INDEX

The titles given below are abbreviated or modified. Full titles are given in the contents of Vol. 50. Roman figures refer to articles in the Proceedings of the Society.

AUTHORS

Allison, A. J., see Fletcher et al.
Amor, Vicky, see Wang & Amor
Anderson, A. B. M., see Pierrepoint et al.
Anderson, R. R., see Singh et al.
Arai, Y. & Suzuki, Y. Biphasic lactogenic response of male rat mammary glands after reserpine 697
Attal, J. & Engels, J.-A. Technique for progestosterone assay in pregnancy 703
Averill, R. L. W., see Evans & Averill

Bainbridge, J. G. & Labhsetwar, A. P. Site of action of anti-oestrogen 321
Ball, J. N., Chester Jones, I., Forster, M. E., Hargreaves, G., Hawkins, E. F. & Milne, K. P. Cortisol and osmoregulation in the eel 75
Banerjee, D. N., see Banerjee et al.
Banerjee, M. R., Rogers, Ferne M. & Banerjee, D. N. Biosynthesis in mammary gland 281
Bartke, A., see Hafiez et al.
Bassett, J. M. & Thorburn, G. D. Insulin in foetal lambs 59
Ben-David, M., Danon, A., Benveniste, R., Weller, C. P. & Sulman, F. G. Prolactin radioimmunoassay after adrenalectomy 599
Benson, B., see Vaughan et al.
Benson, E. A., see Stewart et al.
Benveniste, R., see Ben-David et al.
Bertrand, J., see Cathro et al.
Bindon, B. M. Gonadotrophin requirements for implantation 19
Boys, A. R., see Groom et al.
Brown-Grant, K., see Feder et al.; Newcomer & Brown-Grant
Burešová, M. & Gutmann, E. Testosterone and muscle contraction time 643
Burstyn, P. G., see Lloyd et al.
Burstyn, P. G., Horrobin, D. F. & Lloyd, I. J. Aldosterone and arterial pressure 653
Butler, Jean E. M. & Donovan, B. T. Hypothalamic and oestrus in guinea-pig 507
Capreol, S. V., Sutherland, L. E. & Hanimyan, D. A. Glycprotein synthesis in alloxan-diabetic rats 355
Carson, Pamela, see Deshpande et al.; Jensen et al.
Castro-Vazquez, A., see De Carli et al.
Cathro, D. M., Saez, J. M. & Bertrand, J. Clomiphene and plasma androgens in boys 387
Chan, S. W. C. & Phillips, J. G. Seasonal variations in frog adrenals 1

Chester Jones, I., see Ball et al.
Chow, S. Y. & Woodbury, D. M. Thyroid water and electrolytes 561; Thyroid electrolytes and function 577
Ciaccio, L. A. & Lisk, R. D. Progesterone and sexual receptivity 201
Clark, B. F. Effects of oestrone and progesterone on mitosis and morphology in rat uterus 527
Cocchi, D., see Pecile et al.
Collu, R., Fraschini, F. & Martin, L. Pineal indoles and rat vaginal opening time 679
Cooke, B. A. & Taylor, Patricia D. Site of dehydroepiandrosterone sulphate biosynthesis in human foetal adrenal gland i
Cooke, I. D., see Groom et al.
Corker, C. S., see Feder et al.

Danon, A., see Ben-David et al.
De Carli, D. N., Castro-Vazquez, A., Macome, J. C. & Rosner, J. M. Histamine and uterine oestradiol uptake 541
Deshpande, N., see Jensen et al.
Deshpande, N., Carson, Pamela & Harley, Sheila. Adrenal biogenesis in vivo 467
Dilley, W. G. Mammary gland mitosis 501
Dilman, V. M. & Vasil’eva, I. A. Non-hypoglycaemic insulin derivatives 373
Dominic, C. J., see Kulshrestha & Dominic
Donovan, B. T., see Butler & Donovan
Dunlap, J. L., see Gerall & Dunlap

Eckstein, B., see Springer & Eckstein
Edmonds, C. J., see Thompson & Edmonds
Edwards, B. A. Uptake of labelled vasopressin 669
Edwards, R. W. H., see Clayton et al.
Engels, J.-A., see Attal & Engels
Evans, J. S. & Averill, R. L. W. TRF action on pituitary grafts 397
Evans, L. H. & Hähnel, R. Oestrogen receptors in human uterine tissue 209

Feder, H. H., Brown-Grant, K. & Corker, G. S. Progesterone and LH release 29
Felici, M., see Pecile et al.
Ferguson, D. R. & Price, R. H. Water transfer across membranes 88
Fletcher, I. C., Allison, A. J. & Lindsay, D. R. Seasonal sensitivity of ewes to progesterone and oestrogen 539
Index

