

Recent References (2012-Present) on the Administration of Endotoxins Using ALZET[®] Osmotic Pumps

Q6974: Z. I. Grunewald, et al. Cannabinoid receptor type-1 partially mediates metabolic endotoxemia-induced inflammation and insulin resistance. Physiol Behav 2019;199(282-291

Agents: Endotoxin, LPS Vehicle: Saline; Route: IP; Species: Rat; Pump: 2006; Duration: 6 weeks; ALZET Comments: Dose (12.5 µg/kg/hr); Controls received mp w/ vehicle; animal info (male Wistar rats; 200–220 g);

Q6984: M. Bolos, *et al.* Maturation dynamics of the axon initial segment (AIS) of newborn dentate granule cells in young adult C57BL/6J mice. J Neurosci 2019;

Agents: Endotoxin, LPS **Vehicle:** PBS; **Route:** SC; **Species:** Mice; **Pump:** 1002; **Duration:** 2 weeks; **ALZET Comments:** Dose (150 µg/kg/day); Controls received mp w/ vehicle; animal info (5week-old C57BL/6J Ola Hsd female mice);

Q7305: E. Sucajtys-Szulc, *et al.* Hepatocyte nuclear factors as possible C-reactive protein transcriptional inducer in the liver and white adipose tissue of rats with experimental chronic renal failure. Mol Cell Biochem 2018;446(1-2):11-23 **Agents:** Endotoxin, Lipopolysaccharide **Vehicle:** saline; **Route:** SC; **Species:** Rat; **Pump:** 2ML4; **Duration:** 4 weeks; **ALZET Comments:** Dose (1 mg/kg/day); Controls received mp w/ vehicle; animal info (10-week-old, Male, Wistar, ~250g);

Q6144: D. Lana, *et al.* Alterations in the Interplay between Neurons, Astrocytes and Microglia in the Rat Dentate Gyrus in Experimental Models of Neurodegeneration. Front Aging Neurosci 2017;9(296 Agents: Endotoxin, LPS Vehicle: Not Stated; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: Not Stated; Duration: 4 weeks;

ALZET Comments: Dose (1.6 mg/ml); animal info (Male adult Wistar rats); post op. care (1% chloramphenicol applied to the exposed skull and scalp, Bupivicaine applied locally to the scalp, and 4 ml of sterile isotonic saline injected s.c. to prevent dehydration); Brain coordinates (-2.5 mm posterior to Lambda, 7 mm ventral to the dura); neurodegenerative (Alzheimer's);

Q5690: B. Carusillo Theriault, *et al.* Cerebral microbleeds in a neonatal rat model. PLoS One 2017;12(2):e0171163 **Agents:** Endotoxin, LPS **Vehicle:** Not Stated; **Route:** IV (jugular); **Species:** Rat (pregnant); **Pump:** 2001D; **Duration:** 24 hours; **ALZET Comments:** animal info (female, Wistar E19); ischemia (intrauterine); no stress (see pg. 4 "No mortality was experienced for dams undergoing the above protocol"); behavioral testing (Righting Reflex, negative geotaxis, open field, elevated plus maze, Morris water maze, balance beam); teratology; Dose (600 ng/hr); Resultant plasma level (4.5 EU/mL after 16 hours of infusion);

Q6112: X. Brenachot, *et al.* Hepatic protein tyrosine phosphatase receptor gamma links obesity-induced inflammation to insulin resistance. Nat Commun 2017;8(1):1820

Agents: Endotoxin, LPS Vehicle: Saline; Route: SC; Species: Mice; Pump: 2004; Duration: 28 days;

ALZET Comments: Dose (300 µg/kg/day); animal info (8-week-old C57BL/6 J males); LPS treatment is an established model of inflammation/insulin resistance;

Q5097: K. L. Wu, *et al.* Impaired Nrf2 regulation of mitochondrial biogenesis in rostral ventrolateral medulla on hypertension induced by systemic inflammation. Free Radic Biol Med 2016;97(58-74

Agents: Endotoxin, LPS; coenzyme Q10; temple; Interleukin-1 receptor antagonist; butylhydroquinone, tert- Vehicle: Saline; CSF, artificial; Route: IP; ;CSF/CNS (cisterna magna); Species: Rat; Pump: 1007D; Duration: 7 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 8 weeks old, 250-280g); ALZET brain infusion kit 2 used; post op. care (IM procaine Penicillin 1000 IU); tissue perfusion (cisterna magna); cardiovascular; bp measured using tail cuff; Dose (LPS 1.2 mg/kg/day; coenzyme Q10 3.25 ug/ul/hr; tempol 5 ug/ul/hr; IL-1Ra 0.5 ug/ul/h);



