

Reproduction and its Hormonal Control

Different mammals have different patterns of reproduction

- Eg mammals, rats and mice can breed all year round, whereas others have distinct **breeding seasons**. This is to ensure that the young are born when food is abundant. The timing of the breeding season is regulated by a **biological clock**, which is probably adjusted by seasonal changes in day length.

In mammals the **gametes (sex cells)** are:

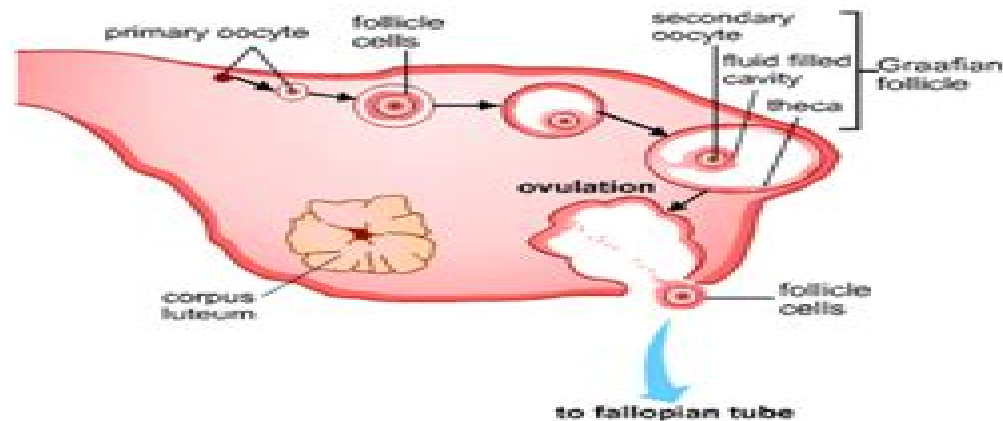
- small motile male gametes (sperm) which is produced in large quantities
- larger, non-motile food storing female gamete (ovum) which is produced in much smaller numbers

Gametogenesis is the formation of gametes

- sperm production is called **spermatogenesis**
- where the eggs are formed (matured) is called **oogenesis**

In the females of all mammals, there is a cycle known as:

- **Oestrous cycle** → ovulation, when the female is most fertile
- **Menstruation cycle** → the uterus lining in all mammals undergoes a similar pattern of thickening during a reproductive cycle. However if fertilisation does not occur, the uterine lining of primates breaks down and it is discharged with blood through the vagina, whereas the uterine lining of non-menstruating mammals is reabsorbed and there is no excessive bleeding. The discharge of blood is called menstruation.



Reproduction In Mammals Hormonal Control Of Reproduction

Karin Nielsen-Saines



Reproduction In Mammals Hormonal Control Of Reproduction:

Essentials of Animal Physiology Rastogi S. c, 2001 **Biology** Martin Rowland, 1992 Bath Advanced Science Biology is a well respected course book providing extensive coverage for Advanced Level Biology courses Fully illustrated in colour the high quality material will capture students interest and aid their learning *Hormonal Control of Reproduction* Colin Russell Austin, Roger Valentine Short, 1984 In this our Second Edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The First Edition was accorded an excellent reception but the first five books were written ten years ago and inevitably there have been advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields This volume discusses the manifold ways in which hormones control the reproductive processes in male and female mammals The hypothalamus regulates both the anterior and posterior pituitary glands whilst the pineal can exert a modulating influence on the hypothalamus The pituitary gonadotrophins regulate the endocrine and gametogenic activities of the gonads and there are important local feedback effects of hormones within the gonads themselves Non pregnant females display many different types of oestrous or menstrual cycles and there are likewise great species differences in the endocrinology of pregnancy But the hallmark of mammals is lactation and this also exerts a major control on subsequent reproductive activity *Reproduction in Mammals: Volume 3, Hormonal Control of Reproduction* Colin Russell Austin, Roger Valentine Short, 1982 In this our Second Edition of *Reproduction in Mammals* we are responding to numerous requests for a more up to date and rather more detailed treatment of the subject The First Edition was accorded an excellent reception but the first five books were written ten years ago and inevitably there have been advances on many fronts since then As before the manner of presentation is intended to make the subject matter interesting to read and readily comprehensible to undergraduates in the biological sciences and yet with sufficient depth to provide a valued source of information to graduates engaged in both teaching and research Our authors have been selected from among the best known in their respective fields This volume discusses the manifold ways in which hormones control the reproductive processes in male and female mammals The hypothalamus regulates both the anterior and posterior pituitary glands whilst the pineal can exert a modulating influence on the hypothalamus The pituitary gonadotrophins regulate the endocrine and gametogenic activities of the gonads and there are important local feedback effects of hormones within the gonads themselves Non pregnant females display many different types of oestrous or menstrual cycles and there are likewise great species differences in the endocrinology of pregnancy But the hallmark of mammals is lactation and this also exerts a major control on subsequent reproductive activity **Research Awards Index** , 1987 *Research Grants Index* National Institutes of

