





## LABORATORY FOR INTEGRATIVE STUDIES IN AMPHIBIAN BIOLOGY

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Biofaculty Award, Distinguished Mentor Award  
Distinguished Teaching Award,  
Class of 43 Endowed Chair





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## LABORATORY FOR INTEGRATIVE STUDIES IN AMPHIBIAN BIOLOGY

**Roya Vahdatinia**

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**Tishiana Mann**

**Xuan Luang**







*Homegoing Service  
for  
Mrs. Agnes Bailey Richardson  
"Bett"*

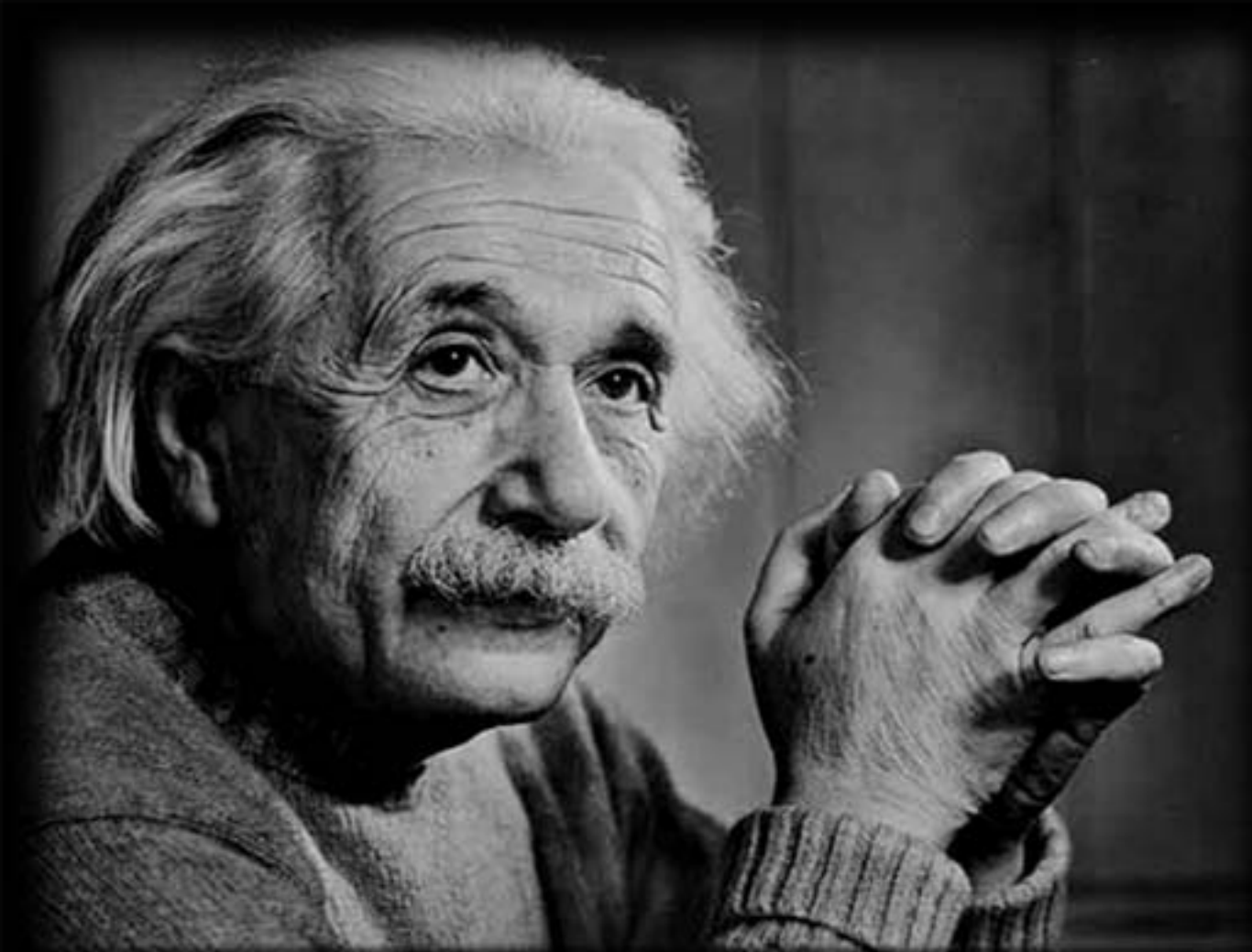


*Sunrise  
Feb. 3, 1925*

*Sunset  
Dec. 26, 2005*

*Friday, December 30, 2005  
Eleven o'clock in the Morning  
Saint John Baptist Church  
3404 West Beltline Boulevard  
Columbia, South Carolina*

*Reverend Jamey O. Graham, Pastor  
Revered Roscoe C. Wilson, Pastor Emeritus*



***“You do not really understand something ...  
unless you can explain it to your grandmother.”  
(Albert Einstein)***



From Silent Spring

to

Silent Night:

