BIBLIOGRAPHY

- Ahmed, Faheem, Na'eem Ahmed, Christopher Pissarides, and Joseph Stiglitz. "Why Inequality Could Spread COVID-19." *The Lancet Public Health* 5, no. 5 (May 2020): e240. https://doi.org/10.1016/S2468-2667(20)30085-2.
- Akey, A. *Fine-Tune Your Hormone Symphony*. Fine Images Printing, 2011. https://books.google.com/books?id=tkjbsgEACAAJ.
- Alschuler, Lise, Andrew Weil, Randy Horwitz, Paul Stamets, Ann Marie Chiasson, Robert Crocker, and Victoria Maizes. "Integrative Considerations during the COVID-19 Pandemic." *EXPLORE* (March 2020): S1550830720301130. https://doi.org/10.1016/j.explore.2020.03.007.
- Amanat, Fatima, and Florian Krammer. "SARS-CoV-2 Vaccines: Status Report." *Immunity* 52, no. 4 (April 14, 2020): 583–89. https://doi.org/10.1016/j.immuni.2020.03.007.
- American College of Physicians. "COVID-19: An ACP Physician's Guide + Resources (Last Updated May 12, 2020)." Accessed May 14, 2020. https://assets.acponline.org/coronavirus/scormcontent/?&_ga=2.242669314.1098768089.1587605499-651746544.1584673462#/lessons/qyvMLvvGY9797hz_qahPbijpWJ9_Tit8.
- Anna Cabeca. "Alkalinity, PH Balance & Designing The Optimal Keto-Alkaline® (Keto-Greentm) Diet." Dr. Anna Cabeca, March 7, 2017. https://drannacabeca.com/blogs/keto-alkaline-diet/alkalinity-ph-balance-designing-the-optimal-keto-alkaline-diet.
- APIC. "Don't Touch Your Face." Accessed May 2, 2020. https://apic.org/monthly_alerts/dont-touch-your-face/.
- APM Research Lab Staff. "The Color of Coronavirus: COVID-19 Deaths by Race and Ethnicity in the U.S." APM Research Lab, May 12, 2020. https://www.apmresearchlab.org/covid/deaths-by-race.
- Argentyn 23. "Safety & Toxicity · Argentyn 23 · The Ultimate Refinement in Colloidal Silver." Accessed May 14, 2020. https://www.argentyn23.com/the-science-of-silver/safety-and-toxicity/.
- Bao, Linlin, Wei Deng, Hong Gao, Chong Xiao, Jiayi Liu, Jing Xue, Qi Lv, et al. "Lack of Reinfection in Rhesus Macaques Infected with SARS-CoV-2." Preprint.

 Microbiology, March 14, 2020. https://doi.org/10.1101/2020.03.13.990226.

- Benson, Kathleen F., Paul Stamets, Renee Davis, Regan Nally, Alex Taylor, Sonya Slater, and Gitte S. Jensen. "The Mycelium of the Trametes Versicolor (Turkey Tail) Mushroom and Its Fermented Substrate Each Show Potent and Complementary Immune Activating Properties in Vitro." *BMC Complementary and Alternative Medicine* 19, no. 1 (December 2019): 342. https://doi.org/10.1186/s12906-019-2681-7.
- Biggerstaff, Matthew, Simon Cauchemez, Carrie Reed, Manoj Gambhir, and Lyn Finelli. "Estimates of the Reproduction Number for Seasonal, Pandemic, and Zoonotic Influenza: A Systematic Review of the Literature." *BMC Infectious Diseases* 14, no. 1 (September 4, 2014): 480. https://doi.org/10.1186/1471-2334-14-480.
- Bussmann, Rainer W, and Douglas Sharon. "Traditional Medicinal Plant Use in Northern Peru: Tracking Two Thousand Years of Healing Culture." *Journal of Ethnobiology and Ethnomedicine* 2, no. 1 (December 2006): 47. https://doi.org/10.1186/1746-4269-2-47.
- Carr, Anitra C., and Silvia Maggini. "Vitamin C and Immune Function." *Nutrients* 9, no. 11 (November 3, 2017). https://doi.org/10.3390/nu9111211.
- Carroll, Aaron E. "It's Too Soon to Reopen States. The Coronavirus Is Not Under Control." *The New York Times*, April 22, 2020, sec. Opinion. https://www.nytimes.com/2020/04/22/opinion/coronavirus-states-reopen.html.
- CDC. "Confirmation of COVID-19 in Two Pet Cats in New York." Centers of Disease Control and Prevention, April 22, 2020. https://www.cdc.gov/media/releases/2020/s0422-covid-19-cats-NYC.html.
- CDC. "Coronavirus Disease 2019 (COVID-19)." Centers for Disease Control and Prevention, February 11, 2020. https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-guidance-management-patients.html.
- CDC. "COVIDView: A Weekly Surveillance Summary of U.S. COVID-19 Activity." Centers for Disease Control and Prevention, May 15, 2020. https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html.
- CDC. "Interim Clinical Guidance for Management of Patients with Confirmed Coronavirus Disease (COVID-19)." Centers for Disease Control and Prevention, February 11, 2020. https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-guidance-management-patients.html.
- CDC. "Sleep and Health." Centers for Disease Control and Prevention, September 11, 2019. https://www.cdc.gov/healthyschools/sleep.htm.

