

**Vitalant Research Institute
(Formerly Blood Systems Research Institute)
Publications**

May 2021 thru January 2022

Peer-Reviewed Papers (Professional Journals):

- [Descriptive Epidemiology From the Research in Osteochondritis Dissecans of the Knee \(ROCK\) Prospective Cohort.](#) Nissen CW, Albright JC, Anderson CN, Busch MT, Carlson C, Carsen S, Chambers HG, Edmonds EW, Ellermann JM, Ellis HB Jr, Erickson JB, Fabricant PD, Ganley TJ, Green DW, Grimm NL, Heyworth BE, Po JHH, Kocher MS, Kostyun RO, Krych AJ, Latz KH, Loveland DM, Lyon RM, Mayer SW, Meenen NM, Milewski MD, Myer GD, Nelson BJ, Nepple JJ, Nguyen JC, Pace JL, Paterno MV, Pennock AT, Perkins CA, Polousky JD, Saluan P, Shea KG, Shearier E, Tompkins MA, Wall EJ, Weiss JM, Willimon SC, Wilson PL, Wright RW, Zbojniewicz AM, Carey JL; ROCK Group. *Am J Sports Med.* 2022 Jan;50(1):118-127. doi: 10.1177/03635465211057103. Epub 2021 Nov 24. PMID: 34818065.
- [SARS-CoV-2 Infection of Rhesus Macaques Treated Early with Human COVID-19 Convalescent Plasma.](#) Deere JD, Carroll TD, Dutra J, Fritts L, Sammak RL, Yee JL, Olstad KJ, Reader JR, Kistler A, Kamm J, Di Germanio C, Shaan Lakshmanappa Y, Elizaldi SR, Roh JW, Simmons G, Watanabe J, Pollard RE, Usachenko J, Immareddy R, Schmidt BA, O'Connor SL, DeRisi J, **Busch MP**, Iyer SS, Van Rompay KKA, Hartigan-O'Connor DJ, Miller CJ. *Microbiol Spectr.* 2021 Dec 22;9(3):e0139721. doi: 10.1128/Spectrum.01397-21. Epub 2021 Nov 24. PMID: 34817208.
- [Donor genetic and nongenetic factors affecting red blood cell transfusion effectiveness.](#) Roubinian NH, Reese SE, Qiao H, Plimier C, Fang F, Page GP, Cable RG, Custer B, Gladwin MT, Goel R, Harris B, Hendrickson JE, Kaniyas T, Kleinman S, Mast AE, Sloan SR, Spencer BR, Spitalnik SL, **Busch MP**, Hod EA; National Heart Lung and Blood Institute (NHLBI) Recipient Epidemiology and Donor Evaluation Study IV Pediatrics (REDS-IV-P). *JCI Insight.* 2022 Jan 11;7(1):e152598. doi: 10.1172/jci.insight.152598. PMID: 34793330.
- [A novel high performing multiplex immunoassay Multi-HTLV for serological confirmation and typing of HTLV infections.](#) Marqué L, Liehl P, De Boer J, Pottel H, Murphy EL, Bruhn R, Stone M, Kaidarova Z, Lee TH, **Busch M**, Zrein M. *PLoS Negl Trop Dis.* 2021 Nov 1;15(11):e0009925. doi: 10.1371/journal.pntd.0009925. eCollection 2021 Nov. PMID: 34724004.
- [Using sero-epidemiology to monitor disparities in vaccination and infection with SARS-CoV-2.](#) Routledge I, Takahashi S, Epstein A, Hakim J, Janson O, Turcios K, Vinden J, Risos JT, Baniqued MR, Pham L, Di Germanio C, **Busch M**, Kushel M, Greenhouse B, Rodríguez-Barraquer I. *medRxiv.* 2021 Oct 20:2021.10.06.21264573. doi: 10.1101/2021.10.06.21264573. Preprint. PMID: 34642695.
- [Elevated Cerebrospinal Fluid Anti-CD4 Autoantibody Levels in HIV Associate with Neuroinflammation.](#) Cheng D, Luo Z, Fu X, Stephenson S, Di Germanio C, **Norris PJ**, Fuchs D, Ndhlovu LC, Li QZ, Zetterberg H, Gisslen M, Price RW, Peng S, Jiang W. *Microbiol Spectr.* 2022 Jan 5;10(1):e0197521. doi: 10.1128/spectrum.01975-21. Online ahead of print. PMID: 34985329.
- [Economic implications of FDA platelet bacterial guidance compliance options: Comparison of single-step strategies.](#) Prioli KM, Abersone I, Kopko PM, Herman JH, **Custer B**, Pizzi LT. *Transfusion.* 2022 Jan 8. doi: 10.1111/trf.16778. Online ahead of print. PMID: 34997763.