Q5179: N. Petitdant, *et al.* Cerebral radiofrequency exposures during adolescence: Impact on astrocytes and brain functions in healthy and pathologic rat models. Biofactors 2016;37(5):338-50

Agents: Endotoxin, LPS Vehicle: CSF, artificial; Route: CSF/CNS; Species: Rat; Pump: 2004; Duration: 28 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dalwey, P32); behavioral testing (Open Field test; elevated plus maze; fear conditioning); Cannula placement verified via methylene blue dye; used Plastics One cannula; used PEEK cannula; rats exposed to radio frequency electromagnetic fields while pump implanted; Dose (1.25 ug/h); Brain coordinates;

Q4867: M. K. Nøhr, et al. LPS-Enhanced Glucose-Stimulated Insulin Secretion Is Normalized by Resveratrol. PLoS One 2016;11(1):1-15

Agents: Endotoxin, LPS Vehicle: Saline; Route: SC; Species: Mice; Pump: 2004; Duration: 28 days; ALZET Comments: Controls received mp w/ vehicle; animal info (male, C57BL/6N, 12 weeks old); immunology; diabetes; Dose (600 ug/kg/day);

Q5395: T. H. Lin, *et al.* NF-kappaB decoy oligodeoxynucleotide mitigates wear particle-associated bone loss in the murine continuous infusion model. Acta Biomaterialia 2016;41(273-81

Agents: Ultra-high molecular weight polyethylene particles; oligodeoxynucleotide, decoy; oligodeoxynucleotide, scrambled; Endotoxin, LPS; Brain-derived neurotropic factor; **Vehicle:** Saline; **Route:** In Vitro (cell culture); Bone (Femur); **Species:** Mice (nude); **Pump:** 2006; **Duration:** 4 weeks;

ALZET Comments: Controls received mp w/ vehicle; animal info (Male athymic nude mice, 10-15 weeks old); stability verified by (in vitro experiment); dose-response (pg. 277); good methods (pg. 276); tissue perfusion (bone); Dose (15 mg/ml UHMWPE, 50uM decoy, 1 ug/ml LPS); Therapeutic indication (Bone loss, chronic inflammation);

Q5609: J. Li, *et al.* Akkermansia Muciniphila Protects Against Atherosclerosis by Preventing Metabolic Endotoxemia-Induced Inflammation in Apoe-/- Mice. Circulation 2016;133(24):2434-46

Agents: Endotoxin, LPS Vehicle: PBS; Route: SC; Species: Mice (knockout); Pump: 1004; Duration: 4 weeks; ALZET Comments: Controls received mp w/ vehicle; cardiovascular; Therapeutic indication (atherosclerosis); Dose (252ug/kg);

Q5384: D. Lana, *et al.* The neuron-astrocyte-microglia triad involvement in neuroinflammaging mechanisms in the CA3 hippocampus of memory-impaired aged rats. Experimental Gerontology 2016;83(71-88

Agents: Endotoxin, LPS Vehicle: CSF, artificial; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: Not Stated; Duration: 4 weeks;

ALZET Comments: Controls received mp w/ vehicle; animal info (Male Wistar rats, 3 months & 20 months old); Plastics One cannula used; post op. care (chloramphenicol (1% solution) applied to exposed skull, scalp; bupivacaine applied topically); "A volume overload to the brain isminimal using this procedure because the 0.15 ul/h administered contributes only about 0.16% of the total CSF volume produced by the rat each hour and is only 0.09% of the rat's total CSF volume" pg 73; Memory/learning study; aging; Brain coordinates; 4th ventricle: 2.5 mm posterior to Lambda, on the midline, and 7mm ventral to the dura; Dose (1.6 ug/mL);

Q5382: D. B. Kurland, *et al.* The Sur1-Trpm4 channel regulates NOS2 transcription in TLR4-activated microglia. J Neuroinflammation 2016;13(1):130

