
Agents: Dexamethasone Vehicle: PBS; Route: SC; Species: Mice; Pump: 1004; Duration: 28 days;
ALZET Comments: Dose (100 ng/cc); Controls received mp w/ vehicle; animal info (4-6 weeks old, female, Balb/C); dependence; “Silk catheters were affixed to the pumps” pg503;

Agents: Dexamethasone Vehicle: PBS; Route: SC; Species: Mice; Pump: 1004; Duration: 28 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (4-6 weeks old, female, Balb/C); dependence;

Agents: Angiotensin II; Aldosterone; Dexamethasone Vehicle: Not Stated; Route: SC; Species: Mice; Pump: 2002; Duration: 7 days;
ALZET Comments: Dose ((AngII 400 μg/kg/day), (aldosterone 0.1μg/day), (dexamethasone 12 μg/kg/day)); Controls received mp w/ vehicle; animal info (8-14 weeks, male, C57BL/6J or PDS-/-); replacement therapy (aldosterone, dexamethasone; adrenalectomy); Vehicle used but identity not stated. All minipumps contained dexamethasone for glucocorticoid replacement;

Agents: Dexamethasone Vehicle: Ethanol; Route: SC; Species: Rat; Pump: 2ML1; Duration: 7 days;
ALZET Comments: Dose (200 μg/kg/day); 10% ethanol used; Controls received mp w/ vehicle; animal info (Sprague Dawley, 8-10 weeks old); gene therapy;

Agents: Dexamethasone 21-phosphate disodium salt Vehicle: Not Stated; Route: IV (lateral saphenous vein); Species: Sheep (pregnant); Pump: 2ML1; Duration: 48 hours;
ALZET Comments: Dose (0.48 mg/h);

Agents: Dexamethasone acetate Vehicle: Not Stated; Route: SC; Species: Rats (pregnant); Pump: Not Stated; Duration: 7 days;
ALZET Comments: Dose (200 μg/kg maternal body weight/day); Controls received mp w/ vehicle;

Q6754: S. Raitsin, et al. Subchronic glucocorticoids, glutathione depletion and a postpartum model elevate monoamine oxidase a activity in the prefrontal cortex of rats. Brain Research 2017;1666(1-10
Agents: Dexamethasone Vehicle: Saline; Route: SC; Species: Rat; Pump: 2ML4; Duration: 28 days;
ALZET Comments: Dose (0.0, 0.05,0.5, and 2.0 mg/kg/day ); Controls received mp w/ vehicle; animal info (Male Sprague Dawley rats (325–375 g));

Agents: Glucagon-like peptide-1, Dexamethasone Vehicle: Saline; Route: CSF/CNS; Species: Mice; Pump: 1002; Duration: 14 days;

**Agents:** Dexamethasone  
**Vehicle:** Saline;  
**Route:** Species: Mice;  
**Pump:** Not Stated;  
**Duration:** 2 weeks;

**ALZET Comments:** Dose (23.0 mg per day); Controls received mp w/ vehicle; animal info (9- week-old male C57BL/6 mice); Industry authored (Regeneron Pharmaceuticals);


**Agents:** Dexamethasone  
**Vehicle:** Saline; DMSO;  
**Route:** SC;  
**Species:** Guinea pig;  
**Pump:** 2ML1;  
**Duration:** 3 days; 7 days;

**ALZET Comments:** Dose (2.59 mg/kg for 3-day, 2.32 mg/kg for 7-day); animal info (21 female Hartley guinea pigs aged; 8 weeks; 350–450 g);

**Q4838:** H. JIA, et al. PREVENTION OF TRAUMA-INDUCED COCHLEAR FIBROSIS USING INTRACOCHLEAR APPLICATION OF ANTI-INFLAMMATORY AND ANTIPROLIFERATIVE DRUGS. neuroscience 2016;316(261- 278

**Agents:** Dexamethasone; Ara-C  
**Vehicle:** Perilymph, artificial;  
**Route:** Ear (cochlea);  
**Species:** Rat;  
**Pump:** 2001;  
**Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (Wistar, adult); animal info (Wistar, adult); stability verified by (incubation in 37C saline for 7 days see pg 268); one cochlea received vehicle only, while other recieved drug;

