

BIBLIOGRAPHY

- Adekunle, A. O., Kim, J. B., Collins, W. P. and Whitehead, M. J. 1989. Progesterone in saliva as an index of ovarian function. *Int. J. Gynecol. Obstet.*, 28 (1):45-52.
- Ahmed-Soroor, H. and Bailey, C. J. 1980. Role of ovarian hormones in the long term control of glucose homeostasis interaction with insulin, glucagon and epinephrine. *Horm. Res. (Basel)*, 13(6):396-403.
- Aloe, L. and Levi-Montalcini, R. 1980. Comparative studies on testosterone and L-thyroxine effect on the synthesis of nerve growth factor in mouse submandibular salivary glands. *Experimental cell Res.*, 125: 15-22.
- Alves, A. M., Thody, A. J. Fischer, C. and Shuster, S. 1986. Measurement of lipogenesis in isolated preputial gland cells of the rat and the effect of estrogen. *J. Endocrinol.*, 109(1):1-8.
- Ambadkar, P. M. and Vyas, D. M. 1975. Effects of castration on lipid metabolism of the preputial glands of male rats. *J. Anim. Morphol. Physiol.*, 22:184-190.
- Ambadkar, P. M. and Gangaramani, N. F. 1976. Effects of castration on liver lipids in albino rats. *J. Animal. Morphol. Physiol.*, 23:185-198.
- Ambadkar, P. M. and Gangaramani, N. F. 1980. A preliminary study on the immediate influence of castration on certain functions of hepatic tissue. *J. Anim. Morphol. Physiol.*, 27:209-219.
- Ambadkar, P. M. and Gangaramani, N. F. 1982. Early effects of castration and hormone replacement on some aspects of carbohydrate metabolism. *J. Anim. Morphol. Physiol.*, 29:183-188.
- Ambadkar, P. M. and Raval, A. P. 1993. Short-term effects of ovariectomy and ovarian hormone replacement on metabolic aspects of submandibular salivary gland of albino rats. *J. Rep. Biol. Comp. Endocrinol.*, 54:51-57.

- Ambadkar, P. M. and Wagh, L. R. 1993. Differential effects of ovariectomy on the biochemical composition of spigelian and right lobes of rat liver. *J. Rep. Biol. Comp. Endocrinol.*, 54:38-43.
- Ambadkar, P. M. and Wagh, L. R. 1994. Some observations on hepatic nucleic acids and protein concentration during normal estrous cycle, after ovariectomy and subsequent hormone replacement in albino rats. *J. Anim. Morphol. Physiol.* (in press)
- Ambadkar, P. M., Killedar, S. J. and Raval, A. P. 1994. Influence of oestrous cyclicity on some aspects of carbohydrate metabolism of the submandibular salivary gland of the albino rat. *Indian J. Exp. Biol.*, 32:89-91.
- Andreoli, C. and Della Porta, M. 1957. *J. Clin. Endocrinol.*, 17:913. Cited by Oster and Yang, 1972.
- Angeletti, R. A., Angeletti, P. U. and Calissano, P. 1967. Testosterone induction of estro-proteolytic activity in the mouse submaxillary gland. *Biochimica et. Biophysica. Acta.*, 139:372-381.
- Aschkenasy-Lelu, P. and Aschkenasy, A. 1959. In: *review of nutrition and dietetics*" Vol. 1, pp-33. Bourne, G. H. (Ed.) Pitman Med., London.
- Atkinson, W.B., Wilson, F. and Coates, S. 1959. The nature of the sexual dimorphism of the submandibular gland of the mouse. *Endocrinol.*, 65:114-117.
- Balasubramanian, K., Pereira, B. M. J. and Govindarajulu, P. 1981. Influence of castration, TP, androstenedione and estradiol-17 β on LDH and isoenzymes of the vas deferens. *Ind. J. Exp. Biol.*, 19:419-421.
- Baldi, A. and Charreau, E. H. 1972. 17 β -hydroxysteroid dehydrogenase activity in rat submaxillary glands. Its relation to sex and age. *Endocrinol.*, 90:1643-1646.
- Balough, K. 1966. Histochemical demonstration of 3 α -hydroxysteroid dehydrogenase activity. *J. Histochem. Cytochem.*, 14:77-83.
- Barker, K. L. and Warren, J. C. 1966. Estrogen control of carbohydrate metabolism in uterus: pathway of glucose metabolism. *Endocrinol.*, 78:1205-1212.

- Barraclough, C. A., Collu, R., Massa, R. and Martini, L. 1971. Temporal interrelationships which exist amongst plasma LH, ovarian secretion rates and peripheral plasma progesterone concentrations in the rat : Effects of Nembutal and exogenous gonadotropins. *Endocrinol.*, 88:1437-1447.
- Barthe, P. L., Bullock, L. P., Mowszowicz, I., Bardir, C. W. and Orth, D. N. 1974. Submaxillary gland epidermal growth factor: A sensitive index of biological androgen activity. *Endocrinol.*, 95:1019-1025.
- Bell, Davidson and Smith, 1972. "Text book of physiology and biochemistry" ELBS and Livingstone.
- Ben-Aryeh, H., Filmar, S., Gutman, D., Szargel, R. and Paldi, E. 1976. Salivary phosphate as an indicator of ovulation. *Am. J. Obstet. Gynecol.*, 125(6):871-874.
- Berkman, M. D. and Kronman, J. H. 1970. A histochemical study of effects of castration of the major salivary glands of swiss mice. *Acta Anat.*, 76:200-219.
- Best, C. H. and Taylor, N. B. 1985. Chapter 44: "Secretion". In: "Physiological basis of medical practice", West, J. B. Williams and Wilkins Co., Baltimore/London
- Bhoola, K. D., Dorey, G. and Jones, C. W. 1973. Androgens on enzymes [chymotrypsin- and trypsin- like protease, renin, kallikrein and amylase] and on cellular structure of the mouse submaxillary gland. *J. Physiology*, 335:503-522.
- Biswas, R. and Mukherjee, M. 1973. Tissue lipid pattern during estrous cycle of rat. *Indian J. Med. Res.*, 61:1835-1840.
- Bitman, J., Cecil, H. C., Mench, M. L. and Wrenn, T. R. 1965. Kinetics of *in vivo* glycogen synthesis in the oestrogen-stimulated rat uterus. *Endocrinol.*, 76:63-69.
- Bixler, D., Muhler, J. C. and Shafer, W. C. 1955. The effect of castration, sex hormones and desalivation on dental caries in the rat. *J. Dent. Res.*, 34:889-894.

