

REFERENCES

- Alsabeeh, N., Chausse, B., Kakimoto, P. A., Kowaltowski, A. J., & Shirihai, O. (2018). Cell culture models of fatty acid overload: Problems and solutions. *Biochimica et biophysica acta. Molecular and cell biology of lipids*, 1863(2), 143–151. <https://doi.org/10.1016/j.bbaliip.2017.11.006>
- Awadh A. A. (2023). The Role of Cytosolic Lipid Droplets in Hepatitis C Virus Replication, Assembly, and Release. *BioMed research international*, 2023, 5156601. <https://doi.org/10.1155/2023/5156601>
- Axley, P., Ahmed, Z., Ravi, S., & Singal, A. K. (2018). Hepatitis C Virus and Hepatocellular Carcinoma: A Narrative Review. *Journal of clinical and translational hepatology*, 6(1), 79–84. <https://doi.org/10.14218/JCTH.2017.00067>
- Bajpai, M., Gupta, E., & Choudhary, A. (2014). Hepatitis C virus: Screening, diagnosis, and interpretation of laboratory assays. *Asian Journal of Transfusion Science*, 8(1), 19. <https://doi.org/10.4103/0973-6247.126683>
- Batchuluun, B., Pinkosky, S. L., & Steinberg, G. R. (2022). Lipogenesis inhibitors: therapeutic opportunities and challenges. *Nature Reviews Drug Discovery*, 21(4), 283–305. <https://doi.org/10.1038/s41573-021-00367-2>
- Catanese, M. T., Uryu, K., Kopp, M., Edwards, T. J., Andrus, L., Rice, W. J., Silvestry, M., Kuhn, R. J., & Rice, C. M. (2013). Ultrastructural analysis of hepatitis C virus particles. *Proceedings of the National Academy of Sciences of the United States of America*, 110(23), 9505–9510. <https://doi.org/10.1073/pnas.1307527110>
- Chang M. L. (2016). Metabolic alterations and hepatitis C: From bench to bedside. *World journal of gastroenterology*, 22(4), 1461–1476. <https://doi.org/10.3748/wjg.v22.i4.1461>
- Charbonneau, D. M., & Tajmir-Riahi, H. A. (2009, December 4). Study on the Interaction of Cationic Lipids with Bovine Serum Albumin. *The Journal of Physical Chemistry B*, 114(2), 1148–1155. <https://doi.org/10.1021/jp910077h>
- Currie, E., Schulze, A., Zechner, R., Walther, T. C., & Farese, R. V., Jr (2013). Cellular fatty acid metabolism and cancer. *Cell metabolism*, 18(2), 153–161. <https://doi.org/10.1016/j.cmet.2013.05.017>
- Dächert, C., Gladilin, E., & Binder, M. (2020). Gene Expression Profiling of Different Huh7 Variants Reveals Novel Hepatitis C Virus Host Factors. *Viruses*, 12(1), 36. <https://doi.org/10.3390/v12010036>
- Douglas, D. N., Pu, C. H., Lewis, J. T., Bhat, R., Anwar-Mohamed, A., Logan, M., Lund, G., Addison, W. R., Lehner, R., & Kneteman, N. M. (2016, January). Oxidative Stress Attenuates Lipid Synthesis and Increases Mitochondrial Fatty Acid Oxidation in Hepatoma Cells Infected with Hepatitis C Virus. *Journal of Biological Chemistry*, 291(4), 1974–1990. <https://doi.org/10.1074/jbc.m115.674861>
- Dustin, L. B., Bartolini, B., Capobianchi, M. R., & Pistello, M. (2016). Hepatitis C virus: life cycle in cells, infection and host response, and analysis of molecular markers influencing the outcome of infection and response to therapy. *Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases*, 22(10), 826–832. <https://doi.org/10.1016/j.cmi.2016.08.025>
- Dustin, L. B., Bartolini, B., Capobianchi, M. R., & Pistello, M. (2016). Hepatitis C virus: life cycle in cells, infection and host response, and analysis of molecular markers influencing the outcome of infection and response to therapy. *Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases*, 22(10), 826–832. <https://doi.org/10.1016/j.cmi.2016.08.025>