**Q4646:** B. A. Williams, et al. Multimodal Perineural Analgesia with Combined Bupivacaine-Clonidine-Buprenorphine-Dexamethasone: Safe In Vivo and Chemically Compatible in Solution. PAIN MEDICINE 2015;16(186-198

**Agents:** Bupivacaine; clonidine; dexamethasone  
**Vehicle:** Saline;  
**Route:** CSF/CNS (sciatic nerve);  
**Species:** Rat;  
**Pump:** 2ML1;  
**Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (male, albino, CD[SD]); no stress (see pg. 192); post op. care (IM butorphanol tartrate 0.05 mg/kg, ceftiofur sodium 5 mg/kg); stability verified by (pg. 195); used polyurethane catheter 0.5mm ID 0.9 mmOD; pumps removed after 1 week; dose (66.6 ug/mL)


**Agents:** Dexamethasone  
**Vehicle:** Saline;  
**Route:** Ear (cochlea);  
**Species:** Guinea pig;  
**Pump:** 1007D;  
**Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (Long Evans); spinal co rd injury; post op. care (ketoprofen 0.3 ml of 10 mg/ml injection, saline administration 1-2 times daily); behavioral testing (Open field testing); “Subdural infusion of dexamethasone, a powerfully anti-inflammatory, stable, synthetic analogue of glucocorticoids, allowed for circumvention of the blood-brain barrier and apparently for achieving a sufficiently high concentration of this drug in the...
cerebrospinal fluid in proximity of the crush lesion to prevent severe, phagocyte-rich inflammation." pg 48; used rat IT catheter; dose: 2 mg/ml


**Agents:** Dexamethasone sodium phosphate; corticosterone  
**Vehicle:** Saline;  
**Route:** SC;  
**Species:** Mice (pregnant);  
**Pump:** 1003D;  
**Duration:** 60 hours;

**ALZET Comments:** Controls received mp w/ saline; animal info (female, E12.5, C57Bl6J, 8-10 weeks old); teratology; cardiovascular;

**Q3668:** K. Terada, *et al.* Fluvoxamine moderates reduced voluntary activity following chronic dexamethasone infusion in mice via recovery of BDNF signal cascades. NEUROCHEMISTRY INTERNATIONAL 2014;69(1394-1410

**Agents:** Dexamethasone  
**Vehicle:** Saline;  
**Route:** SC;  
**Species:** Mice;  
**Pump:** Not Stated;  
**Duration:** 14 days;

**ALZET Comments:** Controls received mp w/ vehicle; behavioral testing (spontaneous locomotor activity; forced swim test); "our chronic infusion model captures aspects of chronic stress loads and reduces experimental error" pg 11; depression animal model; 0.5 mg/kg/day


**Agents:** Dexamethasone  
**Vehicle:** Not Stated;  
**Route:** SC;  
**Species:** Rat (pregnant);  
**Pump:** Not Stated;  
**Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (female, Sprague Dawley OFA, gestational day 14); teratology; pumps used to induce intrauterine growth restriction; dose: 100 ug/kg/day

**Q4033:** D. R. Overby, *et al.* Ultrastructural Changes Associated With Dexamethasone-Induced Ocular Hypertension in Mice. INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE 2014;55(922-933

**Agents:** Dexamethasone  
**Vehicle:** Cyclodextrin; PBS;  
**Route:** SC;  
**Species:** Mice;  
**Pump:** 1004;  
**Duration:** 3 weeks; 4 weeks;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (male, C57BL6J, 10-14 weeks); functionality of mp verified by serum plasma levels; post op. care (carpofen or buprenorphine given 12 hours after surgery); solutions were sterile-filtered using 0.22-um inline syringe filter; used Tissue Bond glue to close incision;

**Q3985:** G. Malkoc, *et al.* Histopathological and audiological effects of mechanical trauma associated with the placement of an intracochlear electrode, and the benefit of corticosteroid infusion: prospective animal study. Journal of Laryngology and Otology 2014;128(702-708

**Agents:** Dexamethasone  
**Vehicle:** Saline;  
**Route:** Ear (round window);  
**Species:** Rat;  
**Pump:** Not Stated;  
**Duration:** 14 days;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (female, Albino, 250-33g, adult); used ALZET IT catheter to cannulate round window; "Dexamethasone infusion given after implantation of the intracochlear model electrode was more effective for preventing hearing loss than the administration of just one dose of dexamethasone" pg 702;

