References on the Administration of Prolactin Using ALZET® Osmotic Pumps

**ALZET Comments:** Prolactin, ovine; SC; Rat; 28 days; Dose (0.16 mg/kg /d); Controls received mp w/ vehicle; animal info (Male Wistar rats); diabetes; “…the pumps were implanted sc in less than 2 minutes.” (P.57).

**ALZET Comments:** Progesterone; Prolactin; Cyclodextrin, 2-hydroxypropyl-β; SC; Mice; 2002; 14 days; Dose (progesterone 250 μg/day; prolactin 7 μg/day); 20% (w/v) 2-hydroxypropyl-beta-cyclodextrin used; Controls received mp w/ vehicle; animal info (7–8 week old female mice with bilateral oophorectomy); replacement therapy (oophorectomy).

**ALZET Comments:** Prolactin; SC; Rat; 28 days; animal info (Male Sprague-Dawley rats weighing 200–250 g).

**ALZET Comments:** Prolactin; SC; Mice; 1003D; 3 days; Dose (1500 μg/day-); Controls received mp w/ vehicle; animal info (Adult female C57BL/6J mice aged 8-12 weeks).

**ALZET Comments:** Prolactin; PBS, Dulbecco’s; SC; Mice; 28 days; Dose (2.4 μg/day); Controls received mp w/ vehicle; animal info (Eight week-old C57BL6/J female mice); immunology.

**ALZET Comments:** Prolactin, recombinant mouse; Albumin, mouse; Mice (NOD); 1004; 3 weeks; Controls received mp w/ vehicle; Controls received mp w/ vehicle; diabetes; Therapeutic indication (diabetes); Dose (2.7 ug/d); resulted in serum PRL level 300-500 ng/mL.

**ALZET Comments:** Prolactin, recombinant human; oligomer, splice-modulating; SC; Mice (NOD/SCID); 5 days; 25 days; 40 days; Controls received mp w/ vehicle; animal info (female, BALB/c or NOD SCID, 8-9 weeks old); functionality of mp verified by plasma levels; pumps replaced every 28 days; cancer (breast); dose-response (pg 87).

**ALZET Comments:** Prolactin, ovine; PBS; BSA; SC; Mice; 7 days; Controls received mp w/ saline; animal info (male, OPG-KO, 12-14 weeks old); diabetes;

**ALZET Comments:** Prolactin; Saline; SC; Cattle (pregnant); 28 days; Controls received no mp; animal info (female, Holstein, multiparous); functionality of mp verified by blood samples; pumps removed after 28 days;

Q4064: M. Ricke-Hoch, et al. Opposing roles of Akt and STAT3 in the protection of the maternal heart from peripartum stress. Cardiovascular Research 2014;101(587-596
Q3424: J. D. Buntin, et al. Increased STAT5 signaling in the ring dove brain in response to prolactin administration and spontaneous elevations in prolactin during the breeding cycle. General and Comparative Endocrinology 2014;200(1-9)

ALZET Comments: Prolactin, ovine; Saline; sodium bicarbonate; SC; Bird (ring dove); 2001; 7 days; Controls received mp w/ vehicle; animal info (female, ring doves, adult, non-breeding);


ALZET Comments: Prolactin; Saline; SC; Gerbil; 2002; 2 weeks; Controls received mp w/ vehicle; animal info (female, Mongolian,6-7 months old, 59-88g); functionality of mp verified by serum levels; behavioral testing (physical activity);


ALZET Comments: Prolactin, mouse, recomb.; Albumin, mouse serum; saline; SC; Mice; 1007D; 7 days; Control animals received mp w/ vehicle; animal info (male, female, Nestin CreER TM/ERK5 loxP/loxP, 8 -10 wks old).


ALZET Comments: Prolactin, ovine; SC; Rat; 6 days; 21 days; Animal info (male, Sprague Dawley, 200-250g); functionality of mp verified by serum levels at 21 days; behavioral testing (hind paw pain) immunology;


ALZET Comments: Prolactin, mouse, recomb.; BSA; saline, sterile; CSF/CNS (hippocampus); Mice; 1003D; 1007D; 2 days; Controls received mp w/ vehicle or normal goat antibody; animal info (8 wks old, Prlr +/+, Prlr -/-, male).


ALZET Comments: Prolactin; SC; Mice; 2004; 28 days; Control animals received mp w/ PBS; animal info (6 wks old, adult, female).