- Blazquez, N. B., Long, S. E., Perry, G. C. and Watson, E. D. 1987. Effect of Oestradiol-17 β on perineal and neck skin glands in heifer calves. *J. Endocrinol.*, **115**:43-46.
- Blom, T., Ojanotko-Harri, A., Laine, M. and Huhtaniemi, I. 1993. Metabolism of progesterone and testosterone in human parotid and submandibular salivary glands *in vitro*. *J. Steroid. Biochem. Molec. Biol.*, **44**(1):69-76.
- Bloom, G. D., Carlsoo, D., Danielsson, A., Hellstrom and Henriksson. 1981. Trophic effect of the sympathetic nervous system on the early development of the rat parotid gland. A quantitative ultrastructural study. *Anat. Rec.*, **201**:512.
- Bo, W. J., Krueger, W. A. and Garrison, B. M. 1973. Effect of repeated injection of estrogen on uterine glycogen. *J. Endocrinol.*, **50**(2):381-382.
- Bodner, Lipa. 1991. Effect of parotid, submandibular and sublingual saliva on wound healing in rats. *Comp. Biochem. Physiol. A. Comp. Physiol.*, **100**(4):887-890.
- Booth, W. D. 1977. Metabolism of androgen *in vitro* by the submaxillary salivary gland of the mature domestic boar. *J. Endocrinol.*, **75**:145-154.
- Boyer, K. G. and France, J. T. 1976. Alkaline phosphatase, arylsulfatase and β -glucuronidase in saliva of cyclic women. *Int. J. Fert.*, **21**:43-48.
- Boyko, J. and Zebrowaski, J. E. 1972. Influence of age, ovariectomy and submandibular-sublingual sialoadenectomy on submandibular gland metabolism in sexually mature and immature female rats. *Arch. Oral. Biol.*, **17**:1021-1028.
- Brown-Grant, K., Exley, D. and Naftolin, F. 1970. Peripheral plasma estradiol and luteinizing hormone concentrations during the estrous cycle of the rat. *J. Endocrinol.*, **48**:295-296.
- Buillard and Delsuc. 1953. As cited by Shafer and Muhler 1953.
- Butcher, R. L., Collins, W. E. and Fugo, N. W. 1974. Plasma concentration of LH, FSH, prolactin, progesterone and estradiol-17 β throughout the 4-day estrous cycle of the rat. *Endocrinol.*, **94**:1704-1708.

- Butcher, R. L., Inskeep, E.K. and Pope, R. S. 1978. Plasma concentrations of estradiol produced with two delivery systems in ovariectomized rats. *Proc. Soc. Exp. Biol. Med.*, **158**(3):475-477.
- Butcher, R. W. and Sutherland, E. W. 1962. Adenosine 3',5'-phosphate in biological material. I. Purification and properties of cyclic 3',5'-nucleotide phosphodiesterase and use of this enzyme to characterize adenosine 3',5'-phosphate in human urine. *J. Biol. Chem.*, **237**:1244-1250.
- Cahill, G. F. Jr., Ashmore, J., Zottus, S. and Hastings, A. B. 1957. Studies on carbohydrate metabolism in rat liver slices. IX. Ionic and hormonal effects on phosphorylase and glycogen. *J. Biol. Chem.*, **224**:237-250.
- Campbell, P. S., Ben-Aryeh, H. and Swanson, K. A. 1990. Differential distribution of an estrogen receptor in the submandibular and parotid salivary glands of female rats. *Endocrine Res.*, **16**(3):333-343.
- Campbell, B. C. and Ellison, P. T. 1992. Menstrual variation in salivary testosterone among regular cyclic women. *Horm. Res. (Basel)*, **16**(3):132-136.
- Campos, N., Roberto, C. and Melhado, R. M. 1984. Effects of medroxyprogesterone acetate on submandibular salivary gland of female mice. *J. Nihon. Cliniv. Sch. Dent.*, **26**(4):310-315.
- Carborg, L. G. 1966. Quantitative determination of sialic acids in the mouse vagina. *Endocrinol.*, **78**:1093-1099.
- Carpenter, G. 1978. The regulation of cell proliferation: Advances in the biology and mechanism of action of epidermal growth factor. *J. Investigative Dermatology*, **71**:283-287.
- Carrington, L. J. and Bailey, C. J. 1985. Effects of natural and synthetic estrogens and progestins on glycogen deposition in female mice. *Horm Res. (Basel)*, **21**(3):199-203.
- Cassano, N. A. 1958. Ghiandole salivari sottomascellari eormoni. I. Effecti della castrazione, del testosterone e del non-androstenolo sui tubuli sieriosi della ghiandola salivare sotto mascellare del ratto. *Fol. Endocrin. Pisa*, **11**:629-646.

- Cefalu, W. T., Pardridge, W. M., Chaudhari, G. and Howard, L. Judd. 1986. Serum bioavailability and tissue metabolism of testosterone and estradiol in rat salivary gland. *J. Clin. Endocrinol. Metabol.*, 63(1):20-28.
- Charreau, E. H., Bladi, A., Villee, C. A. and Orr, J. 1976. Steroid metabolism in rat submaxillary glands. *Acta. Physiol. Lat. Am.* 26(1):20-27.
- Chaulin-Serviniere, J. 1942a. Sur les variations de la morphologie cellulaire dans le segment tubuleux de la glande sous-maxillaire de la souris. *C. R. Soc. Biol.*, 136:262-264.
- Chaulin-Serviniere, J. 1942b. Castration et glande sous-maxillaire de la souris femelle. *C. R. Soc. Biol.*, 136:335-336.
- Choe, J. K., Khan-Dawood, F. S. and Dawood, M. Y. 1983. Progesterone and estradiol in the saliva and plasma during the menstrual cycle. *Am. J. Obstet. Gynecol.*, 147:557.
- Clark, J. H. and Peak, E. J. Jr. 1979. Female sex steroid receptors and function. In : *Monographs on endocrinology*, Vol. 14, (Eds.) Gross, F., Grumbach, M. M., Labhart, A. by Springer - Verlag, New York.
- Cockle, S. M. and Harkness, R. A. 1978. Changes in salivary peroxidase and polymorphonuclear neutrophil leukocyte enzyme activities during the menstrual cycle. *Br. J. Obstet. Gynecol.*, 85:776-782.
- Coffey, J. C. 1973a. *In vitro* progesterone metabolism in rat submaxillary gland: the formation of 20 α -hydroxy-4-pregnen-3-one and other substances. *Steroids*, 22:561-566.
- Coffey, J. C. 1973b. Steroid metabolism by mouse submaxillary glands. I. *In vitro* metabolism of testosterone and 4-androstene-3,17-dione. *Steroids*, 22:247-257.
- Coffey, J. C., Harvey, T. E. and Carr, W. L. 1979. *In vitro* metabolism of 4-androsterone-3,17-dione by rat submaxillary gland. *Steroid*, 33:223-232.
- Cohen, S. and Savage, C. R. Jr. 1974. Part II Recent studies on the chemistry and biology of epidermal growth factor. *Recent Progress in Hormone Res.*, 30:551-574.

