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Bile acid metabolism and circadian rhythms.

PMID: 32902316 Review.

1 **Bile acid metabolism** and **circadian rhythms**.

Yang Y, Zhang J.

Am J Physiol Gastrointest Liver Physiol. 2020 Nov 1;319(5):G549-G563. doi: 10.1152/ajpgi.00152.2020. Epub 2020 Sep 9.

PMID: 32902316 Review.

2 **Bile Acid Metabolism** in Liver Pathobiology.

Chiang JYL, Ferrell JM.

Gene Expr. 2018 May 18;18(2):71-87. doi: 10.3727/105221618X15156018385515. Epub 2018 Jan 11.

PMID: 29325602 [Free PMC article](#). Review.

3 **Bile acid** signaling in **metabolic** disease and drug therapy.

Li T, Chiang JY.

Pharmacol Rev. 2014 Oct;66(4):948-83. doi: 10.1124/pr.113.008201.

PMID: 25073467 [Free PMC article](#). Review.

4 **Circadian rhythms** and **bile acid** homeostasis: a comprehensive review.

Yu Z, Yang J, Xiang D, Li G, Liu D, Zhang C.

Chronobiol Int. 2020 May;37(5):618-628. doi: 10.1080/07420528.2020.1733590. Epub 2020 Mar 4.

PMID: 32126853

5 **Circadian rhythms** in liver **metabolism** and disease.

Ferrell JM, Chiang JY.

Acta Pharm Sin B. 2015 Mar;5(2):113-22. doi: 10.1016/j.apsb.2015.01.003. Epub 2015 Feb 2.

PMID: 26579436 [Free PMC article](#). Review.

6 **Bile acid** receptors FXR and TGR5 signaling in fatty liver diseases and therapy.

Chiang JYL, Ferrell JM.

Am J Physiol Gastrointest Liver Physiol. 2020 Mar 1;318(3):G554-G573. doi: 10.1152/ajpgi.00223.2019. Epub 2020 Jan 27.

PMID: 31984784 [Free PMC article](#). Review.

7 **Circadian** Clock Control of Liver **Metabolic** Functions.

Reinke H, Asher G.

Gastroenterology. 2016 Mar;150(3):574-80. doi: 10.1053/j.gastro.2015.11.043. Epub 2015 Dec 2.

PMID: 26657326 Review.

8 **Time-restricted feeding** without reducing caloric intake prevents **metabolic** diseases in mice fed a high-fat diet.

Hatori M, Vollmers C, Zarrinpar A, DiTacchio L, Bushong EA, Gill S, Leblanc M, Chaix A, Joens M, Fitzpatrick JA, Ellisman MH, Panda S.

Cell Metab. 2012 Jun 6;15(6):848-60. doi: 10.1016/j.cmet.2012.04.019. Epub 2012 May 17.

PMID: 22608008 [Free PMC article](#).

9 **Regulation** of host weight gain and lipid **metabolism** by bacterial **bile acid** modification in the gut.

Joyce SA, MacSharry J, Casey PG, Kinsella M, Murphy EF, Shanahan F, Hill C, Gahan CG.

Proc Natl Acad Sci U S A. 2014 May 20;111(20):7421-6. doi: 10.1073/pnas.1323599111. Epub 2014 May 5.

PMID: 24799697 [Free PMC article](#).

10 **Bile acids** and their effects on diabetes.

Rajani C, Jia W.

- Front Med. 2018 Dec;12(6):608-623. doi: 10.1007/s11684-018-0644-x. Epub 2018 Oct 10.
PMID: 30306382 Review.
- 11 **A selective gut bacterial bile salt hydrolase alters host metabolism.**
Yao L, Seaton SC, Ndousse-Fetter S, Adhikari AA, DiBenedetto N, Mina AI, Banks AS, Bry L, Devlin AS.
Elife. 2018 Jul 17;7:e37182. doi: 10.7554/eLife.37182.
PMID: 30014852 [Free PMC article.](#)
 - 12 **Short-term circadian disruption impairs bile acid and lipid homeostasis in mice.**
Ferrell JM, Chiang JY.
Cell Mol Gastroenterol Hepatol. 2015 Nov 1;1(6):664-677. doi: 10.1016/j.jcmgh.2015.08.003.
PMID: 26645046 [Free PMC article.](#)
 - 13 **Complex interaction between circadian rhythm and diet on bile acid homeostasis in male rats.**
Eggink HM, Oosterman JE, de Goede P, de Vries EM, Foppen E, Koehorst M, Groen AK, Boelen A, Romijn JA, la Fleur SE, Soeters MR, Kalsbeek A.
Chronobiol Int. 2017;34(10):1339-1353. doi: 10.1080/07420528.2017.1363226. Epub 2017 Oct 13.
PMID: 29028359
 - 14 **Asynchronous rhythms of circulating conjugated and unconjugated bile acids in the modulation of human metabolism.**
Al-Khaifi A, Straniero S, Voronova V, Chernikova D, Sokolov V, Kumar C, Angelin B, Rudling M.
J Intern Med. 2018 Nov;284(5):546-559. doi: 10.1111/joim.12811. Epub 2018 Jul 31.
PMID: 29964306 [Free article.](#)
 - 15 **Diurnal Variation of Markers for Cholesterol Synthesis, Cholesterol Absorption, and Bile Acid Synthesis: A Systematic Review and the Bispebjerg Study of Diurnal Variations.**
Schroor MM, Sennels HP, Fahrenkrug J, Jørgensen HL, Plat J, Mensink RP.
Nutrients. 2019 Jun 26;11(7):1439. doi: 10.3390/nu11071439.
PMID: 31247945 [Free PMC article.](#)
 - 16 **Circadian control of bile acid synthesis by a KLF15-Fgf15 axis.**
Han S, Zhang R, Jain R, Shi H, Zhang L, Zhou G, Sangwung P, Tugal D, Atkins GB, Prosdocimo DA, Lu Y, Han X, Tso P, Liao X, Epstein JA, Jain MK.
Nat Commun. 2015 Jun 4;6:7231. doi: 10.1038/ncomms8231.
PMID: 26040986 [Free PMC article.](#)
 - 17 **The influences of cholecystectomy on the circadian rhythms of bile acids as well as the enterohepatic transporters and enzymes systems in mice.**
Zhang F, Duan Y, Xi L, Wei M, Shi A, Zhou Y, Wei Y, Wu X.
Chronobiol Int. 2018 May;35(5):673-690. doi: 10.1080/07420528.2018.1426596. Epub 2018 Jan 30.
PMID: 29381405
 - 18 **Circadian dysregulation disrupts bile acid homeostasis.**
Ma K, Xiao R, Tseng HT, Shan L, Fu L, Moore DD.
PLoS One. 2009 Aug 31;4(8):e6843. doi: 10.1371/journal.pone.0006843.
PMID: 19718444 [Free PMC article.](#)
 - 19 **REV-ERBalpha participates in circadian SREBP signaling and bile acid homeostasis.**
Le Martelot G, Claudel T, Gatfield D, Schaad O, Kornmann B, Lo Sasso G, Moschetta A, Schibler U.
PLoS Biol. 2009 Sep;7(9):e1000181. doi: 10.1371/journal.pbio.1000181. Epub 2009 Sep 1.
PMID: 19721697 [Free PMC article.](#)
 - 20 **Delayed first active-phase meal, a breakfast-skipping model, led to increased body weight and shifted the circadian oscillation of the hepatic clock and lipid metabolism-related genes in rats fed a high-fat diet.**
Shimizu H, Hanzawa F, Kim D, Sun S, Laurent T, Umeki M, Ikeda S, Mochizuki S, Oda H.
PLoS One. 2018 Oct 31;13(10):e0206669. doi: 10.1371/journal.pone.0206669. eCollection 2018.
PMID: 30379940 [Free PMC article.](#)