ALZET Comments: Prolactin, rat; NaHCO3; NaCl; CSF/CNS; Rat; 4 weeks; Controls received mp w/ vehicle; animal info (Sprague Dawley, male, 224 g).


ALZET Comments: Prolactin, mouse, recomb.; luteinizing hormone, mouse, recomb.; antibody, prolactin neutralizing; Albumin, mouse serum; PBS;; SC; CSF/CNS; Mice; 1003D; 1007D; 2 days; Controls received mp w/ vehicle or normal goat antibody; animal info (8 wks old, Prlr +/+, Prlr -/-, male).


ALZET Comments: Prolactin, human, recomb.; Glycerol; NaHCO3; NaCl; SC; Monkey (marmoset); 2004; Controls received mp w/ saline; animal info (2.5-9 yrs old, male, parentally experienced); "... these pellets (from Innovative Research of America) did not raise the level of prolactin in the blood over the level of our control parentally experienced fathers... Therefore, we chose to use the osmotic minipump (Alzet, CA) for our test males." pg 439; "The position of the pumps on
the lower area of a male's back precluded any interference with infant carrying since infant carrying occurs nearer the neck" pg 439; comparison of pellets vs mp.

**ALZET Comments:** LINGO-1, antibody; Prolactin; CSF/CNS; Mice; Rat; 2, 3 weeks; Animal info (MOG-induced Experimental Autoimmune Encephalomyelitis).

**ALZET Comments:** Prolactin, ovine; CSF, artificial; CSF/CNS; Rat; 2001; 7 days; Controls received mp w/ vehicle; peptides; animal info (female, Sprague Dawley, 10 wks old, 200-300g., pseudopregnant); endocrinology.

**ALZET Comments:** Prolactin; Saline; SC; Rat; 2001; 7 days; Controls received mp w/ vehicle; peptides; animal info (male).

**ALZET Comments:** Prolactin, ovine; NaHCO3; HCl; CSF/CNS; Rat; 2001; 2002; 7, 10 days; Controls received mp w/ vehicle; dose-response (Fig. 1); peptides; animal info (female, Wistar, 220-240g.).

**ALZET Comments:** Prolactin, recomb. mouse; Saline; albumin mouse serum; SC; Mice; 1007D; 2.5 days; Controls received mp w/ vehicle; peptides; animal info (female, CD-1, 6-8 wks old).

**ALZET Comments:** Prolactin, recomb. mouse; Saline; albumin mouse serum; SC; Mice; 1007D; 2.5 days; Controls received mp w/ vehicle; peptides; animal info (female, CD-1, 6-8 wks old).

**ALZET Comments:** Prolactin, ovine; CSF/CNS; Mice; 1002; 7 days; Serum levels taken, peptides, animal info (adult, female, C57BL6/J, 6-8 weeks, 24-28g, OVX).

**ALZET Comments:** Prolactin, ovine; domperidone; Sodium bicarbonate buffer; PEG 400; SC; Mice; 1003D; 1007D; 1002; 3, 12, 14, days; Controls received no treatment; functionality of mp verified by plasma prolactin levels; animal info (Balb/c, 18-30 days old).

**ALZET Comments:** Prolactin, murine; Saline, physiological; SC; Mice; 1002; 11-12 days; Controls received mp w/ vehicle; animal info (C57BL/6J, pRL, KO, male, 25-30 g, 8-16 wk old).

**ALZET Comments:** Prolactin, bovine; NaHCO3; SC; Mice; 2001; 4.5 days; Controls received mp w/ vehicle; functionality of mp verified by serum bPRL levels; peptides; multiple pumps per animal (2).
ALZET Comments: Bromocriptine; prolactin, ovine; Saline, sterile; SC; Prairie vole; 2004; Controls received mp w/ vehicle; replacement therapy (gonadectomy); animal info (male, meadow); animals also received testosterone via silastic implant at same time.

ALZET Comments: Prolactin, recomb.; prolactin, S179D; Saline; SC; Mice; 2004; 21 days; Controls received mp w/ vehicle; immunology; animal info (male, C3H/HeJ or C3H/HeJ-TnFsF6gld, 10-12 wk. old).

ALZET Comments: Prolactin, recomb. bovine; Saline; SC; Cattle; 2ML2; 10 days; Comparison of IV injections vs mp; no stress (see pg. 1914); immunology; peptides; post op. care (prodine, excenel); each animal received 4 rounds of 10 day prolactin treatment (2/w/ mp, 2 IV injection) with 11 days of non treatment between each round; wound clips used.