**Q3501:** R. Hatano, *et al.* Glucocorticoid mediates the transcription of OAT-PG, a kidney-specific prostaglandin transporter. PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY 2014;466(925-935

**Agents:** Dexamethasone  
**Vehicle:** Not Stated;  
**Route:** SC;  
**Species:** Rat;  
**Pump:** 2002;  
**Duration:** 7 days;

**ALZET Comments:** Controls received mp w/ saline; animal info (Sprague Dawley Rats, 180-250g); replacement therapy (adrenalectomy);

**Q3439:** P. Chimin, *et al.* Chronic glucocorticoid treatment enhances lipogenic activity in visceral adipocytes of male Wistar rats. ACTA PHYSIOLOGICA 2014;211(409-420

**Agents:** Dexamethasone  
**Vehicle:** Saline;  
**Route:** SC;  
**Species:** Rat;  
**Pump:** 1004;  
**Duration:** 4 weeks;

**ALZET Comments:** Controls received mp w/ vehicle; animal info (male, Wistar, 10 weeks old); diabetes;

**Q3136:** E. M. Thompson, *et al.* Inhibition of SUR1 Decreases the Vascular Permeability of Cerebral Metastases. NEOPLASIA 2013;15(5):535-543
Agents: Glyburide; dexamethasone Vehicle: DMSO; saline; Route: SC; Species: Rat (nude); Pump: 2002; Duration: Not Stated;
ALZET Comments: Controls received mp w/ vehicle; animal info (rnu/rnu); cancer (brain tumor/metastases); Glyburide aka glibenclamide;

Q2758: V. Proserpio, et al. The methyltransferase SMYD3 mediates the recruitment of transcriptional cofactors at the myostatin and c-Met genes and regulates skeletal muscle atrophy. GENES & DEVELOPMENT 2013;27(11):1299-1312

Agents: Dexamethasone Vehicle: Not Stated; Route: SC; Species: Mice; Pump: 1004; Duration: 4 weeks;
ALZET Comments: Controls received mp w/ vehicle; animal info (C57BL/6 D3R -/-, male, 8-12 wks old)


Agents: Dexamethasone Vehicle: Cyclodextrin; PBS; Route: SC; Species: Mice; Pump: 1003D; Duration: 60 hours;
ALZET Comments: Controls received mp w/ vehicle; animal info (Sprague Dawley, male, 200-225 g; PE tubing used)

Q3587: B. A. O’Connell, et al. Treatment of pregnant spiny mice at mid gestation with a synthetic glucocorticoid has sex-dependent effects on placental glycogen stores. PLACENTA 2013;34(10):932-940

Agents: Dexamethasone Vehicle: Saline; Route: SC; Species: Mice (pregnant); Pump: 1003D; Duration: 72 hours;
ALZET Comments: Controls received mp w/ vehicle; animal info (female, spiny mouse, day 20 gestation); teratology; pumps removed after 72 hours;


Agents: Dexamethasone Vehicle: Not Stated; Route: Not Stated; Species: Rat; Pump: Not Stated; Duration: Not Stated;
ALZET Comments: Animal info (Sprague Dawley, OFA, male, female, 275-350 g);


Agents: Dexamethasone Vehicle: NaCl; Route: CSF/CNS; Species: Rat; Pump: Not Stated; Duration: 2, 3 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (Sprague Dawley, male, 200-225 g, Wistar, male, 200-225 g); PE tubing used


Agents: Dexamethasone sodium phosphate Vehicle: Not Stated; Route: Not Stated; Species: Mice; Pump: Not Stated; Duration: Not Stated;
ALZET Comments: Animal info (Sprague Dawley, OFA, male, female, 275-350 g);


Agents: Dexamethasone Vehicle: Not Stated; Route: Not Stated; Species: Mice; Pump: Not Stated; Duration: 21 days;
ALZET Comments: Animal info (MNK1, MNK2, MNK1/2 KO)