Agents: Endotoxin, LPS Vehicle: Saline, normal; Route: CSF/CNS (striatum); Species: Rat; Pump: 1007D; Duration: 7 days; ALZET Comments: Controls received mp w/ vehicle; animal info (Male Wistar rats aged 8-12 weeks); ALZET brain infusion kit 2 used; good methods (pg. 3); tissue perfusion (striatum); model to study TLR4 activation in vivo; nitrosative/oxidative stress and neuroinflammation; Brain coordinates; 1-mm burr hole was made over the right striatum [AP, +0.75 mm; ML, +1.7 mm relative to bregma]; Dose (5 ug/day);



Q5362: K. K. Gupta, *et al.* Plasminogen activator inhibitor-1 stimulates macrophage activation through Toll-like Receptor-4. Biochemical and Biophysical Research Communications 2016;477(3):503-8

Agents: Endotoxin, LPS Vehicle: Saline, isotonic; Route: IP; Species: mice; Pump: 1003D; Duration: 3 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (WT, PAI-1 deficient, & TLR4 deficient male mice); animal info (WT, PAI-1 deficient, & TLR4 deficient male mice); Strain/dose-specific reactions (pg. 505); "As expected, the sham and vehicle control (saline) showed no lethality in mice survival as compared to LPS-challenged mice" pg 504; Inflammation induction; Dose (10 ug/uL);

Q4521: G. Maneenil, *et al.* Oral, Nasal and Pharyngeal Exposure to Lipopolysaccharide Causes a Fetal Inflammatory Response in Sheep. PLoS One 2015;10(U1091-U1101

Agents: Endotoxin, LPS Vehicle: Not Stated; Route: Oral cavity; Species: Sheep (ewe); Pump: Not Stated; Duration: 1 day; 6 days;

ALZET Comments: Controls received mp w/ saline; animal info (Merino); teratology; immunology;

Q3382: M. Llorens-Martin, *et al.* Novel connection between newborn granule neurons and the hippocampal CA2 field. Experimental Neurology 2015;263(285-292

Agents: Endotoxin, LPS Vehicle: PBS; Route: SC; Species: Mice; Pump: 1004; Duration: 8 weeks; ALZET Comments: Animal info (female, 8 wks old, C57BL/6JRcc); long-term delivery; pumps replaced after 4 weeks

Q3920: S. C. Hopp, *et al.* Differential Neuroprotective and Anti-Inflammatory Effects of L-Type Voltage Dependent Calcium Channel and Ryanodine Receptor Antagonists in the Substantia Nigra and Locus Coeruleus. Journal of Neuroimmune Pharmacology 2015;10(35-44

Agents: Endotoxin, LPS Vehicle: CSF, artificial; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2004; Duration: 28 days;

ALZET Comments: Animal info (male, F-344, 3 months old); behavioral testing (rotarod; open field test; forced swim test); tissue perfusion (fourth ventricle); immunology;

Q3921: S. C. Hopp, *et al.* Calcium dysregulation via L-type voltage-dependent calcium channels and ryanodine receptors underlies memory deficits and synaptic dysfunction during chronic neuroinflammation. Journal of Neuroinflammation 2015;12(U1-U14

Agents: Endotoxin, LPS **Vehicle:** Not Stated; **Route:** CSF/CNS (fourth ventricle); **Species:** Rat; **Pump:** 2004; **Duration:** 28 days; **ALZET Comments:** Controls received mp w/ aCSF; animal info (male F-344, 3 months old); neurodegenerative (Alzheimer's disease); behavioral testing (Morris Water Maze); immunology;

Q4451: Y. H. Ho, *et al.* Peripheral inflammation increases seizure susceptibility via the induction of neuroinflammation and oxidative stress in the hippocampus. JOURNAL OF BIOMEDICAL SCIENCE 2015;22(U1-U14

Agents: Endotoxin, LPS; NS398; tempol Vehicle: Saline; DMSO; Route: IP; CSF/CNS; Species: Rat; Pump: 1007D; Duration: 7 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dawley, 10 weeks old, 250-282g); ALZET brain infusion kit 2 used; 1% DMSO used; Multiple pumps per animal (2); post op. care (IM procaine penicillin 1000IU); immunology; used dental cement; NS398 is a COX-2 inhibitor and anti-inflammatory; tempol scavanges ROS;

Q4416: C. W. Fischer, *et al.* Chronic lipopolysaccharide infusion fails to induce depressive-like behaviour in adult male rats. Acta Neuropsychiatrica 2015;27(189-194