Fletcher, I. C. & Lindsay, D. R. Oestrogen and oestrous behaviour 685
Forrest, A. P. M., see Jones et al.; Stewart et al.
Forster, M. E., see Ball et al.
Fourman, Julia. Structural aspects of the kidney iv
Fraschini, F., see Collu et al.
Galà, R. R. Prolactin production by human anterior pituitary 637
Gerall, A. A. & Dunlap, J. L. Neonatal rat ovaries secrete active substances 529
Goldfoot, D. A., Resko, J. A. & Goy, R. W. Antiandrogen and development 423
Goldsworthy, J. G. Neurosecretion and carbohydrates 287
Goy, R. W., see Goldfoot et al.
Greenwood, F. C., see Stewart et al.
Griffiths, K., see Jones et al.; Pierrepont et al.
Groom, G. V., Cooke, I. D. & Boyns, A. R. Differential release of gonadotrophins by human foetal pituitary gland after cAMP and NaF 709
Gutmann, E., see Burešová & Gutmann
Gwynne, H. L., Lockett, Mary F. & Marwood, J. F. Mid-brain and salt excretion 123
Hafiez, A. A., Philpott, J. E. & Bartke, A. Prolactin and 3β-hydroxysteroid dehydrogenase 619
Hahnle, R., see Evans & Hahnle
Hanimyan, D. A., see Capreol et al.
Hargreaves, G., see Ball et al.
Harley, Sheila, see Deshpande et al.
Harvey, G., see Pierrepont et al.
Hawkins, E. F., see Ball et al.
Hay, A. J., see Snaithe et al.
Heller, H. The neurohypophysis and water metabolism iii
Heller, H., Leathers, D. H. G. & Lane, G. J. Effect of neurohypophysial hormones on oviduct of elasmobranchs 357
Hillier, A. P. Free thyroxine in bile 181
Horrobin, D. F., see Burstyn et al.; Lloyd et al.
Hutchison, J. B. Steroids and the hypothalamus 97
Hyne, S. & Sharp, G. W. G. Adenyl cyclase in toad bladder 231
Idler, D. R., see Sangalang et al.
Illingworth, Doreen V. & Perry, J. S. Pituitary stalk-section and luteal function 625
Jensen, Vibeke, Carson, Pamela & Deshpande, N. DHA synthesis in the adrenal gland in vitro 177
Jones, T., Forrest, A. P. M. & Griffiths, K. C19 Steroid synthesis in the human adrenal 535
de Jong, W., see Palkovits et al.
Katongole, C. B., Naftolin, F. & Short, R. V. Blood LH and testosterone in the bull 487
Knaggs, G. S., see Shani (Mishkinsky) et al.; Tindal & Knaggs
Knaggs, G. S., Tindal, J. S. & Turvey, A. Paraventricular neurosecretory pathways 153
Kulshreshtha, Aruna & Dominic, C. J. Inhibition by resinpine of NaCl-induced histological changes in the hypothalamic neurosecretory system of musk shrews 707
Labbsetwar, A. P., see Bainbridge & Labbsetwar
Labbsetwar, A. P. Prostaglandin F2α and implantation in rats 353
Lamming, G. E., see McNeilly & Lamming
Lane, G. J., see Heller et al.
Langer, P. Extrathyroidal effect of thiocyanate and PTU 367
Leathers, D. H. G., see Heller et al.
Levy, G. A., see Snaith et al.
Lincoln, D. W. Induction of labour by electrical stimulation 607
Lindsay, D. R., see Fletcher et al.; Fletcher & Lindsay; Scaramuzzi et al.
Linnell, J. L., see Paterson & Linzell
Lipner, H. & Smith, M. Susan. Distribution of ovarian protein 187
Lisk, R. D., see Ciacco & Lisk
Lloyd, J. L., see Burstyn et al.
Lloyd, I. J., Muiruri, Kathleen, Horrobin, D. F., Burstyn, P. G., Matharu, A. S. & Syal, P. Na excretion and pregnancy in rabbits 531
Lockett, Mary F., see Gwynne et al.
van Maanen, J. H., see Pogoriler et al.
McLaren, Anne, Blastocysts in the mouse uterus 515
McNeilly, Judith R. & Lamming, G. E. Perphenazine and prolactin in sheep blood 359
Macome, J. C., see De Carli et al.
Makin, H. L. J., see Clayton et al.
Manning, J. P. Decidual alkaline phosphatase and adrenalectomy 451
Mantalenakis, S. J. Pseudopregnancy by medroxyprogesterone 339
Martini, L., see Collu et al.
Marwood, J. F., see Gwynne et al.
Matharu, A. S., see Lloyd et al.
Mattner, P. E., see Thorburn & Mattner
Mills, J. N. Diurnal rhythms and water metabolism vi
Mills, P. G. & Reed, May. First oestrus in the guinea-pig 329
Milne, K. P., see Ball et al.
Mirhom, Y. W. & Szontágh, F. E. 7-Oxygenation of steroids by human placenta 301
Morley, A. R., see Wright & Morley
Muiruri, Kathleen, see Lloyd et al.
Müller, E. E., see Pecile et al.
Murphy, M., see Stern & Murphy
Naftolin, F., see Katongole et al.
Nathanielsz, P. W., see Paisey & Nathanielsz
Netti, C., see Pecile et al.
Newcomer, W. S. & Brown-Grant, K. TSH in pituitary of rats during oestrous cycle and pregnancy 699
Norris, J. T., see Vaughan et al.
Oakey, R. E., see Shahwan et al.
Paisey, R. B. & Nathanielz, P. W. Plasma cortisol in newborn lambs 701
Palkovits, M., de Jong, W., van der Wal, B. & de Wied, D. Growth hormone and aldosterone production 407
Paterson, J. Y. F. & Linzell, J. L. Mammary uptake of cortisol 493
Peaker, M., Peaker, Stephanie J., Phillips, J. G. & Wright, A. ACTH and salt-gland secretion 293
Peaker, Stephanie J., see Peaker et al.
Pecile, A., Müller, E. E., Felici, M., Netti, C. & Cocchi, D. Insulin into brain ventricles and GH release 51
Perry, J. S., see Illingworth & Perry
Peifer, Y., Sadovsky, E., Polishuk, Z. & Sulman, F. G. Cyproheptadine and 5-HT in pregnant uterus 385
Phillips, J. G., see Chan & Phillips; Peaker et al.; Thomas & Phillips
Phlipott, J. E., see Haﬁez et al.
Pierrepont, C. G., Anderson, A. B. M., Harvey, G., Turnbull, A. C. & Griffiths, K. Conversion of C₂₈ steroids to oestrogen sulphates by sheep placenta 537
Pogoriler, G., van Maanen, J. H. & Sellers, E. A. Thyroxine antibody binding 547
Polishuk, Z., see Peifer et al.
Price, R. H., see Ferguson & Price
Reed, May, see Mills & Reed
Resko, J. A., see Goldfoot et al.
Roberts, M. Maureen, see Stewart et al.
 Rogers, Ferne M., see Banerjee et al.
Rosner, J. M., see De Carli et al.
Rubin, B. D. & Traum, R. E. Melatonin and ovarian compensatory hypertrophy in rats 179
Sadovsky, E., see Peifer et al.
Saiz, J. M., see Cathro et al.
Sangalang, G. B., Weisbart, M. & Idler, D. R. Steroids of a chondrostean 413
Sano, M. & Sasaki, F. Electron microscopy of differentiation of prolactin cells in mouse adenohypophysis after prepubertal orchidectomy 705
Sasaki, F., see Sano & Sasaki
Scaramuzzi, R. J., Lindsay, D. R. & Shelton, J. N. Oestradiol benzoate and oestrous behaviour in ewes 345
Sellers, E. A., see Pogoriler et al.
Shahwan, M. M., Oakey, R. E. & Stitch, S. R. Androgen biosynthesis in anencephaly 115

Index

Shani (Mishkinsky), J., Knaggs, G. S. & Tindal, J. S. Biogenic amines and milk yield in rabbits 543
Sharpe, G. W. G., see Hynie & Sharp
Shelton, J. N., see Scaramuzzi et al.
Short, R. V., see Katongole et al.
Shuster, S., see Thody & Shuster
Ślebodzińska, A. Tri-iodothyronine-binding coefficient of T₄ in newborn animals 349
Smith, A. J., see Salako et al.
Smith, M. Susan, see Lipner & Smith
Smith, R. N., see Salako et al.
Snaith, Sybil M., Hay, A. J. & Levy, G. A. α-Mannosidase and zinc 659
Springer, C. & Eckstein, B. Steroidogenesis in immature rat ovary 431
Stern, J. J. & Murphy, M. Anti-androgen and spontaneous activity 441
Stern, Margaret I. Urinary pregnanetriol in the Stein-Leventhal syndrome 347
Stewart, Helen J., Benson, E. A., Roberts, M. Maureen, Forrest, A. P. M. & Greenwood, F. C. Growth hormone after yttrium implant 41
Stitch, S. R., see Shahwan et al.
Sulman, F. G., see Ben-David et al.; Peifer et al.
Sutherland, L. E., see Capreol et al.
Suzuki, Y., see Arai & Suzuki
Syal, P., see Lloyd et al.
Szontágh, F. E., see Mirhom & Szontágh