- 21 **Methionine restriction alleviates high-fat diet-induced obesity: Involvement of diurnal **metabolism** of lipids and **bile acids**.**
Wang L, Ren B, Zhang Q, Chu C, Zhao Z, Wu J, Zhao W, Liu Z, Liu X.
Biochim Biophys Acta Mol Basis Dis. 2020 Nov 1;1866(11):165908. doi: 10.1016/j.bbadis.2020.165908. Epub 2020 Jul 31.
PMID: 32745530
- 22 **Periodic variation in **bile acids** controls **circadian** changes in uric **acid** via regulation of xanthine oxidase by the orphan nuclear receptor PPARalpha.**
Kanemitsu T, Tsurudome Y, Kusunose N, Oda M, Matsunaga N, Koyanagi S, Ohdo S.
J Biol Chem. 2017 Dec 29;292(52):21397-21406. doi: 10.1074/jbc.M117.791285. Epub 2017 Nov 3.
PMID: 29101234 [Free PMC article](#).
- 23 **MicroRNA-10a Impairs Liver **Metabolism** in Hepatitis C Virus-Related Cirrhosis Through Deregulation of the **Circadian** Clock Gene Brain and Muscle Aryl Hydrocarbon Receptor Nuclear Translocator-Like 1.**
Horii R, Honda M, Shirasaki T, Shimakami T, Shimizu R, Yamanaka S, Murai K, Kawaguchi K, Arai K, Yamashita T, Sakai Y, Yamashita T, Okada H, Nakamura M, Mizukoshi E, Kaneko S.
Hepatol Commun. 2019 Sep 26;3(12):1687-1703. doi: 10.1002/hep4.1431. eCollection 2019 Dec.
PMID: 31832575 [Free PMC article](#).
- 24 **Bile acid pool changes and regulation of cholate synthesis in experimental diabetes.**
Nervi FO, Severín CH, Valdivieso VD.
Biochim Biophys Acta. 1978 May 25;529(2):212-23. doi: 10.1016/0005-2760(78)90064-4.
PMID: 656452
- 25 **Effect of cholecystectomy on **bile acid** synthesis and circulating levels of fibroblast growth factor 19.**
Barrera F, Azócar L, Molina H, Schalper KA, Ocares M, Liberona J, Villarroel L, Pimentel F, Pérez-Ayuso RM, Nervi F, Groen AK, Miquel JF.
Ann Hepatol. 2015 Sep-Oct;14(5):710-21.
PMID: 26256900 [Free article](#).
- 26 **Bile acid concentrations in systemic and portal serum in presumably normal man and in cholestatic and cirrhotic conditions.**
Lindblad L, Lundholm K, Schersten T.
Scand J Gastroenterol. 1977;12(4):395-400. doi: 10.3109/00365527709181679.
PMID: 560715
- 27 **Effects of **bile acid** administration on **bile acid** synthesis and its **circadian rhythm** in man.**
Pooler PA, Duane WC.
Hepatology. 1988 Sep-Oct;8(5):1140-6. doi: 10.1002/hep.1840080530.
PMID: 3138171
- 28 **Fish oil alleviates **circadian bile** composition dysregulation in male mice with NAFLD.**
Liu Y, Li Q, Wang H, Zhao X, Li N, Zhang H, Chen G, Liu Z.
J Nutr Biochem. 2019 Jul;69:53-62. doi: 10.1016/j.jnutbio.2019.03.005. Epub 2019 Apr 4.
PMID: 31055233
- 29 **Clock Genes, **Metabolism**, and Cardiovascular Risk.**
Tarquini R, Mazzocchi G.
Heart Fail Clin. 2017 Oct;13(4):645-655. doi: 10.1016/j.hfc.2017.05.001. Epub 2017 Jun 29.
PMID: 28865774 [Review](#).
- 30 **The mechanisms of and the interrelationship between **bile acid** and chylomicron-mediated regulation of hepatic cholesterol synthesis in the liver of the rat.**
Nervi FO, Dietschy JM.
J Clin Invest. 1978 Apr;61(4):895-909. doi: 10.1172/JCI109015.
PMID: 566279 [Free PMC article](#).

- 31 **Increased cholesterol 7alpha-hydroxylase expression and size of the **bile acid** pool in the lactating rat.**
Wooton-Kee CR, Cohen DE, Vore M.
Am J Physiol Gastrointest Liver Physiol. 2008 Apr;294(4):G1009-16. doi: 10.1152/ajpgi.00017.2008. Epub 2008 Feb 21.
PMID: 18292185 [Free PMC article](#).
- 32 **Circadian rhythms of biliary protein and lipid excretion in rats.**
Nakano A, Tietz PS, LaRusso NF.
Am J Physiol. 1990 May;258(5 Pt 1):G653-9. doi: 10.1152/ajpgi.1990.258.5.G653.
PMID: 2159238
- 33 **Nuclear receptor-driven alterations in **bile acid** and lipid **metabolic pathways** during gestation.**
Papacleovoulou G, Abu-Hayyeh S, Williamson C.
Biochim Biophys Acta. 2011 Aug;1812(8):879-87. doi: 10.1016/j.bbadis.2010.11.001. Epub 2010 Nov 10.
PMID: 21073948 [Free article](#). Review.
- 34 **Description and simulation of a physiological pharmacokinetic model for the **metabolism** and enterohepatic circulation of **bile acids** in man. Cholic **acid** in healthy man.**
Hofmann AF, Molino G, Milanese M, Belforte G.
J Clin Invest. 1983 Apr;71(4):1003-22. doi: 10.1172/jci110828.
PMID: 6682120 [Free PMC article](#).
- 35 **Diurnal variations of mouse plasma and hepatic **bile acid** concentrations as well as expression of biosynthetic enzymes and transporters.**
Zhang YK, Guo GL, Klaassen CD.
PLoS One. 2011 Feb 8;6(2):e16683. doi: 10.1371/journal.pone.0016683.
PMID: 21346810 [Free PMC article](#).
- 36 **Retinoic **acid**-related orphan receptor alpha regulates diurnal **rhythm** and fasting induction of sterol 12alpha-hydroxylase in **bile acid** synthesis.**
Pathak P, Li T, Chiang JY.
J Biol Chem. 2013 Dec 27;288(52):37154-65. doi: 10.1074/jbc.M113.485987. Epub 2013 Nov 13.
PMID: 24226095 [Free PMC article](#).
- 37 **REV-ERBalpha and REV-ERBbeta function as key factors regulating Mammalian **Circadian** Output.**
Ikeda R, Tsuchiya Y, Koike N, Umemura Y, Inokawa H, Ono R, Inoue M, Sasawaki Y, Grieten T, Okubo N, Ikoma K, Fujiwara H, Kubo T, Yagita K.
Sci Rep. 2019 Jul 15;9(1):10171. doi: 10.1038/s41598-019-46656-0.
PMID: 31308426 [Free PMC article](#).
- 38 **Circadian variations in gastric **acid** and pepsin secretion and intragastric **bile acid** in patients with reflux esophagitis and in healthy controls.**
Fiorucci S, Distrutti E, Di Matteo F, Brunori P, Santucci L, Mallozzi E, Bigazzi U, Morelli A.
Am J Gastroenterol. 1995 Feb;90(2):270-6.
PMID: 7847299
- 39 **Metabolomics revealed diurnal heat stress and zinc supplementation-induced changes in amino **acid**, lipid, and microbial **metabolism**.**
Wang L, Urriola PE, Luo ZH, Rambo ZJ, Wilson ME, Torrison JL, Shurson GC, Chen C.
Physiol Rep. 2016 Jan;4(1):e12676. doi: 10.14814/phy2.12676.
PMID: 26755737 [Free PMC article](#).
- 40 **Circadian distribution of **bile acid** in the enterohepatic circulatory system in hamsters.**
Ho KJ.
J Lipid Res. 1976 Nov;17(6):600-4.
PMID: 993671 [Free article](#).
- 41 **Hypothalamus-Pituitary-Adrenal Dysfunction in Cholestatic Liver Disease.**

