References on the Administration of Oxytocin
Using ALZET® Osmotic Pumps

Agents: Estrogen receptor beta; Oxytocin; Lentivirus Vehicle: CSF, artificial; Route: CSF/CNS; Species: Mice; Pump: 2002; Duration: 2 weeks;
ALZET Comments: Animal info (Male mice, 6 weeks old); behavioral testing (Animal Behavior Test); Brain coordinates (anteroposterior (AP) = -1.4, mediolateral (ML) = ±3.5, dorsoventral (DV) = -5.1); neurodegenerative (Autism spectrum disorders);

Agents: Oxytocin Vehicle: Saline; Route: CSF/CNS (fourth ventricle); Species: Mice; Pump: 2004; Duration: 28 days;
ALZET Comments: Dose (16 nmol/day); Controls received mp w/ vehicle; animal info (Adult male C57BL/6J mice, 5.25–6.5 months old); Oxytocin aka OT; Brain coordinates (5.9 mm caudal to bregma; 0.4mm lateral to the midline, and 3.7 mm ventral to the skull surface); dental cement used;dependence;

Q9879: J. Yuan, et al. The effects of oxytocin to rectify metabolic dysfunction in obese mice are associated with increased thermogenesis. Molecular and Cellular Endocrinology 2020;514(110903
Agents: Oxytocin, synthetic Vehicle: Not stated; Route: SC; Species: Mice; Pump: 1004; Duration: 4 weeks;
ALZET Comments: Dose (100 nmol/d); animal info (4 week old male C57BL6/J mice); replacement therapy (oxytocin); dependence;

Agents: Oxytocin; Oxytocin receptor antagonist Vehicle: NaCl, Sterile; Route: CSF/CNS (intracerebral); IV; Species: Rat; Pump: 2004; Duration: 1 day;
ALZET Comments: Dose (2.4 μg/6 μL/day); 0.9% NaCl used; Controls received mp w/ vehicle; animal info (spontaneously hypertensive rats (SHR); normotensive Wistar-Kyoto, males, 250–300 g); behavioral testing (Chronic Mild Stress; Acute Alarming Stress); Blood pressure measured via tail cuff procedure;117 mmHg - 179 mmHg (SHR rat); 83 mmHg - 113 mmHg (WKY rat); Oxytocin antagonist aka OTA; dependence;

Q9550: A. Watarai, et al. The blockade of oxytocin receptors in the paraventricular thalamus reduces maternal crouching behavior over pups in lactating mice. Neuroscience Letters 2020;720(134761
Agents: Oxytocin antagonist Vehicle: Saline; Route: SC; Species: Mice; Pump: 1004; Duration: 4 weeks;
ALZET Comments: Dose (0.5 μg/μL); animal info (C57BL/6 J virgin female mice); behavioral testing (pup retrieval test); Oxytocin antagonist aka OTA; dependence;

Agents: Oxytocin, Selective Oxytocin Antagonist Vehicle: CSF artificial; Route: CNS/CSF; Species: Mice; Pump: 1004; Duration: 14 days;
ALZET Comments: Dose (OT- 40 or 100 ng, OTA- 500 ng); Controls received mp w/ vehicle; animal info (Female, Balb/C, 8 weeks or older); Oxytocin antagonist aka OTA; dependence;

Agents: Oxytocin Vehicle: Sodium Citrate; Route: SC; Species: Mice; Pump: 1004; Duration: 8 weeks;
ALZET Comments: Dose (4.22 ug/day); animal info (Male, C57BLKS/J); pumps replaced every 6 weeks; immunology;

**Agents**: Oxytocin **Vehicle**: Saline; **Route**: SC; **Species**: Rat; **Pump**: 2002; **Duration**: 14 days;

**ALZET Comments**: Dose (380 µg/day); Controls received mp w/ vehicle; animal info (Female Wistar rats); replacement therapy (effects of the chronic administration of oxytocin);


**Agents**: Oxytocin **Vehicle**: Buffered Saline; **Route**: SC; **Species**: Mice; **Pump**: Not stated; **Duration**: Not stated;

**ALZET Comments**: Dose (0.6, 6, 18 or 240 µg/day); Controls received mp w/ vehicle; animal info (Wild-type C57BL6/J mice and DBA/2 mice); replacement therapy (associations between oxytocin induced labor and mental disorders in offspring);


**Agents**: Selective oxytocin antagonist **Vehicle**: PBS; **Route**: SC; **Species**: Mice; **Pump**: Not stated; **Duration**: 5 weeks;

