

## Succinate-Coa Ligases

[View the current Succinate-Coa Ligases InDepth page on BioPortfolio.com](http://www.bioportfolio.com/indepth/Succinate-Coa_Ligases.html) (PDF)  
([http://www.bioportfolio.com/indepth/Succinate-Coa\\_Ligases.html](http://www.bioportfolio.com/indepth/Succinate-Coa_Ligases.html)) - Regularly Updated.

### Recent Publications on Succinate-Coa Ligases:



- [Phosphoenolpyruvate cycling via mitochondrial phosphoenolpyruvate carboxykinase links anaplerosis and mitochondrial GTP with insulin secretion.](#)  
*Pancreatic beta-cells couple the oxidation of glucose to the secretion of...* 7th November, 2009  
Department of Internal Medicine, Yale University School of Medicine, New- J Biol Chem. 2009 Sep 25;284(39):26578-90. Epub 2009 Jul 27. ([DOI Direct Link](#))
- [Succinyl-CoA synthetase is a phosphate target for the activation of mitochondrial metabolism.](#)  
*Succinyl-CoA synthetase (SCS) is the only mitochondrial enzyme capable of...* 3rd November, 2009  
Laboratory of Cardiac Energetics, National Heart, Lung, and Blood- Biochemistry. 2009 Aug 4;48(30):7140-9. ([DOI Direct Link](#))
- [Bacillus anthracis o-succinylbenzoyl-CoA synthetase: reaction kinetics and a novel inhibitor mimicking its reaction intermediate.](#)  
*o-Succinylbenzoyl-CoA (OSB-CoA) synthetase (EC 6.2.1.26) catalyzes the...* 17th March, 2009  
Center for Pharmaceutical Biotechnology, Department of Medicinal Chemistry- Biochemistry. 2008 Nov 25;47(47):12434-47. ([DOI Direct Link](#))
- [Localisation of gluconeogenesis and tricarboxylic acid \(TCA\)-cycle enzymes and first functional analysis of the TCA cycle in Toxoplasma gondii.](#)  
*The apicomplexan parasite Toxoplasma gondii displays some unusual...* 8th January, 2009  
Institute of Medical Microbiology, University of Gottingen, Kreuzbergring- Int J Parasitol. 2008 Aug;38(10):1121-32. Epub 2008 Feb 13. ([DOI Direct Link](#))
- [Protein import into hydrogenosomes of Trichomonas vaginalis involves both N-terminal and internal targeting signals: a case study of thioredoxin reductases.](#)  
*The parabasal flagellate Trichomonas vaginalis harbors...* 13th November, 2008  
Institute of Botany III, Heinrich-Heine University of Duesseldorf,- Eukaryot Cell. 2008 Oct;7(10):1750-7. Epub 2008 Aug 1. ([DOI Direct Link](#))
- [Biochemical characterization of a mitochondrial-like organelle from Blastocystis sp. subtype 7.](#)  
*A mitochondrion-like organelle (MLO) was isolated from isotonic...* 10th October, 2008  
Haskins Laboratories, Pace University, New York, NY 10038, USA.- Microbiology. 2008 Sep;154(Pt 9):2757-66. ([DOI Direct Link](#))
- [Causes of and diagnostic approach to methylmalonic acidurias.](#)  
*Several mutant genetic classes that cause isolated methylmalonic acidurias...* 10th September, 2008  
Metabolic Unit, University Children's Hospital, Roemergasse 8, Basel,- J Inherit Metab Dis. 2008 Jun;31(3):350-60. Epub 2008 Jun 19. ([DOI Direct Link](#))
- [Drosophila ortholog of succinyl-CoA synthetase {beta} subunit: a novel modulator of Drosophila KCNQ](#)

[channels.](#)

*Voltage-gated KCNQ potassium channels are responsible for slowly...*23rd July, 2008

Department of Neuroscience, School of Medicine, University of- J Neurophysiol. 2008

May;99(5):2736-40. Epub 2008 Apr 2. ([DOI Direct Link](#))

- [Localization and nucleotide specificity of Blastocystis succinyl-CoA synthetase.](#)

*The anaerobic lifestyle of the intestinal parasite Blastocystis raises...*22nd July, 2008

School of Biological and Chemical Sciences, Queen Mary, University of- Mol Microbiol. 2008

Jun;68(6):1395-405. Epub 2008 Apr 29. ([DOI Direct Link](#))

- [First molecular characterisation of hydrogenosomes in the protozoan parasite Histomonas meleagridis.](#)

*Histomonas meleagridis is a trichomonad species that undergoes a...*27th June, 2008

Equipe Parasitologie Moleculaire et Cellulaire, LBP, UMR CNRS 6023,- Int J Parasitol. 2008

Feb;38(2):177-90. Epub 2007 Jul 26. ([DOI Direct Link](#))

- [The AAE14 gene encodes the Arabidopsis o-succinylbenzoyl-CoA ligase that is essential for phyloquinone synthesis and photosystem-I function.](#)

*Phylloquinone is the one-electron carrier at the A(1) site of photosystem...*23rd May, 2008

Institute of Biological Chemistry, Washington State University, Pullman,- Plant J. 2008

Apr;54(2):272-83. Epub 2008 Jan 16. ([DOI Direct Link](#))

- [Histidine phosphorylation in biological systems.](#)

*Histidine phosphorylation is important in prokaryotes and occurs to the...*28th March, 2008

Department of Biochemistry, University of Saskatchewan, Saskatoon,- Biochim Biophys Acta. 2008

Jan;1784(1):100-5. Epub 2007 Jul 24. ([DOI Direct Link](#))

- [Reduced expression of succinyl-coenzyme A ligase can be compensated for by up-regulation of the gamma-aminobutyrate shunt in illuminated tomato leaves.](#)

*Increasing experimental evidence suggests that the tricarboxylic acid...*15th January, 2008

Department Willmitzer, Max-Planck-Institut fur Molekulare- Plant Physiol. 2007 Nov;145(3):626-39.

Epub 2007 Sep 20. ([DOI Direct Link](#))

- [Deficiency of the alpha subunit of succinate-coenzyme A ligase causes fatal infantile lactic acidosis with mitochondrial DNA depletion.](#)

*Fatal infantile lactic acidosis is a severe metabolic disorder...*22nd September, 2007

Department of Clinical Genetics, National University Hospital- Am J Hum Genet. 2007 Aug;81(2):383-7.

Epub 2007 Jun 4. ([DOI Direct Link](#))

- [Participation of Cys123alpha of Escherichia coli succinyl-CoA synthetase in catalysis.](#)

*Succinyl-CoA synthetase has a highly conserved cysteine residue,...*20th September, 2007

Department of Biochemistry, University of Western Ontario, London,- Acta Crystallogr D Biol

Crystallogr. 2007 Aug;63(Pt 8):876-84. Epub 2007 ([DOI Direct Link](#))

\*\*\*

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Stafford House, 10 Prince of Wales Road,