- Cooke, B. A., Golding, M. A., Dix, C. J. and Hunter, M. G. 1982. Catecholamine stimulation of testosterone production via cyclic AMP in mouse leydig cells in monolayer culture. *Mol. Cell. Endocrinol.*, 27:221-232.
- Coppola, J. A. and Ball, J. L. 1966. Uterine sialic acid in relation to ovarian steroids. *Steroids*, 8:345-352.
- Crawford, N. 1958. An improved method for the determination of free and total cholesterol using ferric chloride reaction. *Clinical Chem. Acta.*, 3:357-367.
- Curbelo, H. M., Housay, A. B., Gamper, C. H., Kofoed, J. A. and Tocci, A. A. 1974a. Effects of oestrogens upon the sialic acid in the submaxillary and sublingual glands in the rat. *Arch. Oral Biol.*, 19:421-423.
- Curbelo, H. M., Gamper, C. H., Kofoed, J. A. and Tocci, A. A. 1974b. Effects of testosterone propionate on sialic acid content of submaxillary and retrolingual glands in the rat. *J. Dent. Res.*, 53(5 part 2):1164-1166.
- Dahm, C. H. Jr., Minagawa, J. and Jellinex, M. 1977. Effects of progesterone on some enzymes of fat and carbohydrate metabolism in rat liver. *Am. J. Obstet. Gynecol.*, 129:130-132.
- Davis, R. H. and Balin, H. 1973. Saliva glucose: A useful criterion for determining the time of fertility in women. *Am. J. Obstet. Gynecol.*, 115(2):287-288.
- Demers, L. M. and Jacobs, R. D. 1973. Comparative effects of ovarian steroids on glycogen metabolism of rat, rabbit and guinea pig uterine tissue. *Proc. Soc. Exp. Biol. Med.*, 143(4):1158-1163.
- Denny, P. C. and Denny, P. A. 1984. Diurnal variation of sialomucin concentration in female mouse submandibular glands measured by radioimmunoassay. *Arch. Oral. Biol.*, 29:1033-1040.
- Denny, P. A., Klasuer, D. K., Villa, B. J., Hong, S. H. and Denny, P. C. 1991. The effect of ageing on mucin contents in mouse submandibular glands. *Arch. Oral. Biol.*, 36:477-481.
- Desai, S. S. 1989. Certain observations on the influence of β - adrenergic agents and sex hormones on some aspects of metabolism of submandibular salivary gland of male albino rats, *Rattus Norvegicus albinus*. Ph.D. Thesis , M. S. University of Baroda.

- Devalle, J. J., Curbelo, H. M., Houssay, A. B., Tocci, A. A. and Gamper, C. H. 1968. Effect of testosterone propionate upon sialic content of salivary glands in mice. *Acta. Physiol. Latinoam.*, 18:42-46.
- Dixit, V. P. and Arya, M. 1975. Effects of cyproterone acetate on the uterus and vagina of ovariectomized Gerbil *Meriones hurriane Jerdon* : A biochemical study. *Ind. J. Exp. Biol.*, 14:180-181.
- Drumond, G. J., Harwood, J. P. and Powell, C. A. 1969. Studies on the activation of phosphorylase in skeletal muscle by contraction and by epinephrine. *J. Biol. Chem.*, 244:4235-4240.
- Ekstein, B. and Vilee, C. A. 1966. Effect of estradiol on enzymes of carbohydrate metabolism in rat uterus. *Endocrinol.*, 78:409
- ElAttar, T. M. A. 1974. *In vitro* metabolism of estrone 2,4,6,7-³H and 4-androstene-3,17-dione-1,2, ³H in submandibular gland and submandibular gland cancer tumor. *Steroids*. 24:519-526.
- Evans, J. J. 1986. Progesterone in saliva does not parallel unbound progesterone in plasma. *Clin. Chem.*, 32(3):542-544.
- Evans, J. J. and Stewart, C. R. 1980. Oestradiol in saliva during the menstrual cycle. *Br. J. Obstet. Gynecol.*, 87:624-626.
- Ferguson, M. M. and Bannon, A. M. 1983. Progesterone metabolism in the murine submandibular salivary gland. *J. Dent. Res.*, 62 (10):1031-1032.
- Fiske, C. H. and Subbarow, Y. 1925. Calorimetric determination of phosphorous. *J. Biol. Chem.*, 66:375-
- Flynn, E. A., Yelland, K. T., Shklar, G. 1983. Effect of estradiol on ultrastructure of granular ducts in submandibular glands of female rats. *Anat. Rec.*, 206:23-30.
- Folch, J., Lees, M. and Sloane-Stanley, G. H. 1957. A simple method for the isolation and purification of total lipids from animal tissues. *J. Biol. Chem.*, 226:497-509.
- Fransworth, W. E. 1972. The role of the steroid-sensitive cation dependent ATPase in human prostatic tissue. *J. Endocrinol.*, 54:375-385.