**ALZET Comments**: Dose (1 µg/kg/hr); animal info (C57BL/6J); Blood pressure measured via Tail Cuff Plethysmography; gene therapy;


**Agents**: Oxytocin, atosiban **Vehicle**: PBS; **Route**: SC; **Species**: Mice, Rats; **Pump**: Not stated; **Duration**: 5 weeks;

**ALZET Comments**: Dose (Oxytocin 1, 10 ng/h), (atosiban 600µg/kg/day)); animal info (adult, male); behavioral testing (elevated plus maze, light-dark box, chronic subordinate colony stress); Atosiban is an inhibitor of the hormones oxytocin and vasopressin; literature review: author lists studies where oxytocin was administered to mice and atosiban was administered to rats;


**Agents**: Oxytocin; leptin **Vehicle**: Saline; **Route**: SC; **Species**: Mice; **Pump**: Not stated; **Duration**: 2 weeks;

**ALZET Comments**: Dose (oxytocin (50 µg/day); leptin (20 or 40 µg/day)); Controls received mp w/ vehicle; animal info (Eight-week-old C57BL/6JR male mice); “Osmotic pump content was verified postmortem in order to ensure complete drug delivery.”


**Agents**: Oxytocin **Vehicle**: Saline; **Route**: CSF/CNS (Third and forth ventricle); **Species**: Rats, Mice; **Pump**: 2004; **Duration**: 28 days;

**ALZET Comments**: Dose (16 nmol/day); Controls received mp w/ vehicle; animal info (Adult male Sprague-Dawley (CD IGS) rats, Long-Evans rats, C57BL/6J mice); post op. care (Mice were treated with analgesic ketoprofen and antibiotic Baytril; Rats treated with analgesic buprenorphine sustained release and the antibiotic enrofloxacin after cannulations); delayed delivery (implanted cannula and vinyl catheter were filled with sterile saline then A stainless steel 22-gauge pin plug was inserted at the end of the tubing during a 2-wk postoperative recovery period); Obesity and diabetes;
Agents: Oxytocin Vehicle: Saline; Route: SC; Species: Mice; Pump: 2002; Duration: 10 days;
ALZET Comments: Dose (800 and 1600 μg/kg/day); animal info (HFD-fed male and female mice); Resultant plasma level (p.9);

Agents: Oxytocin Vehicle: Saline; Route: CSF/CNS (lateral ventricle); Species: Mandarin vole; Pump: 1002; Duration: 12 days;
ALZET Comments: Dose (1 or 10 ng/h); Controls received mp w/ vehicle; animal info (4 month old male mandarin voles weighing 30–34 g); behavioral testing (light-dark box testing, response to novel pups, novel social stimulus test); Brain coordinates (posterior 0.3 mm, lateral 0.8 mm, depth 0.25 mm);

Q4789: Oliver J. Bosch, et al. Oxytocin in the nucleus accumbens shell reverses CRFR2-evoked passive stress-coping after partner loss in monogamous male prairie voles. Psychoneuroendocrinology 2016;64:
Agents: Astressin-2B; stresscopin; oxytocin, synthetic; receptor antagonist, oxytocin; Vehicle: Ringer’s solution; DMSO; Route: CSF/CNS (nucleus accumbens); Species: prairie vole; Pump: 1007D; Duration: 5 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (adult, 70-100 days old); ALZET brain infusion kit 2 used; 4% DMSO used; behavioral testing (forced swim test); cyanoacrylate adhesive; delayed delivery: Astressin-2B is a CRFR2 antagonist; stresscopin is a CRFR2 agonist; bilateral infusion; Dose (Astressin-2B 1 ng/h; stresscopin 0.1 ng/h; oxytocin, synthetic 0.5 ng/hr; OT receptor antagonist 5 ng/hr); brain coordinates;

Agents: Oxytocin Vehicle: Saline; Route: SC; Species: Rat; Pump: 2002; Duration: 2 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (10 weeks old; lean rats weighed approx. 230 grams; obese rats weighed approx. 350 grams); “Delivery of oxytocin by osmotic minipumps resulted in more than 6-fold increase in plasma oxytocin concentrations.” pg 539; Rats separated 2 per cage post-op; storage, housing ; Therapeutic indication (Metabolism, insulin resistance); Dose (3.6 ug/100g body weight/day);