- Petrescu AD, Kain J, Liere V, Heavener T, DeMorrow S.
Front Endocrinol (Lausanne). 2018 Nov 12;9:660. doi: 10.3389/fendo.2018.00660. eCollection 2018.
PMID: 30483216 [Free PMC article](#). Review.
- 42 [The Biological Clock: A Pivotal Hub in Non-alcoholic Fatty Liver Disease Pathogenesis.](#)
Mazzoccoli G, De Cosmo S, Mazza T.
Front Physiol. 2018 Mar 15;9:193. doi: 10.3389/fphys.2018.00193. eCollection 2018.
PMID: 29662454 [Free PMC article](#). Review.
- 43 [Synchronous **circadian rhythms** of mRNA levels and activities of cholesterol 7 alpha-hydroxylase in the rabbit and rat.](#)
Kai M, Eto T, Kondo K, Setoguchi Y, Higashi S, Maeda Y, Setoguchi T.
J Lipid Res. 1995 Feb;36(2):367-74.
PMID: 7751825 [Free article](#).
- 44 [Bile acid-regulated peroxisome proliferator-activated receptor-alpha \(PPARalpha\) activity underlies **circadian** expression of intestinal peptide absorption transporter PepT1/Slc15a1.](#)
Okamura A, Koyanagi S, Dilxiat A, Kusunose N, Chen JJ, Matsunaga N, Shibata S, Ohdo S.
J Biol Chem. 2014 Sep 5;289(36):25296-305. doi: 10.1074/jbc.M114.577023. Epub 2014 Jul 11.
PMID: 25016014 [Free PMC article](#).
- 45 [\[Bile acid concentrations in serum, **bile** and feces of healthy calves and calves with diarrhea\].](#)
Doll K, Riepl H, Eichhorn W, Dirksen G.
Dtsch Tierarztl Wochenschr. 1999 Jan;106(1):35-40.
PMID: 10028759 German.
- 46 [Growth hormone and **bile acid** synthesis. Key role for the activity of hepatic microsomal cholesterol 7alpha-hydroxylase in the rat.](#)
Rudling M, Parini P, Angelin B.
J Clin Invest. 1997 May 1;99(9):2239-45. doi: 10.1172/JCI119398.
PMID: 9151797 [Free PMC article](#).
- 47 [Multiple mechanisms regulate **circadian** expression of the gene for cholesterol 7alpha-hydroxylase \(Cyp7a\), a key enzyme in hepatic **bile acid** biosynthesis.](#)
Noshiro M, Usui E, Kawamoto T, Kubo H, Fujimoto K, Furukawa M, Honma S, Makishima M, Honma K, Kato Y.
J Biol Rhythms. 2007 Aug;22(4):299-311. doi: 10.1177/0748730407302461.
PMID: 17660447
- 48 [Diurnal **rhythms** of **bile acid** production in the rat.](#)
Duane WC, Gilberstadt ML, Wiegand DM.
Am J Physiol. 1979 Mar;236(3):R175-9. doi: 10.1152/ajpregu.1979.236.3.R175.
PMID: 426094
- 49 [Loss of von Hippel-Lindau protein \(VHL\) increases systemic cholesterol levels through targeting hypoxia-inducible factor 2alpha and regulation of **bile acid** homeostasis.](#)
Ramakrishnan SK, Taylor M, Qu A, Ahn SH, Suresh MV, Raghavendran K, Gonzalez FJ, Shah YM.
Mol Cell Biol. 2014 Apr;34(7):1208-20. doi: 10.1128/MCB.01441-13. Epub 2014 Jan 13.
PMID: 24421394 [Free PMC article](#).
- 50 [Estrogen synthesis in gastric parietal cells and secretion into portal vein.](#)
Kobayashi H.
Anat Sci Int. 2020 Jan;95(1):22-30. doi: 10.1007/s12565-019-00510-5. Epub 2019 Nov 16.
PMID: 31734841 Review.
- 51 [Gall bladder: The **metabolic** orchestrator.](#)
Qi L, Tian Y, Chen Y.
Diabetes Metab Res Rev. 2019 Jul;35(5):e3140. doi: 10.1002/dmrr.3140. Epub 2019 Feb 27.

PMID: 30770629 Review.

- 52 **Within-day fluctuations in serum bile-acid concentrations among normal control subjects and patients with hepatic disease.**
Engelking LR, Dasher CA, Hirschowitz BI.
Am J Clin Pathol. 1980 Feb;73(2):196-201. doi: 10.1093/ajcp/73.2.196.
PMID: 7188830
- 53 **Variability of serum bile acid concentrations over time in dairy cattle, and effect of feed deprivation on the variability.**
Pearson EG, Craig AM, Rowe K.
Am J Vet Res. 1992 Oct;53(10):1780-3.
PMID: 1456520
- 54 **Regulation of bile acid synthesis by the nuclear receptor Rev-erbalpha.**
Duez H, van der Veen JN, Duhem C, Pourcet B, Touvier T, Fontaine C, Derudas B, Baugé E, Havinga R, Bloks VW, Wolters H, van der Sluijs FH, Vennström B, Kuipers F, Staels B.
Gastroenterology. 2008 Aug;135(2):689-98. doi: 10.1053/j.gastro.2008.05.035. Epub 2008 May 15.
PMID: 18565334
- 55 **Short-term effects of 3-hydroxy-3-methylglutaryl-CoA reductase inhibitor on cholesterol and bile acid synthesis in humans.**
Yoshida T, Honda A, Shoda J, Abei M, Matsuzaki Y, Tanaka N, Miyazaki H, Osuga T.
Lipids. 1997 Aug;32(8):873-8. doi: 10.1007/s11745-997-0112-2.
PMID: 9270980
- 56 **Evidence for liver energy metabolism programming in offspring subjected to intrauterine undernutrition during midgestation.**
Zhou X, Yang H, Yan Q, Ren A, Kong Z, Tang S, Han X, Tan Z, Salem AZM.
Nutr Metab (Lond). 2019 Mar 18;16:20. doi: 10.1186/s12986-019-0346-7. eCollection 2019.
PMID: 30923555 [Free PMC article.](#)
- 57 **Hepatic P-450 cholesterol 7 alpha-hydroxylase. Regulation in vivo at the protein and mRNA level in response to mevalonate, diurnal rhythm, and bile acid feedback.**
Sundseth SS, Waxman DJ.
J Biol Chem. 1990 Sep 5;265(25):15090-5.
PMID: 2394714 [Free article.](#)
- 58 **Bile secretion and bile composition in the freely moving, unanaesthetized rat with a permanent biliary drainage: influence of food intake on bile flow.**
Vonk RJ, van Doorn AB, Strubbe JH.
Clin Sci Mol Med. 1978 Sep;55(3):253-9. doi: 10.1042/cs0550253.
PMID: 699501
- 59 **Maintenance of hepatic bile acid secretion rate during overnight fasting by bedtime bile acid administration.**
Lanzini A, Facchinetti D, Northfield TC.
Gastroenterology. 1988 Oct;95(4):1029-35. doi: 10.1016/0016-5085(88)90179-5.
PMID: 3410216
- 60 **Unconjugated Bile Acids Influence Expression of Circadian Genes: A Potential Mechanism for Microbe-Host Crosstalk.**
Govindarajan K, MacSharry J, Casey PG, Shanahan F, Joyce SA, Gahan CG.
PLoS One. 2016 Dec 1;11(12):e0167319. doi: 10.1371/journal.pone.0167319. eCollection 2016.
PMID: 27907092 [Free PMC article.](#)
- 61 **Bile acid biosynthesis. Pathways and regulation.**
Mosbach EH, Salen G.
Am J Dig Dis. 1974 Oct;19(10):920-9. doi: 10.1007/BF01076215.

PMID: 4607373 Review. No abstract available.

- 62 **Analysis of circadian fluctuations of bile salt concentration and pH in the stomach of normal subjects and patients suspected of having duodenogastric reflux.**
Savarino V, Testa R, Mela GS, Bonifacino G, Fiannacca D, Ibba R, Sumberaz A, Zentilin P, Celle G.
Ital J Gastroenterol. 1990 Feb;22(1):7-12.
PMID: 2131931
- 63 **Dietary fish oil potentiates bile acid-induced cholesterol secretion into bile in rats.**
Smit MJ, Verkade HJ, Havinga R, Vonk RJ, Scherphof GL, In 't Veld G, Kuipers F.
J Lipid Res. 1994 Feb;35(2):301-10.
PMID: 8169534 [Free article](#).
- 64 **[Mechanisms of bile acid biosynthesis regulation--autoregulation by bile acids].**
Hebanowska A.
Postepy Biochem. 2011;57(3):314-23.
PMID: 22235657 Review. Polish.
- 65 **Diurnal variation in cholesterol metastability of hepatic bile and its acute modulation with ursodeoxycholic acid in humans.**
Noshiro H, Chijiwa K, Hirota I.
J Hepatol. 1992 Sep;16(1-2):23-30. doi: 10.1016/s0168-8278(05)80090-x.
PMID: 1484158
- 66 **Profiling of the circadian metabolome in thioacetamide-induced liver cirrhosis in mice.**
Fujisawa K, Takami T, Matsumoto T, Yamamoto N, Sakaida I.
Hepatol Commun. 2017 Jul 26;1(7):704-718. doi: 10.1002/hep4.1075. eCollection 2017 Sep.
PMID: 29404487 [Free PMC article](#).
- 67 **Effect of portacaval anastomosis on the activities of hepatic enzymes related to cholesterol and bile acid metabolism in rats.**
Balasubramaniam S, Press CM, Mitropoulos KA, Magide AA, Myant NB.
Biochim Biophys Acta. 1976 Aug 23;441(2):308-15. doi: 10.1016/0005-2760(76)90174-0.
PMID: 8128
- 68 **A translational view on the biliary lipid secretory network.**
Lo Sasso G, Petruzzelli M, Moschetta A.
Biochim Biophys Acta. 2008 Mar;1781(3):79-96. doi: 10.1016/j.bbailip.2007.12.002. Epub 2007 Dec 23.
PMID: 18194677 Review.
- 69 **Bacterial bile salt hydrolase in host metabolism: Potential for influencing gastrointestinal microbe-host crosstalk.**
Joyce SA, Shanahan F, Hill C, Gahan CG.
Gut Microbes. 2014;5(5):669-74. doi: 10.4161/19490976.2014.969986.
PMID: 25483337 [Free PMC article](#). Review.
- 70 **Diurnal serum levels of primary conjugated bile acids. Assessment by specific radioimmunoassays for conjugates of cholic and chenodeoxycholic acid.**
Schalm SW, LaRusso NF, Hofmann AF, Hoffman NE, van Berge-Henegouwen GP, Korman MG.
Gut. 1978 Nov;19(11):1006-14. doi: 10.1136/gut.19.11.1006.
PMID: 569619 [Free PMC article](#).
- 71 **Circulating intestinal fibroblast growth factor 19 has a pronounced diurnal variation and modulates hepatic bile acid synthesis in man.**
Lundåsen T, Gälman C, Angelin B, Rudling M.
J Intern Med. 2006 Dec;260(6):530-6. doi: 10.1111/j.1365-2796.2006.01731.x.
PMID: 17116003 [Free article](#).