- Furuyama, M. 1989. Biochemical characteristics of nuclear 5 α -reductase and cytosol 3 α -hydroxysteroid dehydrogenase in rat submandibular gland. *Folia. Endocrinol.*, 65(1) :1-17.
- Furuyama, M., Koshika, S., Amaki, A. and Hosaka, M. 1990. 3 α -hydroxysteroid dehydrogenase in the cytosol of rat submandibular gland. *J. Steroid Biochem.*, (5):611-616.
- Galletti, F. and Gardi, R. 1972. Effect of ovarian hormones and synthetic progestins on vaginal sialic acid in the rat. *J. Endocrinol.*, 57:193-198.
- Garrison Benjamin M., Walker, J. Bo and Sayne A. Krueger. 1973. The influence of estradiol-17 β -dipropionate, progesterone ratios on uterine glycogen in rat. *Steroids*, 22(5):659-665.
- Goldman, B. D., Kamberi, A. K., Sutri, P. K. and Porter, J. C. 1969. Temporal relationship of progestin secretion, LH release and ovulation in rats. *Endocrinol.*, 85:1137-1143.
- Gresik, E. W. and Edith, K. M. 1975. The postnatal development of the sexually dimorphic duct system and of amylase activity in the submandibular glands of mice. *Cell. Tissue Res.*, 157:411-422.
- Gresik, E. W., Chung, K. W., Barka, T. and Schenkein, I. 1980. Immunocytochemical localization of nerve growth factor, epidermal growth factor, renin and protease A in the submandibular glands of Tfm/Y mice. *Am. J. Anatomy.*, 158:247-250.
- Gresik, E. W. and Barka, T. 1983. Epididymal growth factor, renin and protease in hormonally responsive duct cells of the mouse sublingual gland. *Anat. Rec.*, 205:169.
- Gupta, G., Srivastava, A. and Setty, B. S. 1993. Androgenic regulation of glycolytic and HMP pathways in epididymis and vas deferens of rhesus monkey. *Indian J. Exp. Biol.*, 31:305-311.
- Harper. 1988. *Harper's review of biochemistry*. Martin, D.W., Mayes, P. A. and Rodwell, V. W. Large medical publications.

- Hatakeyama, S., Sashima, M. and Suzuki, A. 1987. A sexual dimorphism of mucous cells in the submandibular salivary gland of rat. *Arch. Oral Biol.*, **32**(10):689-694.
- Hers, H. G. and Dewulf, H. 1968. In: "*Control of glycogen metabolism*" pp. 65-76. (Ed.) Whelan, W. I. 1968. Academic press London and New York.
- Hers, H. G., Dewulf, H., Stalman, W. and Vanden, B. G. 1970. *Adv. Enz. Regul.*, **8**:171. Cited by Jain, S. K. 1973.
- Hori, T., Ide, M. and Miyake, T. 1968. Ovarian estrogen secretion during the estrous cycle and under the influence of exogenous gonadotropins in rats. *Endocrinol. Japon.*, **15**:215-222.
- Hoshino, K. and Lin, C. D. 1968. Hyperplasia- inducing factor in mouse salivary gland isografts. *Cancer. Res.*, **28**:2556-2558.
- Hosoi, K., Tosikazu, N. and Takao, U. 1977. Effect of testosterone on the amount of serous like granules in convoluted tubular cells of mouse submandibular glands. *J. Biochem. (Tokyo)* ., **81**(3):739-748.
- Hosoi, K., Kobayashi, S. and Ueha, T. 1978. Influence of androgens on β -glucuronidase activity in liver, kidney and submaxillar salivary gland of the mouse. *Arch. Oral. Biol.* **23**(10):905-910.
- Houssay, A. B. and Harfin, J. F. 1954. Effect of estrogen on submaxillary glands in mice. *J. Dent. Res.*, **32**:262-268.
- Houssay, A. B. and Blumenkrantz 1964. Changes in glycoproteins in serum, urine and aqueous humor after gonadectomy or sex hormone injections in rats. *Endocrinol.*, **74**:825-832.
- Houssay, A. B. and Harfin, J. F. 1973. Effects of estrogens on submaxillary glands in mice. *J. Dent. Res.*, **52**:1051-1053.
- Ibim, S. E., Ranadll, R., Peter, H. and Paul, L. M. 1989. Modulation of hepatic glucose -6-phosphate dehydrogenase activity in male and female rats by estrogen. *Life. Sci.*, **47**(17):1559-1566.
- Iida, Michiko., Ikuo, Yoshika and Hiroshi, Muto. 1983. Effects of prepubertal and post pubertal castration on glucose-6-phosphate dehydrogenase and amylase activity in the submandibular gland. *Biomed. Res.*, **4**(2):169-174.

- Ishihara, S., Yiyi, T. and Masahiko, M. 1988. Inhibitory effects of estradiol on glycogen synthesis in primary cultures of human endometrium. *Endocrinol. Jpn.*, 35(5):691-696.
- Jain, S. K. 1973. Regulation of growth and metabolism of ovariectomised rat uterus by adenosine 3',5'-cyclic monophosphate. *Ind. J. Biochem. Biophys.*, 15:43-48.
- Janne, O., Isomaa, V., Kokko, E. and Vierikko, P. 1978. Uterine estrogen and progesterin receptors and their regulation. *Usp. J. Med. Sci. (Suppl)*, 22:62.
- Jato-Rodriguez, Juan, J., J. D. Nelso and Sailen, Mookherjee. 1976. Effect of estradiol and progesterone on UDP-galactose pyrophosphatase activity in the endometrium of ovariectomized rats. *Biochim. Biophys. Acta.*, 428(3):639-646.
- Jayasinghe, N. R., Cope, G. H. and Jacob, S. 1990. Morphometric studies on the development and sexual dimorphism of the submandibular gland of the mouse. *J. Anat.*, 172(0):115-127.
- Jensen, D. R. 1967. Distribution of sialic acid in selected tissues and body fluids during the female reproductive cycle. *Diss. Abstr.*, 27:4173 B, Order No. 66-13, 857.
- Judah, J. D. and Ahmed, K. 1964. The biochemistry of sodium transport. *Biol Rev.*, 39:160-193.
- Junqueira, L. C. 1949. Estudo histológico, histoquímico bioquímico e experimental da glandular submaxilar de camonodongo (*Mus musculus. L.*). *Arch. Brasil. Med.*, 39:381-410.
- Junqueira, L. C., Fajer, A., Rabinovich, M. and Frankenthal. 1949. Biochemical and histochemical observations on the sexual dimorphism of mice submaxillary glands. *J. Cell Comp. Physiol.*, 34:129-158.
- Katsukawa, H., Takao, N. and Yuichi, T. 1980. *In vitro* metabolism of steroid hormones by rodent submaxillary glands two changes in activities of 5-reductase and 17-hydroxysteroid dehydrogenase of rat submaxillary gland with age. *Jpn. J. Zootech. Sci.*, 51(3):165-170.

