

July 2018

Curtis, TM; Hannett, JM; **Harman, RM**; Puoplo, NA; **Van de Walle, GR**. (2018). [The secretome of adipose-derived mesenchymal stem cells protects SH-SY5Y cells from arsenic-induced toxicity, independent of a neuron-like differentiation mechanism](#). *NeuroToxicology*, 67, 54-64.

DOI: [10.1016/j.neuro.2018.04.009](https://doi.org/10.1016/j.neuro.2018.04.009)

PMID: [29660375](https://pubmed.ncbi.nlm.nih.gov/29660375/)

Voorhees, IEH; Dalziel, BD; Glaser, A; Dubovi, EJ; Murcia, PR; Newbury, S; Toohey-Kurth, K; Su, S; Kriti, D; Van Bakel, H; Goodman, L; Leutenegger, C; Holmes, EC; **Parrish, CR**. (2018). [Multiple Incursions and Recurrent Epidemic Fade-Out of H3N2 Canine Influenza A Virus in the United States](#). *Journal of Virology*, 92(16).

DOI: [10.1128/JVI.00323-18](https://doi.org/10.1128/JVI.00323-18)

PMID: [29875234](https://pubmed.ncbi.nlm.nih.gov/29875234/)

Pennington, MR; Voorhees, IEH; Callaway, HM; Dehghanpir, SD; Baines, JD; **Parrish, CR**; **Van de Walle, GR**. (2018). [The HIV integrase inhibitor raltegravir inhibits felid alphaherpesvirus 1 \(FeHV-1\) replication by targeting both DNA replication and late gene expression](#). *J Virol*. 2018 Jul 25. pii: JVI.00994-18.

DOI: [10.1128/JVI.00994-18](https://doi.org/10.1128/JVI.00994-18)

PMID: [30045987](https://pubmed.ncbi.nlm.nih.gov/30045987/)

PMCID: [PMC6158441](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6158441/)

Ledbetter, EC; Nicklin, AM; Spertus, CB; **Pennington, MR**; **Van de Walle, GR**; Mohammed HO. (2018). [Evaluation of topical ophthalmic ganciclovir gel in the treatment of experimentally induced ocular canine herpesvirus-1 infection](#). *American Journal of Veterinary Research*, 2018 Jul; 79(7), 762-769.

DOI: [10.2460/ajvr.79.7.762](https://doi.org/10.2460/ajvr.79.7.762)

PMID: [29943639](https://pubmed.ncbi.nlm.nih.gov/29943639/)

August 2018

Ledet, MM; Oswald, M; Anderson, R; **Van de Walle, GR**. (2018). [Differential signaling pathway activation in 7,12-dimethylbenz\[a\] anthracene \(DMBA\)-treated mammary stem/progenitor cells from species with varying mammary cancer incidence](#). *Oncotarget*. 2018 Aug 28;9(67):32761-32774.

DOI: [10.18632/oncotarget.25988](https://doi.org/10.18632/oncotarget.25988)

PMID: [30214683](https://pubmed.ncbi.nlm.nih.gov/30214683/)

PMCID: [PMC6132353](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6132353/)

Harman, RB; He, MK; Zhang, S; **Van De Walle, GR**. (2018). [Plasminogen activator inhibitor-1 and tenascin-C secreted by equine mesenchymal stromal cells stimulate dermal fibroblast migration in vitro and contribute to wound healing in vivo](#). *Cytotherapy*. 2018 Aug;20(8):1061-1076.

DOI: [10.1016/j.jcyt.2018.06.005](https://doi.org/10.1016/j.jcyt.2018.06.005)

PMID: [30087008](https://pubmed.ncbi.nlm.nih.gov/30087008/)

Cassano, JM; Fortier, LA; Hicks, RB; **Harman, RM**; **Van de Walle, GR**. (2018). [Equine mesenchymal stromal cells from different tissue sources display comparable immune-related gene expression profiles in response to interferon gamma \(IFN\)- \$\gamma\$](#) . *Vet Immunol Immunopathol*. 2018 Aug;202:25-30.

DOI: [10.1016/j.vetimm.2018.06.008](https://doi.org/10.1016/j.vetimm.2018.06.008)
PMID: [30078595](#)

Pennington, MR; Grenier, JK; Van de Walle, GR. (2018). Transcriptome profiling of alphaherpesvirus-infected cells treated with the HIV-integrase inhibitor raltegravir reveals profound and specific alterations in host transcription. *J Gen Virol.* 2018 Aug;99(8):1115-1128.

