

ANALYZING CELLULAR IMMUNITY TO AAV IN A CANINE MODEL USING ELISPOT ASSAY ZEJING WANG . [ET AL.] pdf

1: JoVE | Peer Reviewed Scientific Video Journal - Methods and Protocols

Analyzing Cellular Immunity to AAV in a Canine Model Using ELISpot Assay Zejing Wang, 1 Rainer Storb, 1, 2 Stephen J Tapscott, 3, 4 and Stanley Riddell 2, 5 1 Program in Transplantation Biology, Division of Clinical Research, Fred Hutchinson Cancer Research Center, Seattle, WA

FSHD type 2 and Bosma arhinia microphthalmia syndrome: Two faces of the same mutation. Epub Jul 6. Activating an early embryonic transcriptional program in human skeletal muscle. Monosomy 18p is a risk factor for facioscapulohumeral dystrophy. Smchd1 haploinsufficiency exacerbates the phenotype of a transgenic FSHD1 mouse model. Eur J Hum Genet. Epub Jun SMCHD1 regulates a limited set of gene clusters on autosomal chromosomes. Epub May 1. Conservation and innovation in the DUX4-family gene network. Am J Hum Genet. Clinical trial preparedness in facioscapulohumeral muscular dystrophy: Clinical, tissue, and imaging outcome measures May , Rochester, New York. Epub Nov 9. Epub Mar Milder phenotype in facioscapulohumeral dystrophy with residual D4Z4 repeats. Epub Nov Muscle pathology grade for facioscapulohumeral muscular dystrophy biopsies. Epub Jun 3. Genetic and epigenetic contributors to FSHD. Curr Opin Genet Dev. Epub Sep 7. Consequences for 18p Deletion Syndrome. Epub May Epub Dec Conversion of MyoD to a neurogenic factor: Epub Sep A feedback loop between nonsense-mediated decay and the retrogene DUX4 in facioscapulohumeral muscular dystrophy. Elimination of contaminating cap genes in AAV vector virions reduces immune responses and improves transgene expression in a canine gene therapy model. Epub Feb 6. Discriminative motif analysis of high-throughput dataset. Fundamental differences in promoter CpG island DNA hypermethylation between human cancer and genetically engineered mouse models of cancer. Pbx and Prdm1a transcription factors differentially regulate subsets of the fast skeletal muscle program in zebrafish. Print Jun Skeletal muscle programming and re-programming. Tissue-specific splicing of a ubiquitously expressed transcription factor is essential for muscle differentiation. Expanding donor muscle-derived cells for transplantation. Curr Protoc Stem Cell Biol. Epub Apr 4. Comparison of endogenous and overexpressed MyoD shows enhanced binding of physiologically bound sites. MyoD and Hlgf2 locus interactions are required for diaphragm formation in the mouse. If you build a rare disease registry, will they enroll and will they use it? DUX4 activates germline genes, retroelements, and immune mediators: Genome-wide DNA methylation studies suggest distinct DNA methylation patterns in pediatric embryonal and alveolar rhabdomyosarcomas. Genetic and epigenetic determinants of neurogenesis and myogenesis. A Preclinical Model for Human Therapies. Activation of notch signaling during ex vivo expansion maintains donor muscle engraftment. Generation of isogenic D4Z4 contracted and noncontracted immortal muscle cell clones from a mosaic patient: A cellular model for FSHD. Mapping contrast agent uptake and retention in MRI studies of myocardial perfusion: Int J Cardiovasc Imaging. Comparison of genome-wide binding of MyoD in normal human myogenic cells and rhabdomyosarcomas identifies regional and local suppression of promyogenic transcription factors. MyoD directly up-regulates premyogenic mesoderm factors during induction of skeletal myogenesis in stem cells. Differential genomic targeting of the transcription factor TAL1 in alternate haematopoietic lineages. Local gene delivery and methods to control immune responses in muscles of normal and dystrophic dogs. Facioscapulohumeral muscular dystrophy and DUX4: Epub Feb 1. Genome-wide transcription factor binding: Epub Feb 4. Immunodetection of human double homeobox 4. Polycomb-mediated repression during terminal differentiation: Assessment of palindromes as platforms for DNA amplification in breast cancer. Immune Responses to rAAV6: Epub Nov 3. Stuck in a balancing act: DNA methylation of developmental genes in pediatric medulloblastomas identified by denaturation analysis of methylation differences. Epub Dec 4. Mol Ther Mar; 18 3: Genome-wide MyoD binding in skeletal muscle cells: Dev Cell 18 4: Expression of human alpha1-antitrypsin in mice and dogs following AAV6 vector-mediated gene transfer to the lungs. Mol Ther 18 6: Epub Apr 6. Genome-wide analysis of palindrome formation. Mol Syst Biol 6: J Biol Chem Oct 29; Epub Aug Science Sep 24; MyoD