- Galli, A., Ramirez, S., & Bukh, J. (2021). Lipid Droplets Accumulation during Hepatitis C Virus Infection in Cell-Culture Varies among Genotype 1-3 Strains and Does Not Correlate with Virus Replication. *Viruses*, 13(3), 389. <https://doi.org/10.3390/v13030389>
- Gerold, G., & Pietschmann, T. (2014). The HCV Life Cycle: In vitro Tissue Culture Systems and Therapeutic Targets. *Digestive Diseases*, 32(5), 525–537. <https://doi.org/10.1159/000360830>
- Grandhi, M. S., Kim, A. K., Ronnekleiv-Kelly, S. M., Kamel, I. R., Ghasebeh, M. A., & Pawlik, T. M. (2016). Hepatocellular carcinoma: From diagnosis to treatment. *Surgical oncology*, 25(2), 74–85. <https://doi.org/10.1016/j.suronc.2016.03.002>
- Heil, C. S., Wehrheim, S. S., Paithankar, K. S., & Grininger, M. (2019, June 27). Fatty Acid Biosynthesis: Chain-Length Regulation and Control. *ChemBioChem*, 20(18), 2298–2321. <https://doi.org/10.1002/cbic.201800809>
- Herker, E., & Ott, M. (2011). Unique ties between hepatitis C virus replication and intracellular lipids. *Trends in Endocrinology & Metabolism*, 22(6), 241–248. <https://doi.org/10.1016/j.tem.2011.03.004>
- Huang, J. T., Tseng, C. P., Liao, M. H., Lu, S. C., Yeh, W. Z., Sakamoto, N., Chen, C. M., & Cheng, J. C. (2013). Hepatitis C virus replication is modulated by the interaction of nonstructural protein NS5B and fatty acid synthase. *Journal of virology*, 87(9), 4994–5004. <https://doi.org/10.1128/JVI.02526-12>
- Islam, K. U., Anwar, S., Patel, A. A., Mirdad, M. T., Mirdad, M. T., Azmi, M. I., Iqbal, J. (2023). Global Lipidome Profiling Revealed Multifaceted Role of Lipid Species in Hepatitis C Virus Replication, Assembly, and Host Antiviral Response. *Viruses*, 15(2), 464. <https://doi.org/10.3390/v15020464>
- Kasai, D., Adachi, T., Deng, L., Nagano-Fujii, M., Sada, K., Ikeda, M., Kato, N., Ide, Y. H., Shoji, I., & Hotta, H. (2009, May). HCV replication suppresses cellular glucose uptake through down-regulation of cell surface expression of glucose transporters. *Journal of Hepatology*, 50(5), 883–894. <https://doi.org/10.1016/j.jhep.2008.12.029>
- Kim T. K. (2015). T test as a parametric statistic. *Korean journal of anesthesiology*, 68(6), 540–546. <https://doi.org/10.4097/kjae.2015.68.6.540>
- Krassenburg, L. A. P., Maan, R., Ramji, A., Manns, M. P., Cornberg, M., Wedemeyer, H., de Knegt, R. J., Hansen, B. E., Janssen, H. L. A., de Man, R. A., Feld, J. J., & van der Meer, A. J. (2021). Clinical outcomes following DAA therapy in patients with HCV-related cirrhosis depend on disease severity. *Journal of hepatology*, 74(5), 1053–1063. <https://doi.org/10.1016/j.jhep.2020.11.021>
- Li, H. C., & Lo, S. Y. (2015). Hepatitis C virus: Virology, diagnosis and treatment. *World journal of hepatology*, 7(10), 1377–1389. <https://doi.org/10.4254/wjh.v7.i10.1377>
- Lecturio Medical. (2024). Hepatitis C Virus. Retrieved from <https://www.lecturio.com/concepts/hepatitis-c-virus/#>
- Li, S., Liu, R., Pan, Q., Wang, G., Cheng, D., Yang, J., Chen, H., & Xu, G. (2020). De novo lipogenesis is elicited dramatically in human hepatocellular carcinoma especially in hepatitis C virus-induced hepatocellular carcinoma. *MedComm*, 1(2), 178–187. <https://doi.org/10.1002/mco2.15>
- Maloy, S., & Hughes, K. (2013, March 3). *Brenner’s Encyclopedia of Genetics*. Academic Press. http://books.google.ie/books?id=4cj64BhrnjcC&printsec=frontcover&dq=Brenner%27s+Encyclopedia+of+Genetics&hl=&cd=1&source=gbs_api