DOI: [10.1099/jgv.0.001090](https://doi.org/10.1099/jgv.0.001090)
PMID: [29916804](#)

September 2018

Oyesola, OO; Früh SP; Webb, LM; Tait Wojno, ED. (2018). Cytokines and beyond: Regulation of innate immune responses during helminth infection. *Cytokine.* 2018 Sep 18. pii: S1043-4666(18)30356-9.

DOI: [10.1016/j.cyto.2018.08.021](https://doi.org/10.1016/j.cyto.2018.08.021).
PMID: [30241895](#)

October 2018

Parrish CR. (2018) Exposing a Virus Hiding in the Animal Facility. (2018). *Cell.* 2018 Oct 4;175(2):310-311.

DOI: [10.1016/j.cell.2018.09.033](https://doi.org/10.1016/j.cell.2018.09.033)
PMID: [30290137](#)

Dumas, SE; Lewis, D; Travis, AJ. (2018). Small-scale egg production centres increase children's egg consumption in rural Zambia. *Matern Child Nutr.* 2018 Oct;14 Suppl 3:e12662.

DOI: [10.1111/mcn.12662](https://doi.org/10.1111/mcn.12662).
PMID: [30332540](#)

Schinfeld, J; Sharara, F; Morris, R; Palermo, GD; Rosenwaks, Z; Seaman, E; Hirschberg, S; Cook, J; Cardona, C; Ostermeier, CG; **Travis, AJ.** (2018). Cap-Score™ prospectively predicts probability of pregnancy. *Molecular Reproduction and Development,* 85(8-9), 654-664.

DOI: [10.1002/mrd.23057](https://doi.org/10.1002/mrd.23057)
PMID: [30187594](#)

November 2018

Chu, T; Rice, EJ; Booth, GT; Salamanca, HH; Wang, Z; Core, LJ; Longo, SL; Corona, RJ; Chin, LS; Lis, JT; Kwak, H; Danko, CG. (2018). Chromatin run-on and sequencing maps the transcriptional regulatory landscape of glioblastoma multiforme. *Nature Genetics,* 50(11), 1553-1564.

DOI: [10.1038/s41588-018-0244-3](https://doi.org/10.1038/s41588-018-0244-3)
PMID: [30349114](#)
PMCID: [PMC6204104](#)

Dunbar CA; Callaway HM; **Parrish CR**; Jarrold MF (2018). Probing Antibody Binding to Canine Parvovirus with Charge Detection Mass Spectrometry. *J Am Chem. Soc.* 2018 Nov 21;140(46):15701-15711

DOI: [10.1021/jacs.8b08050](https://doi.org/10.1021/jacs.8b08050)

PMID: [30398860](https://pubmed.ncbi.nlm.nih.gov/30398860/)

Joo EJ; Wasik BR; **Parrish C**; Paz H; Mühlenhoff M; Abdel-Azim H; Groffen J; Heisterkamp N. (2018). Pre-B acute lymphoblastic leukemia expresses cell surface nucleolin as a 9-O-acetylated sialoglycoprotein. *Sci Rep.* 2018 Nov 21;8(1):17174.

DOI: [10.1038/s41598-018-33873-2](https://doi.org/10.1038/s41598-018-33873-2)

PMID: [30464179](https://pubmed.ncbi.nlm.nih.gov/30464179/)

PMCID: [PMC6249323](https://pubmed.ncbi.nlm.nih.gov/PMC6249323/)

Pennington, MR; Capriotti, AJ; **Van de Walle, GR**. (2018). In vitro efficacy of povidone iodine and hydroxyethyl cellulose, alone and in combination, against common feline ocular pathogens. *Vet J.* 2018 Nov;241:38-41.

DOI: [10.1016/j.tvjl.2018.09.011](https://doi.org/10.1016/j.tvjl.2018.09.011)

PMID: [30340658](https://pubmed.ncbi.nlm.nih.gov/30340658/)

Rowland AL, Xu JJ, Joswig AJ, Gregory CA, **Antczak DF**, Cummings KJ, Watts AE. (2018). In vitro MSC function is related to clinical reaction in vivo. *Stem Cell Res Ther.* 2018 Nov 8;9(1):295.

DOI: [10.1186/s13287-018-1037-4](https://doi.org/10.1186/s13287-018-1037-4)

PMID: [30409211](https://pubmed.ncbi.nlm.nih.gov/30409211/)

PMCID: [PMC6225557](https://pubmed.ncbi.nlm.nih.gov/PMC6225557/)

Theodore S. Kalbfleisch, Edward S. Rice, Michael S. DePriest, Jr., Brian P. Walenz, Matthew S. Hestand, Joris R. Vermeesch, Brendan L. O'Connell, Ian T. Fiddes, Alisa O. Vershinina, Nedda F. Saremi, Jessica L. Petersen, Carrie J. Finno, Rebecca R. Bellone, Molly E. McCue, Samantha A. Brooks, Ernest Bailey, Ludovic Orlando, Richard E. Green, Donald C. Miller, **Douglas F. Antczak**, and James N. MacLeod. Improved reference genome for the domestic horse increases assembly contiguity and composition. *Commun Biol.* 2018 Nov 16;1:197.

