

INDEX OF AUTHORS

- Aitkin, 215
 Albrecht, 21, 32, 54, 118, 119, 131, 155, 161, 164
 Albrechtsen, 53, 54, 114, 115, 158, 170, 179, 181, 182, 185, 190, 193, 194
 Aldrich, 65.
 Allen, 216
 Ancel, 4, 25, 34, 68, 78, 85, 90, 134, 139, 176
 Armsby, 67
 Aschner, 84, 171
 Asdell, 69, 216
 Assheton, 125, 146, 148, 151, 152, 153, 156, 158
 Athias, 72, 84
- Bakker, 66
 Ballantyne, 98
 Barnowsky, 72
 Barrington, 87, 98
 Bascom, 215
 Baumgärtner, 56, 92, 98
 Beach, 61, 63
 Beaver, 181
 Bell (Blair), 48, 55, 94, 127
 Bell (Graham), 60
 Benoit, 176
 Bergmann, 123, 124, 125, 127, 131, 133, 134, 135, 136, 147, 156, 160, 161, 162
 Bernard, 162
 Bernard-Vonnahme, 170
 Biedl, 17, 177
 Bienenfeld, 126
 Bitting, 59, 60, 61, 62, 63, 64, 65, 66, 67, 72
 Böhme, 87, 92
 Bongardt, 185
 Bonhote, 7
 Bonnet, 108, 133, 161
 Bouin, 4, 34, 68, 78, 85, 90, 134, 139, 176
 Bourdelle, 32
 Boyd, 136, 181
 Bresslau, 108
 Brouha, 174
 Brun, 216
 Bruyn-Ouboter, 140
 Buchem, 131, 133, 135
 Burckhard, 60
 Burghardt, 190
 Busquet, 30
- Christ, 63
 Clark, 61, 63
 Cohn, 190
 Cole, 215
 Colin, 131
 Corner, 16, 38, 45, 78, 80, 81, 122, 123, 125, 127, 145, 160, 190, 216
 Courier, 216
 Craig, 7, 27, 53, 148, 155, 170, 177
- Cramer, 82
 Crew, 136, 161
 Croom, 27
 Crosland, 180
 Crowther, 63
 Currot, 8, 21, 41
 Curtis, 108
- Dana, 65
 Dechambre, 8, 65
 Delestre, 38, 39, 40, 78, 83, 123, 129, 186
 Dennhardt, 164
 Dixon, 217
 Dohrn, 98
 Doisy, 216
 Donnet, 216
 Drummond-Robinson, 216
 Dubreuil, 14
 Duncan (Mathews), 11
- Eckles, 8, 38, 61, 131, 133, 134
 Eichhorn, 108, 109
 Ellenberger, 7
 Emery, 63
 Emrys-Roberts, 50, 55
 Ercolani, 141
 Ernst, 108, 109
 Escher, 38
 Evans, 12, 14, 28, 40, 50, 78, 84, 97, 99, 126
 Ewart, 118, 127, 133, 156
- Fell, 161
 Fellner, 128, 155, 177
 Ferry, 16
 Fincher, 215
 Fitch, 181, 186, 189
 Fleishman, 61
 Foges, 72
 Fraenkel (E.), 186
 Fraenkel (L.), 16, 25, 41, 127, 140, 151, 154, 186
 Franck, 21, 32, 54, 118, 119, 131, 155, 161, 164
 Frank, 178
 Frei, 216
 Fürstenberg, 59, 62, 64, 65, 67
 Fuhrmann, 120, 188
- Gamgee, 141
 Gavin, 63, 170
 Gegenbaur, 108
 Gerlinger, 50
 Girkovitch, 16
 Goerbig, 155
 Gowen, 215
 Graves, 65
 Grigoriu, 177
 Guenon, 65