Agents: Endotoxin, LPS Vehicle: Saline; Route: IP; Species: Rat; Pump: 2ML4; Duration: 1 week; 4 weeks;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Sprague Dalwey, 299.9g); post op. care (Rimadyl 50 mg/ml); behavioral testing (forced swim test, open field testing); "Osmotic minipumps allow a continuous slow infusion of LPS, whereas daily injections might induce stress because of the daily handling as well as local inflammation due to the needle. Moreover, when the daily volume is administered at once, the effect may be more abrupt and deleterious." pg 193;



Q4394: C. B. de La Serre, *et al.* Chronic exposure to Low dose bacterial lipopolysaccharide inhibits leptin signaling in vagal afferent neurons. PHYSIOLOGY & BEHAVIOR 2015;139(188-194

Agents: Endotoxin, LPS Vehicle: Not Stated; Route: IP; Species: Rat; Pump: 2004; 2006; Duration: 4 weeks; 6 weeks; ALZET Comments: Controls received mp w/ saline; animal info (male, Wistar, 237g); functionality of mp verified by circulating LPS; long-term study;

Q3794: L. Adzovic, *et al.* Insulin improves memory and reduces chronic neuroinflammation in the hippocampus of young but not aged brains. Journal of Neuroinflammation 2015;12(U1-U10

Agents: Insulin, recombinant cat; endotoxin, LPS Vehicle: CSF, artificial; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2004; Duration: 4 weeks;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, F-344, 3 months old, 21 months old); bilateral cannula used; behavioral testing (morris water maze); tissue perfusion (fourth ventricle); bilateral infusion; used tygon tubing to attach cannula to pump;

Q4748: T. G. A. M. Wolfs, *et al.* Chorioamnionitis-induced fetal gut injury is mediated by direct gut exposure of inflammatory mediators or by lung inflammation. American Journal of Physiology Gastrointestinal and Liver Physiology 2014;306(5):G382-G393

Agents: Endotoxin, LPS Vehicle: Not Stated; Route: Intra-amniotic; Species: Sheep (fetus); Pump: Not Stated; Duration: 24 hours;

ALZET Comments: Controls received mp w/ saline; animal info (124 gestation day); immunology;

Q4116: G. Stifano, *et al.* Chronic Toll-like receptor 4 stimulation in skin induces inflammation, macrophage activation, transforming growth factor beta signature gene expression, and fibrosis. ARTHRITIS RESEARCH & THERAPY 2014;16(U10-U22 **Agents:** Endotoxin, LPS **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 7 days; 28 days; **ALZET Comments:** Controls received mp w/ PBS, sterile; animal info (TLR2 -/- or MyD88 -/-); immunology;

Q3583: I. Nitsos, *et al.* The Impact of Chronic Intrauterine Inflammation on the Physiologic and Neurodevelopmental Consequences of Intermittent Umbilical Cord Occlusion in Fetal Sheep. REPRODUCTIVE SCIENCES 2014;21(658-670 Agents: Endotoxin, LPS Vehicle: Not Stated; Route: Amniotic sac; Species: Sheep (fetus); Pump: 2ML4; Duration: 4 weeks; ALZET Comments: Controls received mp w/ saline; animal info (female, pregnant, GD80); post op. care (benacillin); teratology; immunology; E.coli LPS 055:B5, 18 mg/ml;

Q3556: J. H. Ma, *et al.* Chronic brain inflammation causes a reduction in GluN2A and GluN2B subunits of NMDA receptors and an increase in the phosphorylation of mitogen-activated protein kinases in the hippocampus. MOLECULAR BRAIN 2014;7(U1-U10

Agents: Endotoxin, LPS Vehicle: CSF, artificial; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2004; Duration: 28 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, Fischer-344); behavioral testing (morris water maze); tissue perfusion (fourth ventricle); immunology; LPS from E.coli, serotype 055:B5;

Q3983: M. Llorens-Martin, *et al.* Peripherally triggered and GSK-3beta-driven brain inflammation differentially skew adult hippocampal neurogenesis, behavioral pattern separation and microglial activation in response to ibuprofen. TRANSLATIONAL PSYCHIATRY 2014;4(U58-U68

Agents: Endotoxin, LPS Vehicle: PBS; Route: SC; Species: Mice; Pump: 1002; 1004; Duration: 2 weeks; 4 weeks; 8 weeks;; ALZET Comments: Animal info (female, C57BL6Jcc, 6 weeks old); pumps replaced every 4 weeks; neurodegenerative (Alzheimer's); immunology;

