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PRIMARY LITERATURE RELEVANT TO BARTH SYNDROME BY TOPIC

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BSF does not endorse any drugs, tests, or treatments that we may report.

ANIMAL MODELS IN BARTH SYNDROME RESEARCH

- NEW** Suzuki-Hatano S, Saha M, Rizzo SA, Witko RL, Gosiker BJ, Ramanathan M, Soustek MS, Jones MD, Kang PB, Byrne BJ, Cade WT, Pacak CA. **AAV-mediated TAZ gene replacement restores mitochondrial and cardioskeletal function in Barth syndrome.** [Hum Gene Ther. 2018 Aug 2. doi: 10.1089/hum.2018.020. \[Epub ahead of print\]* \(PubMed Abstract\)](#)
- NEW** Cole LK, Kim JH, Amoscato AA, Tyurina YY, Bayır H, Karimi B, Siddiqui TJ, Kagan VE, Hatch GM, Kauppinen TM. **Aberrant cardiolipin metabolism is associated with cognitive deficiency and hippocampal alteration in tafazzin knockdown mice.** [Biochim Biophys Acta. 2018 Jul 25. pii: S0925-4439\(18\)30271-0. doi: 10.1016/j.bbadis.2018.07.022. \[Epub ahead of print\]* \(PubMed Abstract\)](#)
- NEW** Johnson JM, Ferrara PJ, Verkerke ARP, Coleman CB, Wentzler EJ, Neuffer PD, Kew KA, de Castro Brás LE, Funai K. **Targeted overexpression of catalase to mitochondria does not prevent cardioskeletal myopathy in Barth syndrome.** [J Mol Cell Cardiol. 2018 Jul 2;121:94-102. doi: 10.1016/j.yjmcc.2018.07.001. \[Epub ahead of print\] \(PubMed Abstract\)](#)
- NEW** Xu G, Liu X, Shu Y, Pillai JA, Xu Y. **A rapid and sensitive LC-MS/MS method for quantitative analysis of cardiolipin (18:2)4 in human leukocytes and mouse skeletal muscles.** [J Pharm Biomed Anal. 2018 Jun 20;158:386-394. doi: 10.1016/j.jpba.2018.06.035. \[Epub ahead of print\] \(PubMed Abstract\)](#)
- NEW** Schafer C, Moore V, Dasgupta N, Javadov S, James JF, Glukhov AI, Strauss AW, Khuchua Z. **The effects of PPAR stimulation on cardiac metabolic pathways in Barth syndrome mice.** [Front Pharmacol. 2018 Apr 11;9:318. doi:10.3389/fphar.2018.00318. eCollection 2018. \(PubMed Abstract\)*](#)
- NEW** Kimura T, Kimura A, Ren M, Berno B, Xu Y, Schlame M, Epand RM. **Substantial decrease in plasmalogen in the heart associated with tafazzin deficiency.** [Biochemistry. 2018 Mar 20. doi: 10.1021/acs.biochem.8b00042. \[Epub ahead of print\] \(PubMed Abstract\) ▼](#)
- NEW** Chao YJ, Wu WH, Balazova M, Wu TY, Lin J, Liu YW, Hsu YH. **Chlorella diet alters mitochondrial cardiolipin contents differentially in organs of Danio rerio analyzed by a lipidomics approach.** [PLoS One. 2018 Mar 1;13\(3\):e0193042. doi:10.1371/journal.pone.0193042. eCollection 2018. \(PubMed - Open Access\)](#)
- Damschroder D, Reynolds C, Wessells R. **Drosophila tafazzin mutants have impaired exercise capacity.** [Physiol Rep. 2018 Feb;6\(3\). doi: 10.14814/phy2.13604. \(PubMed - Open Access\)](#)
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BSF does not endorse any drugs, tests, or treatments that we may report.

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- ^{NEW} Cole LK, Kim JH, Amoscato AA, Tyurina YY, Bayır H, Karimi B, Siddiqui TJ, Kagan VE, Hatch GM, Kauppinen TM. **Aberrant cardiolipin metabolism is associated with cognitive deficiency and hippocampal alteration in tafazzin knockdown mice.** [Biochim Biophys Acta. 2018 Jul 25. pii: S0925-4439\(18\)30271-0. doi: 10.1016/j.bbadis.2018.07.022. \[Epub ahead of print\]](#)*
- ^{NEW} Agarwal P, Cole LK, Chandrakumar A, Hauff KD, Ravandi A, Dolinsky VW, Hatch GM. **Phosphokinome analysis of Barth syndrome lymphoblasts identify novel targets in the pathophysiology of the disease.** [Int J Mol Sci. 2018 Jul 12;19\(7\). pii: E2026. doi: 10.3390/ijms19072026.](#) (PubMed - Open Access)* ▼
- ^{NEW} Johnson JM, Ferrara PJ, Verkerke ARP, Coleman CB, Wentzler EJ, Neufer PD, Kew KA, de Castro Brás LE, Funai K. **Targeted overexpression of catalase to mitochondria does not prevent cardioskeletal myopathy in Barth syndrome.** [J Mol Cell Cardiol. 2018 Jul 2;121:94-102. doi: 10.1016/j.yjmcc.2018.07.001. \[Epub ahead of print\]](#)
- ^{NEW} Basu Ball W, Baker CD, Neff JK, Apfel GL, Lagerborg KA, Žun G, Petrovič U, Jain M, Gohil VM. **Ethanolamine ameliorates mitochondrial dysfunction in cardiolipin-deficient yeast cells.** [J Biol Chem. 2018 Jun 4. pii:jbc.RA118.004014. doi:10.1074/jbc.RA118.004014. \[Epub ahead of print\]](#) (PubMed - Open Access)