- Haigh, 131, 133, 134, 215
 Halban, 25
 Haller, 141
 Halnan, 27, 28, 90, 111
 Hammond, 7, 41, 52, 59, 63, 68, 71, 72, 89, 90, 110, 112, 120, 122, 126, 127, 128, 129, 133, 154, 169, 170, 175, 176, 177, 178, 183, 193, 216
 Hansen, 8, 61
 Hart (Berry), 119
 Hart (E. B.), 133
 Heape, 5, 17, 19, 26, 28, 72, 152
 Heitz, 42, 48
 Henneberg, 60
 Hess, 16, 22, 23, 51, 98, 112, 123, 127, 185, 186, 188, 189, 192, 193, 194
 Hesselberg, 110, 176, 177
 Hick, 127
 Hill, 71, 72
 Hilty, 52, 53, 87, 91, 92, 140, 142, 143, 147, 153, 156
 Hinrichs, 189
 Hobday, 192
 Hug, 64
 Humphrey, 133
 Hurni, 16, 81
 Hutyra, 96
 Ivanoff, 34
 Jackson, 72
 Jenkinson, 144, 150, 151, 152, 153, 159, 161, 163
 Jolly, 28, 81, 127
 Joss, 35, 77
 Käppeli, 42, 45, 48, 64, 78, 85, 129
 Kaltenegger, 80, 83, 85, 185
 Kamm, 216
 Kaupp, 35, 94
 Keim, 65
 Keller, 55, 90, 160, 182
 Kempster, 38
 Kirkham, 133
 Klaatsch, 108
 Kleinhaus, 127
 Knaus, 217
 Koch, 98
 Kocks, 98
 Köhler, 25
 Königstein, 177
 Kolster, 89, 92, 141, 142, 143, 144, 145, 149, 150, 151, 152, 153, 156
 Kopf, 170
 Krahmer, 119
 Krainz, 126, 154
 Kronacher, 2
 Krupski, 34, 39, 41, 45, 48, 50, 55, 57
 Küpfer, 9, 16, 34, 37, 38, 39, 40, 41, 43, 48, 50, 121, 123, 124, 125, 127, 128, 160, 186, 193
 Lane-Claypon, 83, 177
 Latase, 97
 Laurie, 189
 Leblanc, 72
 Ledermann, 152, 153
 Lefour, 118
 Lehmann, 154
 Lelièvre, 166
 Lenfers, 111
 Leopold, 25, 160
 Lewis, 180
 Lillie, 159
 Limmer, 120
 Lindig, 72
 Lipschütz, 4
 Loeb, 12, 16, 23, 28, 45, 52, 78, 81, 85, 110, 126, 128, 154, 176, 177, 216
 Long, 12, 14, 28, 40, 50, 78, 84, 97, 99, 126
 Lothe, 187
 Lowenthal, 72
 Lüer, 160
 Lustig, 108
 Mackenzie, 176
 Macomber, 180, 192
 Mańkowski, 64
 Marcotty, 25, 122
 Marek, 96
 Marshall, 19, 20, 21, 22, 23, 24, 27, 28, 35, 38, 51, 52, 59, 68, 72, 81, 82, 83, 88, 90, 98, 110, 111, 112, 118, 120, 127, 128, 129, 146, 176, 177, 180, 183, 217
 Martin, 111, 133
 Mayer, 52
 Mayo-Smith, 5
 McNutt, 215
 Meyer (A. W.), 133
 Meyer (R.), 26, 39, 98, 125, 190
 Miller, 25
 Mohler, 108, 109
 Montané, 32
 Moreaux, 87
 Moulton, 131, 133, 134, 215
 Müller, 158
 Murphey, 215
 Myers, 72, 110
 Nauta, 162
 Nelke, 65
 Nielsen, 34, 40, 81, 154
 Novak, 26
 Nüesch, 62, 63
 O'Donoghue, 68, 178
 Oliver, 72, 146
 Oppermann, 114, 116, 166, 182, 188
 Paimans, 54
 Palmer, 38
 Papanicolaou, 11, 12, 15, 16, 28, 55, 78, 82, 97, 99
 Parkes, 216
 Parshley, 35
 Paulli, 62
 Pearl, 18, 35, 68, 84, 188
 Peel, 19, 38, 82, 129

