

## Heritage Committee Family Tree

Reproduction... Where the Future is Conceived

## **Trainees of Fred Stormshak**



Stormy-isms • It builds character.

Frederick Stormshak is an Oregon State University (OSU)

distinguished professor and recognized for his work on the ovary and uterus of the domestic animals. He received his Ph.D. from the University of Wisconsin in 1965 during which he pursued his doctorate in Endocrinology under the direction of Dr. L.E. Casida, a premiere reproductive biologist of the era.

Highlights of his research are: 1) Progesterone and estrogen secreted by the ovary in the ewe and cow acts locally on the ipsilateral uterine artery to regulate vasoconstriction and thus, blood flow.

2) The first to measure changes in endometrial estrogen and progesterone receptor concentrations during various stages of the ovine and bovine estrous cycle.

3) Investigated embryo survival in

- Some of the best research was done with a piece of string and two sticks.
- Come on, come on, come on, I haven't got all day...you will have to bring that tome in the mausoleum.
- Quickly-schmickly.
- Go on, I'm listening, I just want to blast this fly.
- Those who don't make dust, eat dust.
- Graduate school is the easiest time you will ever know. It's like having life by the tail on a downhill pull.
- A stitch in time saves nine.
- Are you sure you are in the right hole?

gilts demonstrating that estradiol produced by the embryo plays a role in uterine horn embryo migration and spacing.

4) Examined the mechanism of action of  $PGF_{2\alpha}$  in stimulating the exocytosis of oxytocin from the bovine large luteal cell. This research showed that hydrolysis of phosphatidylinositol-4,5 bisphosphate associated with the plasma membrane activated a sequence of cellular biochemical changes leading to phosphorylation of the MARCKS protein which then facilitated exocytosis of oxytocin granules. This work resulted in the cover of Biology of Reproduction in 2000.



• This is one time when haste will not make waste.

• After tying the "Great Dog Mike" securely to some immovable object, he never fails to say, "Stay, Mike", as if Mike had a choice...



Dr. Stormshak: Honors & Accomplishments

Editor-in-Chief, Journal of Animal	1982-
Science	1985
Recipient of Ferguson Distinguished Professor of Agricultural Sciences Award, Oregon State University	1989
USDA/OICD Award for US-Ireland Cooperative Research	1992
USDA International Honor Award	1993
American Society of Animal Science Animal Physiology and Endocrinology Award	1993
Earl Price Award for Excellence in Research, Oregon State University	1993
American Society of Animal Science Fellow Award	1996
Distinguished Professor, Oregon State University	1997

Fred Stormshak, Ph.D.



LE Casida, Ph.D. **SSR Charter Member** 



ack Gorski, Ph.D.
ational Acad. Sci.

President, Society for the Study of Reproduction	1997- 1998
American Society of Animal Science L.E. Casida Award	2003
Distinguished Graduate Award, Washington State University, Department of Animal Sciences	2004
Trustee of American Society of Animal Science Foundation	2008- 2014
Society for the Study of Reproduction Distinguished Service Award	2009
Diamond Pioneer Award, Oregon State University, College of Agricultural Sciences	2013