DOI: [https://www.nature.com/articles/s42003-018-0199-z](https://doi.org/https://www.nature.com/articles/s42003-018-0199-z)

PMID: [30456315](https://pubmed.ncbi.nlm.nih.gov/30456315/)

PMCID: [PMC6240028](https://pubmed.ncbi.nlm.nih.gov/PMC6240028/)

December 2018

Wang, Z; Chu, T; Choate, L; **Danko CG**, (2018). Identification of regulatory elements from nascent transcription using dREG. *Genome Research.* 2018 Dec 20.

DOI: [10.1101/321539](https://doi.org/10.1101/321539)

PMID: [30573452](https://pubmed.ncbi.nlm.nih.gov/30573452/)

PMCID: [PMC6360809](https://pubmed.ncbi.nlm.nih.gov/PMC6360809/)

Liu Y; Lightfoot YL; Seto N; Carmona-Rivera C; Moore E; Goel R; O'Neil L; Mistry P; Hoffmann V; Mondal S; Premnath PN; Gribbons K; Dell'Orso S; Jiang K; Thompson PR; Sun HW; **Coonrod SA**; Kaplan MJ. (2018). Peptidylarginine deiminases 2 and 4 modulate innate and adaptive immune responses in TLR-7-dependent lupus. *JCI Insight.* 2018 Dec 6;3(23). pii: 124729

DOI: [10.1172/jci.insight.124729](https://doi.org/10.1172/jci.insight.124729)
PMID: [30518690](#)

Tomlinson, JE; Tenant, BC; Struzyna, A; Mrad, D; Browne, N; Whelchel, D; Johnson, PJ; Jamieson, C; Löhr, CV; Bildfell, R; McKenzie, EC; Laverack, M; Renshaw, RW; Dubovi, E; Kapoor, A; Meirs, RS; Belgrave, R; Engiles, J; Van de Walle, GR; Divers, TJ. (2018). [Viral testing of 10 cases of Theiler's disease and 37 in-contact horses in the absence of equine biologic product administration: A prospective study \(2014-2018\)](#). J Vet Intern Med. 2019 Jan;33(1) 258-265

DOI: [10.1111/jvim.15362](https://doi.org/10.1111/jvim.15362)
PMID: [30520132](#)
PMCID: [PMC6335540](#)

Note: One of two papers voted as the most important papers of the year in the "Best LAIM Papers of the Year", talk at the American College of Veterinary Internal Medicine (ACVIM) annual forum in Phoenix, AZ, June 2019.

Tomlinson, JE; Kapoor, A; Kumar, A; Tenant, BC; Laverack, MA; Beard, L; Delph, K; Davis, E; Schott, Ii H; Lascola, K; Holbrook, TC; Johnson, P; Taylor, SD; McKenzie, E; Carter-Arnold, J; Setlakwe, E; Fultz, L; Brakenhoff, J; Ruby, R; Trivedi, S; Van de Walle, GR; Renshaw, RW; Dubovi, EJ; Divers, TJ; (2018). [Viral testing of 18 consecutive cases of equine serum hepatitis: A prospective study \(2014-2018\)](#). J Vet Intern Med. 2019 Jan;33(1):251-257.

DOI: [10.1111/jvim.15368](https://doi.org/10.1111/jvim.15368)
PMID: [30520162](#)
PMCID: [PMC6335536](#)

Note: One of two papers voted as the most important papers of the year in the "Best LAIM Papers of the Year", talk at the American College of Veterinary Internal Medicine (ACVIM) annual forum in Phoenix, AZ, June 2019.

Sadeghi R, Moradi-Shahrabak, Miraei Ashtiani SR, Schlamp F, Cosgrove EJ, Antczak DF. (2018). [Genetic Diversity of Persian Arabian Horses and Their Relationship to Other Native Iranian Horse Breeds](#). J Hered. 2018 Dec 27.

DOI: [10.1093/jhered/esy061](https://doi.org/10.1093/jhered/esy061)
PMID: [30590570](#)

January 2019

Saikia M; Burnham P; Keshavjee SH; Wang MFZ; Heyang M; Moral-Lopez P; Hinchman MM; Danko CG; Parker JSL; De Vlaminck I. (2018). [Simultaneous multiplexed amplicon sequencing and transcriptome profiling in single cells](#). Nat Methods. 2019 Jan;16(1):59-62.