Tam, W. H. Steroid metabolism by chinchilla ovary 267
Taylor, Patricia D., see Cooke & Taylor
Thody, A. J. & Shuster, S. Sebrotrophic activity of β-lipotrophin 533
Thomas, D. H. & Phillips, J. G. Salt and water metabolism in adrenalecetomized ducks vii
Thomas, S. Water reabsorption in kidneys v
Thompson, B. D. & Edmonds, C. J. Prolonged aldosterone on kidney and colon 163
Thorburn, G. D., see Bassett & Thorburn
Thorburn, G. D. & Mattner, P. E. Anastomosis of utero-ovarian and mammary veins 307
Tindal, J. S., see Knaggs et al.; Shani (Mishkinsky) et al.
Tindal, J. S. & Knaggs, G. S. Hypothalamic milk-ejection path 135
Traum, R. E., see Rubin & Traum
Turnbull, A. C., see Pierrepont et al.
Turner, C. W., see Singh et al.
Turvey, A., see Knaggs et al.

Vasil’eva, I. A., see Dilman & Vasil’eva
Vaughan, G. M., see Vaughan et al.
Vaughan, Mary K., Benson, B., Norris, J. T. & Vaughan, G. M. Compensatory ovarian hypertrophy 171
van der Wal, B., see Palkovits et al.
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wang, D. Y. &amp; Amor, Vicky. Effect of insulin on mammary cultures 241</td>
</tr>
<tr>
<td>Watson, J. Bioassay of LH by progesterone synthesis in prolactin-treated rat ovaries in vitro 711</td>
</tr>
<tr>
<td>Weisbart, M., see Sangalang et al.</td>
</tr>
<tr>
<td>Weller, C. P., see Ben-David et al.</td>
</tr>
<tr>
<td>de Wied, D., see Palkovits et al.</td>
</tr>
<tr>
<td>Woodbury, D. M., see Chow &amp; Woodbury</td>
</tr>
<tr>
<td>Wright, A., see Peaker et al.</td>
</tr>
<tr>
<td>Wright, N. A. &amp; Morley, A. R. Testosterone and growth in small intestine of mice 351</td>
</tr>
<tr>
<td>YoungLai, E. V. Equine ovarian steroids 589</td>
</tr>
</tbody>
</table>
Index

Corticosteroids, in plasma of sturgeon (Sanglang et al.) 413
Corticosterone, production in vitro by frog adrenal, effect of seasonal variation on (Chan & Phillips) 1
Cortisol, adrenal biogenesis in vivo of, using continuous infusion technique, guinea-pig (Deshpande et al.) 467
and osmoregulation, eel (Ball et al.) 75
plasma, levels in newborn lamb (Paisey & Nathanielsz) 701
secretion of, and mammary uptake, goat (Paterson & Linzell) 493
Cyclic AMP, differential release of gonadotrophins by foetal pituitary in vitro after, man (Groom et al.) 709
Cyproheptadine, effect on 5-HT, pregnant rat (Pfiefer et al.) 383
Cyproterone acetate, effects on spontaneous activity and seminal vesicle weight, rat (Stern & Murphy) 441
induction of target organ insensitivity to testosterone with, male guinea-pig (Goldfoot et al.) 423
Dehydroepiandrosterone (DHA), 7-oxygenation of, placental tissue in vitro, man (Mirhom & Szontagh) 301
synthesis by adrenal in vitro, control of, man (Jensen et al.) 177
Dehydroepiandrosterone sulphate, site of synthesis in foetal adrenal, man (Cooke & Taylor) 1
Deoxycorticosterone, production in vitro by frog adrenal, effect of seasonal variation on (Chan & Phillips) 1
Deoxyribonucleic acid (DNA), effect of insulin on synthesis in mammalian culture, mouse (Wang & Amor) 241
Development, evidence that ovary secretes active substances, neonatal rat (Geral & Dunlap) 529
Diabetes, alloxan, plasma glycoprotein synthesis in, rat (Capreol et al.) 355
Diet, effect of decreased protein on T4 secretion and food consumption, rat (Singh et al.) 446
modification of effect of i.v. aldosterone on arterial pressure by, rabbit (Burstyn et al.) 653
Diurnal rhythms, relation to water metabolism (Mills) vi
Dove, Streptopelia risoria, effects of hypothalamic implants of gonadal steroids on male courtship behaviour (Hutchison) 97
Duck, Anas platyrhynchos, ACTH and nasal salt-gland secretion (Peaker et al.) 293
effect of adrenalectomy on salt and water metabolism (Thomas & Phillips) vii
Eel, Anguilla anguilla, measurement of plasma cortisol levels in relation to osmotic adjustments (Ball et al.) 75
Elastombranch, Scylloirhinus caniculus, effect of neurohypophyseal hormones on oviduct (Heller et al.) 357

xvi

Bladder, toad, inhibition by Mn of action of ADH on adenyl cyclase (Hynie & Sharp) 231
toad, water transfer across (Ferguson & Price) viii
Blastocyst, effect of ovarioectomy, progesterone and oestrogen on, mouse (McLaren) 515
Blood, effect of perphenazine on prolactin in, sheep (McNeill & Lannning) 359
progesterone in utero–ovarian, after anastomosis of utero–ovarian and anterior mammary veins, sheep (Thorburn & Mattner) 307
relationship between LH and testosterone levels in, effects of sexual stimulation, bull (Katon- gole et al.) 457
Blood pressure, effect of i.v. aldosterone on, rabbit (Burstyn et al.) 653
Brain, detailed hypothalamic route of milk-ejection reflex, guinea-pig (Tindal & Knaggs) 135
induction of labour by electrical stimulation of infundibulum and median eminence, rabbit (Lincoln) 607
influence of lesions in posteroventral grey matter of mid-brain on salt excretion, rat (Gwynne et al.) 123
lateral ventricle, effect of insulin injected into on pituitary GH release, rat (Pecile et al.) 51
paraventricular–hypophysial neurosecretory pathways, guinea-pig (Knaggs et al.) 153
Calcitonin, porcine, effect on renal function, rabbit (Salako et al.) 485
Carbohydrate, tissue, effect of removal of cerebral neurosecretory cells on, Locusta (Goldsworthy) 237
Cattle, bull, effect of sexual stimulation on LH and testosterone blood levels (Katongole et al.) 457
α-mannosidase activity and zinc content of ovary (Snaith et al.) 659
Cell division, effects of oestrogen and progesterone on, rat uterus (Clark) 527
Chinchilla, Chinchilla laniger, steroid metabolism by ovary of (Tarn) 267
Chondrostean, steroids of, American Atlantic sturgeon (Sanglang et al.) 413
Clomiphene, effect on plasma androgens, prepubertal and pubertal boys (Cathro et al.) 387
Colon, electrolyte exchange, effects of prolonged aldosterone administration on, rat (Thompson & Edmonds) 163
Compensatory ovarian hypertrophy, evidence that ovaries of neonatal rat secrete active substances (Geral & Dunlap) 529
Competitive protein binding, assay of pro- gesterone during pregnancy using (Attal & Engels) 703
Corpus luteum, effect of hypophysial stalk- section on, guinea-pig (Illegworth & Perry) 625
steroid content during reproductive cycle, horse (YoungLai) 589
Electrolyte excretion, effect of prolonged aldosterone administration on, rat colon and kidney (Thompson & Edmonds) 163

fluence of lesions in posteroventral gray matter of mid-brain on, rat (Gwynne et al.) 123