- [Clonal hematopoiesis in sickle cell disease.](#) Liggett LA, Cato LD, Weinstock JS, Zhang Y, Nourai SM, Gladwin MT, Garrett ME, Ashley-Koch A, Telen M, **Custer B**, Kelly S, Dinardo C, Sabino EC, Loureiro P, Carneiro-Proietti A, Maximo C, Reiner AP, Abecasis GR, Williams DA, Natarajan P, Bick AG, Sankaran VG. *J Clin Invest.* 2022 Jan 6:e156060. doi: 10.1172/JCI156060. Online ahead of print. PMID: 34990411.
 - [Current challenges of severe acute respiratory syndrome coronavirus 2 seroprevalence studies among blood donors: A scoping review.](#) Saeed S, Uzicanin S, Lewin A, Lieshout-Krikke R, Faddy H, Erikstrup C, Osiowy C, Seed CR, Steele WR, Davison K, **Custer B**, O'Brien SF; Surveillance Risk Assessment and Policy (SRAP) Sub-group of the Transfusion Transmitted Infectious Diseases Working Party of the International Society of Blood Transfusion. *Vox Sang.* 2021 Dec 3. doi: 10.1111/vox.13221. Online ahead of print. PMID: 34862614.
 - [Individualized risk trajectories for iron-related adverse outcomes in repeat blood donors.](#) Russell WA, Scheinker D, **Custer B**. *Transfusion.* 2022 Jan;62(1):116-124. doi: 10.1111/trf.16740. Epub 2021 Nov 16. PMID: 34783364.
- [Access to and safety of COVID-19 convalescent plasma in the United States Expanded Access Program: A national registry study.](#) Senefeld JW, Johnson PW, Kunze KL, Bloch EM, van Helmond N, Golafshar MA, Klassen SA, Klompas AM, Sexton MA, Diaz Soto JC, Grossman BJ, Tobian AAR, Goel R, Wiggins CC, Bruno KA, van Buskirk CM, Stubbs JR, Winters JL, Casadevall A, Paneth NS, Shaz BH, Petersen MM, Sachais BS, Buras MR, Wieczorek MA, Russoniello B, **Dumont LJ**, Baker SE, Vassallo RR, Shepherd JRA, Young PP, Verdun NC, Marks P, Haley NR, Rea RF, Katz L, Herasevich V, Waxman DA, Whelan ER, Bergman A, Clayburn AJ, Grabowski MK, Larson KF, Ripoll JG, Andersen KJ, Vogt MNP, Dennis JJ, Regimbal RJ, Bauer PR, Blair JE, Buchholtz ZA, Pletsch MC, Wright K, Greenshields JT, Joyner MJ, Wright RS, Carter RE, Fairweather D. *PLoS Med.* 2021 Dec 20;18(12):e1003872. doi: 10.1371/journal.pmed.1003872. eCollection 2021 Dec. PMID: 34928960.
- [Consensus Statement: Hemostasis Trial Outcomes in Cardiac Surgery and Mechanical Support.](#) Levy JH, Faraoni D, Almond CS, Baumann-Kreuziger L, Bembea MM, Connors JM, Dalton HJ, Davies R, **Dumont LJ**, Griselli M, Karkouti K, Massicotte MP, Teruya J, Thiagarajan RR, Spinella PC, Steiner ME. *Ann Thorac Surg.* 2021 Nov 24:S0003-4975(21)01975-5. doi: 10.1016/j.athoracsur.2021.09.080. Online ahead of print. PMID: 34826386.
 - [Preservation of neutralizing antibody function in COVID-19 convalescent plasma treated using a riboflavin and ultraviolet light-based pathogen reduction technology.](#) Yonemura S, Hartson L, Dutt TS, Henao-Tamayo M, Goodrich R, **Marschner S**. *Vox Sang.* 2021 Nov;116(10):1076-1083. doi: 10.1111/vox.13108. Epub 2021 Apr 9. PMID: 33835489.
 - [Nutrition, Inflammation, and the Gut Microbiota among Outpatients with Active Tuberculosis Disease in India.](#) Huey SL, **Yu EA**, Finkelstein JL, Glesby MJ, Bonam W, Russell DG, Mehta S. *Am J Trop Med Hyg.* 2021 Oct 18;105(6):1645-1656. doi: 10.4269/ajtmh.21-0310. PMID: 34662867
 - [Somatic STAT3 mutations in CD8+ T cells of healthy blood donors carrying human T-cell leukemia virus type 2.](#) Kim D, Myllymäki M, Kankainen M, Jarvinen T, Park G, Bruhn R, **Murphy EL**, Mustjoki S. *Haematologica.* 2021 Oct 28. doi: 10.3324/haematol.2021.279140. Online ahead of print. PMID: 34706498.
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 - [From COVID-19 to the Common Cold: Novel Host-Targeted, Pan-Respiratory Antiviral Small Molecule Therapeutics.](#) Selvarajah S, Lingappa AF, Michon M, Du L, Deiter F, Yu SF, Macieik A, Malleth S, Appaiah U, Crabtree J, Copeland K, Müller-Schiffmann A, Müller L, Ostermann PN, Andrée M, Adams O, Schaal H, Hogan RJ, Tripp RA, Anand SK, Campi TW, Ford MJ, Reed JC, Lin J, Akintunde O, Nichols C, Petrouski E,