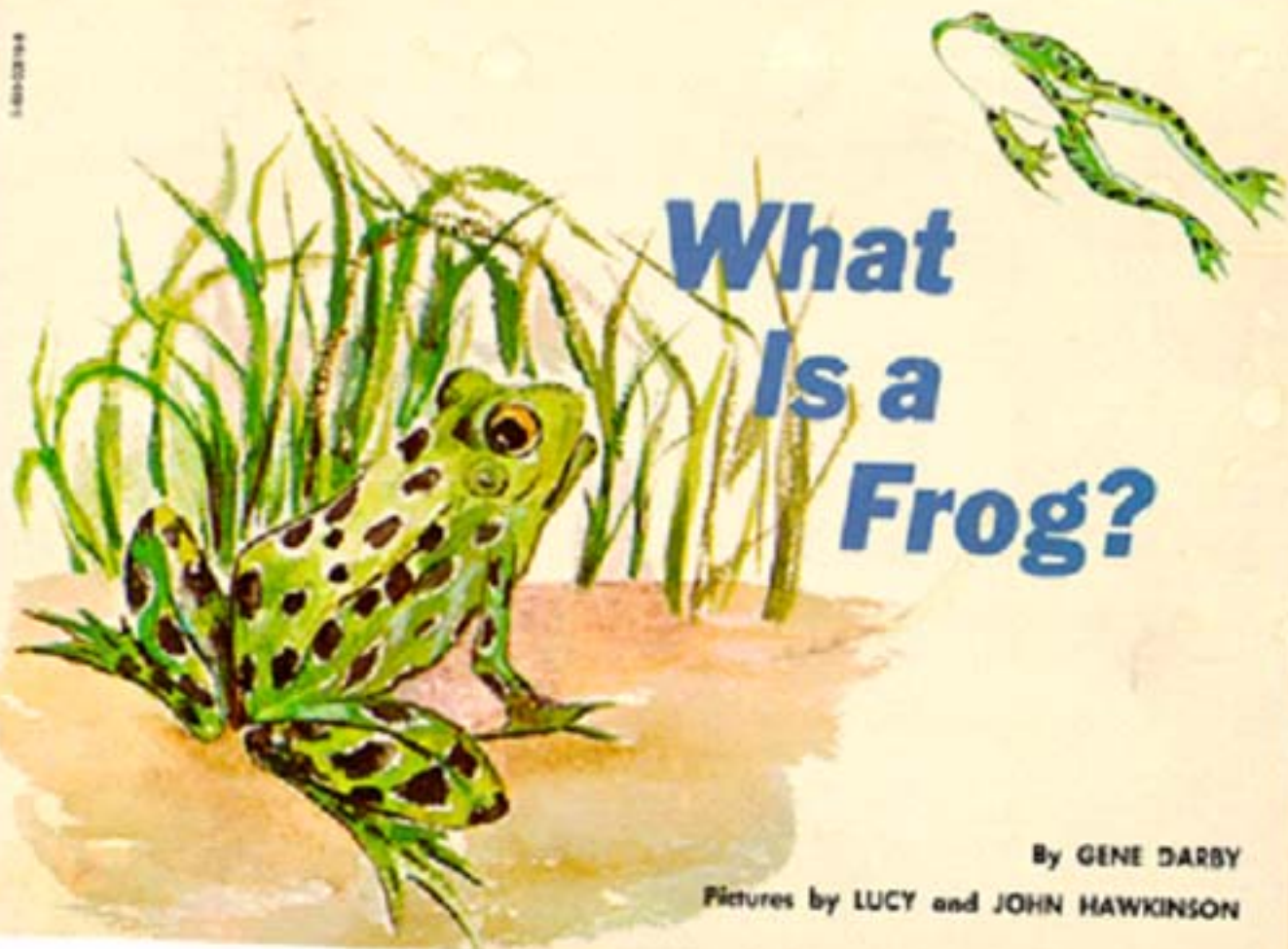


**A Tale of Toads and Men**

# What Is a Frog?

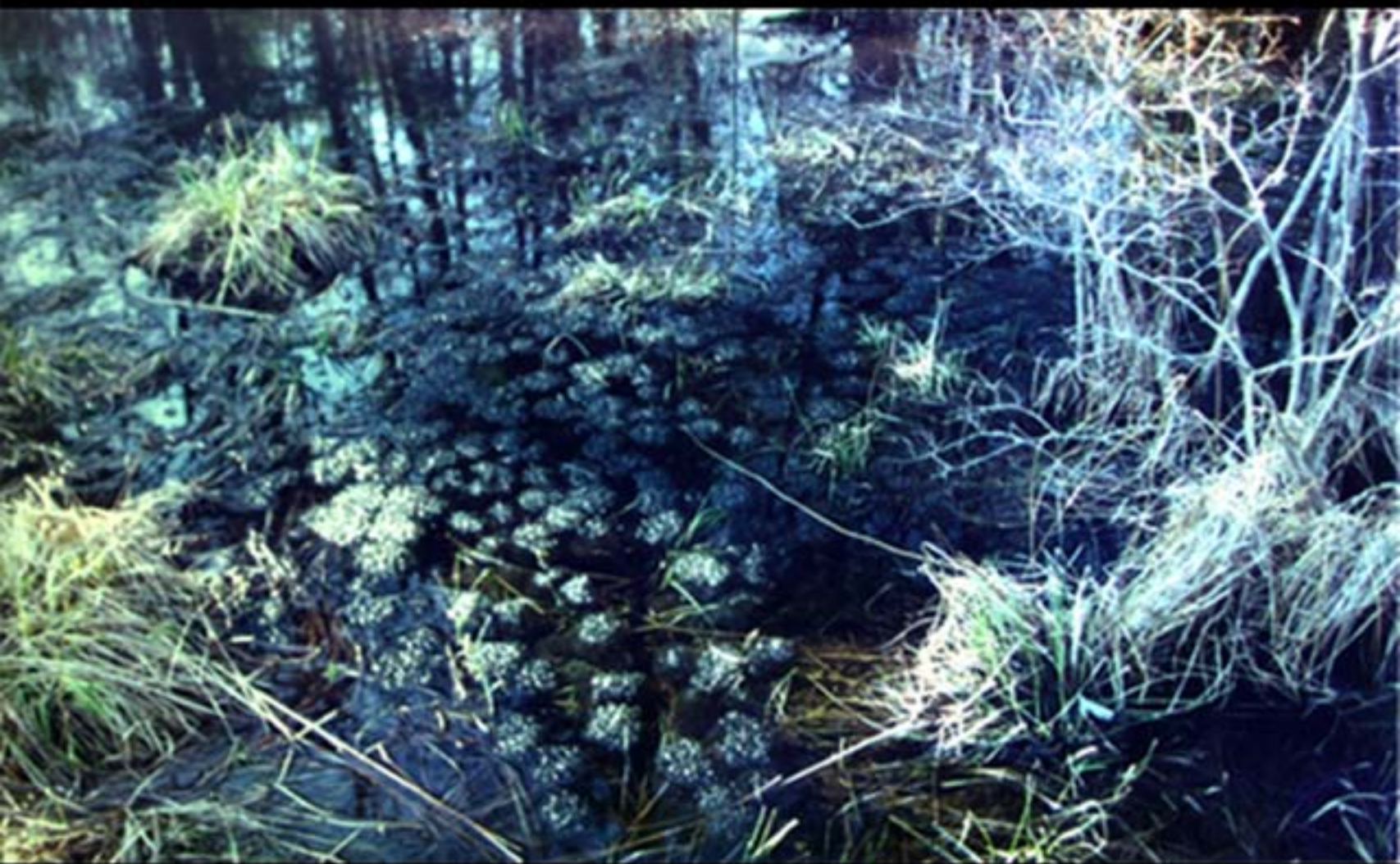
By GENE DARBY

Pictures by LUCY and JOHN HAWKINSON