- 72 **Bile acid** synthesis in humans has a rapid diurnal variation that is asynchronous with cholesterol synthesis.
Gälman C, Angelin B, Rudling M.
Gastroenterology. 2005 Nov;129(5):1445-53. doi: 10.1053/j.gastro.2005.09.009.
PMID: 16285946
- 73 **Circadian** distribution of **bile acids** in the enterohepatic circulatory system in rats.
Ho KJ.
Am J Physiol. 1976 May;230(5):1331-5. doi: 10.1152/ajplegacy.1976.230.5.1331.
PMID: 1275075
- 74 **Biochemical** controls of liver cholesterol biosynthesis.
Ott DB, Lachance PA.
Am J Clin Nutr. 1981 Oct;34(10):2295-306. doi: 10.1093/ajcn/34.10.2295.
PMID: 6170219 Review.
- 75 **The effects** of time-restricted feeding on lipid **metabolism** and adiposity.
Chaix A, Zarrinpar A.
Adipocyte. 2015 Apr 20;4(4):319-24. doi: 10.1080/21623945.2015.1025184. eCollection 2015 Oct-Dec.
PMID: 26451290 [Free PMC article](#).
- 76 **Determination** of 7 alpha-hydroxy-4-cholesten-3-one level in plasma using isotope-dilution mass spectrometry and monitoring its **circadian rhythm** in human as an index of **bile acid** biosynthesis.
Yoshida T, Honda A, Tanaka N, Matsuzaki Y, Shoda J, He B, Osuga T, Miyazaki H.
J Chromatogr B Biomed Appl. 1994 May 13;655(2):179-87. doi: 10.1016/0378-4347(94)00107-3.
PMID: 8081463
- 77 **The extracorporeal bile** duct: a new model for determination of **bile** flow and **bile** composition in the intact rat.
Weis EE, Barth CA.
J Lipid Res. 1978 Sep;19(7):856-62.
PMID: 568643 [Free article](#).
- 78 **Circadian** signatures in rat liver: from gene expression to **pathways**.
Ovacik MA, Sukumaran S, Almon RR, DuBois DC, Jusko WJ, Androulakis IP.
BMC Bioinformatics. 2010 Nov 1;11:540. doi: 10.1186/1471-2105-11-540.
PMID: 21040584 [Free PMC article](#).
- 79 **Sex and circadian** modulatory effects on rat liver as assessed by transcriptome analyses.
Hirao J, Nishimura M, Arakawa S, Niino N, Mori K, Furukawa T, Sanbuissho A, Manabe S, Nishihara M, Mori Y.
J Toxicol Sci. 2011 Jan;36(1):9-22. doi: 10.2131/jts.36.9.
PMID: 21297337 [Free article](#).
- 80 **Regulation** of cholesterol-7alpha-hydroxylase: **BAREly** missing a **SHP**.
Davis RA, Miyake JH, Hui TY, Spann NJ.
J Lipid Res. 2002 Apr;43(4):533-43.
PMID: 11907135 [Free article](#). Review.
- 81 **Enterohepatic** circulation of **bile acids** after cholecystectomy.
Roda E, Aldini R, Mazzella G, Roda A, Sama C, Festi D, Barbara L.
Gut. 1978 Jul;19(7):640-9. doi: 10.1136/gut.19.7.640.
PMID: 567165 [Free PMC article](#).
- 82 **The circadian rhythm** of synthesis and catabolism of cholesterol.
Mayer D.
Arch Toxicol. 1976 Dec 17;36(3-4):267-76. doi: 10.1007/BF00340534.
PMID: 1036900

- 83 **The effect of 20 Mg omeprazole daily on serum gastrin, 24-h intragastric acidity, and **bile acid** concentration in duodenal ulcer patients.**
Naesdal J, Bankel M, Bodemar G, Gotthard R, Lundquist G, Walan A.
Scand J Gastroenterol. 1987 Jan;22(1):5-12. doi: 10.3109/00365528708991848.
PMID: 3551048 Clinical Trial.
- 84 **Liver Cancer Checks in When **Bile Acid** Clocks Out.**
Fu T, Zhao X, Evans RM.
Cancer Cell. 2016 Dec 12;30(6):827-828. doi: 10.1016/j.ccell.2016.11.012.
PMID: 27960079 [Free PMC article](#).
- 85 **Circadian rhythm of biliary excretion and its control mechanisms in rats with chronic biliary drainage.**
Ho KJ, Drummond JL.
Am J Physiol. 1975 Nov;229(5):1427-37. doi: 10.1152/ajplegacy.1975.229.5.1427.
PMID: 1200164
- 86 **Bile acids and their receptors in **metabolic** disorders.**
Fiorucci S, Distrutti E, Carino A, Zampella A, Biagioli M.
Prog Lipid Res. 2021 Feb 23;82:101094. doi: 10.1016/j.plipres.2021.101094. Online ahead of print.
PMID: 33636214 Review.
- 87 **Genomic convergence among ERRalpha, PROX1, and BMAL1 in the control of **metabolic** clock outputs.**
Dufour CR, Levasseur MP, Pham NH, Eichner LJ, Wilson BJ, Charest-Marcotte A, Duguay D, Poirier-Héon JF, Cermakian N, Giguère V.
PLoS Genet. 2011 Jun;7(6):e1002143. doi: 10.1371/journal.pgen.1002143. Epub 2011 Jun 23.
PMID: 21731503 [Free PMC article](#).
- 88 **The pharmacological exploitation of cholesterol 7alpha-hydroxylase, the key enzyme in **bile acid** synthesis: from binding resins to chromatin remodelling to reduce plasma cholesterol.**
Gilardi F, Mitro N, Godio C, Scotti E, Caruso D, Crestani M, De Fabiani E.
Pharmacol Ther. 2007 Dec;116(3):449-72. doi: 10.1016/j.pharmthera.2007.08.003. Epub 2007 Sep 7.
PMID: 17959250 Review.
- 89 **Food in synchrony with melatonin and corticosterone relieves constant light disturbed **metabolism**.**
Báez-Ruiz A, Guerrero-Vargas NN, Cázarez-Márquez F, Sabath E, Basualdo MDC, Salgado-Delgado R, Escobar C, Buijs RM.
J Endocrinol. 2017 Dec;235(3):167-178. doi: 10.1530/JOE-17-0370. Epub 2017 Aug 29.
PMID: 28851750
- 90 **Regulation of oxysterol 7alpha-hydroxylase (CYP7B1) in the rat.**
Ren S, Marques D, Redford K, Hylemon PB, Gil G, Vlahcevic ZR, Pandak WM.
Metabolism. 2003 May;52(5):636-42. doi: 10.1053/meta.2003.50106.
PMID: 12759897
- 91 **Circadian clocks in the digestive system.**
Segers A, Depoortere I.
Nat Rev Gastroenterol Hepatol. 2021 Feb 2. doi: 10.1038/s41575-020-00401-5. Online ahead of print.
PMID: 33531700 Review.
- 92 **Disturbances in the murine hepatic **circadian** clock in alcohol-induced hepatic steatosis.**
Zhou P, Ross RA, Pywell CM, Liangpunsakul S, Duffield GE.
Sci Rep. 2014 Jan 16;4:3725. doi: 10.1038/srep03725.
PMID: 24430730 [Free PMC article](#).
- 93 **Diurnal changes in serum unconjugated **bile acids** in normal man.**
Setchell KD, Lawson AM, Blackstock EJ, Murphy GM.
Gut. 1982 Aug;23(8):637-42. doi: 10.1136/gut.23.8.637.
PMID: 7201438 [Free PMC article](#).

