Agents: Corticosterone  Vehicle: Saline; Route: CNS/CSF; Species: Mice; Pump: Not stated; Duration: 14 days;
ALZET Comments: Dose (0.75 mg/d or 2.0 mg/d); 0.9% Saline used; animal info (8-12 weeks old, C57BL/6); diabetes;

Agents: Corticosterone  Vehicle: Saline; Route: SC; Species: Mice; Pump: 1003D; Duration: 3 days;
ALZET Comments: Dose (15 ug/hr); Controls received mp w/ vehicle; animal info (Male, C57BL/6); dependence;

Agents: Chenodeoxycholic acid, progesterone, 11β-hydroxy-, corticosterone, deoxy-, corticosterone, 3α,5α-TH-, progesterone, 3α,5α-TH-11β-hydroxy  Vehicle: Not stated; Route: SC; Species: Rat; Pump: Not stated; Duration: Not stated;
ALZET Comments: steroidal derivatives of corticosterone; Review presents the role of gut microbial metabolism of endogenous adrenocorticosteroids as a contributing factor in the etiology of essential hypertension.

Agents: Corticosterone  Vehicle: DMSO; Propylene glycol; Route: Not stated; Species: Mice; Pump: Not stated; Duration: Not stated;
ALZET Comments: Dose (100 ug/day); 50% DMSO, 50% Propylene glycol used; animal info (Female 3-4 month old 5αR1-KO and wild-type mice); replacement therapy (glucocorticoid);

Agents: Corticosterone; 2-hydroxypropyl-B-cyclodextrin; TDZD-8,TDZD-8, Vehicle: Saline; Route: CSF/CNS (hippocampus); Species: Mice; Pump: Not stated; Duration: 2 weeks;
ALZET Comments: animal info (5 weeks); functionality of mp verified by ELISA; bilateral cannula; behavioral testing (Y-maze, novel object preference task); TDZD-8 is a non-ATP-competitive selective inhibitor of GSK3β; Dose (2 uM/day);

Agents: Corticosterone; Cortisol  Vehicle: DMSO; Propylene glycol; Route: SC; Species: Mice (knockout); Pump: 2001; Duration: 7 days;
ALZET Comments: Dose (corticosterone (250 ug/day) and cortisol (250 ug/day); Controls received mp w/ vehicle; animal info (Male(Abc1−/−) mice);

Agents: Corticosterone  Vehicle: Water, PEG, DMSO, Ethanol; Route: SC; Species: Mice; Pump: 2001; Duration: 7 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (5-6 weeks old); Vehicle: water and propylene glycol (1:1 volume) with 5% DMSO and 5% ethanol. Therapeutic indication (neuropathic mechanical allodynia, circadian rhythm);

Q5320: M. Benlloch, et al. Pterostilbene Decreases the Antioxidant Defenses of Aggressive Cancer Cells In Vivo: A Physiological Glucocorticoids- and Nrf2-Dependent Mechanism. Antioxidants & Redox Signaling 2016;24(17):974-90
Agents: Pterostilbene, Corticosterone  Vehicle: DMSO, Ethanol; PEG400; Route: IV (jugular); Species: mice; Pump: Not stated; Duration: 35 days;
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Bibliography

ALZET Comments: Controls received mp w/ vehicle; animal info Female nu/nu nude mice (6–8 weeks); Vehicle solution DMSO and ethanol at 2:1 ratio; functionality of mp verified by plasma levels, pg 979; functionality of mp verified by plasma levels, pg 979; Pterostilbene is a natural dimethoxylated analog of resveratrol; Mice xenograft models; Dose (50 mg/ml Pter; 0.3 ug/hr corticosterone); Resultant plasma level (pg. 979);

Agents: Corticosterone Vehicle: PEG 400; Route: SC; Species: Bird (kittiwake); Pump: 2002; Duration: 8 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (late incubation, 380g); functionality of mp verified by serum levels; Multiple pumps per animal (2);

Agents: Corticosterone; progesterone, hydroxy- Vehicle: Not Stated; Route: SC; Species: Rat; Pump: Not Stated; Duration: Not Stated;
ALZET Comments: These infused steroids produce glucocorticoid induced mineralcorticotid receptor mediated Na+ retention

Agents: Corticosterone Vehicle: DMSO; Route: SC; Species: Rat; Pump: 2002; Duration: 14 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 250-350g); functionality of mp verified by plasma levels; behavioral testing (lever pressing); dependence; Dose (15 mg/kg);

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;