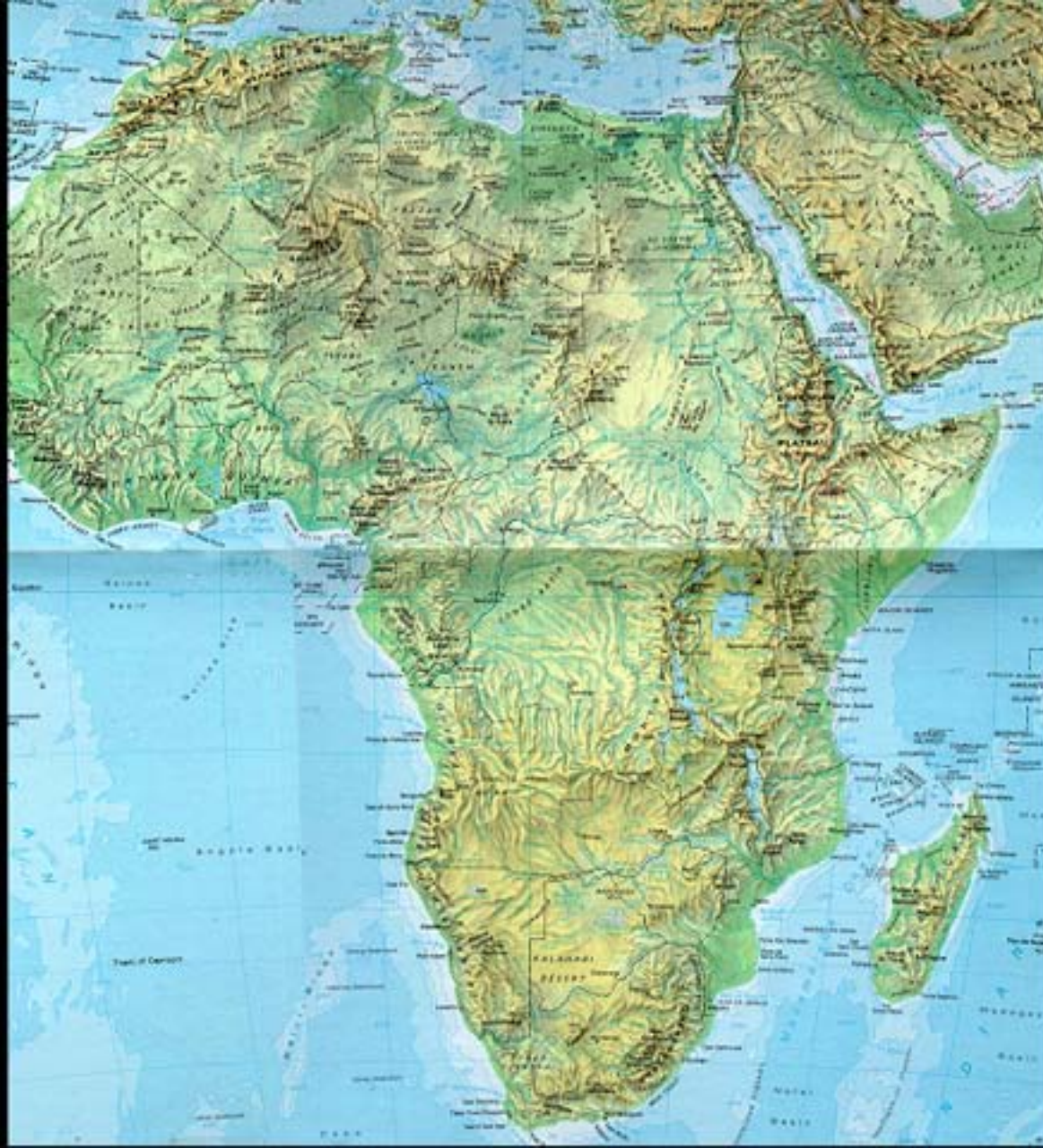
















Male



Female

Control



Testosterone



Estradiol



1

2

3

4

5

6



Control



Estradiol