Health (U.S.). Division of Research Grants,1975 **Reproductive Biology, Physiology and Biochemistry of Male Bats** Edith Arenas-Ríos,2017-10-05 This monograph explains the physiological biochemical and behavioral processes of male bat reproduction Chapters cover spermatogenesis sperm ultrastructure reproductive homeostasis apoptotic processes sperm maturation sperm storage in female bats and sexual selection processes The volume also presents studies focused on the reproductive physiology of Mexican cave bat species This monograph is a suitable reference for undergraduate and postgraduate students as well as researchers interested in chiropteran reproductive biology Small Ruminant Production in the Humid Tropics ,1993 *Reproduction in Mammals* Colin Russell Austin,Roger Valentine Short,1984 **Biomedical Index to PHS-supported Research** ,1990 **Vertebrate Reproduction** E. W. Jameson,1988-10-28 This text reference presents a unified treatment of vertebrate reproductive physiology and sexual interactions in the context of environmental responses Stresses the ecology and evolution of wild species integrating biochemical and genetic mechanisms with behavioral and environmental influences Addresses sex determination growth and development parental care fecundity and seasonality Presents results of many experimental studies and observations made in the wild In addition to having a large number of citations over 1400 this book is unique in its broad coverage and in its effort to explain ecology and evolution in terms of known physiological processes **Mammalian Endocrinology and Male Reproductive Biology** Shio Kumar Singh,2015-09-04 Mammalian Endocrinology and Male Reproductive Biology provides comprehensive and current coverage of the area of endocrinology and male reproductive biology covering not just humans but mammals in general Written by international experts in their respective fields this multi author book also covers the latest developments in genomics of androge **Reproduction in Mammals** Colin Russell Austin,Roger Valentine Short,1982 **Bibliography on the Control and Management of the Coyote and Related Canids with Selected References on Animal Physiology, Behaviour, Control Methods and Reproduction** E. H. Dolnick,R. L. Medford,R. J. Schied,1976 *Photoperiodism and Endocrine Control of Reproduction in the Turkey (meleagris Gallopavo)* Jingying Yang 1998,1998 Reproduction, nutrition, développement ,1988 Dukes' Physiology of Domestic Animals Henry Hugh Dukes,1993 Iowa State University Ames New edition of a textbook on animal physiology for veterinary undergraduates Line drawing illustrations Previous edition 1984 This edition coedited by William O Reece 42 contributors 40 U S Reproduction in Mammals Colin Russell Austin,Roger Valentine Short,1980 V 1 Germ cells and fertilization V 2 Embryonic and fetal development V 3 Hormones in reproduction V 4 Reproductive patterns V 5 Artificial control of reproduction *The Pastoral Industries of Australia* George Alexander,O. B. Williams,1986 **Dog and Cat Reproduction, Contraception and Artificial Insemination** Patrick W. Concannon,1989 Based on the proceedings of the First International Symposium on Canine and Feline Reproduction Dublin July 1988 this book includes 29 invited papers representing nearly all laboratories worldwide which have maintained a basic or clinical interest in dog or cat reproduction over the past decade

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web linear feedback shift registers lfsrs efficient design for test pattern generators output response analyzers also used in crc ffs plus a few xor gates better than counter external feedback lfsr fewer gates higher clock frequency $q \ d \ q \ d \ q \ d \ q$ two types of lfsrs $ck \ ck \ ck \ ck$ external feedback internal feedback

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web a linear feedback shift register lfsr is a shift register in which some of its outputs are connected to the input through some logic gates typically an xor a wide variety of bit patterns can be generated inexpensively including pseudo random

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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