Agents: Oxytocin Vehicle: Saline; Route: Not Stated; Species: Rat; Pump: Not Stated; Duration: 7 days, 14 days;
ALZET Comments: Dose (0.2 mg/kg/day); Controls received mp w/ vehicle; animal info (3-4 month old male Sprague–Dawley rats);

Agents: Oxytocin Vehicle: Not Stated; Route: SC; Species: Mice (pregnant); Pump: 1003D; Duration: 3 days;
ALZET Comments: animal info (C57BL/6j WT mice, 10 weeks old); functionality of mp verified by measurements of changes in uterine pressure; Uterine contraction initiation; DSI PhysioTel Receiver used to measure uterine contractions; Dose (3 U/day);

Q4566: E. Plante, et al. Oxytocin Treatment Prevents the Cardiomyopathy Observed in Obese Diabetic Male db/db Mice. Endocrinology 2015;156(1416-1428
Agents: Oxytocin Vehicle: NaCl; BSA; sodium citrate; Route: SC; Species: Mice; Pump: 2006; Duration: 12 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (C57BL/KsJ-leptdb-leptdb); functionality of mp verified by plasma levels; pumps replaced every 6 weeks; long-term study; diabetes; “After 6 weeks, the osmotic pumps were replaced to adjust the OT concentration for body weight gain.” pg 1417;

Agents: Angiotensin II; oxytocin Vehicle: PBS; Route: SC; Species: Rat; Pump: 2004; Duration: 28 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 8-9 weeks old, 240-350g); post op. care (swabbed with 7.5% w/v iodine); cardiovascular; peptides; Dose (Ang II 40 μg/kg/h; OT 20 or 100 ng/kg/h);

Agents: Oxytocin Vehicle: Not Stated; Route: SC; Species: Mice; Pump: 2002; Duration: 12 days;

ALZET Comments: Controls received mp w/ saline; animal info (male, db/db, 11 weeks old); diabetes; obesity;


Agents: Oxytocin Vehicle: Saline; Route: CSF/CNS; Species: Rat; Pump: 1007D; Duration: 7 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Wistar, 225-250g); ALZET brain infusion kit 2 used; post op. care (SC injection of antibiotics); behavioral testing (open field test, object recognition test, elevated plus maze); used dental cement;


Agents: Oxytocin Vehicle: Ringer's solution; Route: CSF/CNS; Species: Mice; Pump: 1004; Duration: 5 days; 15 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, C57BL6, 19-22g, 30-35g); functionality of mp verified by serum oxytocin levels; post op. care (betaisodona; Baytril); behavioral testing (elevated plus maze; locomotor activity); Cannula placement verified via nissl-staining and histologic analysis; used dental cement and stainless steel screws; delayed delivery; catheter filled with vehicle for 1 week recovery;


Agents: Oxytocin Vehicle: Not Stated; Route: Not Stated; Species: Sheep; Pump: Not Stated; Duration: 90 days;

ALZET Comments: Pumps replaced every 30 days; long-term study;


Agents: Oxytocin, synthetic; antagonist, peptidergic oxytocin Vehicle: Saline, sterile, pyrogen-free; Route: CSF/CNS; Species: Rat; Pump: 1007D; Duration: 7 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Groningen, adult); ALZET brain infusion kit 2 used; behavioral testing (resident intruder test); stability verified by (pilot study; 44% destruction of OVT over 10 day period in vivo); peptides; Cannula placement verified via dye injection after sacrifice; Plastics One guide cannula; dental acrylic cement and two stainless steel screws; pumps and catheters incubated in room temperature saline overnight;


Agents: Oxytocin; carbetocin; TGOT Vehicle: Saline; Route: SC; Species: Mice; Pump: Not Stated; Duration: 14 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, C57BL/6J or ob/ob); diabetes;


Agents: Oxytocin Vehicle: Not Stated; Route: SC; Species: Rabbit; Pump: 2ML4; Duration: 4 months;

ALZET Comments: Controls received mp w/ 50M sodium citrate, pH 4; animal info (Watanabe Heritable Hyperlipidemic rabbit, 3 month old, 2.9-3.5 kg); functionality of mp verified by measuring plasma OT levels throughout study; pumps replaced every 4 weeks over 4 months; half-life OT<10 min; long-term study;


Agents: Oxytocin Vehicle: Saline, sterile; Route: SC; Species: Mice; Pump: 2002; Duration: 13 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (HFD induced, obese, 35 g, C57BL/6J, male, 6 wks old)