Q3976: W. Liang, *et al.* Metabolically induced liver inflammation leads to NASH and differs from LPS- or IL-1 beta-induced chronic inflammation. LABORATORY INVESTIGATION 2014;94(491-502

Agents: Endotoxin, LPS; interleukin-1B, recombinant murine Vehicle: Not Stated; Route: SC; Species: Mice; Pump: 1004; Duration: 10 weeks;

ALZET Comments: Controls received mp w/ PBS; animal info (male, APOE3L.CETP, 10-14 weeks old); immunology;



Q3852: K. Y. Leon-Pennell, *et al.* P. gingivalis lipopolysaccharide intensifies inflammation post-myocardial infarction through matrix metalloproteinase-9. Journal of Molecular and Cellular Cardiology 2014;76(218-226

Agents: Endotoxin, PgLPS ATCC 33277 Vehicle: Not Stated; Route: Not Stated; Species: Mice; Pump: 1003D; 1007D; 2004; Duration: 28 days;

ALZET Comments: Controls received mp w/ saline; animal info (C57BL6J or MMP-9 -/-, 4-7 months old); cardiovascular; myocardial infarction; immunology;

Q3414: I. Bardou, *et al.* Age and duration of inflammatory environment differentially affect the neuroimmune response and catecholaminergic neurons in the midbrain and brainstem. NEUROBIOLOGY OF AGING 2014;35(5):1065-1073 Agents: Endotoxin, LPS Vehicle: CSF, artifical; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2006; Duration: 21 days; 56 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, F-344 rats, 3 months or 9 months or 23 months old); post op. care (lidocane 1% on wound; 2ML isotonic saline SC injection; 2% tylenol in drinking water 3 days after surgery); tissue perfusion (fourth ventricle); long-term study; immunology; LPS aka lipopolysaccharide;

Q2776: Y. S. Li, *et al.* Angiotensin II Facilitates Fibrogenic Effect of TGF-beta1 through Enhancing the Down-Regulation of BAMBI Caused by LPS: A New Pro-Fibrotic Mechanism of Angiotensin II. PLoS One 2013;8(10):U317-U327 Agents: Angiotensin II; endotoxin, LPS Vehicle: Not Stated; Route: IP; Species: Rat; Pump: Not Stated; Duration: 6 weeks; ALZET Comments: Control animals received mp w/ PBS; animal info (Wistar, male, wks old, 220-280 g); multiple pumps used (2); peptides; long-term study;

Q2979: Y. H. Ko, *et al.* Methylprednisolone Stiffens Aortas in Lipopolysaccharide-Induced Chronic Inflammation in Rats. PLoS One 2013;8(7):U520-U529

Agents: Endotoxin, LPS **Vehicle:** Not Stated; **Route:** Not Stated; **Species:** Rat; **Pump:** 2004; **Duration:** 2; 4 weeks; **ALZET Comments:** Controls received mp w/ saline; immunology; animal info (205-300g, male, wistar); LPS (E. coli O55:B5);

Q3423: H. M. Brothers, *et al.* Riluzole Partially Rescues Age-Associated, but not LPS-Induced, Loss of Glutamate Transporters and Spatial Memory. Journal of Neuroimmune Pharmacology 2013;8(5):1098-1105

Agents: Endotoxin, LPS **Vehicle:** CSF, artifical; **Route:** CSF/CNS (fourth ventricle); **Species:** Rat; **Pump:** 2004; **Duration:** 3 weeks; **ALZET Comments:** Controls received mp w/ vehicle; animal info (Fisher F-344, 3 months old); behavioral testing (Morris water maze); tissue perfusion (fourth ventricle); immunology;

Q3050: I. Bardou, *et al.* Differential effects of duration and age on the consequences of neuroinflammation in the hippocampus. NEUROBIOLOGY OF AGING 2013;34(10):2293-2301

Agents: Endotoxin, LPS Vehicle: CSF, artifical; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2006; Duration: 21 days, 56 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (male, F-344, 3 months, 9 months, and 23 months of age); post op. care (1% lidocane to closure, saline injected SC); behavioral testing (Morris Water Maze); used Tygon tubing

Q2377: K. L. H. Wu, *et al.* Neuroinflammation and oxidative stress in rostral ventrolateral medulla contribute to neurogenic hypertension induced by systemic inflammation. Journal of Neuroinflammation 2012;9(;):U1-U15