- CDC. "Symptoms of Coronavirus." Centers for Disease Control and Prevention, May 13, 2020. https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html.
- Chan, K. H., J. S. Malik Peiris, S. Y. Lam, L. L. M. Poon, K. Y. Yuen, and W. H. Seto. "The Effects of Temperature and Relative Humidity on the Viability of the SARS Coronavirus." *Advances in Virology* 2011 (2011): 1–7. https://doi.org/10.1155/2011/734690.
- Choe, Jung-Yoon, and Seong-Kyu Kim. "Quercetin and Ascorbic Acid Suppress Fructose-Induced NLRP3 Inflammasome Activation by Blocking Intracellular Shuttling of TXNIP in Human Macrophage Cell Lines." *Inflammation* 40, no. 3 (March 22, 2017): 980–94. https://doi.org/10.1007/s10753-017-0542-4.
- Chu, Victor C., Lisa J. McElroy, Vicky Chu, Beverley E. Bauman, and Gary R. Whittaker. "The Avian Coronavirus Infectious Bronchitis Virus Undergoes Direct Low-PH-Dependent Fusion Activation during Entry into Host Cells." *Journal of Virology* 80, no. 7 (April 1, 2006): 3180–88. https://doi.org/10.1128/JVI.80.7.3180-3188.2006.
- CIDRAP. "COVID-19: The CIDRAP Viewpoint." Accessed May 2, 2020. https://www.cidrap.umn.edu/covid-19/covid-19-cidrap-viewpoint.
- Colavita, Francesca, Daniele Lapa, Fabrizio Carletti, Eleonora Lalle, Licia Bordi, Patrizia Marsella, Emanuele Nicastri, et al. "SARS-CoV-2 Isolation From Ocular Secretions of a Patient With COVID-19 in Italy With Prolonged Viral RNA Detection." *Annals of Internal Medicine* (April 17, 2020). https://doi.org/10.7326/M20-1176.
- Comalada, Mònica, Desirée Camuesco, Saleta Sierra, Isabel Ballester, Jordi Xaus, Julio Gálvez, and Antonio Zarzuelo. "In Vivo Quercitrin Anti-Inflammatory Effect Involves Release of Quercetin, Which Inhibits Inflammation through down-Regulation of the NF-KB Pathway." *European Journal of Immunology* 35, no. 2 (2005): 584–92. https://doi.org/10.1002/eji.200425778.
- Commissioner, Office of the. "Emergency Use Authorization." *FDA*, May 16, 2020. https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization.
- Dabbagh-Bazarbachi, Husam, Gael Clergeaud, Isabel M. Quesada, Mayreli Ortiz, Ciara K. O'Sullivan, and Juan B. Fernández-Larrea. "Zinc Ionophore Activity of Quercetin and Epigallocatechin-Gallate: From Hepa 1-6 Cells to a Liposome

