

List of Titles

Reed LJ, DeBusk BG, Gunsalus IC, Hornberger CS Jr. Crystalline alpha-lipoic acid; a catalytic agent associated with pyruvate dehydrogenase. *Science*. 1951 Jul 27;114(2952):93-4. PMID: 1485491

[Abstract](#)

Calvin M, Barltrop JA. A possible quantum conversion act of photosynthesis. *JACS Vol 74 (23)6153-4 (1952)* DOI: 10.1021/ja01143a544

[Abstract](#)

Strauss BS. A hypothetical role for 6, 8 thioctic acid (lipoic acid) in vision. *Science*. 1953 Sep 18; 118(3064):330-1. PMID: 13089700

[Abstract](#)

Reed LJ, Gunsalus IC, Schnakenberg G. H. F, Soper QF, Boaz HE, Kern SF, Parke TV. Isolation, characterization and structure of α -Lipoic Acid. *J. Am. Chem. Soc.* 1953, 75 (6), pp 1267–1270 DOI: 10.1021/ja01102a001

[Abstract](#)

Seaman GR. Role of thioctic acid in the transfer of acyl groups. *Proc Soc Exp Biol Med*. 1953 Feb;82(2):184-9. PMID: 13037840

Abstract

Mardonnnes J, Segovia N, Hederra A, Alcaino F. Influence of sulfasuxidine on the effect of alpha lipoic or thioctic acid on the voluntary alcohol intake of rats depleted of factor N1. *Acta Physiol Lat Am*. 1953;3(2-3):140-3. PMID: 13138254

Abstract

Mardonnnes J, Segovia N, Alcaino F, Hederra A. Effect of synthetic thioctic or alpha lipoic acid on the voluntary alcohol intake of rats. *Science*. 1954 May 21;119(3099):735-6. PMID: 13168361

[Abstract](#)

Paysant P. Données récentes sur l'acide lipoique. *Ann Biol Clin*. 1954 Oct-Dec;12(10-12):569-76. PMID: 14350309

Abstract

Paysant P. Recent data concerning lipoic acid. *Ann Biol Clin.* 1954 Oct-Dec;12(10-12):569-76. PMID: 14350309

Abstract

Patterson EL, Pierce JV, Stokstad ELR, Hoffmann CE, Brockman JA, Day FP, Macchi ME, Jukes TH. The Isolation of Protogen. *J. Am. Chem. Soc.* 1954, 76 (7), pp 1823–1826. DOI: 10.1021/ja01636a026

[Abstract](#)

The following ten papers published in *Federation Proceedings* (the journal of the Federation of American Societies for Experimental Biology) are the presentations from the first thioctic acid conference (April 14, 1954 Atlantic City, NJ,) entitled “Symposium on the Metabolic Role of Lipoic Acid (Thioctic Acid)” which focused on the endogenous mechanisms and functions of enzyme-bound R-(+)-lipoic acid and its potential inhibitors (note: it was known by 1952 that the natural form of lipoic acid was dextrorotary. The absolute configuration was predicted in 1955 but unequivocal proof the (+)-isomer contained the R-configuration (using Cahn-Ingold-Prelog priority rules) was not obtained until 1983.

[Kidder GW. Symposium on metabolic role of lipoic acid \(thioctic acid; chairman's introduction\). *Fed Proc.* 1954 Sep;13\(3\):695-6. PMID: 13210460](#)

Abstract

Calvin M. Chemical and photochemical reactions of thioctic acid and related disulfides. *Fed Proc.* 1954 Sep;13(3):697-711. PMID: 13210461

Abstract

[Horecker BL. Discussion: chemical and photochemical reactions of thioctic acid related disulfides. *Fed Proc.* 1954 Sep;13\(3\):711-2. PMID: 13210462](#)

Abstract

[Stokstad ELR. Discussion: analogs and derivatives of thioctic acid. *Fed Proc.* 1954 Sep;13\(3\): 712-4.](#)

Abstract

[Gunsalus IC. Oxidative and transfer reactions of lipoic acid. *Fed Proc.* 1954 Sep;13\(3\):715-22. PMID: 13210464](#)

Abstract

[Reed LJ, DeBusk BG. Enzymatic synthesis of a lipoic acid coenzyme. Fed Proc. 1954 Sep;13\(3\):723-31. PMID: 13210465](#)

Abstract

[Seaman GR. Discussion: removal of thioctic acid from enzyme proteins. Fed Proc. 1954 Sep;13\(3\):731-3. PMID: 13210466](#)