Ethynvl-E2



DES



DDT



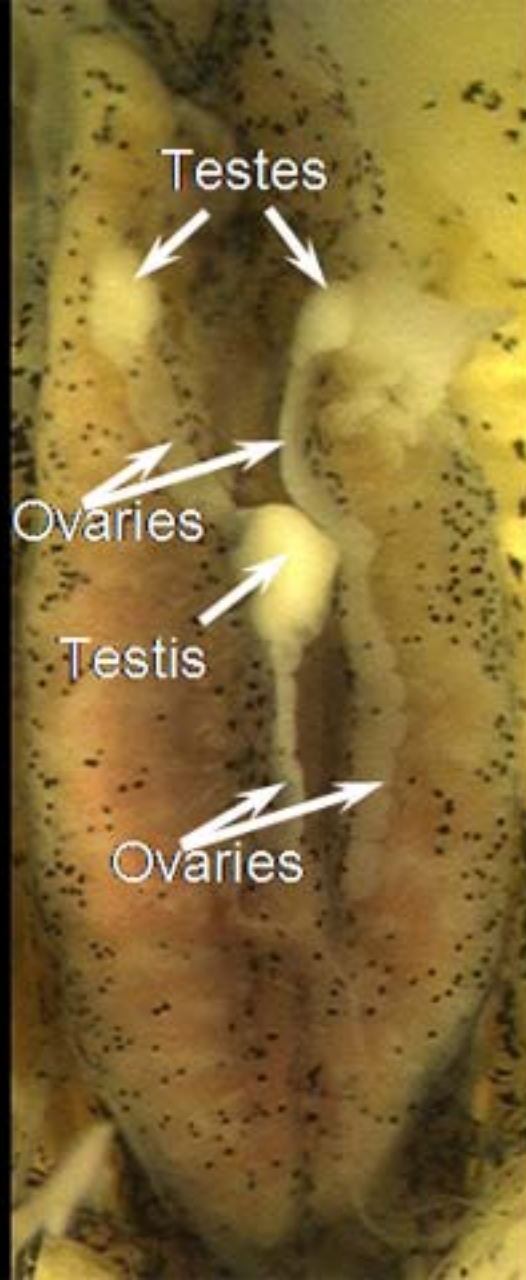
Estrogen +  
Tamoxifen



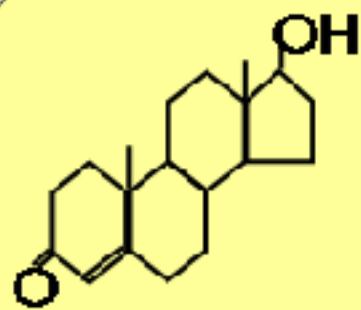
# ATRAZINE

IS AN HERBICIDE  