Q3696: M. Wosiski-Kuhn, et al. Glucocorticoid receptor activation impairs hippocampal plasticity by suppressing BDNF expression in obese mice. Psychoneuroendocrinology 2014;42(165-177
Agents: Corticosterone Vehicle: Cyclodextrin, 2-hydroxypropyl-b; Route: CSF/CNS (hippocampus); Species: Mice; Pump: Not Stated; Duration: 2 weeks;
ALZET Comments: Controls received mp w/ vehicle and aCSF; animal info (male, C57Bl6J or db/db, 5 weeks old); functionality of mp verified by hippocampal corticosterone levels; Multiple pumps per animal (2); behavioral testing (y-maze apparatus); tissue perfusion (bilateral hippocampi); immunology; Cannula placement verified via histology; used Plastics One bilateral cannula; bilateral infusion;

Q3573: A. D. Mueller, et al. The inhibitory effect of sleep deprivation on cell proliferation in the hippocampus of adult mice is eliminated by corticosterone clamp combined with interleukin-1 receptor 1 knockout. Brain, Behavior, and Immunity 2014;35(;):182-188
Agents: Corticosterone Vehicle: PEG 400; ethanol; Route: SC; Species: Mice; Pump: 1002; Duration: Not Stated;
ALZET Comments: Animal info (male, homozygous IL1RI null, 7-8 weeks old); 5% ethanol used; post op. care (buprenorphine 0.1 mg/kg, metacam 1 mg/kg SQ, ADX rats given saline in water bottles); replacement therapy (adrenalectomy); immunology; sleep deprivation study;

Agents: corticosterone; progesterone, hydroxy- Vehicle: Propylene glycol; Route: sc; Species: Rat; Pump: Not Stated; Duration: 14 days;
**ALZET Comments:** Controls received mp w/ vehicle; animal info: adrenally intact rats; functionality of mp verified by measuring systolic blood pressure pg 46; replacement therapy (the agents infused); Dose: 5 ug/hr of both agents


**Agents:** Corticosterone  
**Vehicle:** PEG 400;  
**Route:** SC;  
**Species:** Rat;  
**Pump:** 1003D;  
**Duration:** 3 days;  

**ALZET Comments:** Controls received mp w/ vehicle; animal info (Long-Evans, PND15); functionality of mp verified by plasma levels pg 22; no stress "Animals recovered quickly..." (see pg 20); post op. care (antibiotic ointment on wound, buprenorphine (0.052 mg/kg), heating pad until responsive and then returned to dam); “The corticosterone pellet was designed to produce a low, constant release of hormone over a 21-day period, but plasma assays showed otherwise. There was a large supraphysiological increase in circulating corticosterone levels (to ~80 ug/dl) for about three days after implantation and a return to normal levels by the time testing occurred...In the present study, we administered corticosterone using an alternative, more reliable method that yielded the low level (within a normal physiological range) and constant rate of delivery we had originally expected. Furthermore, since the ~3-day period of elevation in the previous study was sufficient to produce lasting effects on behavior, we chose to use an osmotic mini-pump that was designed to deliver corticosterone at a low constant rate over a 3-day period only.” pg 20; pumps primed for 24 hours in sterile saline;


**Agents:** Corticosterone  
**Vehicle:** Water, deionized;  
**Route:** SC;  
**Species:** Rat (neonate);  
**Pump:** 1007D;  
**Duration:** 7 days;  

**ALZET Comments:** Control animals received mp w/ vehicle; animal info (naive, Sprague Dawley, P7). no stress pg 595-596. “The entire surgery took less than 5 min and the rats recovered well. The dorsal placement of the micropump was chosen because it does not interfere with the feeding position of pups." pg 595. "...dams in the current studies tolerated the pups well after both surgeries and there were no instances of cannibalism or obvious abuse (e.g., bite marks)" pg 596; pumps removed after 1 week;


**Agents:** Aldosterone, dehydrocorticosterone, 11-  
**Vehicle:** DMSO;  
**Route:** SC;  
**Species:** Mice;  
**Pump:** Not Stated;  
**Duration:** 7 days;  

**ALZET Comments:** Controls received mp w/ (DMSO) (sham operated); animal info (C57BL/6 mice weighing 20 -25 g); Cardiovascular (Aldosterone exposure); Therapeutic indication (Cardiovascular); Aldosterone (8 ug/kg/day); 11-dehydrocorticosterone (800 ug/kg/day)


**Agents:** Corticosterone  
**Vehicle:** Not Stated;  
**Route:** SC;  
**Species:** Mice;  
**Pump:** 1003D;  
**Duration:** 60 hours;  

**ALZET Comments:** Control animals were untreated; animal info (C57BL/6, E12.5)


**Agents:** Corticosterone  
**Vehicle:** Not Stated;  
**Route:** Not Stated;  
**Species:** Not Stated;  
**Pump:** Not Stated;  
**Duration:** 2 weeks;  