- 94 [Modulation of peroxisome proliferator-activated receptor-alpha activity by **bile acids** causes **circadian** changes in the intestinal expression of Octn1/Slc22a4 in mice.](#)
Wada E, Koyanagi S, Kusunose N, Akamine T, Masui H, Hashimoto H, Matsunaga N, Ohdo S.
Mol Pharmacol. 2015 Feb;87(2):314-22. doi: 10.1124/mol.114.094979. Epub 2014 Nov 24.
PMID: 25422143
- 95 [Small Heterodimer Partner \(NR0B2\) Coordinates Nutrient Signaling and the **Circadian** Clock in Mice.](#)
Wu N, Kim KH, Zhou Y, Lee JM, Kettner NM, Mamrosh JL, Choi S, Fu L, Moore DD.
Mol Endocrinol. 2016 Sep;30(9):988-95. doi: 10.1210/me.2015-1295. Epub 2016 Jul 18.
PMID: 27427832 [Free PMC article.](#)
- 96 [Gene expression profiling reveals a regulatory role for ROR alpha and ROR gamma in phase I and phase II **metabolism**.](#)
Kang HS, Angers M, Beak JY, Wu X, Gimble JM, Wada T, Xie W, Collins JB, Grissom SF, Jetten AM.
Physiol Genomics. 2007 Oct 22;31(2):281-94. doi: 10.1152/physiolgenomics.00098.2007. Epub 2007 Jul 31.
PMID: 17666523
- 97 [Regulation of **bile acid** synthesis in man. Presence of a diurnal **rhythm**.](#)
Duane WC, Levitt DG, Mueller SM, Behrens JC.
J Clin Invest. 1983 Dec;72(6):1930-6. doi: 10.1172/JCI111157.
PMID: 6417166 [Free PMC article.](#)
- 98 [R-alpha-lipoic **acid** does not reverse hepatic inflammation of aging, but lowers lipid anabolism, while accentuating **circadian rhythm** transcript profiles.](#)
Finlay LA, Michels AJ, Butler JA, Smith EJ, Monette JS, Moreau RF, Petersen SK, Frei B, Hagen TM.
Am J Physiol Regul Integr Comp Physiol. 2012 Mar 1;302(5):R587-97. doi: 10.1152/ajpregu.00393.2011. Epub 2011 Nov 2.
PMID: 22049228 [Free PMC article.](#)
- 99 [Liver denervation does not alter the **circadian rhythm** of **bile acid** synthesis in rats.](#)
Gilberstadt ML, Bellinger LL, Lindblad S, Duane WC.
Am J Physiol. 1991 Nov;261(5 Pt 1):G799-802. doi: 10.1152/ajpgi.1991.261.5.G799.
PMID: 1951699
- 100 [Metabolic effects of cholecystectomy: gallbladder ablation increases basal **metabolic** rate through G-protein coupled **bile acid** receptor Gpbar1-dependent mechanisms in mice.](#)
Cortés V, Amigo L, Zanolungo S, Galgani J, Robledo F, Arrese M, Bozinovic F, Nervi F.
PLoS One. 2015 Mar 4;10(3):e0118478. doi: 10.1371/journal.pone.0118478. eCollection 2015.
PMID: 25738495 [Free PMC article.](#)
- 101 [Cholesterol gallstones.](#)
Percy-Robb IW.
Scott Med J. 1973 Sep;18(5):157-65. doi: 10.1177/003693307301800506.
PMID: 4201570 No abstract available.
- 102 [Circadian rhythmic hepatic biliary flow, constituents, concentrations and excretory rates in patients after cholecystectomy.](#)
Ho KJ.
Chronobiologia. 1994 Jul-Dec;21(3-4):283-92.
PMID: 7729244
- 103 [Regulation of diurnal variation of cholesterol 7alpha-hydroxylase \(CYP7A1\) activity in healthy subjects.](#)
Kovář J, Leniček M, Zimolová M, Vítek L, Jirsa M, Pitha J.
Physiol Res. 2010;59(2):233-238. doi: 10.33549/physiolres.931753. Epub 2009 Jun 19.
PMID: 19537927 [Free article.](#) Clinical Trial.
- 104 [Regulation of hepatic cholesterologenesis.](#)
Goldfarb S.
Int Rev Physiol. 1980;21:317-56.

PMID: 6993398 Review. No abstract available.

- 105 **Transcriptional regulation of hepatic sterol 27-hydroxylase by bile acids.**
Vlahcevic ZR, Jairath SK, Heuman DM, Stravitz RT, Hylemon PB, Avadhani NG, Pandak WM.
Am J Physiol. 1996 Apr;270(4 Pt 1):G646-52. doi: 10.1152/ajpgi.1996.270.4.G646.
PMID: 8928794
- 106 **Enterohepatic circulation of bile acids in pigs: diurnal pattern and effect of a reentrant biliary fistula.**
Legrand-Defretin V, Juste C, Corring T, Rerat A.
Am J Physiol. 1986 Mar;250(3 Pt 1):G295-301. doi: 10.1152/ajpgi.1986.250.3.G295.
PMID: 3953816
- 107 **Diurnal variations in and effect of biliary obstruction on cholesterol and bile acid formation.**
Danielsson H.
Helv Med Acta. 1973 Sep;37(2):121-7.
PMID: 4748920 No abstract available.
- 108 **Effect of food components and dosing times on the oral pharmacokinetics of nifedipine in rats.**
Cao QR, Cui JH, Park JB, Han HK, Lee J, Oh KT, Park I, Lee BJ.
Int J Pharm. 2010 Aug 30;396(1-2):39-44. doi: 10.1016/j.ijpharm.2010.06.002. Epub 2010 Jun 9.
PMID: 20538051
- 109 **Interactions Between Nuclear Receptor SHP and FOXA1 Maintain Oscillatory Homocysteine Homeostasis in Mice.**
Tsuchiya H, da Costa KA, Lee S, Renga B, Jaeschke H, Yang Z, Orena SJ, Goedken MJ, Zhang Y, Kong B, Lebofsky M, Rudraiah S, Smalling R, Guo G, Fiorucci S, Zeisel SH, Wang L.
Gastroenterology. 2015 May;148(5):1012-1023.e14. doi: 10.1053/j.gastro.2015.01.045. Epub 2015 Feb 19.
PMID: 25701738 [Free PMC article.](#)
- 110 **Clock mutation facilitates accumulation of cholesterol in the liver of mice fed a cholesterol and/or cholic acid diet.**
Kudo T, Kawashima M, Tamagawa T, Shibata S.
Am J Physiol Endocrinol Metab. 2008 Jan;294(1):E120-30. doi: 10.1152/ajpendo.00061.2007. Epub 2007 Oct 30.
PMID: 17971517 [Free article.](#)
- 111 **Regulatory effects of dietary sterols and bile acids on rat intestinal HMG CoA reductase.**
Shefer S, Hauser S, Lapar V, Mosbach EH.
J Lipid Res. 1973 Jul;14(4):400-5.
PMID: 4715323 [Free article.](#)
- 112 **Composition of biliary lipids and kinetics of bile acids after cholecystectomy in man.**
Kimball A, Pertsemliadis D, Panveliwalla D.
Am J Dig Dis. 1976 Sep;21(9):776-81. doi: 10.1007/BF01073029.
PMID: 986762
- 113 **[Cholestatic pruritus : new insights into pathophysiology and current treatment].**
Kremer AE, Oude Elferink RP, Beuers U.
Hautarzt. 2012 Jul;63(7):532-8. doi: 10.1007/s00105-011-2321-8.
PMID: 22733242 German.
- 114 **Regulation of bile acid biosynthesis by hepatocyte nuclear factor 4alpha.**
Inoue Y, Yu AM, Yim SH, Ma X, Krausz KW, Inoue J, Xiang CC, Brownstein MJ, Eggertsen G, Björkhem I, Gonzalez FJ.
J Lipid Res. 2006 Jan;47(1):215-27. doi: 10.1194/jlr.M500430-JLR200. Epub 2005 Nov 1.
PMID: 16264197 [Free PMC article.](#)
- 115 **Daily fluctuation of cholestatic enzymes in bile and its relationship to the total bile salts concentration.**
Massarrat SA, Massarrat S, Arendt D, Kordes B.
Clin Biochem. 1979 Dec;12(6):238-42. doi: 10.1016/s0009-9120(79)80114-9.