BUT NOW OUT-LAWED  
IN THE EUROPEAN UNION  
MORE THAN  
80 COUNTRIES  
AND STONE FRUITS





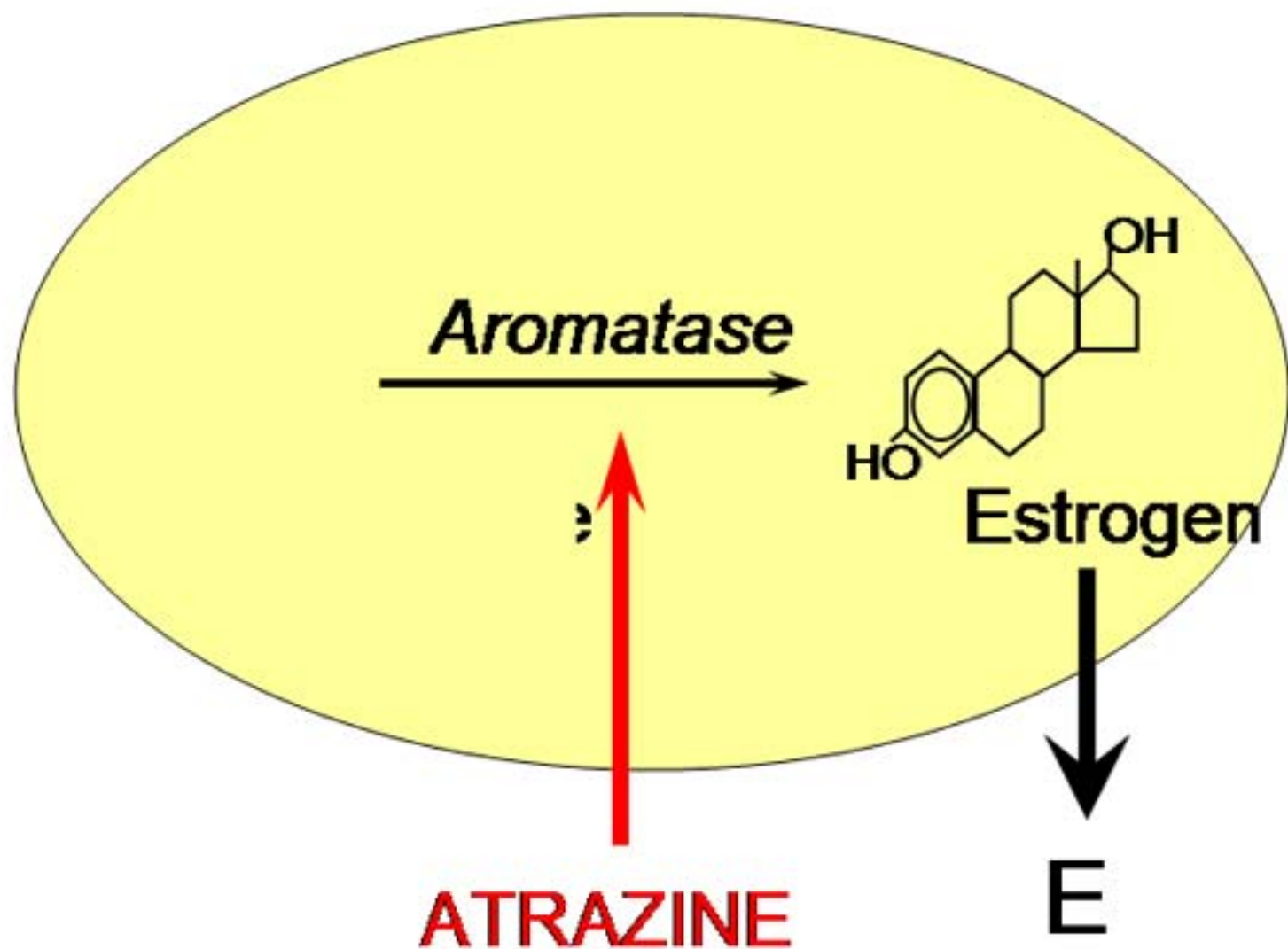


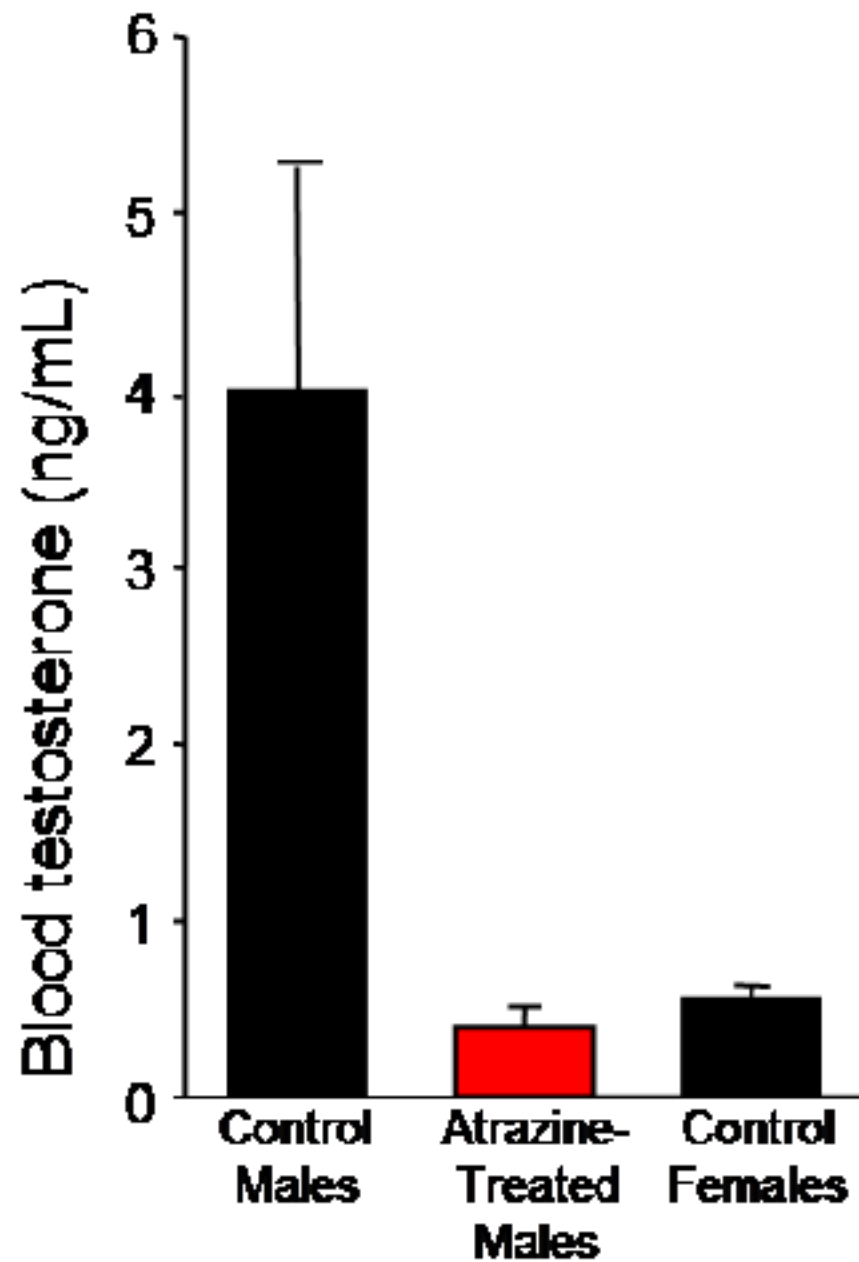