Electrolytes, cortisol and osmoregulation in eel (Ball et al.) 75

distribution in thyroid, guinea-pig, rat (Chow & Woodbury) 561, 577

Endometrium, oestrogen binding by, man (Evans & Hähnel) 209

Enzymes, decidual alkaline phosphatase, effect of ovarian hormones on, adenalecctomized pseudopregnant rat (Manning) 451

effect of prolactin and LH on 3β-hydroxysteroid dehydrogenase activity in testis, mouse, rat (Haifez et al.) 619

α-mannosidase activity and zinc content of mammalian sex organs (Snath et al.) 659

Epididymis, α-mannosidase activity and zinc content, rat (Snath et al.) 659

Fish, American Atlantic sturgeon (Acipenser oxyrhynchus Mitchill), corticosteroids and testosterone in plasma of (Sangalang et al.) 413

eel, measurement of plasma cortisol levels in relation to osmotic adjustments (Ball et al.) 75

Scyliorhinus caniculus, effect of neurohypophysial hormones on oviduct (Heiler et al.) 357

Foetus, anencephalic, androgen synthesis in vitro by adrenal tissue of (Shahwan et al.) 115

pituitary, release of gonadotrophins in vitro after cyclic AMP and sodium fluoride, man (Groom et al.) 709

regulation of insulin secretion in utero by, sheep (Bassett & Thorburn) 59

site of DHA sulphate biosynthesis in adrenal, man (Cook & Taylor) 1

Follicle-stimulating hormone (FSH), differential release by foetal pituitary in vitro after cyclic AMP and sodium fluoride, man (Groom et al.) 709

induction of implantation with, mouse (Bindon) 19

Frog, Rana rugulosa, seasonal variation in corticosteroid production, adrenal in vitro (Chan & Phillips) 1

Glucose, effect on nasal salt-gland secretion, duck (Peakor et al.) 293

Glycoprotein synthesis, alloxan-diabetic rat plasma (Capreol et al.) 355

Goat, cortisol secretion and mammary uptake (Paterson & Linzell) 493

Gonadotrophins, differential release by foetal pituitary in vitro after cyclic AMP and sodium fluoride, man (Groom et al.) 709

effect on onset of first oestrus, guinea-pig (Mills & Reed) 329

requirements for implantation, mouse (Bindon) 19

Growth hormone, and aldosterone production, hypophysectomized, ACTH-maintained rat (Palkovits et al.) 407

assessment of pituitary function after yttrium implants by measurement of plasma levels of, man (Stewart et al.) 41

effect of insulin injected into lateral ventricle on release of, rat pituitary (Pecile et al.) 51

Guinea-pig, adrenal biogenesis in vivo of androgens and cortisol using a continuous infusion technique (Deshpande et al.) 467

determination of hypothalamic route of milk-ejection reflex in (Tindal & Knaggs) 135

effect of hypophysial stalk-section on corpus luteum (Illingworth & Perry) 625

effects of gonadotrophins and oestradiol on onset of first oestrus, guinea-pig (Mills & Reed) 329

dominant, effect, surgical isolation of hypothalamus on reproductive function (Butler & Donovan) 507

male, antiandrogen and development (Goldfoot et al.) 423

paraventricular–hypophysial neurosecretory pathways (Knaggs et al.) 153

water and electrolytes in thyroid (Chow & Woodbury) 561, 577

Haemolymph, effect of removal of cerebral neurosecretory cells on, Locusta (Goldsworthy) 237

Hamster, female, progesterone and period of sexual receptivity (Ciaccio & Lisk) 201

Histamine, effect on uterine uptake of oestradiol, rat (De Carli et al.) 541

Horse, steroid content of ovary during reproductive cycle (YoungLai) 589

18-Hydroxycorticosterone, production in vitro by frog adrenal, effect of seasonal variation on (Chan & Phillips) 1

3β-Hydroxysteroid dehydrogenase, effect of prolactin and LH on activity in testis, mouse, rat (Haifez et al.) 619

5-Hydroxytryptamine (5-HT), effect of cyproheptadine on accumulation of, pregnant rat (Pfeifer et al.) 383

inhibition of compensatory ovarian hypertrophy by, mouse (Vaughan et al.) 171

Hypophysectomy, effect of prolactin on corpus luteum after, guinea-pig (Illingworth & Perry) 625

Hypothalamus, effect of implants of gonadal steroids into, on male courtship behaviour, dove (Hutchison) 97

effect of insulin injected into lateral ventricle on GHRF activity, rat (Pecile et al.) 51

effect of surgical isolation on reproductive function, female guinea-pig (Butler & Donovan) 507

increase in TSH secretion by rat pituitary autografts after infusion of hypothalamic extracts (Evans & Averill) 397

induction of labour by electrical stimulation of infundibulum and median eminence, rabbit (Lincoln) 607
Index

Hypothalamus, inhibition of histological changes induced by NaCl in neurosecretory system, shrew (Kulshreshtha & Dominic) 707
paraventricular–hypophysial neurosecretory pathways, guinea-pig (Knaggs et al.) 153
pathway of milk-ejection reflex in, guinea-pig ('Tindal & Knaggs) 135

ICI 46474, intracranial implantation, site of action of, rat (Bainbridge & Labhsetwar) 321
Implantation, effect of ovariectomy, progesterone and oestrogen on, mouse (McLaren) 515
gonadotrophin requirements for, mouse (Bindon) 19
prostaglandin F₂α and, rat (Labhsetwar) 353

Insects, Locusta, effects of removal of cerebral neurosecretory cells on haemolymph and tissue carbohydrates (Goldsworthy) 237

Insulin, effect of DNA, RNA and protein synthesis, mammary culture, mouse (Wang & Amor) 241
injected into lateral ventricle, effect on pituitary growth hormone release, rat (Pecile et al.) 51
non-hypoglycaemic derivatives, inhibition of lipolysis and potentiation of hypoglycaemic effect, rabbit (Dilman & Vasi'eva) 373
regulation of secretion by foetus in utero, sheep (Bassett & Thorburn) 59