Index of Authors

221

- Peters, 192, 193
 Pflüger, 35
 Plumb, 61
 Policard, 83
 Pomayer, 151, 152, 153, 154
 Popoff, 85
 Posselt, 194
 Poulsen, 194
 Profé, 107
 Pugh, 187
- Rab, 139
 Raebiger, 96
 Rainard, 53
 Ravano, 25, 122
 Regaud, 14, 83
 Rein, 108
 Reinhardt, 13, 115, 180, 186
 Reisinger, 192
 Retterer, 97, 166
 Riederer, 62, 64, 108
 Robinson, 17, 20, 23, 24, 40, 41, 45, 77, 82
 Rodolfo, 215
 Roeder, 98, 168
 Rörik, 131, 135, 136, 155
 Romolotti, 153
 Rubeli, 59, 60, 62, 63, 64, 188
 Ruder, 98
 Ruge, 16
 Runciman, 23, 24, 28
- Sakowsky, 180
 Sand, 113, 115
 Sanders, 7, 170, 175
 Sandes, 45, 49
 Sassenhagen, 170
 Schafer, 152
 Schauder, 141, 161
 Scheidegger, 194
 Schenk, 127
 Schickele, 81
 Schikele, 59
 Schil, 68
 Schmaltz, 1, 2, 8, 32, 54, 72, 76, 97, 118, 120, 127, 129, 139, 159
 Schmaus, 152
 Schmid, 7, 9, 34, 37, 39, 41, 47, 48, 50, 80, 112, 123, 124, 125, 185, 186
 Schochet, 77
 Schröder, 25, 155
 Schultz, 158
 Schumann, 186, 188, 194
 Schwarz, 158
 Seitter, 65
 Seitz, 16, 216
 Servatius, 52, 166
 Sheild, 72
 Siegel, 25, 167
 Simon, 48, 77, 129, 186, 190
 Sisson, 32
 Skellett, 215
 Smith (F.), 118
 Smith (G.), 126
 Sobotta, 40, 96
- Solorieff, 82
 Sommer, 51, 52, 53, 153, 166
 Sonnenberg, 81
 Spencer, 118
 Stålfors, 160, 195
 Stapel, 120
 Starling, 177
 Stazzi, 192
 Steenbock, 133
 Steinach, 4, 72
 Stewart, 72
 Sticker, 63
 Stockard, 11, 12, 15, 16, 28, 55, 78, 82, 97, 99
 Strodthoff, 23, 34, 37, 48, 112, 181, 185
 Struve, 9
 Stünkel, 13
 Surface, 68, 84, 188
 Sutton (Bland), 55, 189
- Tourneux, 108
 Trautmann, 94, 165
 Triepel, 26, 119
 Trowbridge, 131, 133, 134, 215
 Turner, 141
- Utz, 50
- van Beek, 83, 129
 van der Stricht, 80, 84
 Vignes, 80, 119, 167
 Villemin, 25
- Wall, 87, 88, 94, 96, 138, 141, 143, 148, 153, 154, 156
 Wallace, 11, 82
 Warwick, 217
 Watrin, 216
 Weber, 5, 6, 11, 18, 19, 20, 30, 34, 50, 54, 57, 59, 120
 Wellmann, 118
 Wells, 89
 Werner, 8
 Wester, 217
 Weymeersch, 25, 28, 127
 Wilhelm, 118
 Williams, 32, 37, 39, 41, 53, 54, 56, 76, 112, 115, 116, 118, 119, 123, 137, 138, 148, 153, 159, 163, 164, 165, 167, 175, 182, 193, 215
 Wilson, 116, 194
 Wing, 61, 62, 67
 Wintz, 81, 216
 Wirz, 61, 62, 63
 Wolz, 77
 Woodman, 55, 71, 110, 169, 170, 175, 216
- Zieger, 49, 114, 115, 120, 127, 139, 165, 166
 Zietzschmann, 9, 35, 37, 39, 45, 50, 59, 62, 63, 78, 79, 81, 91, 123
 Zschokke (E.), 16, 35, 39, 41, 77, 83, 126, 184, 185, 190, 193, 194
 Zschokke (M.), 108
 Zucherhandl, 54
 Zupp, 215
 Zwart, 61, 62, 63