**Testosterone**



**T**

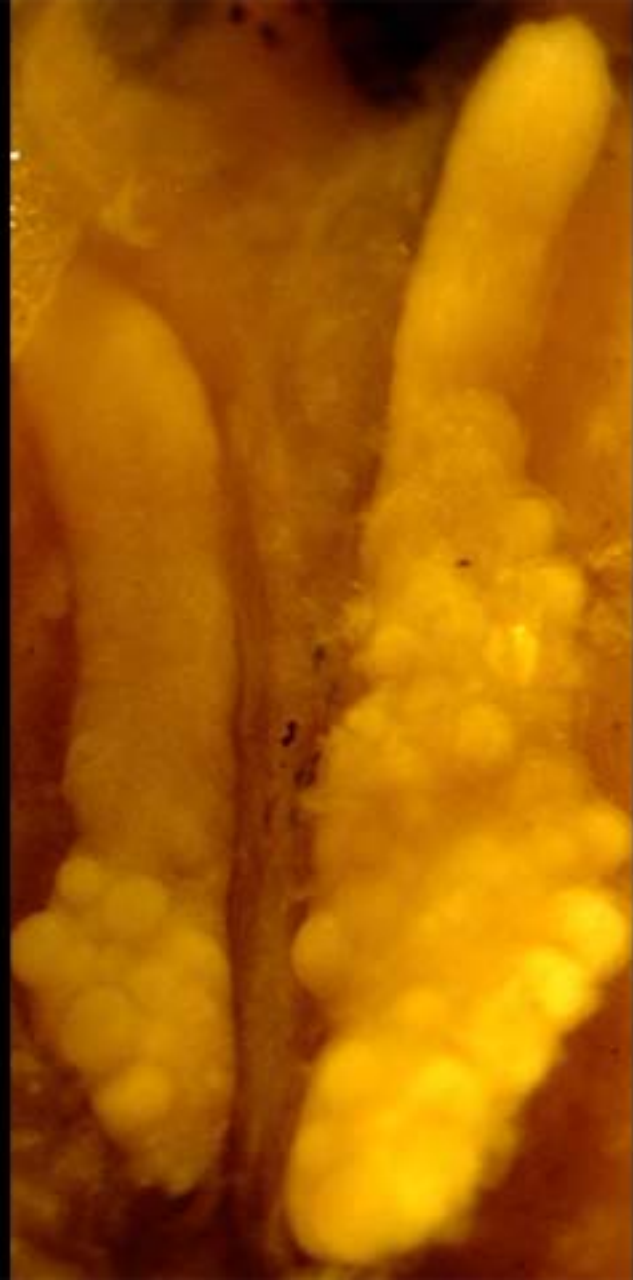






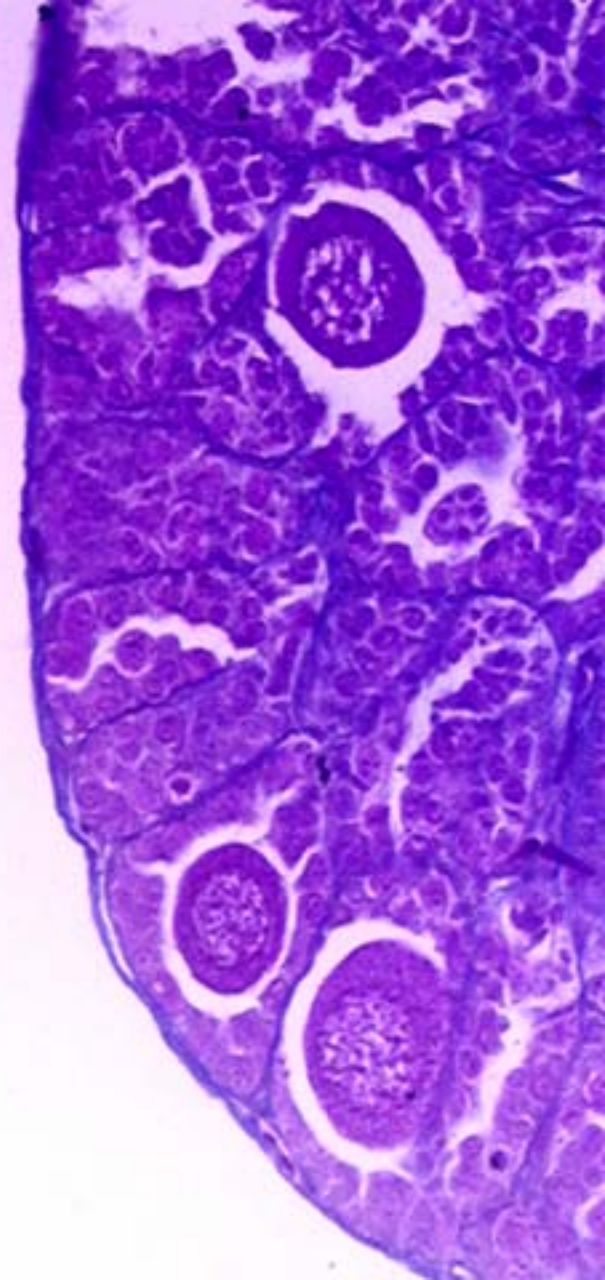
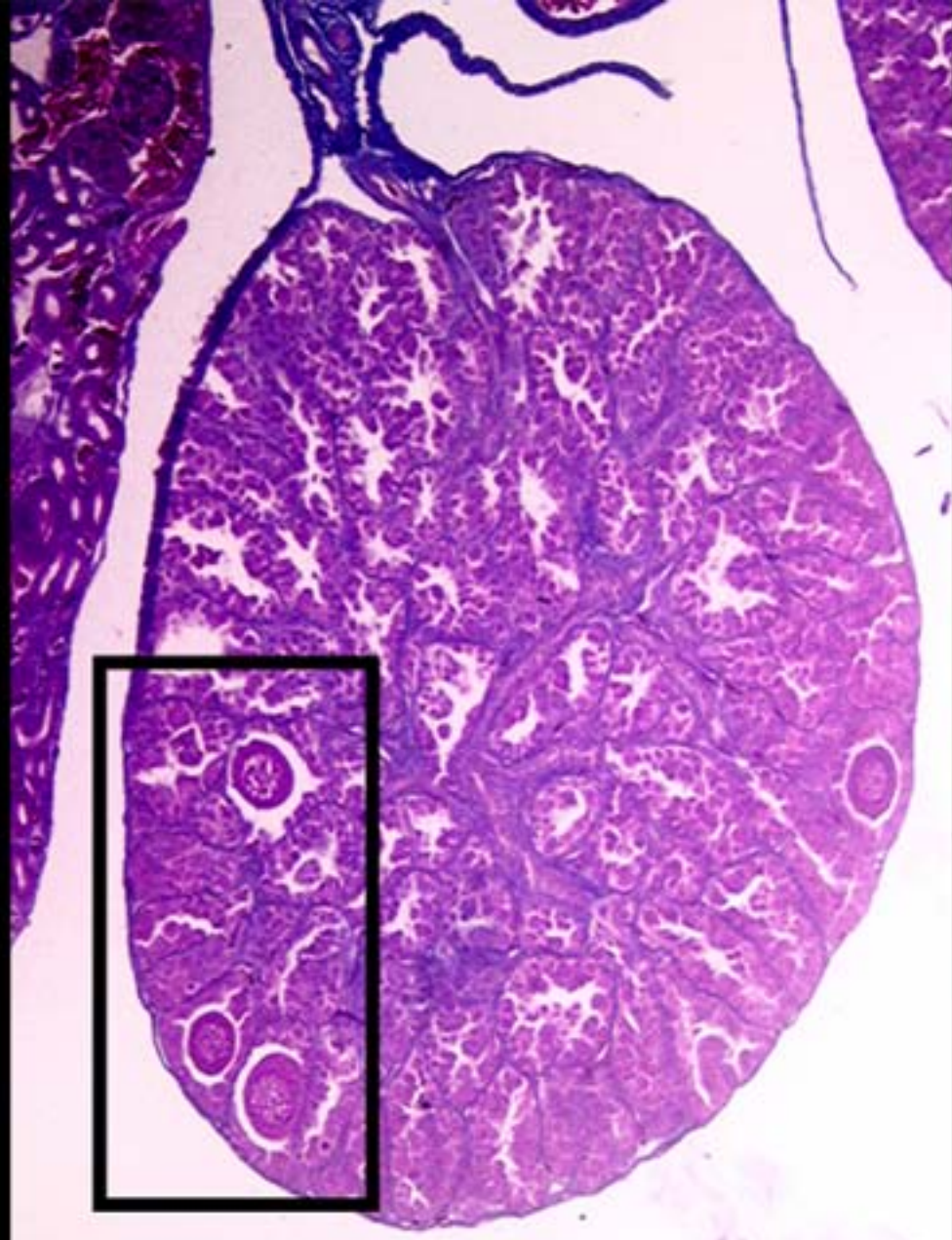