Abstract

[Hager LP, Geller DM, Lipmann F. Flavoprotein-catalyzed pyruvate oxidation in Lactobacillus delbrueckii. Fed Proc. 1954 Sep;13\(3\):734-8. PMID: 13210467](#)

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[O'Kane DJ. Non-lipoic pyruvate systems: acetate formation by Proteus and acetyl phosphate formation by Clostridium. Fed Proc. 1954 Sep;13\(3\):739-41. PMID: 13210468](#)

Abstract

[Barker HA. Role of lipoic acid in Butyribacterium rettgeri. Fed Proc. 1954 Sep;13\(3\):742-3. PMID: 13210469](#)

Abstract

Fuller RC, Grisebach H, Calvin M. The metabolism of thiotic acid in algae. J. Am. Chem. Soc. 1955, 77 (9), p 2659. DOI: 10.1021/ja01614a104

Abstract

[Rausch F. Klinische Beobachtungen mit Thioctinsäure \(Liponsäure\) Arzneimittelforschung. 1955 Jan;5\(1\):32-4. PMID: 14351072](#)

Abstract

Rausch F. Clinical observations on thioctic acid (lipoic acid); preliminary report. Arzneimittelforschung. 1955 Jan;5(1):32-4. PMID: 14351072

Abstract

Fischer GL. Thioctic acid content and pyruvate oxidation in ethionine-damaged rat livers. Proc Soc Exp Biol Med. 1955 Oct;90(1):153-8. PMID: 13273382

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Boni P, Reduzzi F, Bile G, Galloro V. L'acido tioctico. Osservazioni farmacologiche e cliniche. Clin Terap (Roma) 9, 129 (1955)

Abstract

Boni P, Reduzzi F, Bile G, Galloro V. Thioctic acid. Clinical and pharmacological observations. Clin Terap. 9, 129 (1955).

Abstract

Bornstein J, Hartman BD. Effect of thioctic acid on glucose oxidation by liver slices. Nature. 1955 Oct 22;176(4486):788-9. PMID: 13265833

[Abstract](#)

The following paper is an overview of the International Symposium on Thioctic Acid, followed by the presentations. We are still looking for photos, personal notes and the list of attendees as well as the complete manuscript of the *Atti* or Acts of the symposium, published in 1956. This conference was a primary reference on thioctic acid for at least ten years following and set the stage for the intensive research effort into nutritional and clinical uses of thioctic acid and its commercial development.

[Carlson DA. The International Symposium on Thioctic Acid, University of Naples, November 28–29 \(1955\). Simposio Internazionale sull'acido tioctico, Università di Napoli.](#)

Abstract

Professor Melvin Calvin (University of California, Berkeley). Title: The (Hypothetical) Role of Thioctic Acid in Photosynthesis (pp.17-36) International Symposium on Thioctic Acid.

[Abstract](#)

Professor Ernest A. Braude (Imperial College of Science & Technology, London). Title: New Synthesis of Thioctic Acid (pp.37-43) International Symposium on Thioctic Acid.

[Abstract](#)

Professor Leonardo Donatelli. Pharmacology of Thioctic Acid [Orientamenti Sulla Farmacologia dell'acido tioctico] pp. 45-143: International Symposium on Thioctic Acid, University of Naples November 28–29 (1955). Translation by Professor Giovanna Ferro-Luzzi Ames and David A. Carlson.

[Abstract](#)

Dr Paolo Larizza (Director of the Institute of Pathology, Specialized Medicine and Clinical methods, University of Cagliari). Title: Physiopathologic problems of thioctic acid. [Problemi di fisiopatologia dell'acido tioctico.] (pp. 145-176) International Symposium on Thioctic Acid.

[Abstract](#)

Franz Rausch, M.D. (Bad Rothefelde). Title: Clinical Activity of Thioctic Acid. [Klinische Aktivitat der Thioctinsäure] (pp.177-196) International Symposium on Thioctic Acid, University of Naples.

[Abstract](#)

Dr A. Colarusso (Ospedale A. Cardarelli, Naples). Clinical activity of thioctic acid. [Osservazioni cliniche sull'acido Tioctico] (197-220) International Symposium on Thioctic Acid.

[Abstract](#)

Dr Umberto Butturini (University of Bologna). Preliminary clinical and experimental observations on thioctic acid. [Prime osservazioni cliniche e sperimentali sull'acido tioctico] (pp. 221-244) International Symposium on Thioctic Acid,

[Abstract](#)

V.Cicala, A. Jacobelli & Galloro (University of Naples). Histology of rat liver following carbon tetrachloride intoxication and treatment with thioctic acid. International Symposium on Thioctic Acid.

