论文

GLOBAL SOLUTIONS AND BLOW UP FOR ACTIVATOR INHIBITOR MODEL

ZHANG Quande(1), LI Kaitai(2)

(1)Department of Mathematics, Shaanxi Normal University, Xi'an 710062, China;(2)Research Center for Applied Mathematics, Xi'an Jiaotong University, Xi'an 710049, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 This paper deals with the existence and nonexistence of global positive solutions of initial and boundary value problem for the general activator-inhibitor model... In this paper, we do not restrict ourselves to the initial data $1/u_0$, $1/u_0$ $\in L^{\infty}(\Omega)$. We prove that there exist glolal solutions if $0 \le u_0 \le u_0$ and they will blow up in finite time if $0 \le v_0 \le u_0$ whether u_0 , v_0 are small or large.

关键词 <u>Global solutions, blow up of solution, a</u>

分类号

GLOBAL SOLUTIONS AND BLOW UP FOR ACTIVATOR INHIBITOR MODEL

ZHANG Quande(1),LI Kaitai(2)

(1)Department of Mathematics, Shaanxi Normal University, Xi'an 710062, China;(2)Research Center for Applied Mathematics, Xi'an Jiaotong University, Xi'an 710049, China

Abstract This paper deals with the existence and nonexistence of global positive solutions of initial and boundary value problem for the general activator-inhibitor model... In this paper, we do not restrict ourselves to the initial data $1/u_0$, $1/u_0 \in L^{\infty}(\Omega)$. We prove that there exist glolal solutions if $0 \le u_0 \le u_0$ and they will blow up in finite time if $0 \le v_0 \le u_0$ whether u_0 , v_0 are small or large.

Key words Global solutions blow up of solution activator-inhibitor model

DOI:

通讯作者

扩展功能

本文信息

- ▶ Supporting info
- ▶ <u>PDF</u>(0KB)
- ▶[HTML全文](0KB)
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶复制索引
- ▶ Email Alert
- ▶文章反馈
- ▶浏览反馈信息

相关信息

▶ <u>本刊中 包含 "Global solutions, blow</u> up of solution, a"的 相关文章

▶本文作者相关文章

- ZHANG Quande
- · LI Kaitai