

**ABSTRACT:** *Background:* Postpartum depression (PPD), affecting mother's and baby's health and wellbeing, is a subtype of major depression with onset within 4 weeks after childbirth. G-protein

5"uwdwpkv"igpg"E:47V"rqn{ oqtrjkuo"jcu"dggi"ujqyp"q"dg"cuuqekcvgf"ykvj"oclqt"cfwnv"fgrtguukqp"

cml."3;;8="3;;;+0" Tgegpvn{."c"pwodgt"qh"uvwfkgu"

vjgug"uvwfkgu"ujqygf"vjcv"vjg"htgswgpe{"qh"V"cmngngu"ycu"ukipkLecpvn{"higher in depressive patients than that in healthy controls. In addition, they also revealed that depressive patients with T allele had severe symptoms and a better response to antidepressant treatment (Zill et al., 2007; Wilkie et al., 2007; Cao, Hu, Zhang, & Xia, 2007). A meta-analysis d{"Nqrg|/Ngqp"gv"cnl."\*4225:+hwpf"uvevkuvkecmn{"ukipkLecpv"cuuqekcvkqp"qh" I PDS":47V"\*QT"305:+ykvj"oclqt"fgrtguukxg"fluqtfgt0"kp"cpqyjgt"ogvc/cpcn{uku."Jw"gv"cnl."\*4236+"eqpenwfgf"vjcv"vjg" I PDS" E:47V"rqn{oqtrjkuo"ycu"ukipkLecpvn{"eqttgnegf"ykvj"c"jkitgt"tgurqpub"rate to antidepressants in major depressive disorder, and ethnicity-uvtcvkLgff"cpccn{uku"kpfkccyf"vjcv" I PDS" E:47V"rqn{oqtrjkuou"oc{"dg"uvtqpi{"tgacvf"vq"vjg"ghLece{"qh"cpvkfgrtguucpvu"kp"vjg"vtgcvo"gpv"of major depressive disorder among Asians than in Caucasians. On vjg"qvjgt"jcpf."c"ogvc/cpcn{uku"d{"Pkkvw"gv"cnl."\*4235+"uwiiugvf"vjcv"pq"oclq"ghhev"ql"cp{"ukping"igpg"xtckcpv"qp"cpvkfgrtguucpvu"ghLece{0" The aim of the present study is to assess whether PPD is associated ykvj" I P "tu7665UPR"kp"cp"rknqv"uvwf{"qh"Ejkpgug"Jcp"yqogp

## METHODS

### Study Subjects

This was a case control study, nested to a prospective cohort study conducted in Changsha, Hunan, China, from February to September

effectors. Shiffert et al., (1998) described a single-nucleotide polymorphism (SNP) of C825T in exon 10 of the gene encoding the 5"uwdwpkv"qh"jvgqtqvtkogtke" I /"rtqvgkpu" I P 5"qt"tu7665+. "y jkej"ku"nqecvgf"qp"ejtqoquqo"34r35."cdqwu"907"mknqdcug""md+nqpi"ykvj33"exons and 10 introns (Siffert et al., 1998). The T allele of this SNP ku"tgncvgf"vq"vjg"qeewttgpeg"qh"c"urakeg"xctkcpv" I 5u+."y jkej"ecwugu"vjg"fgngvkqp"qh"63"co"kpq"cekfuo"Vjg"urakeg"xctkcpv" I 5u"tgwvngf"kp"cp"increased signal transduction (Siffert et al., 1998) and an increased risk of affective disorders (Avissar & Schreiber, 1992; Avissar et

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fgnkxgt{."vjgtg"ycu"c"ukipkLecpv"fkhhgtgpeg"r?"2026+.6"ygtg"xcikpcn"  
fgnkxgt{"cpf"5;"RRF"ecug"ygtg"ecguctgcp"fgnkxgt{"kp"RRF"ecugu."

et al., (2012) examined whether functional polymorphic variants, BDNF Val66Met, 5-HTTLPR, or PER2 SNP 10870, were associated with PPD symptoms and whether these genetic polymorphisms association between BDNF Met66 carrier status and development of PPD symptoms at 6 weeks postpartum, even when controlling for prenatal and postpartum environmental risk factors, was observed among mothers who delivered during autumn/winter (Comasco et al., 2012). In a non-psychiatric cohort of 419 Caucasians, Mehta et al assessed the association between 5-HTTLPR S-allele carrier ucvwugui"ykvj"ugxgkqv{"qh"fgrtguukqp"fwtkpi"rtgipcpe{ "\*5tf"vtkoguvt+" cpf"vjk"rquwctwo"rgtkqf"4/5"fc{u"cpf"8/:"oqpvju+"\*Ogjvc"gv"cm0." 2012). They found that 5-HTTLPR S-allele carrier status predicted late postpartum depressive symptom severity only in the presence of negative life events (Mehta et al., 2012).

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- Zkcq." J0." [cq." J0." (" I wq." U0J0" \*4225+0Vjg" I 5" igpg" E:47V" polymorphism of and response to antidepressant treatment. *Ejkpgug" Lqwtpcn" qh" Enkpkecn" Rjctocef*, 34(2), 65-68.
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