HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Journal of Andrology, Vol 2, Issue 4 222-224, Copyright  $^{\odot}$  1981 by The American Society of Andrology

get the journal delivered to your mailbox!

Effects of Photoperiod and Subcutaneous Melatonin Implants on the Reproductive Status of Adult White-footed Mice (*Peromyscus leucopus*)

LARRY J. PETTERBORG <sup>1</sup> AND RUSSEL J. REITER <sup>1</sup>

Journal of

<sup>1</sup> Department of Anatomy, University of Texas Health Science Center, San Antonio, Texas

The reproductive consequences of photoperiod and melatonin administration were compared in adult white-footed mice (*Peromyscus leucopus*). Animals were exposed either to a long photoperiod (16 hours of light:8 hours of dark) with and without subcutaneous melatoninbeeswax implants or to a short photoperiod (8 hours of light:16 hours of dark) for six weeks. Following treatment with either a

short photoperiod or melatonin, testicular weights and volumes as well as plasma testosterone levels were significantly (P < 0.01) reduced relative to animals maintained under long daily photoperiods without melatonin Implants. Under the conditions of the present study, chronic melatonin administration is as repressive to the reproductive status as is a short photoperiod in adult white-footed mice.

Key words: implant, melatonin, photoperiod, white-footed mouse, *Peromyscus leucopus*, testosterone, testes weight, testis volume

Submitted on September 16, 1980 Revised on October 13, 1980 Accepted on October 29, 1980

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS Copyright © 1981 by The American Society of Andrology.

### This Article

- Full Text (PDF)
- Alert me when this article is cited
- Alert me if a correction is posted

### Services

- Similar articles in this journal
- Alert me to new issues of the journal
- Download to citation manager

# Citing Articles

Citing Articles via Google Scholar

## Google Scholar

- Articles by PETTERBORG, L. J.
- Articles by REITER, R. J.
- Search for Related Content

## PubMed

- Articles by PETTERBORG, L. J.
- Articles by REITER, R. J.