<table>
<thead>
<tr>
<th>Agents</th>
<th>Vehicle</th>
<th>Route</th>
<th>Species</th>
<th>Pump</th>
<th>Duration</th>
<th>ALZET Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dexamethasone; imiquimod</td>
<td>Not Stated</td>
<td>IA (carotid)</td>
<td>Rabbit</td>
<td>2ML1</td>
<td>3, 7 days</td>
<td>Animal info (male, New Zealand, white, 2.5-4.0 kg); one group contained mixture of dexamethasone and imiquimod</td>
</tr>
<tr>
<td>Tetrodotoxin; dexamethasone</td>
<td>Not Stated</td>
<td>CSF/CNS (sciatic nerve)</td>
<td>Mice</td>
<td>2002</td>
<td>Not Stated</td>
<td>Good methods, pg 133</td>
</tr>
<tr>
<td>Gentamicin; dexamethasone; melatonin</td>
<td>Not Stated</td>
<td>Ear (round window)</td>
<td>Rat</td>
<td>2ML2</td>
<td>8 days</td>
<td>Controls received mp w/ saline; animal info (male, Sprague Dawley, 15 wks old, 300 g); replacement therapy (adrenalectomy); blood pressure measured via tail-cuff (Kent Scientific)</td>
</tr>
<tr>
<td>Dexamethasone; aldosterone; angiotensin II</td>
<td>Not Stated</td>
<td>Not Stated</td>
<td>Rat</td>
<td>2004</td>
<td>8 weeks</td>
<td>Controls received mp w/ vehicle; animal info (male, Wistar-Kyoto, 160-183 g, uninephrectomy, bilateral adrenalectomy); long-term study; pumps replaced after 4 weeks; blood pressure (SBP) was measured by tail plethysmography (BP-98A; Softron Co., Tokyo, Japan)</td>
</tr>
<tr>
<td>Dexamethasone</td>
<td>Not Stated</td>
<td>SC</td>
<td>Mice (pregnant)</td>
<td>1003D</td>
<td>Not Stated</td>
<td>Controls received mp w/ saline; animal info (spiny, female)</td>
</tr>
<tr>
<td>Dexamethasone</td>
<td>DMSO; ethanol; water</td>
<td>SC</td>
<td>Rat</td>
<td>2ML1</td>
<td>7 days</td>
<td>Controls received mp w/ vehicle; animal info (Wistar, female, adult, 250-350 g); 50% DMSO used; 15% ethanol used; post op. care (buprenorphine)</td>
</tr>
<tr>
<td>Dexamethasone</td>
<td>Not Stated</td>
<td>Not Stated</td>
<td>Mice (pregnant)</td>
<td>1003D</td>
<td>Not Stated</td>
<td>Controls received mp w/ saline; animal info (E12.5, C57BL/6)</td>
</tr>
<tr>
<td>Dexamethasone</td>
<td>Not Stated</td>
<td>Not Stated</td>
<td>Mice (pregnant)</td>
<td>1003D</td>
<td>Not Stated</td>
<td>Controls received mp w/ saline; animal info (E12.5, C57BL/6)</td>
</tr>
<tr>
<td>Apolipoprotein E</td>
<td>Not Stated</td>
<td>SC</td>
<td>Mice (pregnant)</td>
<td>1003D</td>
<td>Not Stated</td>
<td>Controls received mp w/ saline; animal info (E12.5, C57BL/6)</td>
</tr>
</tbody>
</table>

Q2413: D. I. Carrasco, et al. Motor terminal degeneration unaffected by activity changes in SOD1(G93A) mice; a possible role for glycolysis. NEUROBIOLOGY OF DISEASE 2012;48(1):132-140