- Model." *Journal of Agricultural and Food Chemistry* 62, no. 32 (July 22, 2014): 8085–93. https://doi.org/10.1021/jf5014633.
- Dai, Dongjuan, Aaron J. Prussin, Linsey C. Marr, Peter J. Vikesland, Marc A. Edwards, and Amy Pruden. "Factors Shaping the Human Exposome in the Built Environment: Opportunities for Engineering Control." *Environmental Science & Technology* 51, no. 14 (July 18, 2017): 7759–74. https://doi.org/10.1021/acs.est.7b01097.
- Daneshkhah, Ali, Vasundhara Agrawal, Adam Eshein, Hariharan Subramanian, Hemant Kumar Roy, and Vadim Backman. "The Possible Role of Vitamin D in Suppressing Cytokine Storm and Associated Mortality in COVID-19 Patients." MedRxiv, May 18, 2020, 2020.04.08.20058578. https://doi.org/10.1101/2020.04.08.20058578
- Davis, James W., Richard Chung, and Deborah T. Juarez. "Prevalence of Comorbid Conditions with Aging among Patients with Diabetes and Cardiovascular Disease." *Hawaii Medical Journal* 70, no. 10 (October 2011): 209–13. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3215980/.
- Doremalen, Neeltje van, Trenton Bushmaker, Dylan H. Morris, Myndi G. Holbrook, Amandine Gamble, Brandi N. Williamson, Azaibi Tamin, et al. "Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1." *New England Journal of Medicine* 382, no. 16 (April 16, 2020): 1564–67. https://doi.org/10.1056/NEJMc2004973.
- Doyen, Denis, Pamela Moceri, Dorothée Ducreux, and Jean Dellamonica. "Myocarditis in a Patient with COVID-19: A Cause of Raised Troponin and ECG Changes." *The Lancet* 395, no. 10235 (March 23, 2020): 1516. https://doi.org/10.1016/S0140-6736(20)30912-0.
- Farkas, Josh. "COVID-19." The Internet Book of Critical Care, March 2, 2020. https://emcrit.org/wp-content/uploads/2020/03/COVID-19-EMCrit-Project3-16.pdf.
- Felitti, Vincent J, Robert F Anda, Dale Nordenberg, David F Williamson, Alison M Spitz, Valerie Edwards, Mary P Koss, and James S Marks. "Relationship of Childhood Abuse and Household Dysfunction to Many of the Leading Causes of Death in Adults." *American Journal of Preventive Medicine* 14, no. 4 (May 1998): 245–58. https://doi.org/10.1016/S0749-3797(98)00017-8.

- Ferenbach, D., and J. Hughes. "Macrophages and Dendritic Cells: What Is the Difference?" *Kidney International* 74, no. 1 (July 2008): 5–7. https://doi.org/10.1038/ki.2008.189
- Fulgoni, Victor L., Debra R. Keast, Regan L. Bailey, and Johanna Dwyer. "Foods, Fortificants, and Supplements: Where Do Americans Get Their Nutrients?" *The Journal of Nutrition* 141, no. 10 (October 1, 2011): 1847–54. https://doi.org/10.3945/jn.111.142257.
- Garg, Shikha. "Hospitalization Rates and Characteristics of Patients Hospitalized with Laboratory-Confirmed Coronavirus Disease 2019 COVID-NET, 14 States, March 1–30, 2020." *MMWR. Morbidity and Mortality Weekly Report* 69 (2020). https://doi.org/10.15585/mmwr.mm6915e3.
- Gonzales, Gustavo F., Manuel Gasco, and Ivan Lozada-Requena. "Role of Maca (Lepidium Meyenii) Consumption on Serum Interleukin-6 Levels and Health Status in Populations Living in the Peruvian Central Andes over 4000 m of Altitude." *Plant Foods for Human Nutrition* 68, no. 4 (December 2013): 347–51. https://doi.org/10.1007/s11130-013-0378-5.
- Goyal, Parag, Justin J. Choi, Laura C. Pinheiro, Edward J. Schenck, Ruijun Chen, Assem Jabri, Michael J. Satlin, et al. "Clinical Characteristics of Covid-19 in New York City." *New England Journal of Medicine* (April 17, 2020): NEJMc2010419. https://doi.org/10.1056/NEJMc2010419.
- Guan, Wei-jie, Wen-hua Liang, Yi Zhao, Heng-rui Liang, Zi-sheng Chen, Yi-min Li, Xiao-qing Liu, et al. "Comorbidity and Its Impact on 1590 Patients with Covid-19 in China: A Nationwide Analysis." *European Respiratory Journal* (March 26, 2020): 2000547. https://doi.org/10.1183/13993003.00547-2020.
- Guan, Wei-jie, Zheng-yi Ni, Yu Hu, Wen-hua Liang, Chun-quan Ou, Jian-xing He, Lei Liu, et al. "Clinical Characteristics of Coronavirus Disease 2019 in China." *New England Journal of Medicine* 382, no. 18 (April 30, 2020): 1708–20. https://doi.org/10.1056/NEJMoa2002032.
- Guo, Yan-Rong, Qing-Dong Cao, Zhong-Si Hong, Yuan-Yang Tan, Shou-Deng Chen, Hong-Jun Jin, Kai-Sen Tan, De-Yun Wang, and Yan Yan. "The Origin, Transmission and Clinical Therapies on Coronavirus Disease 2019 (COVID-19) Outbreak an Update on the Status." *Military Medical Research* 7, no. 1 (December 2020): 11. https://doi.org/10.1186/s40779-020-00240-0.
- Guo, Yan-Rong, Qing-Dong Cao, Zhong-Si Hong, Yuan-Yang Tan, Shou-Deng Chen, Hong-Jun Jin, Kai-Sen Tan, De-Yun Wang, and Yan Yan. "The Origin,