Abstract

V.Cicala, A. Jacobelli & V. Galloro (University of Naples). Action of thioctic acid in experimental intoxication with arsenite. International Symposium on Thioctic Acid.

Abstract

[Dr Paolo Introzzi \(University of Pavia\) Clinical & experimental research on thioctic acid. \[Ricerche cliniche e sperimentali sull'acido tioctico\] \(pp.263-272\) International Symposium on Thioctic Acid.](#)

[Abstract](#)

G. Bile & V. Galloro (Naples) In vitro activity of thioctic acid on the agglutination of anti-body anti-Rh0 (anti-D) International Symposium on Thioctic Acid.

Abstract

No Author Reported. L'acido tioctico. Osservazioni farmacologiche e cliniche. Minerva farmaceutica. Jan(1956); 5(1) 9.

Abstract

No Author Reported. Thioctic acid. Pharmacological and clinical observations. Minerva farmaceutica. Jan(1956); 5(1) 9.

Abstract

Butturini U. Osservazioni cliniche e sperimentale sull'acido tioctico. Giorn Clin Med. 1955 Dec;36(12):1675-713. PMID: 13305833

Abstract

Butturini U. Clinical and experimental aspects of thioctic acid. Giorn Clin Med. 1955 Dec;36(12):1675-713. PMID: 13305833

Abstract

Nakano I and Sano M. Studies on Lipoic Acid and its related compounds. (I). Synthesis of DL-Lipoic Acid. Yakugaku Zasshi Vol 75, 1296-98 (1955). Translation by Shiyo Hayashi.

Abstract

[Cutolo E, Reduzzi F. L'acido tioctico inibisce L'insorgere del diabete da allossana nel ratto. Boll Soc Ital Biol Sper. 1955 Nov-Dec;31\(11-12\):1532-3. PMID: 13329205](#)

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Cutolo E, Reduzzi F. Thioctic acid inhibition of development of alloxan diabetes in rats. Boll Soc Ital Biol Sper. 1955 Nov-Dec;31(11-12):1532-3. PMID: 13329205

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[Cutolo E, Reduzzi F. Aumentata tolleranza al potassio per azione dell'acido tiottico. Boll Soc Ital Biol Sper. 1955 Nov-Dec;31\(11-12\):1600-1. PMID: 13329235](#)

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Cutolo E, Reduzzi F. Augmented tolerance to potassium due to the effects of thioctic acid. Boll Soc Ital Biol Sper. 1955 Nov-Dec;31(11-12):1600-1 PMID: 13329235

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[Marino A. Raffronto tra le azioni dei lisati di organo e quella dell'acido tiottico sul cuore isolato di rana. Boll Soc Ital Biol Sper. 1955 Nov-Dec;31\(11-12\):1601-4. PMID: 13329236](#)

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Marino A. Comparison between the effects of organic lysates and that of thioctic acid on the isolated frog heart. Boll Soc Ital Biol Sper. 1955 Nov-Dec;31(11-12):1601-4. PMID: 13329236

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[Boissier JR, Miquel JF. Revue de Biochemie: Etude chimique des acides lipoïques \(Acides thioctiques\). Ann Pharm Fr. 1955 Feb;13\(2\):143-9. PMID: 14377165](#)

Abstract

Boissier JR, Miquel JF. Chemical study of lipoic acids (thioctic acids). Ann Pharm Fr. 1955 Feb;13(2):143-9. PMID: 14377165

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Stokstad EL, Patterson EL, Albrecht AM, White-Stevens RH. Role of thioctic acid in chick nutrition. Proc Soc Exp Biol Med. 1956 May;92(1):88-91. PMID:13336082

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Patterson EL, Broquist HP, Von Saltza MH, Alrecht A, Stokstad EL, Jukes TH. Observations on the urinary excretion of thiotic acid. Am J Clin Nutr. 1956 May-Jun;4(3):269-74. PMID: 13313467

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[Schirosa G, Pagliaro L, Furitano G. Sul meccanismo dell'azione ipoglicemizzante dell'acido tioctico. Boll Soc Ital Biol Sper. \(1956\) Jul-Aug; 32\(7-8\):725-7. PMID: 13404118](#)

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[Pagliaro L, Balsano F. Infuenza dell'acido tioctico, sulla galattosuris provocata. Boll Soc Ital Biol Sper. 1956 Jul-Aug;32\(7-8\):727-9. PMID: 13404119](#)