Agents: Dexamethasone; apolipoprotein E (130-149), mimetic  
Vehicle: Not Stated  
Route: Not Stated  
Species: Mice  
Pump: 2004  
Duration: 3 weeks  
ALZET Comments: Controls received mp w/ apolipoprotein E scrambled, or saline; animal info (female A/J, C57BL/6, apo E-/-, LDLR-/-, 6-8 wk old); peptides;  
Agents: Dexamethasone; testosterone  
Vehicle: Propylene glycol  
Route: Not Stated  
Species: Rat  
Pump: Not Stated  
Duration: 7 days  
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Wistar, 250 g.)  
Q1603: N. A. Whitlock, et al. Increased Intraocular Pressure in Mice Treated with Dexamethasone. INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE 2010;51(12):6496-6503  
Agents: Dexamethasone  
Vehicle: PBS  
Route: SC  
Species: Mice  
Pump: 1004  
Duration: 4 weeks  
ALZET Comments: Controls received mp w/ vehicle; animal info (B6.129, 10-13 wks old), post op. care (buprenorphine);  
Agents: Dexamethasone  
Vehicle: Cyclodextrin, 2-hydroxypropyl-b-  
Route: SC  
Species: Pig (mini)  
Pump: 2004; 2ML4  
Duration: 28 days  
ALZET Comments: Controls received mp w/ normal saline; animal info (Yucatan, adult, 60-70 kg); functionality of mp verified by opening and inspecting the pump; dose-response; multiple pumps per animal (2); Fig 1, image of biosensor array with ALZET pump  
Agents: Dexamethasone; ICG-001  
Vehicle: Saline  
Route: SC  
Species: Mice (transgenic)  
Pump: 2001  
Duration: 10, 21 days  
ALZET Comments: Controls received mp w/ vehicle; animal info (C57BL/6, BAT-gal transgenic);  
Agents: Dexamethasone  
Vehicle: DMSO  
Route: SC  
Species: Mice  
Pump: 2002  
Duration: 2 weeks  
ALZET Comments: Comparison of SC injections vs. mp; cardiovascular; animal info (male, female, wt, MuRF1 -/ -, 12-15 wks old); murine cardiac atrophy model; "osmotic pump experiments demonstrated a greater overall atrophy than the daily dexamethasone injections." (p. H1004)  
Agents: Aldosterone; dexamethasone  
Vehicle: Not Stated  
Route: SC  
Species: Rat  
Pump: 2ML4  
Duration: 17 days  
ALZET Comments: Controls received mp w/ both agents; replacement therapy (adrenalectomy); animal info (male, Sprague Dawley, 6 wks old, 200-250 g.; 52 wks old, 650-700 g.); nephrology  
Agents: Testosterone; dexamethasone  
Vehicle: Propylene glycol  
Route: Not Stated  
Species: Rat  
Pump: Not Stated  
Duration: 1, 7 days  
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Wistar, 250 g.)
Agents: Dexamethasone base Vehicle: Perilymph, artificial; Route: Ear (scala tympani); Species: Guinea pig; Pump: 2001; Duration: 8 days;
ALZET Comments: Controls received mp w/ vehicle; replacement therapy (cochleostomy); tissue perfusion (scala tympani); animal info (pigmented, 250-300 g.)

Agents: Cisplatin; Sodium thiosulfate; Brain-derived neurotrophic factor; Fibroblast growth factor; D-JNKI-1; BN82270; Tetrodotoxin; Perilymph, artificial; Dexamethasone; Methylprednisolone; Caroverine; Methionine, D-; Thiourea; Liposome, cationic; Neomycin Vehicle: Not Stated; Route: SC; Ear (round window membrane); Ear (cochlea); Ear (scala tympani); Ear;
Species: Guinea pig; Pump: Not Stated; Duration: 3, 7, 14, 28 days;
ALZET Comments: Gene therapy; peptides; no stress; enzyme inhibitor (peroxidase); stress/adverse reaction (see pg 1593) "Ref #161 found local trauma and inflammatory responses"; tissue perfusion (scala tympani, cochlea, round window membrane); comparison of middle ear injections vs. mp; Review, see pgs. 1587 - 1589, 1591, 1593 - 1595, refs #49, 50, 60, 63, 72, 75, 102, 104,180, 181, 194-201

Agents: Methotrexate; dexamethasone Vehicle: CSF, artificial; PBS; Route: CSF/CNS (intrathecal); Species: Rat; Pump: Not Stated; Duration: 7, 14 days;
ALZET Comments: Controls received mp w/ vehicle; dose-response (fig. 7); comparison of IP injections vs. mp; enzyme inhibitor (dihydrofolate reductase); animal info (male, Sprague Dawley, 160-200 g., SNI); behavioral testing (paw withdrawal, mechanical allodynia, cold allodynia); "sustained intrathecal treatment may therefore suppress microglial activation much more efficiently than intermittent high-dose bolus injections." (p. 140)

Agents: Dexamethasone; agmatine Vehicle: Saline; Route: SC; Species: Rat; Pump: Not Stated; Duration: 7, 21 days;
ALZET Comments: Controls received mp w/ vehicle; dose-response (fig. 4); animal info (male, Sprague-Dawley, 250-300g); "One advantage of this study is the use of osmotic mini-pump... to ensure consistent elevations over 24-h cycle (sic)." (p. 1818)