PMID: 43782

- 116 [On the control of cholesterol synthesis.](#)
Bortz WM.
Metabolism. 1973 Dec;22(12):1507-24. doi: 10.1016/0026-0495(73)90019-x.
PMID: 4206254 Review. No abstract available.
- 117 [Synchronization of hepatic cholesterol synthesis, cholesterol and **bile acid** content, fatty **acid** synthesis and plasma free fatty **acid** levels in the fed and fasted rat.](#)
Bortz WM, Steele LA.
Biochim Biophys Acta. 1973 Apr 13;306(1):85-94. doi: 10.1016/0005-2760(73)90212-9.
PMID: 4703579 No abstract available.
- 118 [Bile acid synthesis from newly synthesized vs. preformed cholesterol precursor pools in the rat.](#)
Scheibner J, Fuchs M, Schiemann M, Tauber G, Hörmann E, Stange EF.
Hepatology. 1993 Jun;17(6):1095-102.
PMID: 8514259
- 119 [Mechanisms for increased expression of cholesterol 7alpha-hydroxylase \(Cyp7a1\) in lactating rats.](#)
Wooton-Kee CR, Coy DJ, Athipphozhy AT, Zhao T, Jones BR, Vore M.
Hepatology. 2010 Jan;51(1):277-85. doi: 10.1002/hep.23289.
PMID: 19957370 [Free PMC article.](#)
- 120 [Nocturnal gallbladder storage and emptying in gallstone patients and healthy subjects.](#)
van Berge Henegouwen GP, Hofmann AF.
Gastroenterology. 1978 Nov;75(5):879-85.
PMID: 700331
- 121 [Diurnal and individual variations in **bile acids** in the plasma of normal dairy cows.](#)
Abdelkader SV, Ropstad E.
Acta Vet Scand. 1989;30(2):221-8.
PMID: 2596389
- 122 [The role of the transcriptional activator protein DBP in **circadian** liver gene expression.](#)
Wuarin J, Falvey E, Lavery D, Talbot D, Schmidt E, Ossipow V, Fonjallaz P, Schibler U.
J Cell Sci Suppl. 1992;16:123-7. doi: 10.1242/jcs.1992.supplement_16.15.
PMID: 1297647 Review.
- 123 [In vivo and in vitro studies on the regulatory link between 3-hydroxy-3-methylglutaryl coenzyme A reductase and cholesterol 7 alpha-hydroxylase in rat liver.](#)
Boll M, Weber LW, Plana J, Stampfl A.
Z Naturforsch C J Biosci. 1999 May-Jun;54(5-6):371-82. doi: 10.1515/znc-1999-5-612.
PMID: 10431389
- 124 [Regulation of cholesterol 7 alpha-hydroxylase in the liver. Purification of cholesterol 7 alpha-hydroxylase and the immunochemical evidence for the induction of cholesterol 7 alpha-hydroxylase by cholestyramine and **circadian rhythm**.](#)
Chiang JY, Miller WF, Lin GM.
J Biol Chem. 1990 Mar 5;265(7):3889-97.
PMID: 2154492 [Free article.](#)
- 125 [Diurnal variation in cholesterol 7 \$\alpha\$ -hydroxylase activity is determined by the -203A>C polymorphism of the CYP7A1 gene.](#)
Vlachova M, Blahova T, Lanska V, Leníček M, Pitha J, Víték L, Kovar J.
Croat Med J. 2016 Apr 23;57(2):111-7. doi: 10.3325/cmj.2016.57.111.
PMID: 27106353 [Free PMC article.](#)
- 126 [Regular feeding plays an important role in cholesterol homeostasis through the liver **circadian** clock.](#)

- Yamajuku D, Okubo S, Haruma T, Inagaki T, Okuda Y, Kojima T, Noutomi K, Hashimoto S, Oda H.
Circ Res. 2009 Sep 11;105(6):545-8. doi: 10.1161/CIRCRESAHA.109.199034. Epub 2009 Aug 6.
PMID: 19661461
- 127 [Detection of FGF15 in plasma by stable isotope standards and capture by anti-peptide antibodies and targeted mass spectrometry.](#)
Katafuchi T, Esterházy D, Lemoff A, Ding X, Sondhi V, Kliewer SA, Mirzaei H, Mangelsdorf DJ.
Cell Metab. 2015 Jun 2;21(6):898-904. doi: 10.1016/j.cmet.2015.05.004.
PMID: 26039452 [Free PMC article.](#)
- 128 [Diurnal changes and adaptation by the liver of hamsters to an atherogenic diet.](#)
Robins SJ, Fasulo JM, Pritzker CR, Ordovas JM, Patton GM.
Am J Physiol. 1995 Dec;269(6 Pt 2):R1327-32. doi: 10.1152/ajpregu.1995.269.6.R1327.
PMID: 8594933
- 129 [Clinical study of urinary sulfated **bile acids** in patients with hepatitis C virus.](#)
Tetsutani T, Adachi K, Suzuki T, Kiyohara S.
Hepatogastroenterology. 2010 Nov-Dec;57(104):1483-8.
PMID: 21443107
- 130 [Significant lethality following liver resection in A20 heterozygous knockout mice uncovers a key role for A20 in liver regeneration.](#)
Studer P, da Silva CG, Revuelta Cervantes JM, Mele A, Csizmadia E, Siracuse JJ, Damrauer SM, Peterson CR, Candinas D, Stroka DM, Ma A, Bhasin M, Ferran C.
Cell Death Differ. 2015 Dec;22(12):2068-77. doi: 10.1038/cdd.2015.52. Epub 2015 May 15.
PMID: 25976305 [Free PMC article.](#)
- 131 [A System for In Vivo Imaging of Hepatic Free Fatty Acid Uptake.](#)
Park HM, Russo KA, Karateev G, Park M, Dubikovskaya E, Kriegsfeld LJ, Stahl A.
Gastroenterology. 2017 Jan;152(1):78-81.e2. doi: 10.1053/j.gastro.2016.10.002. Epub 2016 Oct 11.
PMID: 27742378 [Free PMC article.](#)
- 132 [Portal blood concentrations of conjugated cholic and chenodeoxycholic **acids**. Relationships to **bile** salt synthesis in liver cells.](#)
Botham KM, Lawson ME, Beckett GJ, Percy-Robb IW, Boyd GS.
Biochim Biophys Acta. 1981 Jul 24;665(1):81-7. doi: 10.1016/0005-2760(81)90235-6.
PMID: 7197162
- 133 [Characterization of critical factors influencing gene expression of two types of fatty **acid**-binding proteins \(L-FABP and Lb-FABP\) in the liver of birds.](#)
Murai A, Furuse M, Kitaguchi K, Kusumoto K, Nakanishi Y, Kobayashi M, Horio F.
Comp Biochem Physiol A Mol Integr Physiol. 2009 Oct;154(2):216-23. doi: 10.1016/j.cbpa.2009.06.007. Epub 2009 Jun 21.
PMID: 19540927
- 134 [The economy of the enterohepatic circulation of **bile acids** in the baboon. 1. Studies of controlled enterohepatic circulation of **bile acids**.](#)
Redinger RN, Hawkins JW, Grace DM.
J Lipid Res. 1984 May;25(5):428-36.
PMID: 6736777 [Free article.](#)
- 135 [Insulin is a dominant suppressor of sterol 12 alpha-hydroxylase P450 \(CYP8B\) expression in rat liver: possible role of insulin in **circadian rhythm** of CYP8B.](#)
Ishida H, Yamashita C, Kuruta Y, Yoshida Y, Noshiro M.
J Biochem. 2000 Jan;127(1):57-64. doi: 10.1093/oxfordjournals.jbchem.a022584.
PMID: 10731667 [Free article.](#)
- 136 [Factors influencing cholesterol biosynthesis in rat liver.](#)

[No authors listed]

Nutr Rev. 1970 Feb;28(2):49-51. doi: 10.1111/j.1753-4887.1970.tb06178.x.

PMID: 4908585 Review. No abstract available.

- 137 **Monitoring hepatic cholesterol 7alpha-hydroxylase activity by assay of the stable **bile acid** intermediate 7alpha-hydroxy-4-cholesten-3-one in peripheral blood.**
Gälman C, Arvidsson I, Angelin B, Rudling M.
J Lipid Res. 2003 Apr;44(4):859-66. doi: 10.1194/jlr.D200043-JLR200. Epub 2003 Jan 16.
PMID: 12562858 [Free article](#).
- 138 **Interaction of pituitary gland and **bile acid** pool size on the **circadian rhythm** of cholesterol-7alpha-hydroxylase activity of rats.**
Mayer D, Voges A.
Int J Chronobiol. 1974;2(2):145-58.
PMID: 4473034 No abstract available.
- 139 **[Plasma **bile acid** concentration (PGK): fasting values, daily fluctuations and effect of intraduodenal **bile acid** administration in healthy subjects and patients with chronic liver diseases].**
Franz B, Bode JC.
Z Gastroenterol. 1973 Mar;11(2):131-4.
PMID: 4803410 German. No abstract available.
- 140 **Diurnal variation of rat liver enzymes catalyzing **bile acid** conjugation and sulfation.**
Kirkpatrick RB, Robinson SF, Killenberg PG.
Biochim Biophys Acta. 1980 Dec 5;620(3):627-30. doi: 10.1016/0005-2760(80)90154-x.
PMID: 7195283
- 141 **Biliary secretion and motility.**
Gerolami A, Sarles JC.
Int Rev Physiol. 1977;12:223-56.
PMID: 320129 Review. No abstract available.
- 142 **Cholesterol **metabolism**, digestion rates and postprandial changes in serum of swine fed purified diets containing either casein or soybean protein.**
Beynen AC, West CE, Spaaij CJ, Huisman J, Van Leeuwen P, Schutte JB, Hackeng WH.
J Nutr. 1990 May;120(5):422-30. doi: 10.1093/jn/120.5.422.
PMID: 2187960
- 143 **On the **metabolism** of cholesterol and **bile acids** in normo- and hyperlipidaemic subjects.**
Andersén E.
Acta Med Scand Suppl. 1980;643:1-35.
PMID: 6935950 No abstract available.
- 144 ****Bile acid** and cholesterol excretion with carbohydrate-rich diets.**
Whyte HM, Nestel PJ, Pryke ES.
J Lab Clin Med. 1973 Jun;81(6):818-28.
PMID: 4710367 No abstract available.
- 145 **Diurnal variation in the biliary excretion of flomoxef in patients with percutaneous transhepatic biliary drainage.**
Hishikawa S, Kobayashi E, Sugimoto K, Miyata M, Fujimura A.
Br J Clin Pharmacol. 2001 Jul;52(1):65-8. doi: 10.1046/j.0306-5251.2001.01418.x.
PMID: 11453891 [Free PMC article](#). Clinical Trial.
- 146 **Circulating proprotein convertase subtilisin kexin type 9 has a diurnal **rhythm** synchronous with cholesterol synthesis and is reduced by fasting in humans.**
Persson L, Cao G, Ståhle L, Sjöberg BG, Troutt JS, Konrad RJ, Gälman C, Wallén H, Eriksson M, Hafström I, Lind S, Dahlin M, Amark P, Angelin B, Rudling M.

