

[综述](#)

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[<< Previous Articles](#) | [Next Articles >>](#)

## 镰刀菌毒素对母猪繁殖性能的影响及其作用途径

徐盛玉, 王定越, 吴德\*

(四川农业大学动物营养研究所, 雅安 625014)

### Effects and Action Pathway of Fusarium Toxins on Reproduction Performance of Sows

XU Shengyu, WANG Dingyue, WU De\*

(Institute of Animal Nutrition, Sichuan Agricultural University, Ya'an 625014, China)



[摘要](#)

[参考文献](#)

[相关文章](#)

**Download:** PDF (1393KB) [HTML](#) (0KB) **Export:** BibTeX or EndNote (RIS) **Supporting Info**

**摘要** 镰刀菌毒素玉米赤霉烯酮 (zearalenone, ZEA) 和脱氧雪腐镰刀菌烯醇 (deoxynivalenol, DON) 是普遍存在于饲料中的优势污染霉菌毒素。ZEA具有雌激素样作用, 可通过影响颗粒细胞激素的分泌和细胞增殖、干扰卵母细胞减数分裂的正常进行, 降低卵母细胞质量, 进而影响初情期前母猪的发情和妊娠母猪的繁殖性能。体内、外研究均发现DON具有降低卵母细胞和胚胎发育的能力。尽管没有临床症状, 但组织病理学发现, 饲喂含高浓度镰刀菌污染的小麦将导致妊娠母猪脾脏和肝脏的损伤, 导致胎儿肝糖原升高和线粒体损伤。初情期前的小母猪对浓度DON>ZEA的饲料较妊娠母猪更为敏感。镰刀菌毒素还会增加泌乳母猪的断奶-发情间隔时间。

**关键词:** 玉米赤霉烯酮; 脱氧雪腐镰刀菌烯醇; 母猪; 繁殖性能

**Abstract:** Fusarium toxins zearalenone (ZEA) and deoxynivalenol (DON) are major contaminant mycotoxin in diet. ZEA is sufficiently alike to oestradiol, and it takes effects on the hormone secretion and cell proliferation of granulosa cell, interferes the normal meiotic of oocyte and decreases the oocyte quality to affect the prepuberal gilts and reproduction performance of pregnant sows. DON can decrease the oocyte and embryo development both in vivo and in vitro. Although the clinical signs absented, the histopathological results provide evidence of spleen and liver dysfunction especially in pregnant gilts fed higher concentrations of Fusarium toxin-contaminated wheat, and induce the glycogen increased and impairment of mitochondria in liver of fetuses. Compared with pregnant sows, the prepuberal gilts react more sensitively to DON>ZEA feeding. The Fusarium toxins will increase the interval of weaning to heat of lactating sows. [ Chinese Journal of Animal Nutrition, 2010, 22 ( 1 ) :24-30 ]

**Keywords:** Zearalenone; Deoxynivalenol; Sows; Reproduction performance

#### 引用本文:

徐盛玉, 王定越, 吴德. 镰刀菌毒素对母猪繁殖性能的影响及其作用途径[J]. 动物营养学报, 2010, V22(01): 24-30

XU Shengyu, WANG Dingyue, WU De. Effects and Action Pathway of Fusarium Toxins on Reproduction Performance of Sows[J]. Chinese Journal of Animal Nutrition, 2010, V22(01): 24-30.

#### 链接本文:

[http://211.154.163.124/Jweb\\_dwyy/CN/10.3969/j.issn.1006-267x.2010.01.004](http://211.154.163.124/Jweb_dwyy/CN/10.3969/j.issn.1006-267x.2010.01.004) 或 [http://211.154.163.124/Jweb\\_dwyy/CN/Y2010/V22/I01/24](http://211.154.163.124/Jweb_dwyy/CN/Y2010/V22/I01/24)

没有本文参考文献

没有找到本文相关文献

Copyright 2010 by 动物营养学报

#### Service

- [把本文推荐给朋友](#)
- [加入我的书架](#)
- [加入引用管理器](#)
- [Email Alert](#)
- [RSS](#)

[作者相关文章](#)