ANALYZING CELLULAR IMMUNITY TO AAV IN A CANINE MODEL USING ELISPOT ASSAY ZEJING WANG . [ET AL.] pdf

and E-protein heterodimers switch rhabdomyosarcoma cells from an arrested myoblast phase to a differentiated state. New Candidates for the Pathophysiology of Facioscapulohumeral Dystrophy. *Hum Mol Genet* 18 Pbx acts with Hand2 in early myocardial differentiation. *Dev Biol* Sep 15; 2: Epub Jul Mol Ther 16 7: Cell-lineage regulated myogenesis for dystrophin replacement: *Hum Mol Genet* 17 A Duplication at Chromosome 11q Inhibition of mammalian muscle differentiation by regeneration blastema extract of *Sternopygus macrurus*. *Dev Dyn* CTCF cis-regulates trinucleotide repeat instability in an epigenetic manner: *PLoS Genet* 4 Immunity to adeno-associated virus-mediated gene transfer in a random-bred canine model of Duchenne muscular dystrophy. *Hum Gene Ther* 18 1: Intrastrand annealing leads to the formation of a large DNA palindrome and determines the boundaries of genomic amplification in human cancer. *Mol Cell Biol* 27 6: Mol Ther 15 6: Reciprocal inhibition between Pax7 and muscle regulatory factors modulates myogenic cell fate determination.

2: - NLM Catalog Result

Wang Z., Storb R., Tapscott S.J., Riddell S. () *Analyzing Cellular Immunity to AAV in a Canine Model Using ELISPOT Assay*. In: Kalyuzhny A. (eds) *Handbook of ELISPOT. Methods in Molecular Biology (Methods and Protocols)*, vol

3: TAPSCOTT LAB -- Publications

Due to the more complex immune system in the GRMD dog model of DMD when compared to the mdx mouse, it has been suggested that such a strategy may be less efficient in canine models of the disease.

4: Publications Authored by Stephen J Tapscott | PubFacts

Recent studies have demonstrated cellular immune responses specific to capsid proteins of various AAV serotypes in animal models and in human trials for different diseases. We developed a canine-specific ELISPOT assay to detect such immunity in dogs received AAV treatment.

5: Handbook of ELISPOT : Alexander E. Kalyuzhny :

5 Analyzing Cellular Immunity to AAV in a Canine Model Using ELISPOT Assay 67 purification through a HiTrap heparin column (Amersham, Piscataway, NJ), or by double CsCl gradient centrifugation fol-

ANALYZING CELLULAR IMMUNITY TO AAV IN A CANINE MODEL USING ELISPOT ASSAY ZEJING WANG . [ET AL.] pdf

Ecology of the southern conifers Records of the Connecticut State Society of the Cincinnati, 1783-1804. Third semester: learning about how to work in-between: legal and illegal realms Hero Tales Volume IV Evolving nationalisms : Zionism and Arabism, 1880-1914 Canon powershot a470 manual espa±ol Reengineering the 2010 census Estimation and rounding worksheets Inexplicable logic of my life Cute file Improving strength and flexibility Pierre Franey's cooking in America A Cultural History of Causality Putins rise to power : how the KGB seized power in Russia Mediterranean strategy in the Second World War Extreme Breakup Recovery Open channel flow Create an interactive form V. 2 Appendices A-G. Economics, power, and culture Thoene, Bodie and Brock The Value of Justice Coming to terms with a religious upbringing Infinite riches through Cassandras secret Scent and chemistry the molecular world of odors Small fruit culture Bridge Made Easy Book 2 Accident incident report form Books john grisham Making jesus real Code Improvements Bombay Prohibition Act, 1949 Authentic Georgian dolls house Fe self study guide Black Man I Choose You Writing materials. Seals. Deliver us from love Resistances in series and parallel Reel 469. Lehigh County Religions of the World Buddhism (Religions of the World)