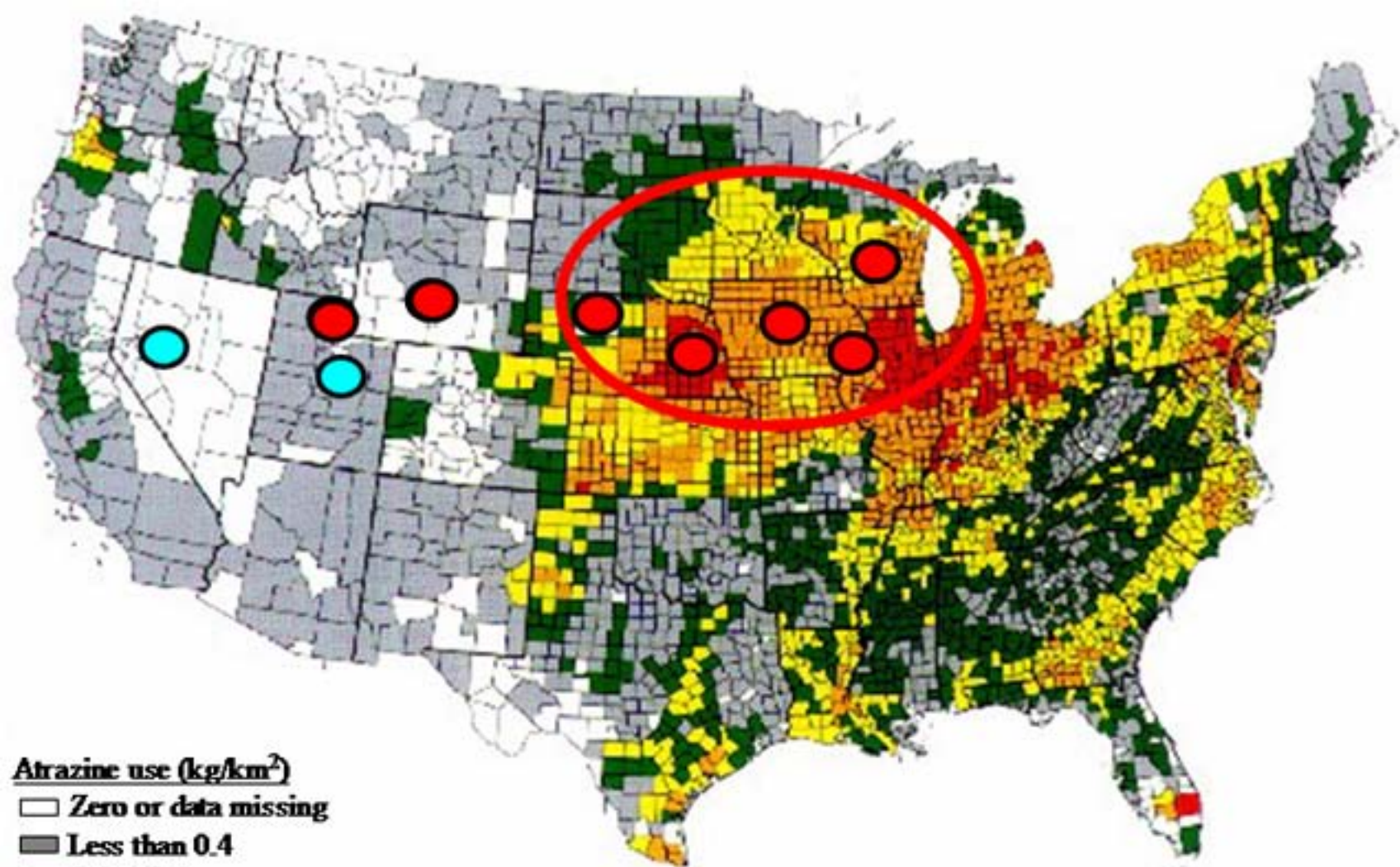




**DO EFFECTS OCCUR IN THE WILD?**







**Atrazine use (kg/km<sup>2</sup>)**

- Zero or data missing
- Less than 0.4
- 0.4 to 2.4
- 2.5 to 9.2
- 9.3 to 28.7
- More than 28.7