ALZET Comments: Prolactin, human recomb.; prolactin, S179D; Saline; SC; Rat; 2004; 3 weeks; Comparison of SC injections vs. mp; peptides.

ALZET Comments: Prolactin, ovine; Sodium bicarbonate; heparin; NaCl; IV (jugular); Rat; Controls received mp w/ vehicle; half-life = 6 hours (p.119); peptides; heparin dose 50 U/ml.

ALZET Comments: Prolactin; Saline; SC; Rat (pregnant); 2001; 2004; 7, 21 days; peptides; unmodified (u-PRL) & phosphorylated (p-PRL) prolactin used.

ALZET Comments: Growth hormone, human; prolactin, ovine; growth hormone, bovine; Saline; SC; Rat; 2ML1; 7 days; Controls received mp w/ PBS vehicle; peptides; agents infused separately or concomitantly.

ALZET Comments: Prolactin; bromocriptine; SC; Mice; 1007D; 3 days; Animal info (female, C57BL/6J).

P5410: L. Yang, et al. Maternal prolactin composition can permanently affect epidermal gamma delta T cell function in the offspring. Developmental and Comparative Immunology 2002;26(9):849-860
ALZET Comments: Prolactin, recomb.; prolactin, phosphorylated; Saline; Rat (pregnant); 2002; Controls received mp w/ vehicle; teratology; peptides; apoptosis.

ALZET Comments: Oligodeoxynucleotide, antisense; Prolactin, ovine; Ringer’s solution; CSF/CNS; Rat (lactating); 1007D; 5 days; controls received mp w/ vehicle; antisense; oligonucleotides against the long form of the brain Prolactin receptor.
ALZET Comments: Prolactin, S179D; Saline; SC; Rat; 2001; 2004; 28 days;

ALZET Comments: Prolactin, phosphorylated; prolactin, unphosphorylated; Saline; SC; Rat (pregnant); 2004; Dose (6 μg/d); Controls received mp w/ vehicle; animal info (female Sprague-Dawley rats);

ALZET Comments: Prolactin, ovine; SC; Mice (nude); 2004; 22-24 days; controls received mp w/ vehicle; functionality of mp verified by plasma prolactin levels; peptides; cancer (prostate); S179D is a prolactin receptor antagonist; wild-type prolactin used.

ALZET Comments: Oligonucleotide, antisense; Prolactin, ovine; Ringer's solution; CSF/CNS; Rat; 1007D; 5 days; controls received mp w/ vehicle; comparison of ICV injections vs. mp; peptides; antisense; antisense ODN was anti-prolactin.

ALZET Comments: Prolactin, ovine; NaCO3; NaCl; SC; Bird (kestrel); 2004; 15 days; Controls received mp w/ vehicle; prolactin plasma levels checked; dose-response (p.173); 17 min. half-life (p.171).

ALZET Comments: Prolactin, ovine; Phosphate buffer; SC; CSF/CNS (third ventricle); Rat; 2001; 1 or 2 weeks; controls received mp w/ vehicle; ICV & SC pumps replaced after 7 days; peptides; solutions were millipore filtered; 1 sc mp replaced with 2 pumps after 7 days.

ALZET Comments: Bromocriptine; prolactin; Hamster; Replacement therpay (castration, ovariectomy); multiple pumps per animal (2).

ALZET Comments: Growth hormone, bovine; Growth hormone, human; Prolactin, ovine; SC; bone (mandible); Rat; 2, 3, 4 weeks; controls received mp w/saline; pumps replaced after 2 weeks; recomb. human and bovine GH used.

ALZET Comments: Vasoactive intestinal peptide, porcine; Prolactin, ovine; Saline; Sodium bicarbonate; SC; CSF/CNS; CSF/CNS (median eminence); bird (turkey); 2001; 2002; 7, 10, 12 days; controls received mp with saline; functionality of mp verified by residual volume; stability of pVIP -- still potent after 17 days in sc pump; peptides; pumps implanted after recovery from CNS surgery.


ALZET Comments: Growth hormone, human; Triiodothyronine, L-; Prolactin, ovine; SC; Rat; 7 days; controls received hypophysectomy only w/ no mp; functionality of mp verified by checking pumps after usage; replacement therapy (hypophysectomy); comparison of single sc injections of GH & T3 vs. mp; agents given alone or in combination; growth hormone via mp partly restores liver estrogen receptor concentration while same dose in 2 single injections daily has no effect.