Intestine, small, effect of testosterone on growth fraction of, mouse (Wright & Morley) 351

Kidney, electrolyte excretion, effects of prolonged aldosterone administration on, rat (Thompson & Edmunds) 163
factors influencing water reabsorption in, rat (Thomas) v
function, during pregnancy and pseudopregnancy, rabbit (Lloyd et al.) 531
function, effect of porcine calcitonin on, rabbit (Salako et al.) 485
structural aspects of (Fourman) iv

Lactation, effect of noradrenaline, dopamine, 5-HT and melatonin on milk yield and composition, rabbit (Shani (Mishkinsky et al.) 543
hormonal regulation of RNA and protein synthesis during, mouse mammary gland (Banerjee et al.) 281
mammary uptake of cortisol, pregnant and lactating goat (Paterson & Linzell) 493

Lactogenic response, biphasic, of male mammary gland after reserpine, rat (Arai & Suzuki) 697

Lipolysis, inhibition by non-hypoglycaemic insulin derivatives, rabbit (Dilman & Vasi'eva) 373
β-Lipotrophin, subtrophic activity of, rat (Thody & Shuster) 533

Locusta migratoria migratorioides R. & F., neurosecretion and carbohydrates in (Goldsworthy) 237

Luteinizing hormone (LH), and testosterone blood levels, effect of sexual stimulation on, bull (Katongole et al.) 457
bioassay of, by progesterone synthesis in ovarian tissue of prolactin-treated rat (Watson) 711
differential release by fetal pituitary in vitro after cyclic AMP and sodium fluoride, man (Groom et al.) 709
effect, with prolactin, on 3β-hydroxysteroid dehydrogenase activity in testis, mouse, rat (Hafiez et al.) 619
induction of implantation in mouse with (Bindon) 19
role of progesterone of adrenal origin in release of, rat (Feder et al.) 29

Lysine vasopressin (LVP), tritiated, uptake by neural lobe in vitro, rat, pig (Edwards) 669

Mammary gland, hormonal regulation of RNA and protein synthesis during lactation, mouse (Banerjee et al.) 281
male, lactogenic response of, after reserpine, rat (Arai & Suzuki) 697
mitosis and alveolar development, rat (Dilley) 501
organ culture, effect of insulin on DNA, RNA and protein synthesis, mouse (Wang & Amor) 241
uptake of cortisol by, pregnant and lactating goat (Paterson & Linzell) 493

Man, adrenal, biosynthesis in vitro of C₁₈-steroids by (Jones et al.) 535
adrenal, control of DHA synthesis in vitro (Jensen et al.) 177
adrenocortical function and 11-oxygenation index (Clayton et al.) 251
early placental tissue, transformation of DHA to 7-oxygenated derivatives by (Mirhom & Szontágh) 301
effect of yttrium implants on pituitary function as measured by plasma GH levels (Stewart et al.) 41
follic pituitary, release of gonadotrophins in vitro from, after cyclic AMP and sodium fluoride (Groom et al.) 709
α-mannosidase activity and zinc content of ovary (Snith et al.) 659
newborn anencephalic infant, androgen synthesis in vitro by adrenal tissue from (Shahwan et al.) 115
oestrogen receptors in uterine tissue (Evans & Hähnel) 209
prepubertal and pubertal boys, effect of clomiphene on plasma androgens (Cathro et al.) 387
prolactin production by anterior pituitary in vitro (Gula) 637
site of DHA sulphate biosynthesis in fetal adrenal (Cooke & Taylor) i
urinary excretion of pregn-5-en-3β,17α,20x-triol in Stein–Leventhal syndrome (Stern) 347

Manganese, inhibition of action of ADH on adenyl cyclase in toad bladder (Hynie & Sharp) 231

α-Mannosidase, activity and zinc content of mammalian sex organs (Snith et al.) 659
Medroxyprogesterone (MAP), induction of pseudopregnancy with, rat (Mantalenakis) 339

Melatonin, effect on milk yield and composition (Shani (Mishkinsky) et al.) 543

effect on vaginal opening, rat (Collu et al.) 679

inhibition of compensatory ovarian hypertrophy by, mouse (Vaughan et al.) 171

inhibition of compensatory ovarian hypertrophy by, rat (Rubin & Traum) 179

Metabolism, steroid, chinchilla ovary in vitro (Tam) 267

Methimazole, effect on T₄ binding to antithyroid antibodies (Fogoriler et al.) 547

5-Methoxytryptophol, effect on vaginal opening, rat (Collu et al.) 679

Milk, effect of noradrenaline, dopamine, 5-HT and melatonin on yield and composition, rabbit (Shani (Mishkinsky) et al.) 543

Milk-ejection reflex, detailed hypothalamic route of, guinea-pig (Tindal & Knaggs) 135

Mitosis, relationship to alveolar development in mammary gland, rat (Dilley) 501

Monoamines, effect of cyproheptadine on 5-HT, pregnant rat (Pfeifer et al.) 383

effect of noradrenaline, dopamine and 5-HT on milk yield and composition, rabbit (Shani (Mishkinsky) et al.) 543

inhibition of compensatory ovarian hypertrophy by 5-HT, mouse (Vaughan et al.) 171

Mouse, effect of prepubertal orchidectomy on prolactin cells of adenohypophysis (Sano & Sasaki) 705

effect of testosterone on growth fraction of small intestine (Wright & Morley) 351

gonadotrophin requirements for implantation (Bindon) 19

inhibition of compensatory ovarian hypertrophy by melatonin, 5-HT and pineal powder (Vaughan et al.) 171

mammary culture, effect of insulin on DNA, RNA and protein synthesis in (Wang & Amor) 241

mammary gland, hormonal regulation of RNA and protein synthesis during lactation (Banerjee et al.) 281

testis, effect of prolactin and LH on 3β-hydroxy-steroid dehydrogenase activity (Hafiez et al.) 619

uterus, blastocysts in, effect of ovariectomy, progesterone, oestrigen on (McLaren) 515

Muscle, levator ani, effect of testosterone on protein synthesis and contractility of, rat (Bureiová & Gutmann) 643

Musk shrew, Suncus murinus L., inhibition by resepine of hypertonic saline-induced changes in hypothalamic neurosecretory system (Kulshreshtha & Dominie) 707

Myometrium, oestrogen binding by, man (Evans & Hähnel) 209

Nasal salt gland, effects of ACTH, glucose and KCl on secretion of, duck (Peaker et al.) 293

Neurohypophyseal hormones, effect on oviduct, elasmobranch fish (Heller et al.) 357