INDEX OF SUBJECTS

- Abortion*, and irrigation, 114; and removal of corpus luteum, 120, 127; and persistence of corpus luteum, 126; and foetal fluids, 136; time of, 137, 138; membranes after, 153, 154; and cervical seal, 166; milk after, 170; pituitary and, 217
- Adventitious cotyledons*, formation of, 155 et seq.
- Afterbirth*, retention of, 153, 154
- Age*, and service period, 7; of puberty, 7, 8; and cycle, 11; and oestrus, 19; and size of follicle and corpus luteum, 47; and weight of ovary, 47; and number of follicles, 48; and weight of uterus, 51; and vaginal bleeding, 57; and nipples, 64; and weight of udder, 66, 67; and changes in vagina, 94, 96; and position of uterus, 114; estimation of in foetus, 133, 156 et seq.
- Allantois*, at birth, 164
- Alternating action*, of ovaries, 48, 49
- Alveoli*, formation of, 172-4
- Amnion*, at birth, 164
- Amniotic pustules*, occurrence of, 162; histology of, 162, 163, 216
- Antitoxins*, in colostrum, 170
- Artificial insemination*, and cervix, 54
- Atrophic follicles*, and sterility, 183, 184
- Attachment*, and uterine bleeding, 88; time of, 125, 145, 146; to cotyledons, 134, 160; method of, 148, 149
- Ayrshires*, age of puberty, 8; shape of udder, 61; size of nipple, 64
- Bartholin's glands*, cysts of, 98
- Bats*, ovulation in, 24; corpus luteum of, 80; interstitial cells of, 84
- Birds*, cycle of, 17
- Birth weight*, nutrition and, 133, 134
- Bison*, foetal fluids in crosses of, 136
- Bitch*, length of interval in, 17; length of heat in, 19; artificial rupture of follicle in, 23; menstruation and ovulation in, 26, 51, 167; pseudo-pregnancy in, 27; cervix of, 55; yolk in, 83; uterine glands in, 90; mammary growth in, 111; duration of pregnancy in, 118; uterine changes in, 140; uterine epithelium in, 152; deciduomata in, 154
- Bleeding*, from vulva after oestrus, 30, 31, 51, 57; into cavity of corpus luteum, 35, 39; from uterus, 50, 51; in vagina, 56, 95, 96, 97; into follicle, 77, 78, 129; on cotyledon, 88; during service, 96; after fertile service, 146, 167; in pregnant cotyledon, 149, 150; into cyst, 189
- Body temperature*, at oestrus, 31; before parturition, 120
- Breed differences*, in age of puberty, 8; in length of cycle, 9; in twin pregnancies, 41; in size of corpus luteum, 45; in vaginal bleeding, 57; in shape of udder, 61; in nipple size, 64
- Breeding season*, 5 et seq.
- Bull*, vasectomised, 3, 4; presence of on cycle, 13; presence of on oestrus, 20; supernumerary nipples in, 60
- Bulldog calves*, in Dexters, 136
- Calving distribution*, 5
- Camphor*, and length of cycle, 13
- Carrotine*, and luteal pigments, 38
- Cat*, Bartholin's glands in, 98; uterine changes in, 140
- Cervix*, stimulation of, 14; anatomy of in cycle, 54 et seq.; mucin formation in, 54, 55, 86; histology of in cycle, 92 et seq.; position in pregnancy, 115; during pregnancy, 116, 164 et seq.; after parturition, 166; and sterility, 180, 181, 182
- Clitoris*, structure of, 56, 98
- Coitus*, see *Service*
- Colostrum*, formation of, 169, 170, 174
- Conception*, optimum time of year for, 7
- Corpus luteum*, method of removal, 15; removal on cycle, 15 et seq.; and growth of follicle, 16; hypertrophy of, 22, 186; and generative ferment, 17, 45; removal on oestrus, 21 et seq.; fertility after removal, 23; internal secretion of, 26, 40, 80, 81; formation of, 35 et seq., 83; atrophy of, 35 et seq., 79, 80; colour of, 37, 38, 121; bleeding into cavity, 39; central cavity, 39, 40; central plug, 40; shape of, 41, 121; growth curve of, 43; age and size of, 45; breed and size of, 45; size of, 47, 123; and alternating action of ovaries, 49; and growth of mammary gland, 68, 110, 177, 178; histology of in cycle, 78 et seq.; development of, 78, 79; injections of, 81; and follicular atrophy, 82, 128; interstitial cells from, 83; and uterine glands, 90, 91; removal in pregnancy, 112, 127; duration in pregnancy, 119; structure in pregnancy, 121 et seq.; persistence of, 184, 185
- Corpus rubrum*, formation of, 37
- Cotyledons*, congestion of in cycle, 49, 50, 51; involution of, 53, 92; size of, 53; number of, 53, 147; histology of in cycle, 87, 88; attachment to, 134; structure of, 141; in pregnancy, 147 et seq.; stimulus for growth of, 147, 152; crypts of, 148; histology of in pregnancy, 149; adventitious, 155 et seq.
- Cysts of Bartholin's glands*, 98