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Pagliaro L, Balsano F. Effect of thioctic acid on induced galactosuria. Boll Soc Ital Biol Sper. 1956 Jul-Aug;32(7-8):727-9. PMID: 13404119

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Pomponio N. L'acido tioctico nella terapia dell'epatite infettiva nell'infanzia. Minerva Med. 1956 Dec 5;47(97):1818-22. PMID: 13399887

Abstract

Pomponio N. Thioctic acid in therapy of infectious hepatitis in children. Minerva Med. 1956 Dec 5;47(97):1818-22. PMID: 13399887

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Mainoli S, Piccinelli O. Ricerche sperimentale e cliniche sull'acido tioctico. Arch Maragliano Patol Clin. 1956 Dec;12(6):1009-29. PMID: 13412286

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Mainoli S, Piccinelli O. Experimental and clinical research on thioctic acid. Arch Maragliano Patol Clin. 1956 Dec;12(6):1009-29. PMID: 13412286

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Vercillo L. Sull' azione diuretica dell'acido tioctico nelle cardiopatie scom-pensante. Arch Maragliano Patol Clin. 1956 Dec;12(6):1001-8. PMID: 13412285

[Abstract](#)

Vercillo L. Diuretic action of thioctic acid in cardiac decompensation. Arch Maragliano Patol Clin. 1956 Dec;12(6):1001-8. PMID: 13412285

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Cavina G, Cingolani E, Gaudiano A. Chemical determination of thioctic acid. Boll Soc Ital Biol Sper. 1956 Sep;32(9):1180-2. PMID: 13412958.

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Liebecq C. Thioctic acid (lipoic acid) in biological processes. Rev Med Liege. 1956 Sep 1;11(17):477-87. PMID: 13380021

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[Larizza P. L'acido tioctico: spunti teorici e prospettive pratiche. Minerva Med. 1956 Mar 3;47\(18\):581-7. PMID: 13333965.](#)

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Larizza P. Thioctic acid; theoretical and practical possibilities. Minerva Med. 1956 Mar 3;47(18):581-7. PMID: 13333965.

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[Furitano G, Pagliaro L. La Sopavvivenza di conigli trattati con acido tioctico dopo legatura del coledoco. Boll Soc Ital Biol Sper. 1956 Jan-Feb;32\(1-2\):55-7. PMID: 13374017.](#)

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Furitano G, Pagliaro L. Survival of guinea pigs treated with thioctic acid after ligature of the common bile duct. Boll Soc Ital Biol Sper. 1956 Jan-Feb;32(1-2):55-7. PMID: 13374017. Note: PubMed translated "conigli" as guinea pigs. It should read "rabbits".

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[Pagliaro L, Furitano G. L'azione dell'acido tioctico sul consumo di ossigeno. Boll Soc Ital Biol Sper. 1956 Jan-Feb;32\(1-2\):54-5. PMID: 13374016.](#)

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[Marino A, Reduzzi F. Acido tioctico ed intossicazioni acute da arsenicali organici ed inorganici. Boll Soc Ital Biol Sper. 1956 Jun;32\(6\):368-70. PMID: 13374086](#)

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[Cutolo E, Reduzzi F. L'azione protettiva dell'acido tioctico nell'intossicazione da cianuro di potassio. *Experientia.* 1956 Jun 15;12\(6\):214-5. PMID: 13330796](#)

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Cutolo E, Reduzzi F. Protective action of thioctic acid in potassium cyanide poisoning. *Experientia.* 1956 Jun 15;12(6):214-5. PMID: 13330796

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Lachello L, Barbagallo A. Preliminari ricerche sull'attività cardiaca di alte dosi di acido tioctico. *Boll Soc Ital Biol Sper.* 1956 Sep;32(9):918-20. PMID: 13412853

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Marino A. Azione protettiva esplicata dall'acido tioctico nell'intossicazione da streptomina. *Italian. Archivio italiano di scienze farmacologiche.* 1956 Jul; 6(3):244-6. PMID: 13382475

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Marino A. Demonstrated protective effect of thioctic acid in streptomycin intoxication. *Arch Ital Sci Farmacol.* 1956 Jul;6(3):244-6. PMID: 13382475

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Marino A. L'Ac. tioctico protegge il *Mus musculus* dalla intossicazione streptomycinica. *Archivio di fisiologia e delle malattie dell'apparato respiratorio.* 1956 Oct;11(10):805-17. PMID: 13412371