ALZET Comments: Prolactin, ovine; SC; mink; 110 days; controls received no treatment; long-term study, pumps replaced every 4 weeks; peptides.


ALZET Comments: Prolactin, ovine; Sodium bicarbonate; Sodium chloride; Heparin; IV (jugular); Rat; 2 days; functionality of mp verified by RIA of plasma levels; peptides; PACAP 38 or saline injections iv, concomitantly; 50 U/ml of heparin.


ALZET Comments: Prolactin, ovine; Glycerol; Sodium azide; Sodium heparin; PBS; SC; hamster; 2002; 10 days; controls received mp w/ vehicle solution; telemetry tracked temperature and activity.


ALZET Comments: Prolactin, ovine; Sodium azide; Sodium phosphate; Saline; Glycerol; IV (jugular); IV (hepatic portal); Rat; 2002; no duration posted; pulsed delivery; peptides; air used in lynch coil.


ALZET Comments: Prolactin, ovine; IV (jugular); IV (hepatic portal); Rat; 2001; 5 days; controls received mp w/ solvent; functionality of mp verified by in vitro dye testing of pulsatile release; comparison of pulsed delivery w/ mp vs. continuous infusion w/ mp; pulsed delivery; "Constant infusion of oPRL... was, overall, more effective at restoring lactation... than was giving pulses, regardless of the site of delivery." (pg. 29).


ALZET Comments: Luteinizing hormone; ACTH, human; Thyroid-stimulating hormone, rat; Follicle stimulating hormone, rat; Growth hormone, rat; Prolactin, ovine; SC; mice; 2001; 7 days; controls received mp w/ vehicles; replacement therapy (hypophysectomy); peptides.


ALZET Comments: Prolactin; Glycerol; Sodium azide; Sodium carbonate; IV (jugular); Rat; 2001; 6 days; dose-response (table p564).


ALZET Comments: Prolactin, ovine; Ammonium bicarbonate; Saline; CSF/CNS; bird (turkey); 2ML4; 14 days; peptides.
ALZET Comments: Prolactin, ovine; Sodium bicarbonate; Saline; SC; Rat; 2001; no duration posted; peptides.

ALZET Comments: Prolactin, ovine; Glycerol; heparin, porcine sodium; sodium azide; IV (external jugular); IV (hepatic portal); Rat; 2001; no duration posted; Functionality of mp verified by serum RIA; stability verified by incubation in pumps in vitro at 37 degrees celsius for 2 days, data given out to 6 days; 5 doses of prolactin infused; 250 U/ml porcine, sodium heparin used; animal info (Long-Evans, F).

ALZET Comments: Prolactin; Heparin; Sodium bicarbonate; Sodium chloride; IV (jugular); IV (hepatic portal); Rat; 2001; 7 days; Animal info (SD, F, 175-225 g); 50 U/ml of heparin.

ALZET Comments: Prolactin, ovine; Glycerol; Sodium azide; IV (jugular); IV (hepatic portal); Rat; 2 weeks; pulse delivery; peptides.

ALZET Comments: Atrial natriuretic factor; cholecystokinin; Granulocyte-colony stimulating factor.; glucagon; insulin; interleukin-2; interleukin-3; melatonin; nerve growth factor; neurotensin; prolactin; theophylline; CSF/CNS; IA (femoral); intrasplenic; IP; SC; no duration posted; peptides; ALZA-authored, review of peptide delivery issues and applications; tissue perfusion (spleen).

ALZET Comments: Prolactin; Sodium bicarbonate; SC; bird (ptarmigan); 2001; 6 days; pumps replaced after 6 days; flow calculated for birds' higher body temp. to be 1.15 ul/hr; peptides.

ALZET Comments: Growth hormone, human; Prolactin, ovine; Saline; SC; Rat; 2001; 7 days; controls received sham surgery; comparison of sc injections vs. mp infusion; replacement therapy (hypophysectomy); peptides.

ALZET Comments: Growth hormone, bovine; Growth hormone, human; Prolactin, ovine; Glycerol; PBS; Saline; Sodium azide; Water; SC; Rat; 2001; 6 days; comparison of sc injections 2x daily vs. mp infusion; replacement therapy (gonadectomy and hypophysectomy); peptides.

ALZET Comments: Growth hormone, murine; Prolactin, murine; Prolactin, bovine; Saline; SC; mice (pregnant); 2001; no duration posted; controls received mp w/saline; dose-response; comparison of sc injections vs. mp infusion; replacement therapy (hypophysectomy); peptides.