Index of Subjects

223

- Cysts of corpora lutea*, 39
Cysts of follicles, after removal of corpora lutea, 24; and thickening of albuginea, 35; and rupture without corpora lutea formation, 83; and sacro-sciatic ligaments, 120; and uterine irrigations, 182
Cysts of Gärtner's canals, 98
- Dasyurus*, mammary glands in, 68, 178
Deciduomata, formation of, 126
Desire for coitus, causes of, 24
Devons, length of cycle in, 9; vaginal bleeding in, 57
Dexters, bulldog calves in, 136, 137
Diagnosis, of pregnancy, 113 et seq.; of sterility, 193
- Escutcheon*, and milk yield, 65, 66; studies of, 216
Ewe, ovulation in, 20, 21; length of oestrus and cycle, 21, 22; pigment in uterus, 51; supernumerary teats in, 60; mucin in cervix, 94, 165; attachment in, 125, 146, 148; glycogen in uterus, 144; uterine epithelium, 152
- Fallopian tube*, structure of, 54; secretions of, 87; in pregnancy, 136
Fatness, and length of cycle, 11, 12; and length of oestrus, 19
Ferret, follicles in, 17; length of oestrus, 20, 23; size of follicles, 24, 41; corpus luteum, 40; granulosa cells, 82, 83
Fertility, in woman, 25, 26
Fleckvieh, supernumerary teats in, 60
Foetal atrophy, and removal of corpus luteum, 127; occurrence of, 137, 138; and sterility, 193
Foetal fluids, increase of, 134, 135; in twin pregnancies, 136; in Bison crosses, 136; appearance of, 161, 162
Foetal membranes, growth of, 134; destruction of epithelium by, 145; attachment of, 146, 148, 149; separation of, 153, 154; appearance of, 158, 159; necrosis at ends of, 159, 215
Foetus, movements of, 113; position of, 115, 164; and corpus luteum, 126; weight of, 131, 133; age of, 133, 158, 159; distribution in uterus, 160, 217
Follicle, effect of corpus luteum on, 16; and generative ferment, 17, 45; internal secretion of, 26; blood vessels in, 35; rupture of, 35; growth of, 41 et seq.; size of, 42, 47; position in ovary, 48; number of, 48; ovary in which ripens, 48; histology of, 76, 77; bleeding into, 77; during pregnancy, 128; sterility and, 182
Follicular atrophy, from underfeeding, 12; and corpus luteum, 45, 82; in pregnancy, 128, 129
Fowls, cleavage lines in follicle, 35; yellow pigment in, 38; mucin in egg of, 94
- Freemartin*, udder of, 67, 108, 109; occurrence of, 159, 160; and sterility, 182
Friesians, age of puberty, 8; cycle in, 9; twins in, 41; vaginal bleeding in, 57; supernumerary teats in, 60; shape of udder, 61; size of nipple, 64; position of uterus, 114
- Gärtner's canals*, mucin in, 86; histology of, 97, 98; cysts of, 98; in pregnancy, 168
Generative ferment, and growth of follicle, 17, 45
Gestation, see *Pregnancy*
Globulin, in mammary gland, 169, 170, 174
Glycogen, in uterus, 144
Goat, lactation before pregnancy, 71, 72; lactation following abortion, 216
Graafian follicle, see *Follicle*
Granular vaginitis, and hypertrophy of the corpus luteum, 22; and lymph nodules, 96, 166; and persistence of corpus luteum, 126
Granulosa cells, and liquor folliculi, 40; and corpus luteum, 78, 79, 83; and follicular degeneration, 129; in follicular cysts, 189
Growth curves, of corpus luteum and follicle, 43; of uterine contents in pregnancy, 131 et seq.; of udder in pregnancy, 168, 169
Guernseys, age of puberty, 8; vaginal bleeding, 57
Guinea-pig, cycle length, 11, 12, 15; corpus luteum and oestrus, 16, 23; menstruation in, 28; follicle growth, 45; vagina, 55, 87, 97, 99; mammary growth, 72, 110, 176, 177; ovulation, 78; injection of extracts, 82; interstitial cells, 85; persistence of corpus luteum, 126; follicular atrophy, 128; decidual formation, 154; vagina in pregnancy, 166
- Hairs*, and foetal age, 156, 158
Heat, see *Oestrus*
Hippomanes, occurrence of, 161
Hungarian cows, pregnancy in, 118
Hymen, persistence of, 56
- Individuality*, in length of cycle, 12; in length of oestrus, 20; in mammary secretion, 68, 69
Intercotyledonary area, histology of, 87; in cycle, 89, 90, 91; in pregnancy, 140 et seq.; accessory cotyledons in, 156
Interstitial cells of ovary, and oestrus, 28; and ovulation, 78; origin of, 83, 84, 85, 215
Interstitial cells of testis, and vasectomy, 4
Involution, of uterus, 52, 53; of uterine glands, 91
- Jerseys*, age of puberty, 8; cycle length, 9; twins in, 41; corpus luteum of, 45; shape of udder, 61; nipple size, 64
- Lactation*, and uterus, 52; up-curve of, 170, 216