Agents: Vasopressin, arginine; oxytocin receptor antagonist; AVP receptor antagonist  
Vehicle: CSF, artificial;  
Route: CSF/CNS;  
Species: Rat;  
Pump: 2002;  
Duration: 10 days;  

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 6-20 wks old); peptides; ALZET brain infusion kit 2 used


Agents: Oxytocin; oxytocin receptor antagonist  
Vehicle: CSF, artificial;  
Route: CSF/CNS;  
Species: Mice;  
Pump: 1002;  
Duration: 8, 10 days;  

ALZET Comments: Controls received mp w/ vehicle; animal info (C57BL/6, adult, male, 23-30g, MCAO); Plastics One cannula used; cannula placement verified through cresyl violet staining; ischemia


Agents: Oxytocin  
Vehicle: Saline, isotonic;  
Route: SC;  
Species: Rat;  
Pump: 2002;  
Duration: 2 weeks;  

ALZET Comments: Controls received mp w/ vehicle; animal info (adult, male, Wistar, 350-480 g)


Agents: Oxytocin  
Vehicle: Not Stated;  
Route: CSF/CNS; SC;  
Species: Rat;  
Pump: 2001;  
Duration: 3, 14 days;  

ALZET Comments: Controls received mp w/ saline; animal info (male, Wistar, 300-325 g)


Agents: Secretin; oxytocin  
Vehicle: Saline;  
Route: IV (femoral); CSF/CNS;  
Species: Rat;  
Pump: 2004;  
Duration: 21 days;  

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 250-350 g)


Agents: Oxytocin; Oxytocin receptor antagonist  
Vehicle: Ringer’s solution;  
Route: CSF/CNS; SC;  
Species: Rat;  
Pump: 1007D;  
Duration: 7 days;  

ALZET Comments: Controls received mp w/ saline; animal info (male, female, HAB, LAB, Wistar, 250-350 g); behavioral testing (light-dark box, elevated plus-maze, forced swim test); cannula placement verified post mortem by injecting blue dye into the cannula


Agents: Oxytocin  
Vehicle: Sodium citrate;  
Route: SC;  
Species: Mice;  
Pump: 2006;  
Duration: 12 weeks;  

ALZET Comments: Controls received mp w/ vehicle; long-term study; pumps replaced after 6 weeks; animal info (male ApoE −/−, 11-12 wks old, 22-24 g)


Agents: Oxytocin  
Vehicle: Not Stated;  
Route: SC;  
Species: Rat;  
Pump: Not Stated;  
Duration: 3, 7 days;  

ALZET Comments: Controls received mp w/saline, or sham operation; animal info (male, Sprague Dawley, 280-370 g); myocardial infarction


Agents: Oxytocin antagonist; oxytocin  
Vehicle: Saline;  
Route: CSF/CNS;  
Species: Prairie vole;  
Pump: 1007D;  
Duration: Not Stated;  

ALZET Comments: Controls received mp w/vehicle; animal info (female, 75-80 days old); plastics one cannula used; behavioral testing (same sex partner preference)
Agents: Oxytocin Vehicle: Saline; Route: SC; Species: Pig; Pump: 2ML4; Duration: 21 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (domestic, Yorkshire-Landrace, castrated, male, 21-29 kg)

Agents: Vasopressin, 1-desamino-8-D-arginine; Oxytocin Vehicle: Not Stated; Route: SC; Species: Rat; Pump: 2002; Duration: 4 days;
ALZET Comments: Controls received mp w/ saline; animal info (male, Sprague Dawley, 80-100 g.)

Agents: Oxytocin Vehicle: Not Stated; Route: CSF/CNS; Species: Mice; Pump: Not Stated; Duration: 5 days;
ALZET Comments: Animal info (male female, OT-/-, Otr-/-)

Agents: Oxytocin antagonist Vehicle: Saline; Route: IV (jugular); Species: Rat; Pump: 2001D; Duration: Not Stated;
ALZET Comments: Controls received mp w/ vehicle; animal info (female, Sprague Dawley, 60 days old, 250-300 g.)

Agents: Oxytocin Vehicle: PBS; Route: SC; Species: Mice (pregnant); Pump: 1007D; Duration: Not Stated;
ALZET Comments: Controls received mp w/ vehicle; animal info (P-lap KO, wt)

Agents: Oxytocin Vehicle: Saline, sterile; Route: CSF/CNS; Species: Rat (pregnant); Pump: 2001D; Duration: 7 days;
ALZET Comments: Controls received mp w/ vehicle; replacement therapy (ovariectomy); ALZET brain infusion kit used; animal info (female, Sprague-Dawley, 250-300g.)