Agents: Morphine; dexamethasone Vehicle: Not Stated; Route: CSF/CNS (intrathecal); Species: Rat; Pump: 2001; Duration: 5 days;
ALZET Comments: Animal info (male, Wistar, 350-370 grams)

Agents: Aldosterone; dexamethasone Vehicle: DMSO; Route: Not Stated; Species: Rat; Pump: 2ML1; Duration: 6 days;
ALZET Comments: Controls received mp w/ vehicle; functionality of mp verified by plasma concentrations; replacement therapy (adrenalectomy); animal info (male, Munich-Wistar, 200-250 grams); endocrinology

Agents: Fas ligand; etoposide; dexamethasone Vehicle: CSF, artificial; Route: CSF/CNS (intratumoral); Species: Rat (nude); Pump: 1002; Duration: 15 days;
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Bibliography

ALZET Comments: Tissue perfusion (tumor); functionality of mp verified by residual volume; cancer (glioblastoma); animal info (female 2 months old, 159 g.)

Agents: Dexamethasone Vehicle: Not Stated; Route: SC; Species: Mice (pregnant); Pump: 1003D; Duration: 60 hours;
ALZET Comments: Controls received mp w/ saline; no stress (see p.R455); good methods p.R454; teratology; post op. care (xylocaine, betadine); animal info (female, gestation day 20); nephrology

Agents: Dexamethasone Vehicle: Saline; Route: SC; Species: Mice; Pump: 2002; Duration: 14 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (MuRF1 -/- or wt, 3 months old, 25-30g)

Agents: Dexamethasone Vehicle: Saline, sterile; radio-isotopes; \(^3\)H tracer; Route: SC; Species: Rat; Pump: 1003D; Duration: Not Stated;
ALZET Comments: Good methods p. 820; animal info (male, Sprague-Dawley, 375-399 g); distribution study using autoradiography, agent distributed as far as 3 mm near catheter tip; catheter length was 4 cm’s to avoid tissue irritation variables near pump; tissue distribution

Agents: Montelukast sodium; dexamethasone Vehicle: Not Stated; Route: SC; Species: Mice; Pump: 2004; Duration: 90 days;
ALZET Comments: Controls received mp w/ saline; pumps replaced every 30 days; animal info (female, BALB/C, 6-8 wk old); long-term study

Agents: Dexamethasone Vehicle: DMSO; saline, isotonic; Route: SC; Species: Mice (transgenic); Pump: 2001; Duration: 6 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, C57BL6); 20% DMSO

Agents: Dexamethasone Vehicle: DMSO; saline, isotonic; Route: SC; Species: Rat; Pump: 2002; Duration: 14 days;
ALZET Comments: Animal info (Hannover-Wistar, male, 240-250g.); mp primed 4 hours in saline

Agents: Dexamethasone; morphine Vehicle: Not Stated; Route: CSF/CNS (intrathecal, occipital); Species: Rat; Pump: 2001; Duration: 5 days;
ALZET Comments: Controls received mp w/ saline or dex; animal info (male, wistar, 400-500 g)

Agents: Aldosterone; dexamethasone Vehicle: PEG 400; saline, normal; Route: SC; Species: Mice; Pump: 2004; Duration: Not Stated;
ALZET Comments: Replacement therapy (adrenalectomy, nephrectomy)

**Agents:** Dexamethasone  
**Vehicle:** Propylene glycol  
**Route:** SC  
**Species:** Rat  
**Pump:** 2001  
**Duration:** 7 days;  
**ALZET Comments:** Controls received mp w/ vehicle; replacement therapy (adrenalectomy); half-life (p. 86) 36-72 hours


**Agents:** Dexamethasone; ACTH (1-39), human  
**Vehicle:** Cyclodextrin  
**Route:** SC  
**Species:** Mice  
**Pump:** 2002  
**Duration:** 1-14 days;  
**ALZET Comments:** Controls received mp w/ vehicle; functionality of mp verified by plasma ACTH and corticosterone levels; multiple pumps per animal (2)


**Agents:** Dexamethasone  
**Vehicle:** Not Stated  
**Route:** SC  
**Species:** Rat  
**Pump:** 2001  
**Duration:** 5 days;  
**ALZET Comments:** Controls received mp w/ vehicle; good methods (p.32); cardiovascular