Agents: Endotoxin, LPS Vehicle: Not Stated; Route: IP; Species: Rat; Pump: 1002; Duration: 14 days;

ALZET Comments: Control animals received mp w/ saline; animal info (Sprague Dawley, male, adult, 10 wks old, 200-250 g)

Q1673: M. L. Soliman, *et al.* Acetate supplementation modulates brain histone acetylation and decreases interleukin-1-beta expression in a rat model of neuroinflammation. Journal of Neuroinflammation 2012;9(;):U1-U14

Agents: Endotoxin, LPS Vehicle: Not Stated; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2004; Duration: 28 days; ALZET Comments: Controls received mp w/ artificial CSF; animal info (Sprague Dawley, male, 200-250 g); Plastics One cannula

Q2432: E. Okun, *et al.* Evidence for a Developmental Role for TLR4 in Learning and Memory. PLoS One 2012;7(10):U940-U947 **Agents:** Endotoxin, LPS; TLR4 antagonist **Vehicle:** CSF, artificial; **Route:** CSF/CNS; SC; **Species:** Mice; **Pump:** 1004; **Duration:** 4 weeks;

ALZET Comments: Control animals received mp w/ vehicle; animal info (C57BL/6, 2 mo old); ALZET brain infusion kit 3 used



Q2727: M. Kellom, *et al.* Dose-dependent changes in neuroinflammatory and arachidonic acid cascade markers with synaptic marker loss in rat lipopolysaccharide infusion model of neuroinflammation. BMC Neuroscience 2012;13(;):U1-U11 Agents: Endotoxin, E. coli Vehicle: Not Stated; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2002; Duration: 6 days; ALZET Comments: Control animals received mp w/ aCSF; animal info (3 mo old, male, F344 Fischer); post op. care (triple antibiotic ointment, saline injection)

Q2443: F. Cerbai, *et al.* The Neuron-Astrocyte-Microglia Triad in Normal Brain Ageing and in a Model of Neuroinflammation in the Rat Hippocampus. PLoS One 2012;7(9):U1222-U1240

Agents: Endotoxin, LPS Vehicle: Not Stated; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: Not Stated; Duration: 4 weeks;

ALZET Comments: Control animals received mp w/ aCSF; animal info (Wistar, male, 22 mo old); post op. care (bupivicaine on scalp for pain, sterile isotonic saline SC for dehydration); aCSF recipe

Q2303: A. Bonetto, *et al.* JAK/STAT3 pathway inhibition blocks skeletal muscle wasting downstream of IL-6 and in experimental cancer cachexia. American Journal of Physiology Endocrinology and Metabolism 2012;303(3):E410-E421 **Agents:** Interleukin-6, recomb. murine; endotoxin, LPS **Vehicle:** Not Stated; **Route:** SC; **Species:** Mice; **Pump:** Not Stated; **Duration:** 7 days;

ALZET Comments: Animal info (C57BL/6J, male, IL-6 null); functionality of mp verified via blood IL-6 levels

Q1658: K. Belarbi, *et al.* TNF-alpha protein synthesis inhibitor restores neuronal function and reverses cognitive deficits induced by chronic neuroinflammation. Journal of Neuroinflammation 2012;9(;):U1-U13

Agents: Endotoxin, E. Coli Vehicle: CSF, artificial; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2004; Duration: 28 days;

ALZET Comments: Animal info (3 mo old, male, F344)

Q1462: K. Belarbi, *et al.* Chronic neuroinflammation impacts the recruitment of adult-born neurons into behaviorally relevant hippocampal networks. Brain, Behavior, and Immunity 2012;26(1):18-23

Agents: Endotoxin, LPS Vehicle: CSF, artificial; Route: CSF/CNS (fourth ventricle); Species: Rat; Pump: 2004; Duration: 28 days;

ALZET Comments: Controls received mp w/ vehicle; animal info (3 mo old, male, F344)

Q2715: A. Atik, *et al.* Long-Term Pulmonary Effects of Intrauterine Exposure to Endotoxin Following Preterm Birth in Sheep. REPRODUCTIVE SCIENCES 2012;19(12):1352-1364

Agents: Endotoxin, LPS Vehicle: Saline; Route: Intrauterine; Species: Sheep (ewe); Pump: 2ML4; Duration: 28 days; ALZET Comments: Control animals received mp w/ saline; multiple pumps used (2)