- Katsukawa, H., Yuichi, T. and Funakoshi, M. 1983. Effects of androgens on the activity of steroid metabolizing enzymes in the murine submaxillary gland. *J. Dent. Res.*, **62**(6):725-727.
- Katsukawa, H., Y. Ninomiya and Funakoshi, M. 1989. Effect of repeated androgen treatments on metabolism and nuclear binding of androgen in the infant murine submandibular gland. *Comp. Biochem. Physiol.* **93**(1):187-192.
- Kazuo, T. 1979. Shift of secretory granules in the striated duct cell of the rat submandibular gland. *J. Electron. Microscop.*, **25**(3):151-154.
- Kellogg, D. A. and Glenner, G. G. 1960. Histochemical localization of human term placental 17 β -estradiol dehydrogenase reaction. *Nature*, **187**:763.
- Khan-Dawood, F. S., Choe, J. K. and Dawood, M. Y. 1984. Salivary and plasma bound and 'free' testosterone in men and women. *Am. J. Obstet. Gynecol.*, **148**:441-445.
- Klinger, G., Kunstmann, F. W., Stetzer, A. 1981a. Detection of N-acetylnoraminic acid with long-term application of hormonal contraceptives. *Zbl. Gynakol.*, **103**:36-40.
- Klinger, G., Elisabeth, G., M. Guenther, and Gerlach, D. 1981b. Initial action of synthetic sexual steroids on serum haptoglobin concentration. *Zbl. Gynakol.*, **103**(1):41-45.
- Kochian, E. and Hall. 1955 as cited by Kronmann and Spinale 1965.
- Kozo, H., Koide, K., Kawamoto, T., Horiuchi, I., Takata, K., Okahashi, M., Hiraoka, T., Nomura, Y., Tokumo, H. 1987. Rat hypolipidemia and lipid metabolic change of liver induced by 17 α -ethynylestradiol treatment. *Jpn. J. Gastroenterol.*, **83**:2022-2027.
- Kronmann, J. H. 1963a. Hamster salivary gland sexual dimorphism. I. Protein histochemical study. *J. Dent. Res.*, **42**:123-127.
- Kronman, J. H. 1963b. Hamster salivary gland sexual dimorphism. II. A histochemical study of hypophysectomy-induced changes in rat submandibular and sublingual glands. *Am. J. Anat.*, **113**:337-346.

- Kronman, J. H. and Spinale, J. J. 1965. A histochemical study of testosterone induced changes in the submandibular and sublingual gland of mice. *Am. J. Anat.*, **117**:123-127.
- Krotkiewski, M., Kral, J. G. and Karlsson. 1980. Effects of castration and testosterone substitution on body composition and muscle metabolism in rats. *Acta Physiol Scan.*, **109**(3):233-238.
- Kullander, S. and Sonesson, B. 1965. Studies on saliva in menstruating, pregnant and post-menopausal women. *Acta. Endocrinol.*, **48**: 329.
- Kun, E. and Abood, L. G. 1949. Colorimetric estimation of succinic dehydrogenase by triphenyltetrazolium chloride. *Science*, **100**:144-145.
- Kushwah, A., Gupta, D. N., Kamboj, V. P. and Karkun, J. N. 1980. Acid mucopolysaccharide levels of rabbit fallopian tube, uterus and cervix: effect of ovariectomy and estrogen treatment. *Ind. J. Exp. Biol.*, **18**:45-46.
- Kushwah, A., Kamboj, V. P., Kushwah, H. S. and Karkun, J. N. 1987a. Effect of altered hormonal states on some enzymes of glucose metabolism in the genital organs of immature female rhesus monkeys. *Cell. Mol. Biol.*, **33**(6):775-782.
- Kushwah, A., Kamboj, V. P., Kushwah, H. S. and Karkun, J. N. 1987b. Effect of altered hormonal states on some carbohydrate metabolizing enzymes in the genital organs of immature female rhesus monkeys. *Theriogenology*, **27**(6):879-886.
- Kuyatt, B. L. and Baum, B. J. 1981. Characteristics of submandibular glands from young and aged rats. *J. Dent. Res.*, **60**:936-941.
- Kyakumoto, S., Kurokawa, R., Ohara-Nemoto, Y. and Ota, M. 1986. Sex difference in the cytosolic and nuclear distribution of androgen receptor in mouse submandibular gland. *J. Endocrinol.*, **108**:267-273.
- Lacassagne, A. 1940a. Dimorphisme sexuel de la glande sous-maxillaire chez la souris. *C. R. Soc. Biol.*, **133**:180-181.
- Lacassagne, A. 1940b. Mesure de l'action des hormones sexuelles sur la glande sous-maxillaire de la souris. *C. R. Soc. Biol.*, **133**:227-229.

- Laine, M. and Ojanotko, A. 1982. Metabolism of progesterone in rat parotid, submandibular and sublingual salivary glands *in vitro*. *Proc. Finn. Dent. Soc.*, 78:112 (Abstr.)
- Laine, M. and Tenovu, J. 1983. Effect on peroxidase activity and specific binding of the hormone 17 β -estradiol and rat salivary glands. *Archs. Oral. Biol.*, 28(9):847-852.
- Laine, M. and Ojanotko-Harri, A. 1990. Progesterone metabolism by major salivary glands of rat. I. Submandibular and sublingual glands. *J. Steroid Biochem.*, 35:723-728.
- Larner, J. 1966. As cited in "Control of glycogen metabolism" pp.2 (Ed.) Whelan, W. J. 1968. Academic Press London and New York.
- Lee, T. P. and Reed, C. E. 1977. Effects of steroid on the regulation of the levels of cyclic AMP in human lymphocytes. *Biochem. Biophys. Res. Commun.*, 78:998-1004.
- Liu, F. T. Y. 1968. Influence of some steroid contraceptives on incidence of dental caries and changes in salivary glands in female rats. *J. Dent. Res.*, 47(6):1047-1055.
- Liu, F. T. Y., Lin, H. S. and Zullo, T. T. G. 1969. Effect of graded doses of estradiol benzoate on dental caries and salivary glands in female rats. *J. Dent. Res.*, 48:485.
- Llach, J. L., Tramezzani, J. H. and Cordero, F. Jr. 1960. A sexual difference in the concentration of Iodine-131 by the submaxillary gland of mice *Nature*, 188:1204.
- Lowry, O. H., Rosebrough, N. J., Farr, A. L. and Randall, R. J. 1951. Protein measurement with the Folin-phenol reagent. *J. Biol. Chem.*, 193:265-275.
- Luisi, M., Franchi, F., Kicovic, P. M., Silvestri, D., Cossu, G., Catarsi, A. L., Barletta, D. and Gasperi, M. 1981. Radioimmunoassay for progesterone in human saliva during the menstrual cycle *J. Steroid Biochem.*, 14(10):1069-1074.
- Lytle, C. R. and Jellink, P. H. 1973. Metabolism of [4¹⁴-C] oestradiol by oestrogen-induced uterine peroxidase. *Biochem. J.* 127:481-487.

