Bovine Reproduction

Description: Bovine Reproduction is a comprehensive, current reference providing information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient, the book also places information in the context of herd health where appropriate for a truly global view of bovine theriogenology. Printed in full color throughout, the book includes 83 chapters and more than 550 images, making it the most exhaustive reference available on this topic.

Each section covers anatomy and physiology, breeding management, and reproductive surgery, as well as obstetrics and pregnancy wastage in the cow. Bovine Reproduction is a welcome resource for bovine practitioners, theriogenologists, and animal scientists, as well as veterinary students and residents with an interest in the cow.

Key features

- Offers a complete, up-to-date resource on managing reproduction in the bull and cow
- Addresses all aspects of evaluating and restoring fertility in the bovine patient
- Focuses on individual medicine
- Takes a production medicine perspective where necessary to address this important aspect of bovine practice
- Encompasses anatomy and physiology, breeding management, and reproductive surgery, as well as obstetrics and pregnancy wastage in the cow
- Provides full-color images throughout

Contents:

Contributors x
Preface xvi

Section I: The Bull
Anatomy and Physiology

1 Anatomy of the Reproductive System of the Bull 5
   Ben Nabors and Robert Linford

2 Endocrine and Exocrine Function of the Bovine Testes 11
   Peter L. Ryan

3 Thermoregulation of the Testes 26
   John P. Kastelic

4 Endocrine Control of Testicular Development and Initiation of Spermatogenesis in Bulls 30
   Leonardo F.C. Brito

Breeding and Health Management

5 Bull Development: Sexual Development and Puberty in Bulls 41
   Leonardo F.C. Brito

6 Breeding Soundness Examination in the Bull: Concepts and Historical Perspective 58
   Richard M. Hopper

7 Evaluation of Breeding Soundness: The Physical Examination 64
   James Alexander

8 Evaluation of Breeding Soundness: Basic Examination of the Semen 68
Richard M. Hopper and E. Heath King

9 Ultrasound Evaluation of the Reproductive Tract of the Bull 79
Harry Momont and Celina Checura

10 Management of Breeding Bull Batteries 92
E. Heath King

11 Management of Bulls at Custom Collection Studs 97
Gary Warner

12 Testicular Degeneration 103
Albert Barth

13 Vesicular Adenitis 109
Albert Barth

14 Inability to Breed due to Injury or Abnormality of the External Genitalia of Bulls 113
Herris Maxwell

Reproductive Surgery

15 Local and Regional Anesthesia for Urogenital Surgery 131
Misty A. Edmondson

16 Surgery of the Scrotum and its Contents 136
Dwight F. Wolfe

17 Restorative Surgery of the Prepuce 142
Dwight F. Wolfe

18 Restorative Surgery of the Penis 155
Dwight F. Wolfe

19 Bovine Urolithiasis 172
Katharine M. Simpson and Robert N. Streeter

20 Preparation of Teaser Bulls 181
Gretchen Grissett

Section II: The Cow

Anatomy and Physiology

21 Anatomy of the Reproductive System of the Cow 191
Ben Nabors and Robert Linford

22 Initiation of Puberty in Heifers 195
Charles T. Estill

23 Neuroendocrine Control of Estrus and Ovulation 203
Marcel Amstalden and Gary L. Williams

24 Ovarian Follicular and Luteal Dynamics in Cattle 219
Gregg P. Adams and Jaswant Singh

25 Maternal Recognition and Physiology of Pregnancy 245
Caleb O. Lemley Leticia E. Camacho and Kimberly A. Vonnahme

Breeding and Health Management

26 Biosecurity and Biocontainment for Reproductive Pathogens 259
Carla Huston
27 Beef Replacement Heifer Development 267
   Terry J. Engelken

28 Heifer Development: From Weaning to Calving 272
   Ricardo Stockler

29 Interaction of Nutrition and Reproduction in the Beef Cow 276
   William S. Swecker Jr

30 Interaction of Nutrition and Reproduction in the Dairy Cow 283
   Butch Cargile and Dan Tracy

31 Estrus Detection 290
   Rhonda C. Vann

32 Artificial Insemination 295
   Ram Kasimanickam

33 Pharmacological Intervention of Estrous Cycles 304
   Ram Kasimanickam

34 Pregnancy Diagnosis: Rectal Palpation 314
   David Christiansen

35 Biochemical Pregnancy Diagnosis 320
   Amanda J. Cain and David Christiansen

36 Reproductive Ultrasound of Female Cattle 326
   Jill Colloton

37 Beef Herd Health for Optimum Reproduction 347
   Terry J. Engelken and Tyler M. Dohlman

38 Dairy Herd Health for Optimal Reproduction 353
   Carlos A. Risco

39 Herd Diagnostic Testing Strategies 359
   Robert L. Larson

40 Beef Herd Record Analysis: Reproductive Profiling 364
   Brad J. White

41 Evaluating Reproductive Performance on Dairy Farms 370
   James A. Brett and Richard W. Meiring

42 Marketing the Bovine Reproductive Practice: Devising a Plan or Tolerating a System 374
   John L. Myers

Obstetrics and Reproductive Surgery

43 Vaginal Cervical and Uterine Prolapse 383
   Augustine T. Peter

44 Inducing Parturition or Abortion in Cattle 396
   Albert Barth

45 Management to Prevent Dystocia 404
   W. Mark Hilton and Danielle Glynn

46 Dystocia and Accidents of Gestation 409
   Maarten Drost
Charlotte E. Farin Callie V. Barnwell and William T. Farmer

68 Strategies to Decrease Neonatal Calf Loss in Beef Herds 639
David R. Smith

69 Management to Decrease Neonatal Loss of Dairy Heifers 646
Ricardo Stockler

Section III: Assisted and Advanced Reproductive Technologies

70 Use of Technology in Controlling Estrus in Cattle 655
Fred Lehman and Jim W. Lauderdale

71 Cryopreservation of Semen 662
Swanand Sathe and Clifford F. Shipley

72 Utilization of Sex–sorted Semen 671
Ram Kasimanickam

73 Control of Semen–borne Pathogens 679
Rory Meyer

74 Bovine Semen Quality Control in Artificial Insemination Centers 685
Patrick Vincent Shelley L. Underwood Catherine Dolbec Nadine Bouchard Tom Kroetsch and Patrick Blondin

75 Superovulation in Cattle 696
Reuben J. Mapleton and Gabriel A. Bó

76 Embryo Collection and Transfer 703
Edwin Robertson

77 Cryopreservation of Bovine Embryos 718
Kenneth Bondioli

78 Selection and Management of the Embryo Recipient Herd for Embryo Transfer 723
G. Cliff Lamb and Vitor R.G. Mercadante

79 Evaluation of In Vivo–Derived Bovine Embryos 733
Marianna M. Jahnke James K. West and Curtis R. Youngs

80 Control of Embryo–borne Pathogens 749
Julie Gard

81 In Vitro Fertilization 758
John F. Hasler and Jennifer P. Barfield

82 Cloning by Somatic Cell Nuclear Transfer 771
J. Lannett Edwards and F. Neal Schrick

83 The Computer–generated Bull Breeding Soundness Evaluation Form 784
John L. Myers

Glossary 790
Index 795

Ordering:
Order Online - http://www.researchandmarkets.com/reports/2866055/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Bovine Reproduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/2866055/">http://www.researchandmarkets.com/reports/2866055/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCDKCREB</td>
</tr>
</tbody>
</table>

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Hard Copy (Hard Back):</th>
<th>USD 190 + USD 29 Shipping/Handling</th>
</tr>
</thead>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB9853308331083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: __________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World