**Agents:** Corticosterone  
**Vehicle:** Not Stated;  
**Route:** Not Stated;  
**Species:** Rat;  
**Pump:** Not Stated;  
**Duration:** Not Stated;  

**ALZET Comments:** Animal info (Wistar, male, 6 wks old); replacement therapy (adrenalectomy)
Agents: Aldosterone; RU-318; dehydrocorticosterone, 11-; corticosterone  Vehicle: DMSO; Route: SC; Species: Mice; Pump: Not Stated; Duration: 7 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, C57BL/6, 20-25 g)

Agents: Corticosterone  Vehicle: NaCl; Route: SC; Species: Rat; Pump: Not Stated; Duration: 2 days;
ALZET Comments: Controls received mp w/ vehicle; animal info (male, Wistar); replacement therapy (adrenalectomy)

Agents: Corticosterone  Vehicle: PEG 400; DMSO; Route: SC; Species: Mice; Pump: 2004; Duration: 21 days;
ALZET Comments: Controls received mp w/ vehicle; functionality of mp verified by residual volume; comparison of SC injections vs. pellet vs SC mp; animal info (Swiss White, male, CD1. 7-9 wks old)

Agents: Corticosterone; triiodothyronine  Vehicle: DMSO; propylene glycol; Route: SC; Species: Bird (chicken); Pump: 2001; Duration: 72 hours;
ALZET Comments: Controls received mp w/ vehicle; dose-response (fig. 3); comparison of SC pellets vs. mp; animal info (male, 29 days old); 50% DMSO used; 50% propylene glycol used

Agents: Corticosterone  Vehicle: PEG 400; Route: SC; Species: Rat; Pump: 2ML2; Duration: 7, 11 days;
ALZET Comments: Replacement therapy (adrenalectomy); dose-response (Fig. 6); comparison of oral vs. mp; pumps replaced after 1 week; animal info (male, Long-Evans, 300-400g.; male, Sprague Dawley, 250-300g.); "the method of Cort replacement is crucial for detecting an effect of RSD on cell proliferation." (p. R1700), mp was successful at this

Agents: Corticosterone  Vehicle: PEG 400; Route: SC; Species: Mice; Pump: 1002; Duration: 14 days;
ALZET Comments: Controls received mp w/ vehicle; dose-response (fig. 3); comparison of SC pellets vs. mp; animal info (male, C57BL/6j, 10-11 wk. old)

Agents: Corticosterone  Vehicle: PEG; Route: SC; Species: Mice; Pump: 2002; Duration: 2 weeks;
ALZET Comments: Controls received no treatment; functionality of mp verified by plasma corticosterone levels; animal info (male, female, C57BL/6j, 7 wk old); "Although daily injections do elevate plasma corticosterone chronically, animals experience spikes of corticosterone associated with both handling and injection" (pg. 776)

Agents: Corticosterone  Vehicle: DMSO; polypropylene glycol; Route: SC; Species: Mice; Pump: Not Stated; Duration: 48 hours;
ALZET Comments: Controls received mp w/ vehicle; functionality of mp verified by plasma corticosterone levels; comparison of silastic implants vs. mp; 50% DMSO used; 50% propylene glycol used
**Agents:** Corticosterone **Vehicle:** PEG; **Route:** IP; **Species:** Rat; **Pump:** 2001; **Duration:** 1 week;
**ALZET Comments:** Replacement therapy (adrenalectomy); no stress (see pg. 4); immunology; post op. care (derapen); "the survival rate of this procedure (ADX + mp) was 100% with animals having normal body temperature within 24 hours after the surgery."

**Agents:** Corticosterone **Vehicle:** PEG 400; **Route:** SC; **Species:** Rat; **Pump:** 2ML2; **Duration:** 14 days;
**ALZET Comments:** Controls received no mp and saline injection; functionality of mp verified by plasma drug concentrations; replacement therapy (orchidectomy; adrenalectomy); LPS given by injection

**Agents:** Corticosterone **Vehicle:** PEG 400; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 48 hours;
**ALZET Comments:** Controls received mp w/ vehicle; functionality of mp verified by corticosterone plasma levels; dose-response (p. 784); immunology;

**Agents:** Corticosterone **Vehicle:** PEG; **Route:** SC; **Species:** Mice; **Pump:** 2001; **Duration:** 72 hours;
**ALZET Comments:** Corticosterone plasma levels checked; replacement therapy (adrenalectomy); comparison of SC injections vs mp

**Agents:** Corticosterone **Vehicle:** Saline; Ethanol; Radio-isotopes; **Route:** SC; **Species:** mice; **Pump:** 2001; **Duration:** 7 days;
**ALZET Comments:** brain tissue distribution; Vehicle was 90% saline; 10% ethanol; aging; corticosterone brain distribution