- Transmission and Clinical Therapies on Coronavirus Disease 2019 (COVID-19) Outbreak an Update on the Status." *Military Medical Research* 7, no. 1 (December 2020): 11. https://doi.org/10.1186/s40779-020-00240-0.
- Gutiérrez, Saray, Sara L. Svahn, and Maria E. Johansson. "Effects of Omega-3 Fatty Acids on Immune Cells." *International Journal of Molecular Sciences* 20, no. 20 (January 2019): 5028. https://doi.org/10.3390/ijms20205028.
- Hamming, I, W Timens, Mlc Bulthuis, At Lely, Gj Navis, and H van Goor. "Tissue Distribution of ACE2 Protein, the Functional Receptor for SARS Coronavirus. A First Step in Understanding SARS Pathogenesis." *The Journal of Pathology* 203, no. 2 (June 2004): 631–37. https://doi.org/10.1002/path.1570.
- He, Xiaojuan, Jun Shu, Li Xu, Cheng Lu, and Aiping Lu. "Inhibitory Effect of Astragalus Polysaccharides on Lipopolysaccharide-Induced TNF-a and IL-1β Production in THP-1 Cells." *Molecules* 17, no. 3 (March 2012): 3155–64. https://doi.org/10.3390/molecules17033155.
- Health Essentials from Cleveland Clinic. "3 Reasons Adult Coloring Can Actually Relax Your Brain," November 13, 2015. https://health.clevelandclinic.org/3-reasons-adult-coloring-can-actually-relax-brain/.
- Hemilä, Harri. "Vitamin C and Infections." *Nutrients* 9, no. 4 (March 29, 2017). https://doi.org/10.3390/nu9040339.
- Heymann, David L, and Nahoko Shindo. "COVID-19: What Is next for Public Health?" *The Lancet* 395, no. 10224 (February 2020): 542–45. https://doi.org/10.1016/S0140-6736(20)30374-3.
- Hotchkiss, Richard S., and Steven M. Opal. "Activating Immunity to Fight a Foe A New Path." Edited by Elizabeth G. Phimister. *New England Journal of Medicine* 382, no. 13 (March 26, 2020): 1270–72. https://doi.org/10.1056/NEJMcibr1917242.
- Hunt, Kevin. "The Top 7 COVID-19 Symptoms, Ranked by Prevalence." *Health News Hub* (blog), May 5, 2020. https://healthnewshub.org/health-news-hub/top-news/the-top-7-covid-19-symptoms-ranked/.
- IFM Medical Education Team. "Boosting Immunity: Functional Medicine Tips on Prevention & Optimizing Immune Function During the COVID-19 (Coronavirus) Outbreak." The Institute for Functional Medicine. Accessed May 1, 2020. https://www.ifm.org/news-insights/boosting-immunity-functional-medicine-tips-prevention-immunity-boosting-covid-19-coronavirus-outbreak/.

- Irwin, Michael R. "Sleep and Infectious Disease Risk." *Sleep* 35, no. 8 (August 2012): 1025–26. https://doi.org/10.5665/sleep.1976.
- Jessica Glenza. "Brazilian Chloroquine Study Halted after High Dose Proved Lethal for Some Patients." The Guardian, April 24, 2020. https://www.theguardian.com/world/2020/apr/24/chloroquine-study-coronavirus-brazil.
- Johns Hopkins Coronavirus Resource Center. "COVID-19 United States Cases by County." Accessed May 16, 2020. https://coronavirus.jhu.edu/us-map.
- Johns Hopkins Coronavirus Resource Center. "Mortality Analyses." Accessed May 2, 2020. https://coronavirus.jhu.edu/data/mortality.
- Johns Hopkins Coronavirus Resource Center. "State Testing Data by Race." Accessed May 5, 2020. https://coronavirus.jhu.edu/data/racial-data-transparency.
- Kelleher, Suzanne Rowan. "Watch: Viral Japanese Video Shows How Quickly COVID-19 Can Spread At A Buffet." Forbes. Accessed May 14, 2020. https://www.forbes.com/sites/suzannerowankelleher/2020/05/11/watch-viral-japanese-video-shows-how-quickly-covid-19-can-spread-at-a-buffet/.
- Koff, Wayne C., and Michelle A. Williams. "Covid-19 and Immunity in Aging Populations A New Research Agenda." *New England Journal of Medicine*, April 17, 2020, NEJMp2006761. https://doi.org/10.1056/NEJMp2006761.
- Lauer, Stephen A., Kyra H. Grantz, Qifang Bi, Forrest K. Jones, Qulu Zheng, Hannah R. Meredith, Andrew S. Azman, Nicholas G. Reich, and Justin Lessler. "The Incubation Period of Coronavirus Disease 2019 (COVID-19) From Publicly Reported Confirmed Cases: Estimation and Application." *Annals of Internal Medicine* 172, no. 9 (May 5, 2020): 577. https://doi.org/10.7326/M20-0504.
- Lechien, Jerome R., Carlos M. Chiesa-Estomba, Daniele R. De Siati, Mihaela Horoi, Serge D. Le Bon, Alexandra Rodriguez, Didier Dequanter, et al. "Olfactory and Gustatory Dysfunctions as a Clinical Presentation of Mild-to-Moderate Forms of the Coronavirus Disease (COVID-19): A Multicenter European Study." *European Archives of Oto-Rhino-Laryngology*, April 6, 2020. https://doi.org/10.1007/s00405-020-05965-1.
- Lee, Edwin. "Effects of Nitric Oxide on Carotid Intima Media Thickness: A Pilot Study." *Alternative Therapies in Health and Medicine* 22 Suppl 2, no. 8 (2016): 32–34.

