,, 1994; ,, 2010).

2009; ,, 1998; (,, 2013).

(A ,, 2009; ,, 2009; ,, 2009;

J ,, 2009; ,, 2010; ,, 2006;

.., 2007), (.., c-fos ..)

A (W ..)

(.., 2003). c-fos (W ..)

(.., 2003). (..)

fi (.., 2013).

fi (.., 2010) (B (.., 2002) (..)

(.., 2008; .., 2009; .., 2009; .., 2010) (A (.., 2001, 2006) A (.., 2011)

(.., 2011)

(.., 2002). 10 125–129 B 4

A (.., 2002). 62.29 54.31 69.18, fi

60.90 77.14 (.., 2003). 72.63

(.., 2011).

(.., 2011 , 2011).

fi (.., 2003).

fi (.., 2003).

2006; (A .., 2009; .., 2004; .., 2007)

A (.., 2003).

A (.., 2003).

3. Neural correlates of noise-induced tinnitus in auditor structures

3.1. Increased FLI in auditory brain structures of hamsters with tinnitus

C-fos (W .. , 1991).

2008) A (.., 2012; (B .., 2003).

c-fos (A .., 2014; .., 2014; .., 2015).

(.., 2011; .., 2010) (.., 2011; .., 2011).

(.., 1998; W .., 2009; B .., 2014; (2- .., 2010). 14 -2- (2- .., 2009; .., 2013; .., 2003).

c-fos (A .., 2003).

A
fi
- .5,
A

fi
(+)

.A
fi

-

+

(-)

W, 2006). A fi (, 1990).
 AW (, 2009);
 AW (J , 2005; , 1997;
 , 2003). AW A (, 2001)
 , 2001) (, 2000).
 A -AW A A - 69-666
 A AW .A A), 3.3, 8()-349.2()12.2()-358.6(() 0.860.40.170.01 15.8410 (.) 8.2888007.9702
 AW 5 , A fi((138.6294.8(12.30-2914)6.8()-2734()4019.6(-)295(1-1)3097.7(AW)-1278
 A AW .11 fi
 B A AW , A
 (. 11A). A 2 6 , A
 A AW (. 11B-).
 (W , 1998). A AW AW
 , A (A . , 1998;
 , 2001) (W , 1987; , 2002).
 A AW A

6. Conclusions

The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) converge to a steady state as $t \rightarrow \infty$. The steady state is determined by the initial conditions and the parameters of the system. The asymptotic behavior of the solutions is studied by using the method of asymptotic expansion. The asymptotic expansion of the solutions is obtained by using the method of asymptotic expansion. The asymptotic expansion of the solutions is obtained by using the method of asymptotic expansion. The asymptotic expansion of the solutions is obtained by using the method of asymptotic expansion.

The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) converge to a steady state as $t \rightarrow \infty$. The steady state is determined by the initial conditions and the parameters of the system. The asymptotic behavior of the solutions is studied by using the method of asymptotic expansion. The asymptotic expansion of the solutions is obtained by using the method of asymptotic expansion. The asymptotic expansion of the solutions is obtained by using the method of asymptotic expansion. The asymptotic expansion of the solutions is obtained by using the method of asymptotic expansion.

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B . A . B . A . 23, 53–62.

B . A., B 2001. A A 2, 54–64.

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W B 162–170.

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A A fi A., J 2014.

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fi W 91, 382–392.

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27, 676–682.

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. B W., 1998.

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