DOI: [doi: 10.1038/s41592-018-0259-9](https://doi.org/10.1038/s41592-018-0259-9)
PMID: [30559431](#)
PMCID: [PMC6378878](#)

February 2019

Harman RM, Theoret, CL, Van de Walle, GR, (2019). The horse as a model for the study of cutaneous wound healing. *The Ohio State University Comprehensive Wound Center*. In-press.

Lauren M. Webb, Oyesola O. Oyesola, Simon P. Frueh, Elena Kamynina, Katherine M. Still, Ravi Patel, Seth A. Peng, Rebecca L. Cubitt, Andrew W. Grimson, Jennifer K. Grenier, Tajie H. Harris, Charles G. Danko, and Elia D. Tait Wojno (2019). The Notch signaling pathway promotes basophil responses during helminth-induced type 2 inflammation. In *The Journal of Experimental Medicine*: 2018 May, 200 (1 Supplement) 168:16. In-press.

Elia D. Tait Wojno, Christopher A. Hunter, and Jason S. Stumhofer. (2019). The immunobiology of the interleukin-12 family: Room for discovery. In *Immunity*: In-press.

March 2019

Callaway HM, Subramanian S, Urbina CA, Barnard KN, Dick RA, Bator CM, Hafenstein SL, Gifford RJ, **Parrish CR**. (2019) Examination and Reconstruction of Three Ancient Endogenous Parvovirus Capsid Protein Gene Remnants Found in Rodent Genomes. J Virol. 2019 Mar 5;93(6). pii: e01542-18

DOI: <https://jvi.asm.org/content/93/6/e01542-18/article-info>

PMID: [30626673](#)

PMCID: [PMC6401472](#)

April 2019

None

May 2019

Tomlinson JE, Van de Walle GR, Divers TJ. (2019) What Do We Know about Hepatitis Viruses in Horses? Vet Clin North Am Equine Pract. 2019 May 10. pii: S0749-0739(19)30013-6.

DOI: [10.1016/j.cveq.2019.03.001](https://doi.org/10.1016/j.cveq.2019.03.001)

PMID: [31084975](#)

Spertus CB, Pennington MR, Van de Walle GR, Badanes ZI, Judd BE, Mohammed HO, Ledbetter EC. Effects of orally administered raltegravir in cats with experimentally induced ocular and respiratory feline herpesvirus-1 infection. Am J Vet Res. 2019 May;80(5):490-497.

DOI: [10.2460/ajvr.80.5.490](https://doi.org/10.2460/ajvr.80.5.490)

PMID: [31034270](#)

Wang Z, Christie MA, Abeysinghe E, Chu T, Marru S, Pierce M, Danko CG. Building a Science Gateway for Processing and Modeling Sequencing Data Via Apache Airavata. Proceedings of the Practice and Experience on Advanced Research Computing. Proceeding. PEARC '18, Article No. 39, Pittsburg, PA, July 22 – 26, 2018

<https://dl.acm.org/citation.cfm?doid=3219104.3219141>

Lu YC, Chu T, Hall MS, Fu DJ, Shi Q, Chiu A, An D, Wang LH, Pardo Y, Southard T, **Danko CG**⁷, Liphardt J, Nikitin AY, Wu M, Fischbach C, **Coonrod S**, Ma M. (2019). Physical confinement induces malignant transformation in mammary epithelial cells. Biomaterials. 2019 Oct;217:119307.

doi: [10.1016/j.biomaterials.2019.119307](https://doi.org/10.1016/j.biomaterials.2019.119307)

PMID: [31271857](#)

June 2019

Chu T, Wang Z, Chou SP, Danko CG. [Discovering Transcriptional Regulatory Elements From Run-On and Sequencing Data Using the Web-Based dREG Gateway](#). Curr Protoc Bioinformatics. 2019 Jun;66(1):e70.

doi: [10.1002/cpb1.70](https://doi.org/10.1002/cpb1.70)

PMID: [30589513](https://pubmed.ncbi.nlm.nih.gov/30589513/)

PMCID: PMC6584046 (delayed release)

Tramontano E, Tarbet B, Spengler JR, Seley-Radtke K, Meier C, Jordan R, Janeba Z, Gowen B, Gentry B, Esté JA, Bray M, Andrei G, **Schang LM**; on behalf of the International Society for Antiviral Research - ISAR (2019). [Meeting report: 32nd International Conference on Antiviral Research](#). Antiviral Res. 2019 Jul 11;169:104550.

DOI: [10.1016/j.antiviral.2019.104550](https://doi.org/10.1016/j.antiviral.2019.104550)

PMID: [31302149](https://pubmed.ncbi.nlm.nih.gov/31302149/)