- Lee, J., H. Kim, G. Solares, K. Kim, Z. Ding, and J. Ivy. "Caffeinated Nitric Oxide-Releasing Lozenge Improves Cycling Time Trial Performance." *International Journal of Sports Medicine* 36, no. 02 (October 6, 2014): 107–12. https://doi.org/10.1055/s-0034-1387762.
- Lehtoranta, L., A. Pitkäranta, and R. Korpela. "Probiotics in Respiratory Virus Infections." *European Journal of Clinical Microbiology & Infectious Diseases* 33, no. 8 (August 1, 2014): 1289–1302. https://doi.org/10.1007/s10096-014-2086-y.
- Li, Hongtao, Yufei Peng, Xiuzhen Wang, Xiaowei Sun, Fangjun Yang, Yufeng Sun, and Bo Wang. "Astragaloside Inhibits IL-1β-Induced Inflammatory Response in Human Osteoarthritis Chondrocytes and Ameliorates the Progression of Osteoarthritis in Mice." *Immunopharmacology and Immunotoxicology* 41, no. 4 (July 11, 2019): 497–503. https://doi.org/10.1080/08923973.2019.1637890.
- Lippi, Giuseppe, Ana-Maria Simundic, and Mario Plebani. "Potential Preanalytical and Analytical Vulnerabilities in the Laboratory Diagnosis of Coronavirus Disease 2019 (COVID-19)." *Clinical Chemistry and Laboratory Medicine (CCLM)* 0, no. 0 (March 16, 2020). https://doi.org/10.1515/cclm-2020-0285.
- Lowey, Nita M. H.R.6201 Families First Coronavirus Response Act (2020). https://www.congress.gov/bill/116th-congress/house-bill/6201.
- Marik, Paul. "EVMS CRITICAL CARE COVID-19 MANAGEMENT PROTOCOL," May 11, 2020.

 https://www.evms.edu/media/evms_public/departments/internal_medicine/EVMS_Critical_Care_COVID-19_Protocol.pdf.
- Martineau, Adrian R., David A. Jolliffe, Richard L. Hooper, Lauren Greenberg, John F. Aloia, Peter Bergman, Gal Dubnov-Raz, et al. "Vitamin D Supplementation to Prevent Acute Respiratory Tract Infections: Systematic Review and Meta-Analysis of Individual Participant Data." *BMJ* 356 (February 15, 2017). https://doi.org/10.1136/bmj.i6583.
- MedicineNet. "Definition of Acute." Accessed May 14, 2020. https://www.medicinenet.com/script/main/art.asp?articlekey=2133.
- Molly Walker. "High Mortality Rate in Intubated COVID-19 Patients in NYC." MedPage Today, April 22, 2020. https://www.medpagetoday.com/infectiousdisease/covid19/86101.
- National Institute of Allergy and Infectious Diseases. "COVID-19, MERS & SARS." Accessed May 9, 2020. http://www.niaid.nih.gov/diseases-conditions/covid-19.