- Arterioscler Thromb Vasc Biol. 2010 Dec;30(12):2666-72. doi: 10.1161/ATVBAHA.110.214130. Epub 2010 Sep 30.
PMID: 20884874 Clinical Trial.
- 147 [\[Significance of intestinal passage time on **bile acid** excretion and lithogenicity of the **bile**\].](#)
Klapdor R, Jenniches J, Humke R.
Verh Dtsch Ges Inn Med. 1975;81:1302-5.
PMID: 1241743 German. No abstract available.
- 148 [24-H study of gastric acidity and **bile acid** concentration after parietal cell vagotomy.](#)
Gotthard R, Ström M, Sjö Dahl R, Walan A.
Scand J Gastroenterol. 1986 May;21(4):503-8. doi: 10.3109/00365528609015170.
PMID: 3726456
- 149 [\[Circadian rhythm of the **bile acid** level in obese patients treated with a zero diet\].](#)
Gołebowska I.
Ann Acad Med Stetin. 1981;27:419-32.
PMID: 7345957 Polish. No abstract available.
- 150 [Orphan receptors chicken ovalbumin upstream promoter transcription factor II \(COUP-TFII\) and retinoid X receptor \(RXR\) activate and bind the rat cholesterol 7alpha-hydroxylase gene \(CYP7A\).](#)
Stroup D, Crestani M, Chiang JY.
J Biol Chem. 1997 Apr 11;272(15):9833-9. doi: 10.1074/jbc.272.15.9833.
PMID: 9092518 [Free article](#).
- 151 [Studies of alteration of hepatic cholesterol **metabolism** in puromycin-induced nephrotic syndrome in rats.](#)
Thabet MA, Challa A, Chan JC, Pandak WM, Heuman DM, Vlahcevic ZR.
Kidney Int. 1993 Oct;44(4):789-94. doi: 10.1038/ki.1993.313.
PMID: 8258956 [Free article](#).
- 152 [The enterohepatic circulation of conjugated **bile acids** in healthy man: quantitative description and functions.](#)
Hofmann AF.
Expos Annu Biochim Med. 1977;33:69-86.
PMID: 330215 Review.
- 153 [Modulation of **circadian** expression of D-site binding protein by the schedule of parenteral nutrition in rat liver.](#)
Ogawa A, Yano M, Tsujinaka T, Morimoto T, Morita S, Taniguchi M, Shiozaki H, Okamoto K, Sato S, Monden M.
Hepatology. 1997 Dec;26(6):1580-6. doi: 10.1053/jhep.1997.v26.pm0009398001.
PMID: 9398001
- 154 [\[Diurnal variations in **bile** secretion in rats. Various possible causes of diurnal variations of cholesterol and **bile acid** synthesis\].](#)
Weis E, Barth C.
Verh Dtsch Ges Inn Med. 1977 Apr 17-21;83:492-3.
PMID: 565571 German. No abstract available.
- 155 [Short-chain fatty **acids** suppress cholesterol synthesis in rat liver and intestine.](#)
Hara H, Haga S, Aoyama Y, Kiriya S.
J Nutr. 1999 May;129(5):942-8. doi: 10.1093/jn/129.5.942.
PMID: 10222383
- 156 [Nonparallel patterns of **circadian** pancreatic and biliary secretions in fasting rats.](#)
Glasbrenner B, Dürrschnabel L, Büchler M, Malfertheiner P.
Int J Pancreatol. 1992 Jun;11(3):169-77. doi: 10.1007/BF02924182.
PMID: 1517656

- [New findings on melatonin absorption and alterations by pharmaceutical excipients using the Ussing chamber technique with mounted rat gastrointestinal segments.](#)
Tran HT, Tran PH, Lee BJ.
Int J Pharm. 2009 Aug 13;378(1-2):9-16. doi: 10.1016/j.ijpharm.2009.05.024. Epub 2009 May 22.
PMID: 19465096
- 158 [The origin of nocturnal intragastric pH rises in healthy subjects.](#)
Verdú EF, Fraser R, Murphy GM, Blum AL, Armstrong D.
Scand J Gastroenterol. 1995 Oct;30(10):935-43. doi: 10.3109/00365529509096335.
PMID: 8545612
- 159 [Comparative studies on the effect of cholesterol feeding on biliary composition.](#)
Ho KJ.
Am J Clin Nutr. 1976 Jul;29(7):698-704. doi: 10.1093/ajcn/29.7.698.
PMID: 937223
- 160 [Multiple, functional DBP sites on the promoter of the cholesterol 7 alpha-hydroxylase P450 gene, CYP7. Proposed role in diurnal regulation of liver gene expression.](#)
Lee YH, Alberta JA, Gonzalez FJ, Waxman DJ.
J Biol Chem. 1994 May 20;269(20):14681-9.
PMID: 8182075 [Free article.](#)
- 161 [Regulation of cholesterol 7 alpha-hydroxylase in the liver. Cloning, sequencing, and regulation of cholesterol 7 alpha-hydroxylase mRNA.](#)
Li YC, Wang DP, Chiang JY.
J Biol Chem. 1990 Jul 15;265(20):12012-9.
PMID: 1694852 [Free article.](#)
- 162 [Changes in biliary lipid secretion during normal development and diurnal cycling in the rat.](#)
Robins SJ, Fasulo JM, Lessard PD, Patton GM.
J Lipid Res. 1993 Aug;34(8):1445-50.
PMID: 8409775 [Free article.](#)
- 163 [Expression of cholesterol 7alpha-hydroxylase and delta\(4\)-3-ketosteroid 5beta-reductase genes in rat pancreatic hepatocyte-like cells.](#)
Ando Y, Ide H, Kosai S, Kamimura R, Maeda Y, Higashi S, Setoguchi T.
J Lipid Res. 1999 Oct;40(10):1793-8.
PMID: 10508198 [Free article.](#)
- 164 [The regulation of 3-hydroxy-3-methylglutaryl coenzyme A reductase in the isolated perfused rat liver.](#)
Cooper AD.
J Clin Invest. 1976 Jun;57(6):1461-70. doi: 10.1172/JCI108416.
PMID: 945302 [Free PMC article.](#)
- 165 [The identification of urinary **bile** alcohols by gas chromatography-mass spectrometry in patients with liver disease and in healthy individuals.](#)
Ludwig-Köhn H, Henning HV, Sziedat A, Matthaei D, Spitteller G, Reiner J, Egger HJ.
Eur J Clin Invest. 1983 Feb;13(1):91-8. doi: 10.1111/j.1365-2362.1983.tb00070.x.
PMID: 6409629
- 166 [\[Cholesterol 7 alpha-hydroxylase\].](#)
Kai M, Yamada M, Nagatomo J, Setoguchi T.
Nihon Rinsho. 2001 Feb;59 Suppl 2:183-92.
PMID: 11351571 Review. Japanese. No abstract available.