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Bianchi A, Matturo F, Reduzzi F. Acido tioctico e narcosi barbiturica. *Giornale italiano di chirurgia.* 1956 May; 12(5): 252-62. PMID: 13366008

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[Supplee WC, Combs GF, Romoser GL. Failure to obtain growth responses with thiocctic acid in chicks from different sources. *Arch Biochem Biophys.*\(1956 \) Mar;61\(1\): 140-3. PMID: 13292949](#)

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Grisebach H. Chemie und Biochemie der α -Liponsäure. *Angewandte Chemie*, Volume 68 Issue 17-18, Pages 554 - 559 (1956)

Abstract

[Rausch F. Die Behandlung des Lieberkomas und präkomas mit thioctsäure. *Klin Wochenschr.* 1956 Jul 15;34\(27-28\):737-42. PMID: 13347051](#)

Abstract

Rausch F. Treatment of hepatic coma and precoma with thioctic acid. *Klin Wochenschr.* 1956 Jul 15;34(27-28):737-42. PMID: 13347051

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Bansi HW, Bloedorn H, Redetzki H. Effect of thioctic acid on blood levels of pyruvic acid and alpha-ketoglutaric acid in liver diseases: enzymatic analysis of pyruvic acid and alpha-ketoglutaric acid in a determining preparation. *Klin Wochenschr.* 1956 Aug 15;34(31-32):845-6. PMID: 13368405

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[Cutolo E. The interaction of 6, 8-dithioctanoic acid with catalase. *Italian Journal of Biochem* 6:181-186 \(1957\).](#)

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[Morgano G, Abbona C, Sadowski LF, Alzetta A. Sui rapporti fra acido tioctico se ghiandole endocrine. \(Nota I\). Influenza del trattamento con acido tioctico sulla morfologia della tiroide. Arch Maragliano Patol Clin. 1957 Dec;13\(6\):1507-12. PMID: 13534987](#)

[Abstract](#)

Morgano G, Abbona C, Sadowski LF, Alzetta A. Relations between thioctic acid and endocrine glands. I. Effects of thioctic acid treatment on thyroid morphology. Arch Maragliano Patol Clin. 1957 Dec;13(6):1507-12. PMID: 13534987

[Abstract](#)

[Morgano G, Abbona C, Alzetta A, Sadowski LF. Sui rapporti fra acido tioctico se ghiandole endocrine. \(Nota II\) Influenza del trattamento con acido tioctico sulla morfologia del testicolo e dell'ovaio. Arch Maragliano Patol Clin. 1957 Dec;13\(6\):1513-8. PMID: 13534988](#)

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[Morgano G, Abbona C, Sadowski LF, Alzetta A. Sui rapporti fra acido tioctico se ghiandole endocrine. \(Nota III\). Influenza dell'acido tioctico sulla morfologia del surrende e dell'ipofisi. Arch Maragliano Patol Clin. 1957 Dec;13\(6\):1519-22. PMID: 13534989](#)

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Abstract

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Guia E. Thioctic acid inhibition of the *in vitro* growth of lupine root. Boll Soc Ital Biol Sper. 1958 Feb 15;34(3):98-100. PMID: 13522971

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[Kofler E, Baldini G, Baldoli E. Prima dati sull'azione protettiva dell'acido tioctico di fronte ai raggi Roentgen. Boll Soc Ital Biol Sper. 1957 Apr;33\(4\):408-9. PMID: 13460080](#)

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Kofler E, Baldini G, Baldoli E. Initial data on the protective effect of thioctic acid in x-irradiation. Boll Soc Ital Biol Sper. 1957 Apr;33(4):408-9. PMID: 13460080

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[Consolo F, Gallone P, Janni A. Acido tioctico e metabolismo lipidico \(I\) Boll Soc Ital Biol Sper. 1957 Aug-Sep;33\(8-9\):1318-21. PMID: 13522925](#)

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Consolo F, Gallone P, Janni A. Thioctic acid & lipid metabolism. (I). Boll Soc Ital Biol Sper. 1957 Aug-Sep;33(8-9):1318-21. PMID: 13522925

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[Consolo F, Gallone P, Janni A. Acido tioctico e metabolismo lipidico \(II\) Boll Soc Ital Biol Sper. 1957 Aug-Sep;33\(8-9\):1321-5. PMID: 13522926](#)

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[Consolo F, Gallone P, Janni A. Acido tioctico e metabolismo lipidico.\(III\). Boll Soc Ital Biol Sper. 1957 Aug-Sep;33\(8-9\):1325-8. PMID: 13522927](#)

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