- National Institutes of Health (NIH). "Thiamin." Accessed May 16, 2020. https://ods.od.nih.gov/factsheets/Thiamin-HealthProfessional/.
- Omer, Saad B., Preeti Malani, and Carlos del Rio. "The COVID-19 Pandemic in the US: A Clinical Update." *JAMA* 323, no. 18 (April 6, 2020): 1767–68. https://doi.org/10.1001/jama.2020.5788.
- Orthomolecular Medicine News Service Editorial Review Board. "Rationale for Vitamin C Treatment of COVID-19 and Other Viruses." Orthomolecular.org, April 3, 2020. http://orthomolecular.org/resources/omns/v16n21.shtml.
- Park, Jong-Eun, Rachel A. Botting, Cecilia Domínguez Conde, Dorin-Mirel Popescu, Marieke Lavaert, Daniel J. Kunz, Issac Goh, et al. "A Cell Atlas of Human Thymic Development Defines T Cell Repertoire Formation." *Science* 367, no. 6480 (February 21, 2020): eaay3224. https://doi.org/10.1126/science.aay3224.
- Parodi, Stephen M., and Vincent X. Liu. "From Containment to Mitigation of COVID-19 in the US." *JAMA* 323, no. 15 (April 21, 2020): 1441–42. https://doi.org/10.1001/jama.2020.3882.
- Pekoc, Ken. "New Coronavirus Stable for Hours on Surfaces." National Institutes of Health (NIH), March 17, 2020. https://www.nih.gov/news-events/news-releases/new-coronavirus-stable-hours-surfaces.
- Petrilli, Christopher M., Simon A. Jones, Jie Yang, Harish Rajagopalan, Luke F. O'Donnell, Yelena Chernyak, Katie Tobin, Robert J. Cerfolio, Fritz Francois, and Leora I. Horwitz. "Factors Associated with Hospitalization and Critical Illness among 4,103 Patients with COVID-19 Disease in New York City." *MedRxiv* (April 11, 2020): 2020.04.08.20057794. https://doi.org/10.1101/2020.04.08.20057794.
- Phillips, Judith M., Tom Gallagher, and Susan R. Weiss. "Neurovirulent Murine Coronavirus JHM.SD Uses Cellular Zinc Metalloproteases for Virus Entry and Cell-Cell Fusion." *Journal of Virology* 91, no. 8 (March 2017). https://doi.org/10.1128/JVI.01564-16.
- Practical Dermatology. "New UAB Infographic Depicts How Long COVID-19 Lasts on Surfaces." Bryn Mawr Communications. Accessed May 12, 2020. https://practicaldermatology.com/news/new-uab-infographic-depicts-how-long-covid-19-lasts-on-surfaces-1.
- Prasad, Ananda S. "Zinc Is an Antioxidant and Anti-Inflammatory Agent: Its Role in Human Health." *Frontiers in Nutrition* 1 (2014). https://doi.org/10.3389/fnut.2014.00014.

- Rothe, Camilla, Mirjam Schunk, Peter Sothmann, Gisela Bretzel, Guenter Froeschl, Claudia Wallrauch, Thorbjörn Zimmer, et al. "Transmission of 2019-NCoV Infection from an Asymptomatic Contact in Germany." *New England Journal of Medicine* 382, no. 10 (March 5, 2020): 970–71. https://doi.org/10.1056/NEJMc2001468.
- Sanche, Steven, Yen Ting Lin, Chonggang Xu, Ethan Romero-Severson, Nick Hengartner, and Ruian Ke. "High Contagiousness and Rapid Spread of Severe Acute Respiratory Syndrome Coronavirus 2." *Emerging Infectious Diseases* 26, no. 7 (July 2020). https://doi.org/10.3201/eid2607.200282.
- Schumaker, Erin. "Timeline: How Coronavirus Got Started." ABC News, April 23, 2020. https://abcnews.go.com/Health/timeline-coronavirus-started/story?id=69435165.
- Silvestri, Michela, and Giovanni A Rossi. "Melatonin: Its Possible Role in the Management of Viral Infections-a Brief Review." *Italian Journal of Pediatrics* 39, no. 1 (2013): 61. https://doi.org/10.1186/1824-7288-39-61.
- Singhal, Tanu. "A Review of Coronavirus Disease-2019 (COVID-19)." *The Indian Journal of Pediatrics* 87, no. 4 (April 2020): 281–86. https://doi.org/10.1007/s12098-020-03263-6.
- Song, Huan, Fang Fang, Gunnar Tomasson, Filip K. Arnberg, David Mataix-Cols, Lorena Fernández de la Cruz, Catarina Almqvist, Katja Fall, and Unnur A. Valdimarsdóttir. "Association of Stress-Related Disorders With Subsequent Autoimmune Disease." *JAMA* 319, no. 23 (June 19, 2018): 2388. https://doi.org/10.1001/jama.2018.7028.
- Song, Jing-Chun, Gang Wang, Wei Zhang, Yang Zhang, Wei-Qin Li, and Zhou Zhou. "Chinese Expert Consensus on Diagnosis and Treatment of Coagulation Dysfunction in COVID-19." *Military Medical Research* 7, no. 1 (December 2020): 19. https://doi.org/10.1186/s40779-020-00247-7.
- Taub, Dennis D., and Dan L. Longo. "Insights into Thymic Aging and Regeneration." *Immunological Reviews* 205, no. 1 (June 2005): 72–93. https://doi.org/10.1111/j.0105-2896.2005.00275.x.
- The Editors of Encyclopedia Britannica. "Phagocyte." Encyclopedia Britannica. Accessed May 16, 2020. https://www.britannica.com/science/phagocyte.
- The Institute for Functional Medicine. "The Functional Medicine Approach to COVID-19: Primer on SARS-CoV-2 Testing." Accessed May 7, 2020. https://www.ifm.org/news-insights/functional-medicine-approach-covid-19-primer-sars-cov-2-testing/.