- Lipochrome*, in ovaries, 19; in corpora lutea, 37, 38
- Lipoids*, in ovaries, 19; in corpora lutea, 38, 79 et seq.; in placenta, 126, 153
- Liquor folliculi*, and corpus luteum, 40, 81; and follicle, 77; injection of, 81
- Lobules of mammary gland*, formation of, 173, 174
- Luteal cells*, in cycle, 78 et seq.; regression of, 82; origin of, 83
- Luteal cysts*, and sterility, 186
- Lutein*, formation of, 126; in cysts, 189
- Mammary ducts*, in pregnancy, 172
- Mammary gland*, anatomy, 59 et seq.; supernumerary teats, 59, 60; fore and hind quarters, 60, 61; shape, 61; milk cistern, 61, 62; milk ducts, 62; tissues in, 63; nipple structure, 63, 64; method of preparation, 66; weight, 66, 67; connective tissue, in 67; and corpus luteum, 68; during cycle, 68, 69, 109, 110; secretions of virgin, 71; foetal development, 105, 107, 108; histology of, 108; at puberty, 109; during lactation, 111; secretions in pregnancy, 116; at parturition, 120; and foetal fluids, 135, 136; in pregnancy, 168 et seq.; causes of growth, 176, 177
- Mare*, cycle and oestrus, 21; lactation in, 72; cervix, 94; duration of pregnancy, 118; abortion, 127; foetus, 133; pregnant uterus, 141; attachment, 156; allantois, 163; parturition, 164; artificial insemination, 180; cysts, 189, 190
- Menstruation*, in woman, 25; see also *Bleeding*
- Milk*, from fore and hind quarters, 61; holding up, 62; and pituitary extract, 63; secretion of, 63, 175; before pregnancy, 72
- Milking*, and oestrus, 21; quick, 63; changes in nipple, 64
- Milk bud*, formation of, 105, 107, 108
- Milk cistern*, capacity, 61; structure, 62; formation, 105; in pregnancy, 172
- Milk ducts*, entering cistern, 62; formation, 107
- Milk fever*, and veins of udder, 65
- Milk line*, formation, 105
- Milk pressure*, and udder shape, 61; and milk cistern, 62; and skin elasticity, 68
- Milk veins*, course of, 64
- Milk yield*, at oestrus, 31; in pregnancy, 170; before parturition, 175
- Monkeys*, menstruation and ovulation, 26, 216; cervix, 55; uterus, 152
- Mouse*, foetus, 133; mammary gland, 176; oestrus, 216
- Mucin*, at oestrus, 29; in cervix during cycle, 54, 55, 93; in vagina during cycle, 59, 95; distribution of, 85 et seq.; in cervix during pregnancy, 164, 165; in vagina during pregnancy, 166
- Mucus*, in uterus, 50; in foetal fluids, 162, 163
- Myometrial gland*, in pregnancy, 134, 139, 140; and mammary gland, 176
- Niederungs breed*, foetal weight, 133; foetal age, 156
- Nipple*, supernumerary, 59, 60; structure and size, 63, 64; stricht-canal, 63; constrictions in, 64; during milking, 64; age changes, 64; formation of, 105, 108; fluids from in pregnancy, 169; before parturition, 172; histology of, 216
- Nutrition*, and service period, 7; and age of puberty, 7; and fertility, 82; and follicular atrophy, 128; and foetal weight, 133
- Nymphomania*, and rhythm, 16; nipple in, 63, 64; and sacro-sciatic ligaments, 120; symptoms of, 188; treatment of, 215
- Oestrous cycle*, rhythm, 9 et seq.; length, 9; time of year, 11; age, 11; fatness, 11, 12; individuality, 12, 13; drugs, 13; and male, 13; and service, 14; side of ovulation, 14; removal of corpus luteum, 15; and length of oestrus, 22; ovarian weight, 45, 46; cervix, 54 et seq.; vagina, 56 et seq.; bleeding, 58, 167; mammary glands, 68, 69, 109; theca interna, 77; comparison with pregnancy, 90, 145, 146; separation of, 167, 168
- Oestrus*, test of, 3; after parturition, 6, 123; age at first, 7; duration of, 18 et seq.; time of year, 19; age, 19, 31; fatness, 19; individuality, 20; yohimbine, 20; and male, 20; and service, 20; side of ovulation, 21; milking, 21; removal of corpus luteum, 21 et seq., 186; and length of cycle, 22; causes of, 23, 24; and time of ovulation, 23, 34, 181; and interstitial cells, 28; signs of, 29 et seq.; cervix, 54; in pregnancy, 112; and sterility, 179, 180, 181; absence of, 183; hormone of, 216
- Os*, see *Cervix*
- Ovarian cysts*, and rhythm, 16; and sterility, 186 et seq.; causes, 192; treatment, 192
- Ovarian stroma*, increase of, 47
- Ovariectomy*, and sterility, 192; and foetal death, 217
- Ovary*, during cycle, 32 et seq.; blood-vessels in, 35; weight before puberty, 42, 43; weight during cycle, 45, 46; weight with age, 47; alternating action of, 48; weight of right and left, 48; and uterus, 52; and mammary secretion, 72; histology, 76 et seq.; stroma, 85; diagnosis of pregnancy by, 114; during pregnancy, 121 et seq.; weight in pregnancy, 123, 125; greater activity of right, 160
- Ovulation*, after service, 14, 20; side of, 21; time of, 23, 34, 215; spontaneous, 34; with hyperaemia, 35; prevention of, 35, 45; causes of, 77, 78; and sterility, 181