Neurohypophysis, and water metabolism (Heller) iii

Neurosecretory cells, cerebral, effect of removal on haemolymph and tissue carbohydrates in Locusta (Goldsworthy) 237

Neurosecretory pathways, hypothalamic milk-ejection path, guinea-pig (Tindal & Knaggs) 135

paraventricular–hypophysis, guinea-pig (Knaggs et al.) 153

Neurosecretory system, hypothalamic, inhibition of histological changes induced by NaCl in, shrew (Kulshreshtha & Dominie) 707

Obituary, Dr M. Reiss. An appreciation 185

Oestradiol-17β, effect of hypothalamic implants on male courtship behaviour, dove (Hutchison) 97

effect on onset of first oestrus, guinea-pig (Mills & Reed) 329

effect, with or without progesterone, on decidual alkaline phosphatase reaction, rat (Manning) 451

in ovary during reproductive cycle, horse (YoungLai) 589

labelled, effect of histamine on uterine uptake, rat (De Carli et al.) 541

Oestradiol benzoate, effect on duration of oestrous behaviour, ewe (Scaramuzzi et al.) 345

Oestrogen, and progesterone, effect of season on sensitivity of ove to (Fletcher et al.) 539

effect on implantation and blastocysts, mouse (McLaren) 515

effect on oestrous behaviour, variation with season, ewe (Fletcher & Lindsay) 685

effect on uterine cell division, spayed, adrenalectomized rat (Clark) 527

receptors in uterine tissue, man (Evans & Hähnel) 209

role in spontaneous ovulation (Bainbridge & Labhssetwar) 321

Oestrogen sulphates, conversion in vitro of C19-steroids to, sheep placenta (Pierpoint et al.) 537

Oestrous cycle, changes in TSH content of pituitary during, rat (Newcomer & Brown-Grant) 699

effect of surgical isolation of hypothalamus on oestrous, guinea-pig (Butler & Donovan) 507

effects of gonadotrophins and oestradiol on onset of first oestrus, guinea-pig (Mills & Reed) 329

steroid content of ovary during, horse (Young-Lai) 589

Oestrus, onset of first, effects of gonadotrophins and oestradiol on, guinea-pig (Mills & Reed) 329

Orchidectomy, prepubertal, effect on prolactin cells of adenohypophysis, mouse (Sano & Sasaki) 705

Ovaricectomy, effect on implantation and blastocysts, mouse (McLaren) 515
Index

Ovary, compensatory hypertrophy of, effect of melatonin, rat (Rubin & Traum) 179
hormonal steroid production by tissues in vitro, chinchilla (Tam) 267
immature, 5α-androstane-3α,17β-diol production in vitro, rat (Springer & Eckstein) 431
inhibition of compensatory hypertrophy by melatonin, 5-HT and pineal powder, mouse (Vaughan et al.) 171
α-mannosidase activity and zinc content, cattle, pig, women (Snaith et al.) 659
neonatal, secretion of active substances by, rat (Geral & Dunlap) 529
preovulatory, distribution and source of protein in, rat (Lipner & Smith) 187
steroid content of, during reproductive cycle, horse (YoungLai) 589
Oviduct, effect of neurohypophysial hormones on, elasmobranch fish (Heller et al.) 357
Ovulation, adrenal cortex and LH release in relation to, rat (Feder et al.) 29
effect of gonadotrophins and oestradiol on onset of first oestrus, guinea-pig (Mills & Reed) 329
site of action of ICI 46 474 implanted intracranially on, rat (Bainbridge & Labhaetwar) 321

11-Oxygenation index, raised urinary, congenital adrenal hyperplasia and other conditions associated with (Clayton et al.) 251
Oxytocin, effect on oviduct, elasmobranch fish (Heller et al.) 357
hypothalamic milk-ejection reflex path, guinea-pig (Tindal & Knaggs) 155

Paraventricular-hypophysial neurosecretory pathways, guinea-pig (Knaggs et al.) 153
Parturition, induction by electrical stimulation of infundibulum and median eminence, rabbit (Lincoln) 607
Perphenazine, effect on prolactin in blood, sheep (McNeily & Lamming) 359
radioimmunoassay of pituitary and serum prolactin after, adrenalectomized rat (Ben-David et al.) 599
Phosphatase, alkaline, effect of ovarian hormones on decidual, rat (Manning) 451
Pig, α-mannosidase activity and zinc content of ovary (Snaith et al.) 659
neural lobe, uptake of LVP in vitro (Edwards) 669
Pineal gland, effect of melatonin on ovarian compensatory hypertrophy, rat (Rubin & Traum) 179
effect of methoxyindoles of, on time of opening of vagina, rat (Collu et al.) 679
powder, inhibition of compensatory ovarian hypertrophy by, mouse (Vaughan et al.) 171
Pituitary gland, anterior, prolactin production in vitro by, man (Gala) 637
autographs, increase in TSH secretion by, after hypothalamic extract infusion (Evans & Averill) 397
changes in TSH content during oestrous cycle and pregnancy, rat (Newcomer & Brown-Grant) 699

effect of hypophysial stalk-section on corpus luteum of guinea-pig (Illingworth & Perry) 625
effect of prepubertal orchidectomy on differentiation of prolactin cells in adenohypophysis, mouse (Sano & Sasaki) 705
foetal, release of gonadotrophins in vitro by, after cyclic AMP and sodium fluoride, man (Groom et al.) 709
function, plasma GH levels after yttrium implants, man (Stewart et al.) 41
growth hormone release, effect of insulin injected into lateral ventricle on, rat (Pecile et al.) 51
neural lobe, uptake of LVP in vitro, pig, rat (Edwards) 669
paraventricular-hypophysial neurosecretory pathways, guinea-pig (Knaggs et al.) 153
Placenta, conversion in vitro of C18-steroids to oestrogen sulphates in, sheep (Pierrepont et al.) 537
transformation in vitro of DHA to 7-oxygenated derivatives, man (Mirhom & Szontagh) 301
Plasma, androgens, effect of clophenone on, pubertal and prepubertal boys (Cathro et al.) 387
corticosteroids and testosterone in, sturgeon (Sangalang et al.) 413
cortisol levels in newborn lamb (Paisey & Nathanielsz) 701
cortisol, measurement in relation to osmotic adjustments, eel (Ball et al.) 75
glycoprotein synthesis, allophan-diabetic rat (Capref et al.) 355
growth hormone, pituitary function after yttrium implants as measured by, man (Stewart et al.) 41
Potassium chloride, effect on nasal salt-gland secretion, duck (Peaker et al.) 293
Pregnancy, assay by competitive protein binding of progesterone during, man (Attal & Engels) 703
changes in TSH content of pituitary during, rat (Newcomer & Brown-Grant) 699
effect of cyproheptadine on accumulation of [14C]-5-HT during, rat (Feifer et al.) 383
Na excretion during, rabbit (Lloyd et al.) 531
Pregnant mare serum gonadotrophin, induction of implantation with, mouse (Bindon) 19
Pregnan-5-en-3β,17α,20α-triol, urinary excretion in Stein-Leventhal syndrome (Stern) 347
Progesterone, and oestrogen, effect of season on sensitivity of ewe to (Fletcher et al.) 539
assay by competitive protein binding (Attal & Engels) 703
bioassy of LH by synthesis in ovarian tissue of prolactin-treated rat (Watson) 711
effect on implantation and blastocyste, mouse (McLaren) 515
effect on uterine cell division, spayed, adrenalectomized rat (Clark) 527
effect, with or without oestradiol-17β, on decidual alkaline phosphatase reaction, rat (Manning) 451
Index