- Lyttle, C. R. and Desombre, E. R. 1977. Generality of oestrogen stimulation of peroxidase activity in growth responsive tissue. *Nature*, 268:337-339.
- Magnusson, I., Ericson, T. and Hugoson, A. 1975. The effect of oral contraceptives on the concentration of some salivary substances in women *Arch. Oral. Biol.*, 20:119-126.
- Mangan, F. R., Pegg, A. E. and Mainwaring, W. I. P. 1973. A reappraisal of the effects of adenosine 3',5'-cyclic monophosphate on the functions and morphology of the rat prostate gland. *Biochem. J.*, 134:129-142.
- Martirosyan, M. E. 1980. Mechanism of development of the post castration hyper glycemia in male albino rats. *Zh. Eksp. Klin. Med.*, 20:252-257.
- Matute, M. L. and Kalkhoff, R. K. 1973. Sex steroid influence on hepatic gluconeogenesis and glycogen formation. *Endocrinol.*, 92:762-768.
- Meshchishen, I. F., Nyslitskii, V. F. and Khodorovskii, G. I. 1980. Effect of castration on carbohydrate metabolism. *Probl. Endocrinol.*, 26:52-55.
- Moger, W. H., Murphy, P. R. and Casper, R. F. 1982. Catecholamine stimulation of androgen production by mouse interstitial cells in primary culture. *J Androl.*, 3:227-231.
- Moger, W. H. and Anakwe, O. O. 1983. effects of forskolin on androgen production by mouse interstitial cells *in vitro* : Interactions with leutinizing hormone and isoproterenol. *Biol. Reprod.*, 29:932-937.
- Moger, W. H. and Murphy, P. R. 1983. β -adrenergic agonist induced androgen production during primary culture of mouse leydig cells. *Arch. Androl.*, 10:135-142.
- Moghissi, Kamran and Syner, N. F. 1975. Cyclic changes in amount and sialic acid of cervical mucus. *Int. J. Fertil.*, 21(4):246-256.
- Morrell, J. I., Gresik, E. W. and Barka, T. 1987. Autoradiographic localization of dihydrotestosterone binding in the major salivary glands and other androgen responsive organs of the mouse. *J. Histochem. Cytochem.*, 35(10):1053-1058.

- Morvay, J., Altorjay, I. and Sas, M. 1983. Saliva level of ethynyl estradiol in presence of ethynodiol concentration after oral administration. *Hormon. Res.*, 17:181-184.
- Mudd, B. D. and White, S. C. 1975. Sexual dimorphism in the rat submandibular gland. *J. Dent Res.*, 54(1):193.
- Naftolin, F., Brown-Grant, K. and Corker, C.S. 1972. Plasma and pituitary luteinizing hormone and peripheral plasma oestradiol concentrations in normal oestrous cycle of the rat and after experimental manipulation of the cycle. *J. Endocrinol.*, 53:17-30.
- Niall, M., Ryan, G. B. and O'Brien, B. M. 1982. The effect of epidermal growth factor on wound healing in mice. *J. Surg. Res.*, 33:164-169.
- Oster, G. and Yang, S. 1971. Cyclic variation of sialic acid content in saliva. *Am. J. Obstet. Gynecol.*, 114(2):190-193.
- Pal, T. and Bhattacharya, A. K. 1989. Cyclic changes in salivary lactate dehydrogenase, peroxidase and leucine aminopeptidase during menstrual cycle. *Indian J. Exp. Biol.*, 27:695-698.
- Poddar, S. and Jacob, S. 1978. Histology and mucosubstance histochemistry of mongoose salivary glands. *Acta Anat.*, 100:545-556.
- Poteat, W. L. and Walter, J. Bo. 1977. The interaction of clomiphene, estradiol and progesterone in the control of rat uterine glycogen metabolism. *Am. J. Anat.*, 149(2):153-163.
- Prosser, C. G. and Hartman, P. E. 1983. Saliva and breast milk composition during the menstrual cycle of women. *Aust. J. Exp. Biol. Med. Sci.*, 61(3):265-275.
- Purushotham, K. R., Pao-Li, Wang., Calogero, Dolce., Tivadar, Zelles., Josef, Blazse and Michael, G. Humphery's-Beher. 1993. Effect of surgical ovariectomy on rat salivary gland function. *Arch. Oral. Biol.*, 38(9):779-784.
- Puskulian, L. 1972. Salivary electrolyte changes during the normal menstrual cycle. *J. Dent. Res.*, 51:1212-1216.
- Rajan et al. 1980. *J. Med. Primatol.*, 9:361-367. Cited by Schauer, R. 1982.

- Ravetto, C., Gulluzo, F. and Siervo, R. 1965. On the presence of sialic acid sulfate group in rat submaxillary gland. *J. Histochem. Cytochem.*, **14**:114-115.
- Raychoudhary, K. and Late Chowdhary, A. K. 1987. Effect of low doses of estradiol benzoate on male reproductive organs of adult rats. *Ind. J. Med. Res.*, **85**:385-394.
- Raynaud, J. 1950. Action locale de la testosterone injectee dans la glande sous-maxillaire de la souris. *C. R. Acad. Sci.*, **230**:2047-2048.
- Raynaud, J. and Rebeyrotte, P. 1949. Difference d'active amylasique de la glande sous-maxillaire des souris femelles: conditionnement de cette activite, par les hormones androgens. *C. R. Acad. Sci.*, **229**:84-86
- Read, G. F., Wilson, D. W., Hughes, I. A. and Griffiths, K. 1984. The use of salivary progesterone assays in the assessment of ovarian function in postmenarcheal girls. *J. Endocrinol.*, **102**:265-268.
- Rinard, G. 1972. Effect of estrogen and progesterone on uterine phosphorylase. *Fed. Proceeding.*, **31**(2):245.
- Rindl, G. 1971. The biological role of cyclic AMP. *Acta Diabetol. Lat.*, **8**:865-898.
- Robel, P., Mortel, R. and Baulieu, E. E. 1981. Estradiol and progesterone receptors in human endometrium. In: *The endometrium hormonal impacts* (Eds.) J. De Brux, R. Mortel and J. P. Gantray, Plenum, New York, pp. 43.
- Roberts, M. L. 1974. Testosterone-induced accumulation of epidermal growth factor in the submandibular salivary glands of mice, assessed by radioimmunoassay. *Biochemical Pharmacol.*, **23**:3305-3308.
- Rosner, J. M., Macome, J. C. and Cardinali, D. P. 1969. *In vitro* biosynthesis of sterols and steroids by rat submaxillary glands. *Endocrinol.*, **85**:1000-1003.
- Rumio, T. and Pardini, L. C. 1989. Submandibular gland of the mouse: A review of morphological data. *Rev. Cienc. Biomed.*, **10**(0):31-38.
- Rybakova, M. G. 1975. The effect of estrogens on albino rats salivary gland growth and differentiation in organ culture. *Biol. Med.*, **79**(2):97-100.