**Agents:** Aldosterone; dexamethasone  
**Vehicle:** Not Stated  
**Route:** SC  
**Species:** Rat  
**Pump:** Not Stated  
**Duration:** 11,21 days;  
**ALZET Comments:** Controls received sham operation; replacement therapy (adrenalectomy)


**Agents:** Aldosterone; spironolactone; dexamethasone  
**Vehicle:** Saline; DMSO  
**Route:** SC  
**Species:** Rat  
**Pump:** Not Stated  
**Duration:** 14 days;  
**ALZET Comments:** Controls received mp w/ vehicle; replacement therapy (adrenalectomy); <10% DMSO used


**Agents:** Dexamethasone  
**Vehicle:** Not Stated  
**Route:** SC  
**Species:** Mice  
**Pump:** 2004  
**Duration:** 50 days;  
**ALZET Comments:** Controls received mp w/ saline; pumps replaced after 28 days; no stress (see pg. 110); Asthma


**Agents:** Dexamethasone sodium phosphate  
**Vehicle:** Not Stated  
**Route:** Not Stated  
**Species:** Rat (pregnant)  
**Pump:** 2001  
**Duration:** 7 days;  
**ALZET Comments:** Dose-response (Table 1); cardiovascular; teratology; priming dose of agent given by SC injection prior to mp implantation


**Agents:** Aldosterone; dexamethasone  
**Vehicle:** Not Stated  
**Route:** SC  
**Species:** Rat  
**Pump:** 2ML1  
**Duration:** 5 days;  
**ALZET Comments:** Functionality of mp verified by aldosterone plasma levels; replacement therapy (adrenalectomy)


**Agents:** Dexamethasone  
**Vehicle:** Not Stated  
**Route:** SC  
**Species:** Rat  
**Pump:** 2002  
**Duration:** 1 week;  
**ALZET Comments:** Replacement therapy (adrenalectomy)
Agents: Dexamethasone Vehicle: Not Stated; Route: SC; Species: Rat; Pump: 2002; 2ML4; Duration: 14,28 days;
ALZET Comments: Dex plasma levels taken; cancer (glioma)

Agents: Dexamethasone Vehicle: Not Stated; Route: SC; Species: Not Stated; Pump: Not Stated; Duration: 6 days;
ALZET Comments: Cancer (glioblastoma); transplantation; pump and animal model not listed

P5405: P. Val, et al. A 77-base pair LINE-Like sequence elicits androgen-dependent mvdp/akr1-b7 expression in mouse vas deferens, but is dispensable for adrenal expression in rats. Endocrinology 2002;143(9):3435-3448
Agents: Testosterone; Dexamethasone acetate Vehicle: Cyclodextrin; PEG; Route: SC; Species: Rat; Pump: 2001; 2002; Duration: 8, 10 days;
ALZET Comments: Replacement therapy (orchidectomy); testosterone dissolved in cyclodextrin solution and delivered for 10 days via 2002 pumps; dexa was infused via 2001 pumps in PEG vehicle; animal info (adult, male, Wistar)

Agents: Estradiol, 17B-; Estradiol sulfamate; Dexamethasone; Growth hormone, human Vehicle: Propylene glycol; Route: SC; Species: Rat; Pump: 2001; Duration: 7 days;
ALZET Comments: controls received mp w/ vehicle; replacement therapy (ovariectomy, hypophysectomy, p. 458); comparison of oral administration vs. mp; steroid administered in PG, human GH pre-formulated

Agents: Dexamethasone; aldosterone, D Vehicle: DMSO; saline, sterile; Route: SC; Species: Rat; Pump: 2002; Duration: 10 days;
ALZET Comments: Replacement therapy (adrenalectomy)

Agents: Aldosterone; dexamethasone Vehicle: DMSO; saline; Route: SC; Species: Rat; Pump: 2002; Duration: 10 days;
ALZET Comments: Controls received mp w/ vehicle; functionality of mp verified by plasma levels; replacement therapy (adrenalectomy)

Agents: Dexamethasone Vehicle: Perilymph, artificial; Route: Ear (cochlea); Species: Guinea pig; Pump: 2002; Duration: 14, 28 days;
ALZET Comments: Controls received mp w/ vehicle; pumps replaced after 14 days; no stress (see pg. 67); "The current study indicates that intra-cochlear administration using osmotic pumps can provide a stable and continuous delivery of Dexamethasone without causing functional changes or tissue damage." (p. 67); tissue perfusion (cochlea)