- NEW** Sudrié-Arnaud B, Marguet F, Patrier S, Martinovic J, Louillet F, Broux F, Charbonnier F, Dranguet H, Coutant S, Vezain M, Lanos R, Tebani A, Fuller M, Lamari F, Chambon P, Brehin AC, Trestard L, Tournier I, Marret S, Verspyck E, Laquerrière A, Bekri S. **Metabolic causes of nonimmune hydrops fetalis: A next-generation sequencing panel as a first-line investigation.** [Clin Chim Acta. 2018 Jun;481:1-8. doi: 10.1016/j.cca.2018.02.023. Epub 2018 Feb 22. \(PubMed Abstract\)](#)
- NEW** Ban T, Kohno H, Ishihara T, Ishihara N. **Relationship between OPA1 and cardiolipin in mitochondrial inner-membrane fusion.** [Biochim Biophys Acta. 2018 May 28. pii: S0005-2728\(18\)30132-4. doi: 10.1016/j.bbabbio.2018.05.016. \[Epub ahead of print\] \(PubMed Abstract\)](#)
- NEW** Cade WT, Bohnert KL, Reeds DN, Peterson LR, Bittel AJ, Bashir A, Byrne BJ, Taylor CL. **Peak oxygen uptake (VO₂peak) across childhood, adolescence and young adulthood in Barth syndrome: Data from cross-sectional and longitudinal studies.** [PLoS One. 2018 May 24;13\(5\):e0197776. doi: 10.1371/journal.pone.0197776. eCollection 2018 \(PubMed - Open Access\)* ▼](#)
- NEW** Boyd KJ, Alder NN, May ER. **Molecular dynamics analysis of cardiolipin and monolysocardiolipin on bilayer properties.** [Biophys J. 2018 May 8;114\(9\):2116-2127. doi:10.1016/j.bpj.2018.04.001. \(PubMed Abstract\)](#)
- NEW** Lou W, Reynolds CA, Li Y, Liu J, Hüttemann M, Schlame M, Stevenson D, Strathdee D, Greenberg ML. **Loss of tafazzin results in decreased myoblast differentiation in C2C12 cells: A myoblast model of Barth syndrome and cardiolipin deficiency.** [Biochim Biophys Acta. 2018 Apr 22. pii: S1388-1981\(18\)30080-5. doi:10.1016/j.bbalip.2018.04.015. \[Epub ahead of print\] \(PubMed Abstract\)*](#)
- NEW** Schafer C, Moore V, Dasgupta N, Javadov S, James JF, Glukhov AI, Strauss AW, Khuchua Z. **The effects of PPAR stimulation on cardiac metabolic pathways in Barth syndrome mice.** [Front Pharmacol. 2018 Apr 11;9:318. doi:10.3389/fphar.2018.00318. eCollection 2018. \(PubMed Abstract\)*](#)
- NEW** Oemer G, Lackner K, Muigg K, Krumschnabel G, Watschinger K, Sailer S, Lindner H, Gnaiger E, Wortmann SB, Werner ER, Zschocke J, Keller MA. **Molecular structural diversity of mitochondrial cardiolipins.** [Proc Natl Acad Sci U S A. 2018 Apr 4. pii: 201719407. doi: 10.1073/pnas.1719407115. \[Epub ahead of print\] \(PubMed Abstract\)](#)
- NEW** Mejia EM, Zegallai H, Bouchard ED, Banerji V, Ravandi A, Hatch GM. **Expression of human monolysocardiolipin acyltransferase-1 improves mitochondrial function in Barth syndrome lymphoblasts.** [J Biol Chem. 2018 Mar 21. pii:jbc.RA117.001024. doi:10.1074/jbc.RA117.001024. \[Epub ahead of print\] \(PubMed - Open Access\)* ▼](#)
- NEW** Chen WW, Chao YJ, Chang WH, Chan JF, Hsu YHH. **Phosphatidylglycerol incorporates into cardiolipin to improve mitochondrial activity and inhibits inflammation.** [Sci Rep. 2018 Mar 20;8\(1\):4919. doi: 10.1038/s41598-018-23190-z. \(PubMed Abstract\)](#)

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- ^{NEW} Tsujii N, Hayashi T, Hayashi T, Kimura A, Nishikubo T. **Barth syndrome associated with triple mutation.** *Pediatr Int*. 2018 Mar 6. doi:10.1111/ped.13517. [Epub ahead of print]. (PubMed - no abstract available)
- ^{NEW} Chao YJ, Wu WH, Balazova M, Wu TY, Lin J, Liu YW, Hsu YH. **Chlorella diet alters mitochondrial cardiolipin contents differentially in organs of *Danio rerio* analyzed by a lipidomics approach.** *PLoS One*. 2018 Mar 1;13(3):e0193042. doi:10.1371/journal.pone.0193042. eCollection 2018. (PubMed - Open Access)
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BSF does not endorse any drugs, tests, or treatments that we may report.

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BSF does not endorse any drugs, tests, or treatments that we may report.

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BSF does not endorse any drugs, tests, or treatments that we may report.

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BSF does not endorse any drugs, tests, or treatments that we may report.

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BSF does not endorse any drugs, tests, or treatments that we may report.

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BSF does not endorse any drugs, tests, or treatments that we may report.

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