- Rybakova, M. G. 1978. Quantitative histoenzymological characteristics of albino rat submaxillary gland during an ovarian cycle. *Byull. Eksp. Biol. Med.*, **85**(6):736-739.
- Sakabe, Kou., Kanji, Seiki., Hideko, Fuji-Hanamoto., Issei, Kawashima and Haruko, Ogawa. 1987. Biochemical characterization and immunohistochemical localization of progestin and estrogen receptors in castrate rat submandibular gland. *Tokai, J. Exp. Clin. Med.*, **12**(5/6):353-364.
- Sawada, K. and Tetsuo, N. 1993. Metabolism of androgens by the mouse submandibular gland and effects of their metabolites. *Zool. Sci. (Tokyo)*, **10**(3):481-488.
- Schauer, R. 1982. Biological significance of sialic acid. In: "*Sialic acids chemistry, metabolism and function*" (Eds) Werner, R., Eckart, K., Christlan, B. and Wolfgang, G. by Springer-Verlag/Wein N. Y., pp 263-305.
- Schneyer, L. H., Young, J. A. and Schneyer, C. A. 1972. Saliva secretion of electrolytes. *Physiol. Rev.* **52**:720-777.
- Seifter, S., Dutton, S., Novic, B. and Muntwyler, B. 1950. The estimation of glycogen with anthrone reagent. *Arch. Biochem.*, **25**:191-200.
- Shafer, W. G. and Muhler, C. J. 1953. Effect of gonadectomy and sex hormones on the structure of the rat salivary glands. *J. Dent. Res.*, **32**:262-268.
- Shapiro, B. and Wertheimer, E. 1943. Phosphorylase and synthesis of glycogen in animal tissues. *Biochem. J.*, **37**:397-403.
- Singhal, R. L., Parulekar, M. R., Vijayvargiya, R. and Robinson, G. A. 1971. Metabolic control mechanism in mammalian systems. Involvement of adenosine 3',5'-cyclic monophosphate in androgen action. *Biochem. J.*, **125**:329-342.
- Sirigu, P. and Cossu, M. 1979. Histochemical study of the parotid and submaxillary glands in man. *Boll. Soc. Ital. Biol. Sper.*, **55**(23):2470-2476.
- Sirigu, P., Cossu, M., Perra, M. T. and Puxeddu, P. 1982. Histochemistry of the 3 β -hydroxysteroid, 17 β -hydroxysteroid and 3 α -hydroxysteroid dehydrogenase in human salivary glands. *Arch. Oral. Biol.*, **27**:547-551

- Skuo, J. C. 1965. Enzymic basis for active transport of Na^+ and K^+ across cell membrane. *Physiol. Rev.*, 45:596-617.
- Sladek, C. D. 1974. Gluconeogenesis and hepatic glycogen formation in relation to the rat estrous cycle. *Horm. Metab. Res.*, 6(3):217-221.
- Smith, R. J. and Fromer, J. 1975. Quantitative morphology and carbohydrate histochemistry of the mouse submandibular gland following prepubertal castration. *Am. J. Anat.*, 144:137-148.
- Sreebny, L. M., J. Meyer., E. Bachem and J. P. Weimann. 1955. Postnatal changes in proteolytic activity and in morphology of the submaxillary gland in male and female albino rats. *Growth.*, 19:57.
- Sreebny, L. M. 1960. *Ann. N. Y. Acad. Sci.*, 85:182.
- Stetten, D. Jr. and Stetten, M. R. 1960. Glycogen metabolism. A review. *Physiol. Rev.*, 40:505.
- Svennerholm, L. 1958. Quantitative estimation of sialic acid on ion exchange resin method. *Acta Chemica Scanda.*, :547-554.
- Takai, Yoshiaki, Yukihiro Tatemoto, Yohko Noda, Shinichiro Sumitomo, Takaaki Tanaka and Masahiko Mori. 1986. Immunohistochemical observations of epidermal growth factor, keratin proteins and lectin binding on effects of testosterone administration in duct-ligated submandibular glands of mice *Acta. histochem. Cytochem.*, 19(4):481-496.
- Takauma, T., Nakamura, T., Hosoi, K., Kumegawa, M. 1977. Binding protein for 5α -dihydrotestosterone in mouse submandibular gland. *Biochim. Biophys. Acta.*, 496:175.
- Takauma, T., Tanemura, T., Hosoda, S. and Kumegawa, M. 1978 Effects of thyroxine and 5α -dihydrotestosterone on the activities of various enzymes in the mouse submandibular gland. *Biochimica. Biophysica. Acta.*, 541:143-149.
- Taketani, Y. and Oka, T. 1983a Epidermal growth factor stimulated cell proliferation and inhibits functional differentiation of mammary epithelial cells in culture. *Endocrinol.*, 113:873.