Index of Subjects

225

- Ovum*, degeneration of, 129; migration of, 160
- Parturition*, oestrus after, 6, 15, 123; uterus after, 53; cervix during, 55, 165; symptoms of, 119 et seq.; corpus luteum after, 123; factors in, 136; foetal membranes after, 153, 154; presentation at, 164; cervix after, 166; and pituitary, 217
- Pelvic ligaments*, see *Sacro-sciatic ligaments*
- Penis*, in coitus, 54
- Persistent corpora lutea*, removal of, 16, 17; and rhythm, 16; causes of, 126; and sterility, 184, 185
- Pigment*, in uterus, 51; in cotyledons, 88; in pregnancy, 149, 150
- Placenta*, causes of formation, 154, 155
- Pregnancy*, and rhythm, 16; comparison with cycle, 90, 120; description of, 112 et seq.; diagnosis of, 113 et seq.; duration of, 118 et seq.; ovaries, 121 et seq.; ovary weights, 125; follicular atrophy, 128; uterus, 130 et seq., 136, 138 et seq.; foetal fluids, 134, 135; uterine glands, 141, 142, 143; cotyledons, 147 et seq.; cervix, 164 et seq.; vagina, 166; vaginal secretions, 167; mammary glands, 168 et seq.
- Pro-oestrus*, absence of, 29
- Pseudo-pregnancy*, and pregnancy, 120
- Puberty*, age of, 7, 8; follicle, 42; ovary, 43, 45; uterus, 52; uterine glands, 92; mammary ducts, 172
- Rabbit*, age of puberty, 8; ovulation, 14; absence of rhythm, 16, 17, 20; hysterectomy, 24; removal of corpus luteum, 28, 127; corpus luteum, 40; corpus luteum in pregnancy, 41, 122; uterus, 59, 140; mammary gland, 68, 110, 176, 177, 178; bleeding into follicle, 77; injection of extracts, 81, 155; interstitial cells, 84; deciduomata, 89, 154; uterine glands, 90; pseudo-pregnancy, 120; persistence of corpus luteum, 126; follicular atrophy, 128, 129; foetal growth, 133; myometrial gland, 134, 139; foetal absorption, 137, 138; attachment, 154; migration of ovum, 160; cervix, 165; pituitary on pregnancy, 217
- Rat*, cycle, 14; corpus luteum extracts, 16; corpus luteum, 27, 28, 40, 126; uterus, 50; mammary gland, 72, 110; ovulation, 78; interstitial cells, 84, 85; vaginal cycle, 97-99
- Ratios*, ovarian weights in pregnancy, 125; parts of pregnant uterus, 136 et seq.
- Red Polls*, nipple size, 64
- Rhythm*, of oestrus, 16
- Sacro-sciatic ligaments*, at parturition, 120; and nymphomania, 120, 188
- Service*, and cycle, 14; and oestrus, 20; contractions after, 30; straining after, 31; and bleeding, 59, 96
- Service periods*, and time of year, 5; and nutrition, 7; and age, 7
- Sex ratio*, and oestrus, 35
- Shorthorns*, in experiments, 2; corpus luteum, 45; position of uterus, 114; foetal growth, 158
- Simmentals*, uterus weight, 51; duration of pregnancy, 118; atrophic follicles, 129
- Sow*, corpus luteum, 16, 41, 80, 123, 125; cycle and oestrus, 21; follicle, 45; ovulation, 78; cervix, 94, 165; foetal weight, 133; attachment, 145, 146; migration of ovum, 160, 217; mammary pigment, 176