Agents: Dexamethasone Vehicle: Not Stated; Route: Not Stated; Species: Rat; Pump: 1007D; Duration: 7 days;
ALZET Comments: Replacement therapy (adrenalectomy)

Agents: Dexamethasone sodium phosphate  

Vehicle: Not Stated;  

Route: SC;  

Species: Rat (Pregnant);  

Pump: Not Stated;  

Duration: 7 days;  

ALZET Comments: Dose (100, 200 or 400 mg/kg/day); Controls received sham surgery; animal info (female, pregnant, Wistar, 200-250g); teratology; pump implantation occurred at day 15 of gestation; highest dose discontinued due to poor tolerance;  


Agents: Dexamethasone  

Vehicle: Not Stated;  

Route: SC;  

Species: Rat;  

Pump: Not Stated;  

Duration: 7 days;  

ALZET Comments: Controls received mp w/ vehicle; replacement therapy (adrenalectomy p. H326); cardiovascular  


Agents: Dexamethasone  

Vehicle: Not Stated;  

Route: SC;  

Species: Rat (Pregnant);  

Pump: Not Stated;  

Duration: 7 days;  

ALZET Comments: Controls received sham surgery; cardiovascular; teratology; dexamethasone causes excess glucocorticoid exposure (causes hypertension and hyperinsulinemia).  


Agents: Dexamethasone; Aldosterone  

Vehicle: Not Stated;  

Route: SC;  

Species: Rat (pregnant);  

Pump: Not Stated;  

Duration: 21 days;  

ALZET Comments: Controls received sham surgery; replacement therapy (adrenalectomy); corticosterone pellets also used;  

P4906: M. J. Holness, et al. Dexamethasone during late gestation exacerbates peripheral insulin resistance and selectively targets glucose-sensitive functions in beta cell and liver. Endocrinology 2001;142(9):3742-3748  

Agents: Dexamethasone  

Vehicle: Not Stated;  

Route: SC;  

Species: Rat (pregnant);  

Pump: Not Stated;  

Duration: 5 days;  

ALZET Comments: controls received sham surgery; administration of dexamethasone was from day 14 to day 19 of gestation; "priming" SC injection of dexamethasone given before pump implantation; insulin resistance, diabetes;  


Agents: Aldosterone, D-; Dexamethasone  

Vehicle: PEG 400;  

Route: SC;  

Species: Rat;  

Pump: 2002;  

Duration: 14 days;  

ALZET Comments: Dose (Aldosterone (5 µg/kg/day); Dexamethasone (12 µg/kg/day)); Controls received mp w/ vehicle; animal info (Adult male Sprague-Dawley rats weighing 220–240 g); post op. care (1.2 mg/kg buprenorphine hydrochloride s.c.);  


Agents: Aldosterone; Dexamethasone  

Vehicle: Not Stated;  

Route: SC;  

Species: Rat;  

Pump: 2002;  

Duration: 8-12;  

ALZET Comments: functionality of mp verified by plasma aldosterone levels; replacement therapy (adrenalectomy p.195); "the plasma concentration of aldosterone achieved via osmotic minipump is just sufficient to maintain the rats in good health without causing over-stimulation."  

Agents: Dexamethasone; Vehicle: PBS; Route: Ear (round window membrane); Species: Guinea pig; Pump: 2002; Duration: Not Stated;
ALZET Comments: Controls received mp w/ vehicle; tissue perfusion (bulla); comparison of IP injections vs. mp; multiple pumps per animal (2) (one containing dexamethasone for one ear, the other containing PBS for the other ear);

Agents: Aldosterone; Dexamethasone; Vehicle: Not Stated; Route: SC; Species: Rat; Pump: 2ML4; Duration: 7 days;
ALZET Comments: Controls received mp with Aldosterone or Dexamethasone; replacement therapy (adrenalectomy); glucocorticoid;

Agents: Dexamethasone Vehicle: Not Stated; Route: SC; Species: Rat; Pump: Not Stated; Duration: 6 days;
ALZET Comments: controls received sham adrenalectomy; functionality of mp verified by plasma electrolyte levels; replacement therapy (adrenalectomy); dexamethasone dose restores normal glucocorticoid activity after adrenalectomy, controls electrolyte levels.