Progestosterone, in utero–ovarian blood after anastomosis of utero–ovarian and anterior mammary veins, cyclic ewe (Thorburn & Mattner) 307 placental production of, sheep (Thorburn & Mattner) 307 pre-ovulatory, the adrenal cortex and 'critical period' for LH release, rat (Feder et al.) 29 role in regulation of period of sexual receptivity, female hamster (Ciaccio & Lisk) 201 secretion rates, cyclic ewe (Thorburn & Mattner) 307

Prolactin, effect of perphenazine on blood levels of, sheep (McNeilly & Lamming) 359 effect on 3β-hydroxysteroid dehydrogenase activity in testis, mouse, rat (Hafiez et al.) 610 luteotrophic activity, hypophysectomized guinea-pig (llingworth & Perry) 625 pituitary and serum, radioimmunoassay after adrenalectomy and perphenazine, rat (Ben-David et al.) 599 production by human anterior pituitary in vitro (Gala) 637 role in regulation of testicular function, mouse, rat (Hafiez et al.) 619

Prolactin cells, effects of prepubertal orchidectomy on, mouse adenohypophysis (Sano & Sasaki) 705

Propylthiouracil (PTU), effect on water and electrolyte distribution in thyroid, guinea-pig, rat (Chow & Woodbury) 577 extrathyroidal effect of, depression of PBI, thyroidecotized rat (Langer) 367

Prostaglandin F2α, and implantation, rat (Labhsetwar) 353

Protein, deficiency, effect on T₄ secretion and food consumption, rat (Singh et al.) 445 distribution and source of, preovulatory ovary, rat (Lipner & Smith) 187 effect of insulin on synthesis in mammary culture, mouse (Wang & Amor) 241 effect of testosterone on synthesis by muscle, rat (Burešová & Gutmann) 643 hormonal regulation of synthesis, mammary gland, lactating mouse (Banerjee et al.) 281

Protein-bound iodine, extrathyroidal effect of thiocyanate and PTU on, thyroidecotomized rat (Langer) 367

Pseudopregnancy, effect of ovarian hormones on decidual alkaline phosphatase reaction, adrenalectomized rat (Manning) 451 induction with MAP, rat (Mantalenakis) 339 Na excretion during, rabbit (Lloyd et al.) 531

Rabbit, effect of i.v. aldosterone on arterial pressure, and modification by diet (Burstyn et al.) 653 effect of porcine calcitonin on renal function (Salako et al.) 485 effects of non-hypoglycaemic insulin derivatives (Dilman & Vasil’eva) 373 induction of labour by electrical stimulation (Lincoln) 607 pregnant or pseudopregnant, Na excretion during (Lloyd et al.) 531

Radioimmunoassay, of prolactin, effects of adrenalectomy and perphenazine on, rat (Ben-David et al.) 599

Rat, adrenalectomized, pseudopregnant, effect of ovarian hormones on decidual alkaline phosphatase reaction (Manning) 451 alloxan-diabetic, plasma glycoprotein synthesis in (Capreol et al.) 355 changes in TSH content of pituitary during oestrous cycle or pregnancy (Newcomer & Brown-Grant) 699 comparison of effects of aldosterone on colonic and renal electrolyte excretion (Thompson & Edmonds) 163 effect of decreased dietary protein on T4 secretion and food consumption (Singh et al.) 445 effect of histamine on uterine uptake of oestradiol (De Carl et al.) 541 effect of insulin injected into lateral ventricle on pituitary GH release (Pecile et al.) 51 effect of lesions in posteriorventral grey matter of mid-brain on salt excretion (Gwynne et al.) 123 effect of melatonin on ovarian compensatory hypertrophy (Rubin & Traum) 179 effect of testosterone on protein synthesis and contractility of muscle (Burešová & Gutmann) 643 epididymis, α-mannosidase activity and zinc content (Snaith et al.) 659 extrathyroidal effect of thiocyanate and PTU (Langer) 367

hypophysectomized, aldosterone secretion related to Na restriction and growth hormone treatment (Falkovits et al.) 407 immature, steroidogenesis in ovary in vitro (Springer & Eckstein) 431 increase in TSH secretion by pituitary autografts after hypothalamic extract infusion (Evans & Averill) 397 induction of pseudopregnancy with MAP (Mantalenakis) 339 kidney, factors influencing water reabsorption (Thomas) v location of site of action of positive feedback of oestrogen by intracranial implantation of ICI 46 474 (Bainbridge & Labhsetwar) 321

male, biphasic lactogenic response of mammary glands to reserpine (Arai & Suzuki) 697 male, effect of cyproterone acetate on spontaneous activity and seminal vesicle weight (Stern & Murphy) 441 mammary gland mitosis (Dilley) 501 neonatal, evidence that ovary secretes active substances (Gersell & Dunlap) 529 neural lobe, uptake of LVP in vitro (Edwards) 669 pregnant, effect of cyproheptadine on accumulation of 5-HT (Pfeifer et al.) 333 preovulatory ovary, distribution and source of protein in (Lipner & Smith) 187 progesterone and LH release (Feder et al.) 29
Index