# Margarita Atascadera Salinas









**CONTROL**



**MIX**



# FROM



# TO





SILENT  
NIGHT



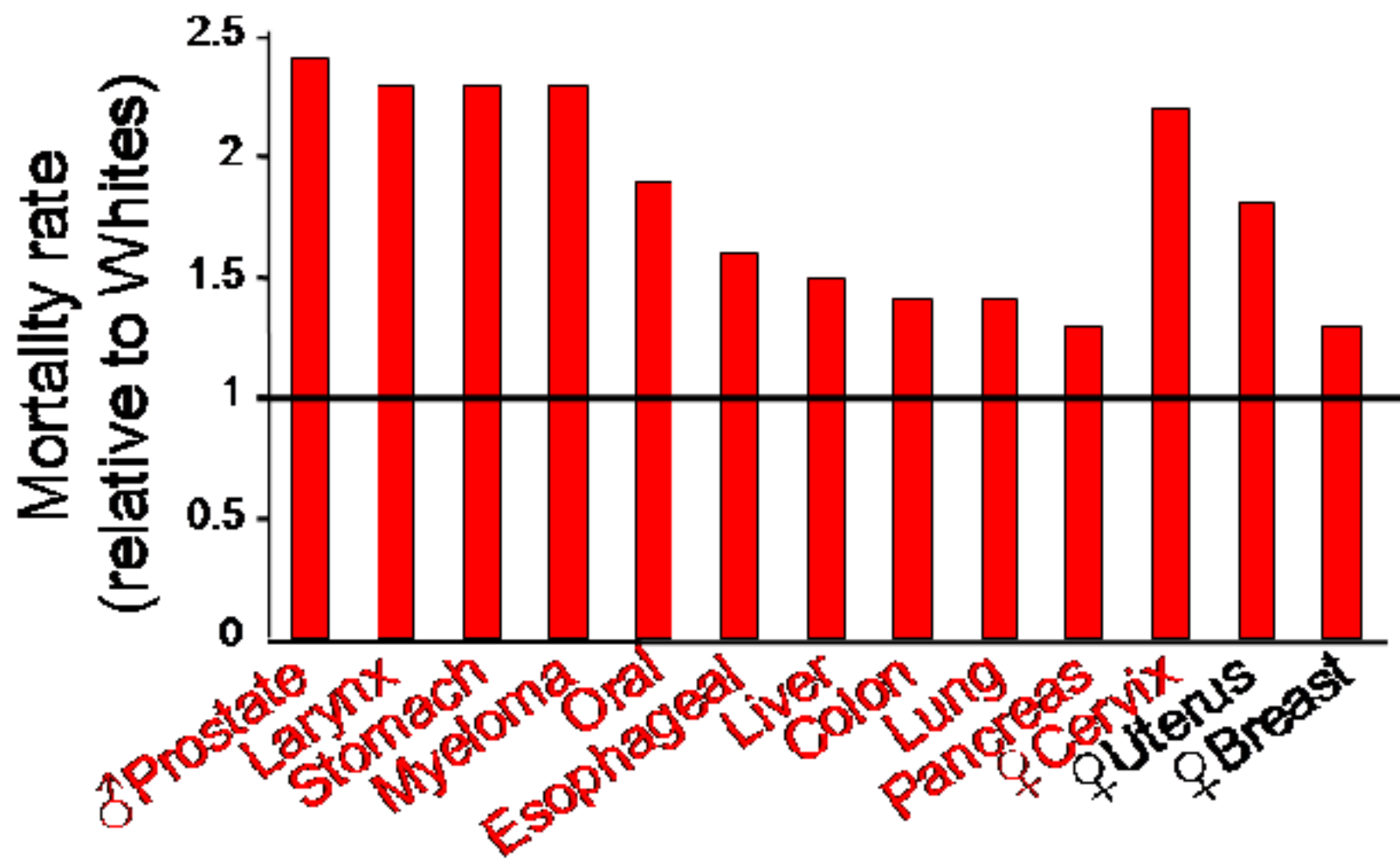




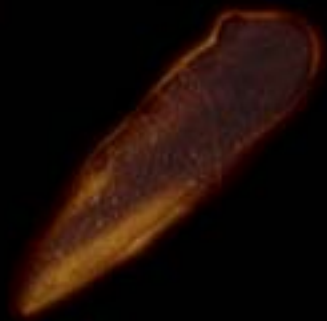
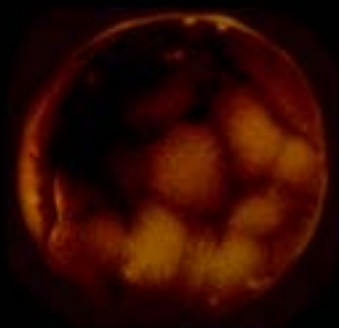


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♂ Prostate  
Larynx  
Stomach  
Myeloma  
Oral  
Esophageal  
Liver  
Colon  
Lung  
Pancreas  
♀ Cervix  
♀ Uterus  
♀ Breast









SCIENTISTS IN THE FIELD



Pamela S. Turner  
Photographs by  
Andy Comins



# The Frog Scientist





**Thank you**