- Spermatozoa*, in vasectomy, 4; and cervix, 94; life of, 119
- Steppe cattle*, age of puberty, 8; atrophic follicles, 129
- Sterility*, and cystic corpora lutea, 39, 40; account of, 179 et seq.; diagnosis of, 193, 194; frequency of, 194
- Stigma*, of follicle, 35
- Stratum vasculosum*, of uterus, 140
- Stricht-canal*, muscle in, 63, 64; formation of, 105, 108
- Suckling*, oestrus during, 15
- Supernumerary nipples*, position of, 59; frequency of, 60; in bulls, 60
- Teats*, see *Nipple*
- Testes*, in vasectomy, 4
- Theca externa*, structure, 76
- Theca interna*, structure, 76, 77; after ovulation, 79, 83
- Theca luteal cells*, structure, 76, 77; in corpus luteum, 83; in stroma, 84
- Time of year*, conceptions during, 5; of calving, 5; and puberty, 8; and cycle, 11; and oestrus, 19; and duration of pregnancy, 118
- Trophoblast*, in crypts, 141, 149; functions, 151, 152, 156
- Tuberculosis*, and cycle, 11; and follicle, 17
- Tunica albuginea*, and ovulation, 35
- Twin pregnancies*, frequency, 41, 215; corpora lutea in, 41, 127; foetal fluids in, 136, 137
- Udder*, see *Mammary gland*
- Under-nutrition*, and cycle, 12, 17; and ovaries, 82; and oestrus, 215
- Uterine artery*, in pregnancy, 116
- Uterine bleeding*, causes, 28
- Uterine epithelium*, in pregnancy, 151, 152, 156
- Uterine glands*, at oestrus, 50; mucin in, 86; distribution, 87; in the cycle, 89, 90, 91; involution of, 91, 143; before puberty, 92; in pregnancy, 140 et seq.
- Uterine milk*, in pregnancy, 140 et seq.; and cotyledons, 149, 151

- Uterine muscle*, in pregnancy, 138, 139
Uterus, anatomy in cycle, 49 et seq.; weight 51, 52; involution, 52, 53; histology in cycle, 87 et seq.; position of pregnant, 113; irrigation of pregnant, 114; diagnosis of pregnant, 114, 115; weight in pregnancy, 130 et seq.; histology in pregnancy, 138 et seq.; development of, 140; unequal size of horns, 52, 161; pathology of and sterility, 181
- Vagina*, anatomy in cycle, 56 et seq.; mucin in, 86; histology in cycle, 94 et seq.; age changes, 94, 96; in pregnancy, 116, 166; before parturition, 167
Vaginal discharges, blood in, 56; breed differences, 57; age differences, 57; in cycle, 99 et seq.; in pregnancy, 116, 167
- Vulva*, bleeding from, 5, 57; at oestrus, 30; at parturition, 120
- Whartonian jelly*, in pregnancy, 144
Wild cattle, calving season, 5
Woman, conceptions in, 5; menstrual rhythm, 11, 216; removal of corpus luteum, 16, 25; cycle, 16; ovulation, 25, 77; comparison of cycle with cow, 27; cystic corpora lutea, 39; reproductive life, 48; cervix, 55, 94; milk secretion, 72; interstitial cells, 85; Gärtner's canals, 98; mammary gland, 108; duration of pregnancy, 119; corpus luteum of pregnancy, 122; menstruation and pregnancy, 146, 167; ovarian cysts, 190
- Yohimbine*, and cycle, 13; and oestrus, 20
Yolk, composition, 82