Rat, prolactin-treated, bioassay of LH by progesterone synthesis in ovarian tissue (Watson) 711 propranolol B2, and implantation (Labhectwar) 353 radioimmunoassay of prolactin after adrenalectomy and perphenazine (Ben-David et al.) 599 sebrotic activity of B-lipotrophin (Thody & Shuster) 533 spayed, adrenalectomized, effects of oestrogen and progesterone on uterine cell division (Clark) 527 testis, effect of prolactin and LH on 3B-hydroxysteroid dehydrogenase activity (Hafiez et al.) 619 vagina, effect of pineal methoxyindoles on opening of (Collu et al.) 679 water and electrolytes in thyroid (Chow & Woodbury) 561, 577 Reproductive function, effect of surgical isolation of hypothalamus on, female guinea-pig (Butler & Donovan) 507 Reserpine, inhibition of histological changes induced by NaCl in hypothalamic neurosecretory system, shrew (Kulshreshtha & Dominic) 707 lactogenic response of male mammary gland after single injection, rat (Arasi & Suzuki) 697 Ribonucleic acid (RNA), effect of insulin on synthesis in mammary culture, mouse (Wang & Amor) 241 hormonal regulation of synthesis, mammary gland, lactating mouse (Banerjee et al.) 251 Salt, excretion, influence of lesions in the posteroventral grey matter of mid-brain on, rat (Gwynne et al.) 123 metabolism, effect of adrenalectomy on, duck (Thomas & Phillips) vii Salt gland, nasal, effects of ACTH, glucose and KCl on secretion of, duck (Peaker et al.) 293 Season, effect on sensitivity of ewe to progesterone and oestrogen (Fletcher & oestrogen) 539 variation of oestrogen on oestrous behaviour by, ewe (Fletcher & Lindsay) 685 Sebaceous glands, effect of B-lipotrophin on (Thody & Shuster) 533 Sebum, effect of B-lipotrophin on secretion, rat (Thody & Shuster) 533 Seminal vesicle, effect of cyproterone acetate on weight, rat (Stern & Murphy) 441 Serotonin, effect of cyproheptadine on accumulation of, pregnant rat (Feifer et al.) 383 Serum, free T4 assessment by T4-binding coefficient, newborn animals (Slebodziáski) 349 Sheep, effect of oestradiol on duration of oestrus behaviour (Scaramuzza et al.) 345 effect of oestrogen on oestrous behaviour, variation with season (Fletcher & Lindsay) 685 effect of perphenazine on prolactin in blood (McNeilly & Lamming) 359 ovariectomized, effect of seasonal change on sensitivity to progesterone and oestrogen (Fletcher et al.) 539 placenta, conversion in vitro of C19-steroids to oestrogen sulphates (Pierrepont et al.) 537 plasma cortisol in newborn lamb (Paisley & Nathanielsz) 701 progesterone measured in utero-ovarian blood after anastomosis of utero-ovarian and mammary veins (Thorburn & Mattner) 307 regulation of insulin secretion by foetus in utero (Bassett & Thorburn) 59 Sodium, excretion during pregnancy and pseudo-pregnancy, rabbit (Lloyd et al.) 531 restriction, aldosterone secretory response to, effect of growth hormone, hypophysectomized rat (Palkovits et al.) 467 Sodium fluoride, differential release of gonadotrophins in vitro by foetal pituitary after, man (Groom et al.) 709 Stein-Leventhal syndrome, urinary excretion of pregn-5-en-3B,17a,20a-triol in (Steen) 347 Steroid hormones, T-oxigenation of DHA by human placenta in vitro (Mirhorm & Szontagh) 301 production by ovarian tissues in vitro, chinchilla (Tam) 267 Steroidogenesis, production in vitro of 5a-androstan-3a,17B-diol in immature rat ovary (Springer & Eckstein) 431 Steroids, C19, biosynthesis in adrenal in vitro, man (Jones et al.) 535 C19, conversion in vitro to oestrogen sulphates, sheep placenta (Pierrepont et al.) 537 content of equine ovary during reproductive cycle (YoungLai) 589 Testis, effect of prolactin and LH on 3B-hydroxy-steroid dehydrogenase activity in, mouse, rat (Hafiez et al.) 619 Testosterone, and LH blood levels, effect of sexual stimulation on, bull (Katongole et al.) 457 effect on protein synthesis and contractility of levator ani muscle, rat (Burešová & Gutmann) 643 in plasma of sturgeon (Sangalang et al.) 413 Testosterone propionate, effect of hypothalamic implants on male courtship behaviour, dove (Hutchison) 97 effect on growth fraction of mouse small intestine (Wright & Morley) 351 target organ insensitivity to, induction with cyproterone acetate, male guinea-pig (Goldfoot et al.) 423 Thiocyanate, extrathyroidal effect of, depression of PBI, thyroidecetomized rat (Langer) 367 Thyroid gland, extrathyroidal effect of thiocyanate and PTU, rat (Langer) 367 function and glandular distribution of electrolytes, guinea-pig, rat (Chow & Woodbury) 577 metabolism, effect of decreased dietary protein on rate of T4 secretion, rat (Singh et al.) 445 serum free T4 in newborn animals as assessed by T3-binding coefficient (Slebodziáski) 349 T4 binding to antithyroid antibodies, effects of metabolic status (Pogoriler et al.) 547
Thyroid gland, water and electrolyte distribution in, rat, guinea-pig (Chow & Woodbury) 561, 577

Thyrotrophin (TSH), changes in pituitary content during oestrous cycle and pregnancy, rat (Newcomer & Brown-Grant) 699

effect on water and electrolyte distribution in thyroid, guinea-pig, rat (Chow & Woodbury) 577

increase in secretion after hypothalamic infusions, rat pituitary autografts (Evans & Averill) 397

Thyrotrophin releasing factor, action on pituitary autografts, rat (Evans & Averill) 397

Thyroxine (T4), binding to antithyroid antibodies, effect of metabolic status (Pogoriler et al.) 547

effect of protein deficiency on secretion, rat (Singh et al.) 445

free in bile (Hillier) 181

serum, assessment in newborn animals by T3-binding coefficient (Ślebodziński) 349

Toad, bladder, inhibition by Mn of action of ADH on adenylyl cyclase in (Hynie & Sharp) 231

bladder, water transfer across (Ferguson & Price) viii

Transplantation, pituitary autografts, increase in TSH secretion by after hypothalamic extract infusion, rat (Evans & Averill) 397

Tri-iodothyronine (T3)-binding coefficient, serum free T3 levels in newborn animals, assessment by (Ślebodziński) 349

Urine, adrenocortical function and raised 11-oxygenation index, man (Clayton et al.) 251

effects of porcine calcitonin on renal function, rabbit (Salako et al.) 485

pregn-5-en-3β,17α,20α-triol excretion in Stein-Leventhal syndrome (Stern) 347

Uterus, effect of histamine on uptake of oestriol, rat (De Carli et al.) 541

effect of ovariectomy, progesterone and oestrogen on blastocysts in, mouse (McLaren) 515

effects of oestrogen and progesterone on cell division and epithelial morphology, rat (Clark) 527

oestrogen receptors in tissue of, man (Evans & Hähnel) 209

Vagina, effect of pineal methoxyindoles on opening of, rat (Colhu et al.) 679

Water, distribution in thyroid, guinea-pig, rat (Chow & Woodbury) 561, 577

Water metabolism, diurnal rhythms and (Mills) vi

effect of adrenalectomy on, duck (Thomas & Phillips) vii

factors influencing, rat kidney (Thomas) v

structural aspects of kidney and (Fourman) iv

Water transfer, across membranes, toad bladder (Ferguson & Price) viii

Yttrium, effect of implants on pituitary function as measured by plasma GH levels, man (Stewart et al.) 41

Zinc, α-mannosidase activity and, mammalian sex organs (Snaith et al.) 659