Agents: Oxytocin antagonist Vehicle: Saline, sterile; Route: IV (jugular); Species: Rat; Pump: 2001D; Duration: 24 hours;
ALZET Comments: Controls received mp w/ vehicle; replacement therapy (ovariectomy); animal info (female, Sprague Dawley, 200-250g); endocrinology

Agents: Oxytocin antagonist; oxytocin antagonist, desGly-

Vehicle: Not Stated; Route: CSF/CNS; Species: Rat; Pump: 1007D; Duration: 5 days;

ALZET Comments: Controls received mp w/ saline; replacement therapy (ovariectomy); ALZET brain infusion kit used; peptides; animal info (female, Sprague-Dawley, 225-250g.); mp primed overnight in isotonic saline


Agents: Secretin; oxytocin Vehicle: Saline; Route: IV (femoral); Species: Rat; Pump: 2002; Duration: 20 days;

ALZET Comments: Controls received mp w/ vehicle; post op. care (Bacitracin); animal info (male, Sprague-Dawley, 250-450 grams); autism


Agents: Oxytocin Vehicle: Saline; Route: IP; Species: Rat; Pump: 2002; Duration: 8 days;

ALZET Comments: Controls received mp w/ vehicle; functionality of mp verified by plasma oxytocin levels; animal info (male, Brattleboro, Long-Evans, 9-10 wk old); vasopressin agonist


Agents: Oxytocin Vehicle: Not Stated; Route: CSF/CNS (intrathecal); Species: Rat; Pump: 2002; Duration: 2 weeks;

ALZET Comments: Controls received mp w/ vehicle; comparison of intrathecal injections vs. mp


Agents: Oxytocin; vasopressin Vehicle: Saline; Route: CSF/CNS; Species: Rat; Pump: 1007D; Duration: 7 days;

ALZET Comments: Controls received mp w/ vehicle; ALZET brain infusion kit; peptides; dental cement used


Agents: Oxytocin Vehicle: Not Stated; Route: IP; Species: Mice (nude); Pump: 2002; Duration: 2 weeks;

ALZET Comments: Controls received w/ physiological saline; no stress (see pg.530); cancer (ovarian carcinoma)


Agents: Eticlopride; oxytocin; oxytocin receptor antagonist Vehicle: CSF, artificial; Route: CSF/CNS; Species: Prairie vole; Pump: 1007D; Duration: 7 days;

ALZET Comments: Plastics One cannula; eticlopride is a D1 and D2 receptor antagonist


Agents: Oxytocin antagonist Vehicle: Not Stated; Route: Not Stated; Species: Mice; Pump: Not Stated; Duration: 5 days;

ALZET Comments: Pumps mentioned on p.224; review of studies in oxytocin knockout mice


Agents: Oxytocin receptor antagonist Vehicle: Saline; Route: IV (jugular); Species: Rat; Pump: 2001; Duration: Not Stated;

ALZET Comments: Controls received mp w/saline


Agents: F314; Oxytocin Vehicle: Not Stated; Route: Not Stated; Species: Rat; Mice; Pump: Not Stated; Duration: 14 days;

ALZET Comments: Controls received mp w/saline; F314 is an oxytocin-analog; oxytocin pellets used in some animals; cancer, immunology

**Agents:** Oxytocin; Oxytocin receptor antagonist  
**Vehicle:** CSF, artificial  
**Route:** SC; CSF/CNS  
**Species:** Prairie vole  
**Pump:** 1007D  
**Duration:** Not Stated  

**ALZET Comments:** Controls received mp with aCSF; peptides; antagonist was OTA (d(CH2)5-[Tyr(me)2,Thr4,Try-NH2,9]; oxytocin given singly or concomitantly with antagonist


**Agents:** Vasopressin, arginine; Oxytocin  
**Vehicle:** Not Stated  
**Route:** CSF/CNS  
**Species:** Prairie vole  
**Pump:** Not Stated  
**Duration:** 48 hours  

**ALZET Comments:** Controls received mp w/ vehicle; cannula secured w/ dental cement


**Agents:** Oxytocin, [Pen1,Phe(me)2,Thyr4,Orn8]-  
**Vehicle:** Acetic acid  
**Route:** Not Stated  
**Species:** Rat  
**Pump:** 1003D  
**Duration:** Not Stated  