ALZET Comments: Growth hormone, bovine; Prolactin, ovine; Glycerol; Sodium bicarbonate; Water; SC; Rat; 2ML1; 4 days; functionality of mp verified by serum levels; peptides.


ALZET Comments: Growth hormone, human; Prolactin, ovine; Prolactin, rat; 2001; 7 days; comparison of sc injections vs. mp infusion; replacement therapy (hypophysectomy); peptides.


ALZET Comments: Prolactin, ovine; Glycerol; Sodium bicarbonate; SC; Rat; 2001; 7, 20 days; controls received mp sized tubing; concomitant infusion of agents; 2001 replaced w/ 2002 after 7 days; 2-AAF suppl.; peptides; cancer.


ALZET Comments: Growth hormone, human; Insulin-like growth factor I; Prolactin, ovine; Saline, heparinized; IA (femoral); Rat; 2002; 14 days; controls were untreated; mp connected to catheter in femoral artery; replacement therapy (hypophysectomy); local IA infusion; peptides.

P1151: A. Blanck, et al. Growth hormone modifies the growth rate of enzyme-altered hepatic foci in male rats treated according to the resistant hepatocyte model. Carcinogenesis 1987;8(11):1585-1588

ALZET Comments: Growth hormone, bovine; Prolactin, ovine; SC; Rat; 2001; 2-5 days; controls received mp w/saline; teratology; pumps implanted on postpartum day 2; half of mp group received bromocriptine treatment also; peptides.


ALZET Comments: Growth hormone, rat; Prolactin, ovine; Glycerol; Sodium azide; IA (superior vesicle); Rat; 2001; 7 days; replacement therapy (hypophysectomy); mp connected to catheter in superior vesicle artery; detailed description and diagram of catheter apparatus; constant and pulsed delivery of GH; peptides.

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Bibliography

ALZET Comments: Prolactin, ovine; Saline; IP; Rat; 2001; 7 days; dose-response (plasma levels); various doses of agent infused; oPRL half-life; peptides.

ALZET Comments: Prolactin, rat; Saline; SC; Rat; 2001; 7 days; 6-OHDA lesions in left substantia nigra; peptides.

ALZET Comments: Prolactin, rat; Saline; SC; Rat; 2001; 7 days; peptides.

ALZET Comments: Prolactin, ovine; Saline; SC; Rat; 2001; 6 days; controls received mp w/saline; dose-response; peptides.

ALZET Comments: Corticosterone; Epinephrine; Norepinephrine; Prolactin, ovine; Ethanol; Sodium chloride; Water; IP; Rat; 2001; 7 days; replacement therapy (adrenalectomy); separate and simultaneous infusion of agents; multiple pumps per animal (2) for CORT; hypertension; controls received mp w/NaCl; peptides.

P0639: C. C. W. Mick, et al. Prolactin directly stimulates the liver in vivo to secrete a factor (synlactin) which acts synergistically with the hormone. Endocrinology 1985;116(5):2049-2053
ALZET Comments: Growth hormone, ovine; Prolactin, ovine; Citric acid; Glycerol; IV (hepatic portal); IV (jugular); bird (pigeon); 2001; 1 week; comparison of agents effects; citric acid added to solvent for bacteriostatic effects; pulsed delivery of hormone or solvent (intermittent w/ air); peptides; tissue perfusion.

ALZET Comments: Growth hormone, human; Growth hormone, rat; Prolactin, ovine; SC; Rat; 2001; 2ML1; 1 week; comparison of twice daily sc injec of rat GH vs. mp infusion; replacement therapy (hypophysectomy); controls received sham mp made of silicone; tubing; peptides.

ALZET Comments: Growth hormone, human; Prolactin; Saline; SC; Rat; 2001; 5-7 days; peptides.

ALZET Comments: Growth hormone, human; Growth hormone, ovine; Prolactin, ovine; mice; 49-56 days; comparison of daily sc injec. vs. mp infusion; comparison of agents effects; cancer; peptides.

ALZET Comments: Prolactin, ovine; Saline; SC; mice; 2001; 1 week; comparison of homotypic anterior pituitary grafts vs. mp prolactin infusion; dose-response data; peptides.

ALZET Comments: Growth hormone, human; Prolactin, ovine; Sodium hydroxide; Saline; SC; Rat; 2001; 1 week; vehicle used w/PRL was saline & NaOH; saline used alone as vehicle w/hGH; peptides.