- Miao, Z., Xie, Z., Miao, J., Ran, J., Feng, Y., & Xia, X. (2017). Regulated Entry of Hepatitis C Virus into Hepatocytes. *Viruses*, 9(5), 100. <https://doi.org/10.3390/v9050100>
- Moosavy, S. H., Davoodian, P., Nazarnezhad, M. A., Nejatizadeh, A., Eftekhar, E., & Mahboobi, H. (2017). Epidemiology, transmission, diagnosis, and outcome of Hepatitis C virus infection. *Electronic physician*, 9(10), 5646–5656. <https://doi.org/10.19082/5646>

- Nakajima, S., Gotoh, M., Fukasawa, K., Murakami-Murofushi, K., & Kunugi, H. (2019). Oleic acid is a potent inducer for lipid droplet accumulation through its esterification to glycerol by diacylglycerol acyltransferase in primary cortical astrocytes. *Brain research*, 1725, 146484. <https://doi.org/10.1016/j.brainres.2019.146484>
- Nasheri, N., Joyce, M., Rouleau, Y., Yang, P., Yao, S., Tyrrell, D., & Pezacki, J. (2013). Modulation of Fatty Acid Synthase Enzyme Activity and Expression during Hepatitis C Virus Replication. *Chemistry & Biology*, 20(4), 570–582. <https://doi.org/10.1016/j.chembiol.2013.03.014>
- Parisi, M. R., Soldini, L., Vidoni, G., Mabellini, C., Belloni, T., Brignolo, L., Negri, S., Schlusnus, K., Dorigatti, F., & Lazzarin, A. (2014). Point-of-care testing for HCV infection: recent advances and implications for alternative screening. *The new microbiologica*, 37(4), 449–457.
- Reichert, C. O., de Freitas, F. A., Levy, D., & Bydlowski, S. P. (2021). Oxysterols and mesenchymal stem cell biology. *Vitamins and Hormones*, 409–436. <https://doi.org/10.1016/bs.vh.2021.02.004>
- Sidorkiewicz M. (2021). Hepatitis C Virus Uses Host Lipids to Its Own Advantage. *Metabolites*, 11(5), 273. <https://doi.org/10.3390/metabo11050273>
- Vrablik, T. L., & Watts, J. L. (2012). Emerging roles for specific fatty acids in developmental processes. *Genes & development*, 26(7), 631–637. <https://doi.org/10.1101/gad.190777.112>
- Wang, Y., Yu, W., Li, S., Guo, D., He, J., & Wang, Y. (2022). Acetyl-CoA Carboxylases and Diseases. *Frontiers in oncology*, 12, 836058. <https://doi.org/10.3389/fonc.2022.836058>
- Yang, W., Hood, B. L., Chadwick, S. L., Liu, S., Watkins, S. C., Luo, G., Conrads, T. P., & Wang, T. (2008). Fatty acid synthase is up-regulated during hepatitis C virus infection and regulates hepatitis C virus entry and production. *Hepatology (Baltimore, Md.)*, 48(5), 1396–1403. <https://doi.org/10.1002/hep.22508>
- Yang, W., Hood, B. L., Chadwick, S. L., Liu, S., Watkins, S. C., Luo, G., Conrads, T. P., & Wang, T. (2008). Fatty acid synthase is up-regulated during hepatitis C virus infection and regulates hepatitis C virus entry and production. *Hepatology (Baltimore, Md.)*, 48(5), 1396–1403. <https://doi.org/10.1002/hep.22508>
- Yau, A. H., & Yoshida, E. M. (2014). Hepatitis C drugs: the end of the pegylated interferon era and the emergence of all-oral interferon-free antiviral regimens: a concise review. *Canadian journal of gastroenterology & hepatology*, 28(8), 445–451. <https://doi.org/10.1155/2014/549624>
- Yi M. (2010). Hepatitis C virus: propagation, quantification, and storage. *Current protocols in microbiology*, Chapter 15, Unit–15D.1. <https://doi.org/10.1002/9780471729259.mc15d01s19>
- Zu, X. Y., Zhang, Q. H., Liu, J. H., Cao, R. X., Zhong, J., Yi, G. H., . . . Pizzorno, G. (2012). ATP Citrate Lyase Inhibitors as Novel Cancer Therapeutic Agents. *Recent Patents on Anti-Cancer Drug Discovery*, 7(2), 154–167. <https://doi.org/10.2174/157489212799972954>