**ALZET Comments:** Controls received saline via injections and/or mp; [Pen1,Phe(me)2,Thyr4,Orn8]-oxytocin is a selective oxytocin and V1a-receptor antagonist


**Agents:** Oxytocin  
**Vehicle:** Sodium chloride; Acetic acid  
**Route:** SC; Intrauterine  
**Species:** Sheep  
**Pump:** 2ML1  
**Duration:** Not Stated  

**ALZET Comments:** Controls received mp w/ vehicle; tissue perfusion (uterus); functionality of mp verified by in vitro analysis and RIA of plasma levels; peptides; intrauterine infusion less effective than systemic infusion in reduction of endometrial oxytocin receptor concentration


**Agents:** Oxytocin  
**Vehicle:** Not Stated  
**Route:** CSF/CNS  
**Species:** Rat  
**Pump:** 2002  
**Duration:** Not Stated  

**ALZET Comments:** Controls received mp with aCSF; stability verified by RDA; 44% destruction after 10 days in vivo; peptides


**Agents:** Oxytocin  
**Vehicle:** Not Stated  
**Route:** CSF/CNS  
**Species:** Rat  
**Pump:** 2002  
**Duration:** 10 days  

**ALZET Comments:** comparison of b.i.d. injections vs. mp; stability information given for 10 days of infusion in vivo; controls received mp w/vehicle; hypophysectomy - excision or destruction of hypophysis cerbri; replacement therapy (lesion in paraventricular nucleus of hypothalamus); comparison of icv injections vs pumps; peptides; stability; “assay of pump contents revealed about 44% destruction of oxytocin over a 10 day period in vivo” p. 2603; “due to the short half-life of oxytocin... the injection study... provided insufficient stimulus to down-regulate oxytocin receptors." p. 2604; replacement therapy (lesion in PVN of hypothalamus); comparison of ICV injections vs. mp; peptides


**Agents:** Oxytocin  
**Vehicle:** Saline; Acetic acid  
**Route:** SC  
**Species:** Sheep  
**Pump:** 2001, 2ML2  
**Duration:** 12 days  

**ALZET Comments:** Controls received mp with saline or no treatment; functionality of mp verified by plasma levels; peptides


**Agents:** Oxytocin antagonist; Oxytocin; Vasopressin antagonist  
**Vehicle:** Not Stated  
**Route:** SC  
**Species:** Rat  
**Pump:** 2001  
**Duration:** Not Stated  

**ALZET Comments:** 4 doses of oxytocin infused, some animals received 2 pumps
Agents: Oxytocin Vehicle: Saline; Route: SC; Species: Cattle; Pump: 2ML2; Duration: Not Stated;
ALZET Comments: Controls received mp w/ saline; functionality of mp verified by RIA analysis of plasma levels; comparison of jugular infusion by computer-controlled pump; peptides

Agents: Antibody, anti-oxytocin; Antibody, anti-vasopressin, arginine; Oxytocin, 2-phenylalanine, 8-ornithine; Serum, rabbit;
Oxytocin; Vasopressin, 1-desamino-8-D arginine; Vasopressin, arginine Vehicle: CSF, artificial; Route: CSF/CNS; Species: Rat;
Pump: 2002; Duration: 9, 10 days;
ALZET Comments: dose-response; functionality of mp verified by plasma levels; peptides

Agents: Oxytocin, desamino-; Oxytocin; Prostaglandin F2a Vehicle: Saline; Route: IP; Species: Rat; Pump: 2001; Duration: 5 days;
ALZET Comments: peptides

Agents: Oxytocin; Vasopressin antagonist; Vasopressin, arginine Vehicle: Saline; Route: IP; Species: Rat; Pump: 2001; Duration: 7 days;
ALZET Comments: controls received mp w/vehicle; peptides; concomitant infusion of AVP w/antagonist and oxytocin w/antagonist; functionality of mp verified

Agents: Oxytocin Vehicle: Chlorobutanol; Saline; Route: Intraovarian (corpus luteum); Species: Monkey; Pump: 2001;
Duration: 1 week;
ALZET Comments: Tissue perfusion (ovarian - corpus luteum); methods/surgery p. 402; value of mp p. 403; pumps were left in place up to 10 days; peptides

Agents: Oxytocin; Vasopressin, arginine Vehicle: Not Stated; Route: SC; Species: Rat; Pump: Not Stated; Duration: 10 days;
ALZET Comments: peptides