- The role of glucocorticoids in the regulation of the diurnal **rhythm** of hepatic beta-hydroxy-beta-methylglutaryl-coenzyme A reductase and cholesterol 7 alpha-hydroxylase.
Mitropoulos KA, Balasubramaniam S.
Biochem J. 1976 Oct 15;160(1):49-55. doi: 10.1042/bj1600049.
PMID: 12745 [Free PMC article](#).
- 168 **Rat liver acyl-coenzyme A:cholesterol acyltransferase: its regulation in vivo and some of its properties in vitro.**
Erickson SK, Shrewsbury MA, Brooks C, Meyer DJ.
J Lipid Res. 1980 Sep;21(7):930-41.
PMID: 7441061 [Free article](#).
- 169 **Within-day variation of lipolytic activity in human milk.**
Lavine ME, Clark RM, Hundrieser KE, Ferris AM.
J Dairy Sci. 1986 Jul;69(7):1784-6. doi: 10.3168/jds.S0022-0302(86)80601-4.
PMID: 3745580 [Free article](#).
- 170 **Circadian rhythm of bile secretion in the rat.**
Balabaud C, Noël M, Béraud C, Dangoumau J.
Experientia. 1975 Nov 15;31(11):1299-301. doi: 10.1007/BF01945791.
PMID: 1239384
- 171 **The hypercholesterolaemic effect of caffeine in rats fed on diets with and without supplementary cholesterol.**
Fears R.
Br J Nutr. 1978 Mar;39(2):363-74. doi: 10.1079/bjn19780046.
PMID: 564707
- 172 **Cholesterol precursors and their diurnal **rhythm** in lipoproteins of patients with jejunio-ileal bypass and ileal dysfunction.**
Miettinen TA.
Metabolism. 1985 May;34(5):425-30. doi: 10.1016/0026-0495(85)90207-0.
PMID: 4039401
- 173 **Ecological and physiological aspects of helminth--host interactions in the mammalian gastrointestinal canal.**
Mettrick DF, Podesta RB.
Adv Parasitol. 1974;12:183-278. doi: 10.1016/s0065-308x(08)60389-9.
PMID: 4615584 Review. No abstract available.
- 174 **[Regulation of cholesterol synthesis].**
Hamprecht B.
Naturwissenschaften. 1969 Aug;56(8):398-405. doi: 10.1007/BF00593615.
PMID: 4903002 Review. German. No abstract available.
- 175 **[Diurnal profile and variations in fasting values of sulfated and nonsulfated **bile acids** in healthy subjects and patients with liver cirrhosis].**
Wildgrube HJ.
Verh Dtsch Ges Inn Med. 1975;81:1300-2.
PMID: 1241742 German. No abstract available.
- 176 **[Adsorption and transport of **bile acids** by the mucosa of the rat intestine].**
Talanina LKh, Rudneva TM, Akhmadullina NN.
Fiziol Zh SSSR Im I M Sechenova. 1986 Apr;72(4):533-7.
PMID: 3709879 Russian.
- 177 **Diurnal variation in cholesterol saturation of gall-bladder **bile**.**
Kupfer RM, Northfield TC.
Gut. 1983 Oct;24(10):950-3. doi: 10.1136/gut.24.10.950.
PMID: 6684613 [Free PMC article](#).

- 178 [The effect of diet on **bile** volume and total **bile** salt secretion in rhesus monkeys.](#)
Campbell CB, Dowling RH.
Gut. 1970 Nov;11(11):979.
PMID: 4992635 No abstract available.
- 179 [Serum **bile acids** in cattle: diurnal variations and variations due to stage of lactation.](#)
Olsson T.
Zentralbl Veterinarmed A. 1988 Jul;35(6):467-72.
PMID: 3138858 No abstract available.
- 180 [Diurnal changes of **bile** lipid concentration in hepatic **bile** of cholecystectomized man.](#)
Gerolami A, Crotte C, Reynier MO, Mule A, Domingo N, Sarles H.
Digestion. 1975;12(4-6):209-20. doi: 10.1159/000197680.
PMID: 1237437
- 181 [\[Chronopharmacological characteristics of the action of dehydrocholic **acid** on **bile** formation\].](#)
Skakun NP, Davydovich OV.
Farmakol Toksikol. 1986 Mar-Apr;49(2):40-5.
PMID: 3709774 Russian.
- 182 [The mechanism of the diurnal variation of hepatic HMG-CoA reductase activity in the rat.](#)
Higgins M, Kawachi T, Rudney H.
Biochem Biophys Res Commun. 1971 Oct 1;45(1):138-44. doi: 10.1016/0006-291x(71)90061-1.
PMID: 5139916 No abstract available.
- 183 [Diurnal variation in biliary lipids and serum VLDL before and during treatment with cloribrate.](#)
Andersén E, Hellström K.
Atherosclerosis. 1982 Jan;41(1):87-97. doi: 10.1016/0021-9150(82)90073-9.
PMID: 7200365
- 184 [Rat hepatic cholesterol 7 alpha-hydroxylase: biochemical properties and comparison to constitutive and xenobiotic-inducible cytochrome P-450 enzymes.](#)
Waxman DJ.
Arch Biochem Biophys. 1986 Jun;247(2):335-45. doi: 10.1016/0003-9861(86)90592-8.
PMID: 3717947
- 185 [Placental protein 10 \(PP10\) in normal pregnancy and cholestasis of pregnancy.](#)
Tiitinen A, Laatikainen T, Rutanen EM, Ranta T, Koistinen R, Bohn H, Seppälä M.
Br J Obstet Gynaecol. 1985 Nov;92(11):1137-40. doi: 10.1111/j.1471-0528.1985.tb03025.x.
PMID: 4063230
- 186 [Mechanism of cholesterol gallstones formation.](#)
Grundy SM.
Semin Liver Dis. 1983 May;3(2):97-111. doi: 10.1055/s-2008-1040676.
PMID: 6683429 No abstract available.
- 187 [Relationship between diurnal variations in biosynthesis of cholesterol and **bile acids**.](#)
Danielsson H.
Steroids. 1972 Jul;20(1):63-72. doi: 10.1016/0039-128x(72)90118-3.
PMID: 5042702 No abstract available.
- 188 [Regulation of cholesterol biosynthesis in rat liver: diurnal changes of activity and influence of **bile acids**.](#)
Back P, Hamprecht B, Lynen F.
Arch Biochem Biophys. 1969 Aug;133(1):11-21. doi: 10.1016/0003-9861(69)90482-2.
PMID: 5810824 No abstract available.

- 189 [Physiological and pharmacological regulation of small intestinal cholesterol synthesis.](#)
Strandberg TE, Tilvis RS.
Gen Pharmacol. 1988;19(3):321-9. doi: 10.1016/0306-3623(88)90024-9.
PMID: 3046994 Review.
- 190 [The use of rhesus monkeys to study biliary secretion with an intact enterohepatic circulation.](#)
Campbell CB, Burgess P, Roberts SA, Dowling RH.
Aust N Z J Med. 1972 Feb;2(1):49-56. doi: 10.1111/j.1445-5994.1972.tb03908.x.
PMID: 4623514 No abstract available.
- 191 [Daily fluctuation of lithogenicity in **bile** in the postoperative period in cholecystectomized patients.](#)
Massarrat S, Kümpel W.
Res Exp Med (Berl). 1975 Dec 30;166(3):221-7. doi: 10.1007/BF01852634.
PMID: 1215667
- 192 [Action of three **bile acids** on hepatic and intestinal cholesterologenesis in the rat.](#)
Reynier MO, Marteau C, Vigne JL, Mule A, Crotte C, Gerolami A.
Lipids. 1977 Mar;12(3):254-7. doi: 10.1007/BF02533342.
PMID: 846313
- 193 [Sex-related differences in diurnal activities and development of hepatic microsomal 3-hydroxy-3-methylglutaryl coenzyme A reductase and cholesterol 7 \$\alpha\$ -hydroxylase.](#)
Carlson SE, Mitchell AD, Goldfarb S.
Biochim Biophys Acta. 1978 Oct 25;531(1):115-24. doi: 10.1016/0005-2760(78)90188-1.
PMID: 568487
- 194 [\[Endocrine factors controlling the **circadian rhythm** of biliary **acid** biosynthesis\].](#)
Gielen J, Robaye B, Van Canfort J, Renson J.
Arch Int Pharmacodyn Ther. 1970 Feb;183(2):403-5.
PMID: 5457472 French. No abstract available.
- 195 [Rat-liver acyl-CoA: cholesterol acyltransferase.](#)
Balasubramaniam S, Mitropoulos KA, Venkatesan S.
Eur J Biochem. 1978 Oct;90(2):377-83. doi: 10.1111/j.1432-1033.1978.tb12614.x.
PMID: 710435 [Free article](#). No abstract available.
- 196 [Effect of ileal resection on **bile salt metabolism** in patients with ileostomy following proctocolectomy.](#)
Percy-Robb IW, Jalan KN, McManus JP, Sircus W.
Clin Sci. 1971 Nov;41(5):371-82. doi: 10.1042/cs0410371.
PMID: 5123225 No abstract available.
- 197 [\[Diurnal changes in biliary cholesterol saturation\].](#)
Begemann F.
Verh Dtsch Ges Inn Med. 1975;81:1295-8.
PMID: 1241740 German. No abstract available.
- 198 [The cloning of cholesterol 7 \$\alpha\$ -hydroxylase: will molecular techniques help us understand the physiology of **bile acid** synthesis?](#)
Bilharty LE.
Hepatology. 1991 Feb;13(2):382-5.
PMID: 1995446 No abstract available.
- 199 [\[**Circadian rhythm** of 7- \$\alpha\$ -cholesterol-hydroxylase in rats\].](#)
Gielen J, van Cantfort J, Robaye B, Renson J.
C R Acad Hebd Seances Acad Sci D. 1969 Aug 11;269(6):731-2.
PMID: 4980872 French. No abstract available.

200 [Diurnal variation in biliary lipid composition. Possible role in cholesterol gallstone formation.](#)

Metzger AL, Adler R, Heymsfield S, Grundy SM.

N Engl J Med. 1973 Feb 15;288(7):333-6. doi: 10.1056/NEJM197302152880702.

PMID: 4682942 No abstract available.

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