- The Visual and Data Journalism. "Coronavirus: Tracking the Global Outbreak." *BBC News*, May 9, 2020, sec. World. https://www.bbc.com/news/world-51235105.
- Tikellis, Chris, and M. C. Thomas. "Angiotensin-Converting Enzyme 2 (ACE2) Is a Key Modulator of the Renin Angiotensin System in Health and Disease." *International Journal of Peptides* 2012 (2011). https://doi.org/10.1155/2012/256294.
- Tisoncik, Jennifer R., Marcus J. Korth, Cameron P. Simmons, Jeremy Farrar, Thomas R. Martin, and Michael G. Katze. "Into the Eye of the Cytokine Storm." *Microbiology and Molecular Biology Reviews: MMBR* 76, no. 1 (March 2012): 16–32. https://doi.org/10.1128/MMBR.05015-11.
- Ulfman, Laurien H., Jeanette H. W. Leusen, Huub F. J. Savelkoul, John O. Warner, and R. J. Joost van Neerven. "Effects of Bovine Immunoglobulins on Immune Function, Allergy, and Infection." *Frontiers in Nutrition* 5 (June 22, 2018): 52. https://doi.org/10.3389/fnut.2018.00052.
- Vaduganathan, Muthiah, Orly Vardeny, Thomas Michel, John J.V. McMurray, Marc A. Pfeffer, and Scott D. Solomon. "Renin–Angiotensin–Aldosterone System Inhibitors in Patients with Covid-19." *New England Journal of Medicine* 382, no. 17 (April 23, 2020): 1653–59. https://doi.org/10.1056/NEJMsr2005760.
- Valle Mendoza, Juana del, Tomàs Pumarola, Libertad Alzamora Gonzales, and Luis J. del Valle. "Antiviral Activity of Maca (Lepidium Meyenii) against Human Influenza Virus." *Asian Pacific Journal of Tropical Medicine* 7 (September 2014): S415–20. https://doi.org/10.1016/S1995-7645(14)60268-6.
- Van Kaer, Luc, Vrajesh V. Parekh, and Lan Wu. "Invariant Natural Killer T Cells: Bridging Innate and Adaptive Immunity." *Cell and Tissue Research* 343, no. 1 (January 2011): 43–55. https://doi.org/10.1007/s00441-010-1023-3.
- Vasquez, Alex. "Urinary Alkalinization against Mild Metabolic Acidosis: Obesity, Pain, Diabetes, Kidney Protection," July 29, 2018. https://www.academia.edu/37138783/Urinary_Alkalinization_against_Mild_Metabolic_Acidosis_Obesity_Pain_Diabetes_Kidney_Protection.
- Walker, Molly. "FDA OKs Remdesivir Emergency Use for Severe COVID-19." Medpage Today. Accessed May 16, 2020. https://www.medpagetoday.com/infectiousdisease/covid19/86280.
- Wang, Qiang, Xiaojing Sheng, Aimin Shi, Hui Hu, Ying Yang, Li Liu, Ling Fei, and Hongzhi Liu. "β-Glucans: Relationships between Modification, Conformation and