- Taketani, Y. and Oka, T. 1983b. Biological action of epidermal growth factor and its functional receptors in normal mammary epithelial cells. *Proc. Nat. Acad. Sci. USA*, **80**:2647-2650.
- Tenovuo, J., Laine, M., Soderling, E. and Irjala, K. 1981. Evaluation of salivary markers during the menstrual cycle peroxidase, protein and electrolytes. *Biochem. Med.*, **25**:337-345.
- Tho, S. P. T., Scholer, J., Phung, B. V., Harp, R. J. and Mc Donough, P. G. 1985. Radioimmunoassay of progesterone in saliva: Simplified technique using ¹²⁵I-radioligand. *Fert. Steril.*, **43**:410-416.
- Tindall, D. J., French, F. S. and Nayfeh, S. N. 1981. Estradiol-17 β inhibition of androgen uptake, metabolism and binding in epididymis of adult male rats *in vivo*: A comparison with cyproterone acetate. *Steroids*, **37**:257-268.
- Travill, A. 1966. The effect of pregnancy on the submandibular glands of mice. *Anat. Res.*, **155**:217-222.
- Treves, C., Vincenzini, M. T., Vanni, P., Baradazzi, F., Cattaneo, A. and Ogier, E. 1986. *Int. J. Fertil.*, **31**:59.
- Tripathi, G. 1983. Effect of estradiol dipropionate on uterine and vaginal glycogen content of parkes mice. *Indian J. Physiol. Pharmacol.*, **27**(4):317-322.
- Tripathi, G. and Krishan, A. 1985. Antagonistic effect of progesterone towards estradiol dipropionate induced changes in glycogen content in uterus and vagina of parkes mice. *Experientia (Basel)* **41**(11):1455-1456.
- Tsutsumi, O., Kurachi, H. and Oka, T. 1986. A physiological role of epidermal growth factor in male reproductive function. *Science*, **233**:975.
- Thoenen, H. and Barde, Y. A. 1980. Physiology of nerve growth factor *Physiol. Rev.*, **60**:1285-1293.
- Tuomela, T., Viinikka, L. and J. Perheentupa. 1989. Mouse epidermal growth factor concentrations are altered by gonadectomy and treatments with estradiol and progesterone. *Life Sci.*, **44**(24):1815-1822.
- Tuomela, T., Miettinen, P., Personen, K., Viinikka, L. and Perheentupa, J. 1990a. Epidermal growth factor in mice: effects of estradiol, testosterone and dexamethasone. *Acta Endocrinol. Copenh.*, **123**:211-217.

- Tuomela, T., Mienttinen, P., Personen, K., Viinikka, L. and Perheentupa, J. 1990b. Estrogen - androgen antagonism in the regulation of epidermal growth factor in mouse submandibular salivary gland and kidneys. *Life Sci.*, **47**:1925-1932.
- Turkes, D. A., Read, G. F., Wilson, D. W., Griffiths, V., Jones, R. and Griffiths, K. 1989. Progesterone concentrations in samples of saliva from adolescent girls living in Britain and Thailand, two countries where women are at widely differing risk of breast cancer. *J. Endocrinol.*, **121**:375-381.
- Ulf, T. W., Schueiring, B., Senge, T., Neumann, F., Schweikert, H. U. and Rohr, H. P. 1981. Morphometric analysis of prostates in castrated dogs after treatment with androstenediol, estradiol and cyproterone acetate. *Invest Urol.*, **18**:289-292.
- Umbreit, W. W., Burris, R. H. and Stauffer, J. F. 1957. *"Manometric techniques"* Burgess Public Co.
- Valette, A., Mercier, L., Benoit, V., Meignen, J. M. and Boyner, J. 1987. Nutritional dependence of the effect of estrogen on fat cell lipoprotein lipase. *J. Steroid Biochem.*, **28**(4):445-448.
- Verhoeven, G. 1979. Androgen binding proteins in mouse submandibular gland. *J. Steroid Biochem.*, **10**(2):129-138.
- Verhoeven, G. and Wilson, J. D. 1976. Cytosol androgen binding in submandibular gland and kidney of the normal mouse and the mouse with testicular feminization. *Endocrinol.*, **99**:79-92.
- Vourento, T., Lahti, A., Hovatta, O. and Huhtaniemi, I. 1989. Daily measurement of salivary progesterone reveal a high rate of anovulation in healthy students. *Scand. J. Clin. Lab. Invest.*, **49**:395-401.
- Wagh, L. R. 1994. Some observations on influence of estrous cyclicity and ovarian sex hormones on liver of albino rat, *Rattus Norvegicus Albinus.*, Ph. D. Thesis, M.S. University of Baroda, Baroda, India.
- Walker, R. F., Read, G. F. and Rlad-Fahmy, D. 1979. Radioimmunoassay of progesterone in saliva: Application to the assessment of ovarian function. *Clin Chem.*, **25**(12):2030-2033.

- Wang, D. Y. and Knyba, R. E. 1985. Salivary progesterone : relation to total and non-protein-bound blood levels. *J. Steroid Biochem.*, 23:975.
- Wattenberg, L. W. 1958. Microscopic histochemical demonstration of steroid 3β - α -dehydrogenase in tissue section. *J. Histochem. Cytochem.*, 6:225-232.
- Weiner, A. L., Offner, P. and Sweemy, E. A. 1970. Metabolism of testosterone- 4^C by the canine submaxillary gland *in vivo*. *Endocrinol.*, 87:406-409.
- West, N. B. and Brenner, R. N. 1983. Estrogen receptor levels in the oviducts and endometria of *Cynomolgus maceques* during the menstrual cycle. *Biol Reprod.*, 29:1303.
- White, S. C. and Mudd, B. D. 1975. Hormonal regulation of submandibular salivary gland morphology and antigenicity in rats *Arch. Oral. Biol.*, 20(12):871-875.
- Wilborn, W. H. and Fitzgerald, L. R. 1964. Hormonal effects upon cytology and oxygen consumption of mouse submandibular glands *Anat. Rec.*, 148:350.
- Winckers, P. L. M. and Jacobs, Ph. 1971. Determination of glucose in blood using O-Toluidine. *Clin. Chim. Acta.*, 34:401.
- Winsten, D. C., Henniger, R. A., Spicer, S. S., Garrett, J. R. and Schuller, B. A. 1988. Immunohistochemical localization of Na^+ - K^+ ATPase in rodent and human salivary and lacrimal glands. *J. Histochem. Cytochem.*, 36:1139-1145.
- Yang, C., Klauser, D. N., Denny, P. A. and Denny, P. C. 1993. Proliferative and structural difference between male and female mouse submandibular glands. *Anat. Rec.*, 235(2):303-311.
- Young, J. A. and Van Lennep, E. W. 1978. "The morphology of salivary glands." Academic press London.
- Zanca, M., J. Philippot and M. Cayzac. 1983 Early *in vitro* stimulation of endometrial (Na^+ - K^+) - ATPase by estradiol. *J Recept. Res.*, 3(4):451-462

- Zebrowski, E. J. 1972. Effects of age and castration on compensatory hypertrophy and sialic acid levels of the male rat. *Arch. Oral. Biol.*, **17**:447-454.
- Zebrowski, E. J. 1973. Effect of castration and androgen supplementation on sialic acid levels in rat submandibular gland. *Arch. Oral. Biol.*, **18**:567-570.