ALZET Comments: Growth hormone, ovine; Growth hormone, rat; Prolactin, ovine; Prolactin, rat; Sodium hydroxide; Saline; SC; Rat; 1 week; comparison of agents effects; peptides.


ALZET Comments: Growth hormone, rat; Prolactin, rat; SC; Rat; 1 week; comparison of agents effects; replacement therapy (hypophysectomy); peptides.


ALZET Comments: Prolactin, rat; Saline; SC; Rat; 2001; 1 week; peptides.

P0318: J. Herbert, et al. The effects of intraventricular prolactin infusions on pituitary responsiveness to thyrotropin-releasing hormone, 5-hydroxytryptophan or morphine in rhesus monkeys. Brain Research 1983;258(251-262

ALZET Comments: Prolactin, ovine; Albumin, bovine serum; CSF/CNS; monkey; 2ML1; 6 days; comparison of injec. vs mp infusion; peptides.


ALZET Comments: Follitropin, rat; Thyrotropin, rat; Growth hormone, human; Growth hormone, rat; Pituitary extract; Prolactin, rat; Saline; Water; SC; Rat; 1701; 6 days; organ replacement therapy (hypophysectomy); simultaneous infusion of testosterone & estradiol implants w/ mp infusion of polypeptides; pulsed delivery of agents (intermittent w/ vehicle); peptides; ovine LH used.


ALZET Comments: Follitropin, rat; Thyrotropin, rat; Growth hormone, human; Growth hormone, rat; Pituitary extract; Prolactin, rat; Saline; Water; SC; Rat; 2 weeks; replacement therapy (hypophysectomy); peptides.


ALZET Comments: Growth hormone, human; Growth hormone, rat; Prolactin, rat; Sodium hydroxide; Saline; SC; Rat; 2 weeks; replacement therapy (hypophysectomy); peptides.

P0215: G. Norstedt. A comparison between the effects of growth hormone on prolactin receptors and estrogem receptors in rat liver. Endocrinology 1982;110(6):2107-2112

ALZET Comments: Growth hormone, human; Growth hormone, rat; Prolactin, rat; Sodium hydroxide; Saline; SC; Rat; 1 week; organ replacement therapy (hypophysectomy); intermittent injections vs. infusion; peptides.


ALZET Comments: Prolactin, ovine; Saline; SC; Rat; 7-8 days; comparison of injec vs. mp infusion; peptides.


ALZET Comments: Prolactin, ovine; Saline; IP; Mice (nude); no duration posted; replacement therapy (hypophysectomy); cancer; peptides.
ALZET Comments: Growth hormone, bovine; Prolactin, bovine; Prolactin, ovine; Sodium hydroxide; Saline; SC; Rat; 7 days; comparison of agents; organ replacement therapy (hypophysectomy); separate infusion of all hormones & simultaneous infusion of oPRL & bGH (2 pumps/animal); peptides.

ALZET Comments: Growth hormone, human; Growth hormone, rat; Prolactin, ovine; Prolactin, rat; Sodium hydroxide; Saline; SC; Rat; 7 days; replacement therapy (hypophysectomy, adrenalectomy); peptides.

ALZET Comments: Growth hormone, human; Growth hormone, rat; Prolactin, rat; Sodium hydroxide; Saline; SC; Rat; 7 days; replacement therapy (hypophysectomy); peptides.

ALZET Comments: Lergotrile mesylate; Prolactin, ovine; Vasopressin, 1-desamino-8-D arginine; Saline; IP; Rat; no duration posted; Exp. 1-3, 1701, 7 days: 1)saline, oPRL, & LM & oPRL simultaneously; 2 & 3)saline, oPRL, Vasopressin, 1-desamino-8-D arginine; 4) 2001, 7 days, saline, oPRL; peptides.

ALZET Comments: Growth hormone, human; Growth hormone, rat; Prolactin, rat; SC; Rat; 7 days; replacement therapy (hypophysectomy); peptides;

ALZET Comments: Enkephalin analog DADLE; Follicle stimulating hormone; Growth hormone, bovine; Growth hormone, rat; Pituitary extract; Prolactin, bovine; Prolactin, rat; Thyroid-stimulating hormone; Water; SC; Rat; 1701; 1 week; peptides.

ALZET Comments: Luteinizing hormone; Prolactin, bovine; Saline; IP; mink; 7 days; organ replacement therapy (hypophysectomy); peptides; ovine LH used.