- Functional Activities." *Molecules* 22, no. 2 (February 9, 2017): 257. https://doi.org/10.3390/molecules22020257.
- Wang, Xinling, Wei Xu, Gaowei Hu, Shuai Xia, Zhiping Sun, Zezhong Liu, Youhua Xie, Rong Zhang, Shibo Jiang, and Lu Lu. "SARS-CoV-2 Infects T Lymphocytes through Its Spike Protein-Mediated Membrane Fusion." *Cellular & Molecular Immunology* (April 7, 2020). https://doi.org/10.1038/s41423-020-0424-9.
- Wellcome Trust Sanger Institute. "Origins of Immune System Mapped, Opening Doors for New Cancer Immunotherapies: Cell Atlas of Human Thymus Could Help Engineer Improved Therapeutic T Cells." ScienceDaily. Accessed May 16, 2020. https://www.sciencedaily.com/releases/2020/02/200220141708.htm.
- Weng, Jing-Ru, Chen-Sheng Lin, Hsueh-Chou Lai, Yu-Ping Lin, Ching-Ying Wang, Yu-Chi Tsai, Kun-Chang Wu, Su-Hua Huang, and Cheng-Wen Lin. "Antiviral Activity of Sambucus FormosanaNakai Ethanol Extract and Related Phenolic Acid Constituents against Human Coronavirus NL63." *Virus Research* 273 (November 1, 2019): 197767. https://doi.org/10.1016/j.virusres.2019.197767.
- Wiedermann, Ursula, Erika Garner-Spitzer, and Angelika Wagner. "Primary Vaccine Failure to Routine Vaccines: Why and What to Do?" *Human Vaccines & Immunotherapeutics* 12, no. 1 (2016): 239–43. https://doi.org/10.1080/21645515.2015.1093263.
- World Health Organization. "Cumulative Number of Reported Probable Cases of SARS." World Health Organization. Accessed May 9, 2020. https://www.who.int/csr/sars/country/2003_07_11/en/.
- World Health Organization. "Middle East Respiratory Syndrome Coronavirus (MERS-CoV)," March 11, 2019. https://www.who.int/news-room/fact-sheets/detail/middle-east-respiratory-syndrome-coronavirus-(mers-cov).
- World Health Organization. "Middle East Respiratory Syndrome Coronavirus (MERS-CoV)." World Health Organization. Accessed May 9, 2020. http://www.who.int/emergencies/mers-cov/en/.
- World Health Organization. "Middle East Respiratory Syndrome Coronavirus (MERS-CoV) The Kingdom of Saudi Arabia." World Health Organization. Accessed May 9, 2020. http://www.who.int/csr/don/24-february-2020-mers-saudi-arabia/en/.
- World Health Organization. "Q&A on Coronaviruses (COVID-19)," April 17, 2020. https://www.who.int/news-room/q-a-detail/q-a-coronaviruses.

- World Health Organization. "SARS (Severe Acute Respiratory Syndrome)." World Health Organization. Accessed May 16, 2020. https://www.who.int/ith/diseases/sars/en/.
- Wu, Fan, Aojie Wang, Mei Liu, Qimin Wang, Jun Chen, Shuai Xia, Yun Ling, et al. "Neutralizing Antibody Responses to SARS-CoV-2 in a COVID-19 Recovered Patient Cohort and Their Implications." *MedRxiv*, April 20, 2020, 2020.03.30.20047365. https://doi.org/10.1101/2020.03.30.20047365.
- Wu, Li-Ping, Nai-Chang Wang, Yi-Hua Chang, Xiang-Yi Tian, Dan-Yu Na, Li-Yuan Zhang, Lei Zheng, Tao Lan, Lin-Fa Wang, and Guo-Dong Liang. "Duration of Antibody Responses after Severe Acute Respiratory Syndrome." *Emerging Infectious Diseases* 13, no. 10 (October 2007): 1562–64. https://doi.org/10.3201/eid1310.070576.
- Yamshchikov, Alexandra, Nirali Desai, Henry Blumberg, Thomas Ziegler, and Vin Tangpricha. "Vitamin D for Treatment and Prevention of Infectious Diseases: A Systematic Review of Randomized Controlled Trials." *Endocrine Practice* 15, no. 5 (July 2009): 438–49. https://doi.org/10.4158/EP09101.ORR.
- Yancy, Clyde W. "COVID-19 and African Americans." *JAMA* (April 15, 2020). https://doi.org/10.1001/jama.2020.6548.
- Yin, Haipeng, Qiang Guo, Xin Li, Tiantian Tang, Cuiling Li, Hengxiao Wang, Yuanxin Sun, et al. "Curcumin Suppresses IL-1β Secretion and Prevents Inflammation through Inhibition of the NLRP3 Inflammasome." *The Journal of Immunology* 200, no. 8 (April 15, 2018): 2835–46. https://doi.org/10.4049/jimmunol.1701495.
- Zhou, Fei, Ting Yu, Ronghui Du, Guohui Fan, Ying Liu, Zhibo Liu, Jie Xiang, et al. "Clinical Course and Risk Factors for Mortality of Adult Inpatients with COVID-19 in Wuhan, China: A Retrospective Cohort Study." *The Lancet* 395, no. 10229 (March 28, 2020): 1054–62. https://doi.org/10.1016/S0140-6736(20)30566-3.