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- [Emergence of Multiple SARS-CoV-2 Antibody Escape Variants in an Immunocompromised Host Undergoing Convalescent Plasma Treatment.](#) Chen L, Zody MC, Di Germanio C, Martinelli R, Mediavilla JR, Cunningham MH, Composto K, Chow KF, Kordalewska M, Corvelo A, Oschwald DM, Fennessey S, Zetkulis M, Dar S, Kramer Y, Mathema B, Germer S, **Stone M, Simmons G, Busch MP**, Maniatis T, Perlin DS, Kreiswirth BN. mSphere. 2021 Aug 25;6(4):e0048021. doi: 10.1128/mSphere.00480-21. Epub 2021 Aug 25. PMID: 34431691.
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 - [Composition of Eukaryotic Viruses and Bacteriophages in Individuals with Acute Gastroenteritis.](#) do Socorro Fôro Ramos E, de Oliveira Ribeiro G, Villanova F, de Padua Milagres FA, Brustulin R, Araújo ELL, Pandey RP, Raj VS, **Deng X**, Delwart E, Luchs A, da Costa AC, Leal É. Viruses. 2021 Nov 25;13(12):2365. doi: 10.3390/v13122365. PMID: 34960634.
- [Human astrovirus types 1, 4 and 5 circulating among children with acute gastroenteritis in a rural Brazilian state, 2010-2016.](#) Luchs A, Tardy K, Tahmasebi R, Morillo SG, Milagres FAP, Morais VDS, Brustulin R, Teles MDAR, de Azevedo LS, de Souza EV, Medeiros RS, de Souza YFVP, Araújo ELL, Witkin SS, Deng X, Delwart E, Sabino EC, Leal E, da Costa AC. Arch Virol. 2021 Nov;166(11):3165-3172. doi: 10.1007/s00705-021-05206-8. Epub 2021 Aug 21. PMID: 34417874.
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 - [Incidence and Predictors of Progression to Chagas Cardiomyopathy: Long-Term Follow-Up of Trypanosoma Cruzi Seropositive Individuals.](#) Nunes MCP, Buss LF, da Silva JLP, Martins LNA, Di Lorenzo Oliveira C, Cardoso CS, Brito BOF, Ferreira AM, Oliveira LC, Bierrenbach AL, Fernandes F, **Busch MP**, Hotta VT, Martinelli LMB, Almeida Soeiro MCF, Brentegani A, Salemi VMC, Menezes MM, Ribeiro ALP, Sabino EC. Circulation. 2021 Sep 27. doi: 10.1161/CIRCULATIONAHA.121.055112. Online ahead of print. PMID: 34565171.
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- [Early post-infection treatment of SARS-CoV-2 infected macaques with human convalescent plasma with high neutralizing activity reduces lung inflammation.](#) Van Rompay KKA, Olstad KJ, Sammak RL, Dutra J, Watanabe JK, Usachenko JL, Immareddy R, Roh JW, Verma A, Lakshmanappa YS, Schmidt BA, Germanio CD, Rizvi N, Stone M, Simmons G, Dumont LJ, Allen AM, Lockwood S, Pollard RE, de Assis RR, Yee JL, Nham PB, Ardeshir A, Deere JD, Patterson J, Jain A, Felgner PL, Iyer SS, Hartigan-Oâ Connor DJ, **Busch MP**, Reader JR. *bioRxiv*. 2021 Sep 1:2021.09.01.458520. doi: 10.1101/2021.09.01.458520. Preprint. PMID: 34494025.
- [Estimated US Infection- and Vaccine-Induced SARS-CoV-2 Seroprevalence Based on Blood Donations, July 2020-May 2021.](#) Jones JM, Stone M, Sulaeman H, Fink RV, Dave H, Levy ME, Di Germanio C, Green V, Notari E, Saa P, Biggerstaff BJ, Strauss D, Kessler D, Vassallo R, Reik R, Rossmann S, Destree M, Nguyen KA, Sayers M, Lough C, Bougie DW, Ritter M, Latoni G, Weales B, Sime S, Gorlin J, Brown NE, Gould CV, Berney K, Benoit TJ, Miller MJ, Freeman D, Kartik D, Fry AM, Azziz-Baumgartner E, Hall AJ, MacNeil A, Gundlapalli AV, Basavaraju SV, Gerber SI, Patton ME, Custer B, Williamson P, Simmons G, Thornburg NJ, Kleinman S, Stramer SL, Opsomer J, **Busch MP**. *JAMA*. 2021 Sep 2. doi: 10.1001/jama.2021.15161. Online ahead of print. PMID: 34473201.
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