



LICENCIATURA EN NUTRICIÓN

BIOQUÍMICA

DIAGRAMA: VÍA DE LA PENTOSA FOSFATO Y OTRAS VÍAS DE METABOLISMO
DE HEXOSAS, EL CICLO DEL ÁCIDO CÍTRICO: EL CATABOLISMO DEL ACETIL-COA,
LA CADENA RESPIRATORIA Y FOSFORILACIÓN OXIDATIVA.

DOCENTE: QFB. YENI KAREN CANALES HERNÁNDEZ

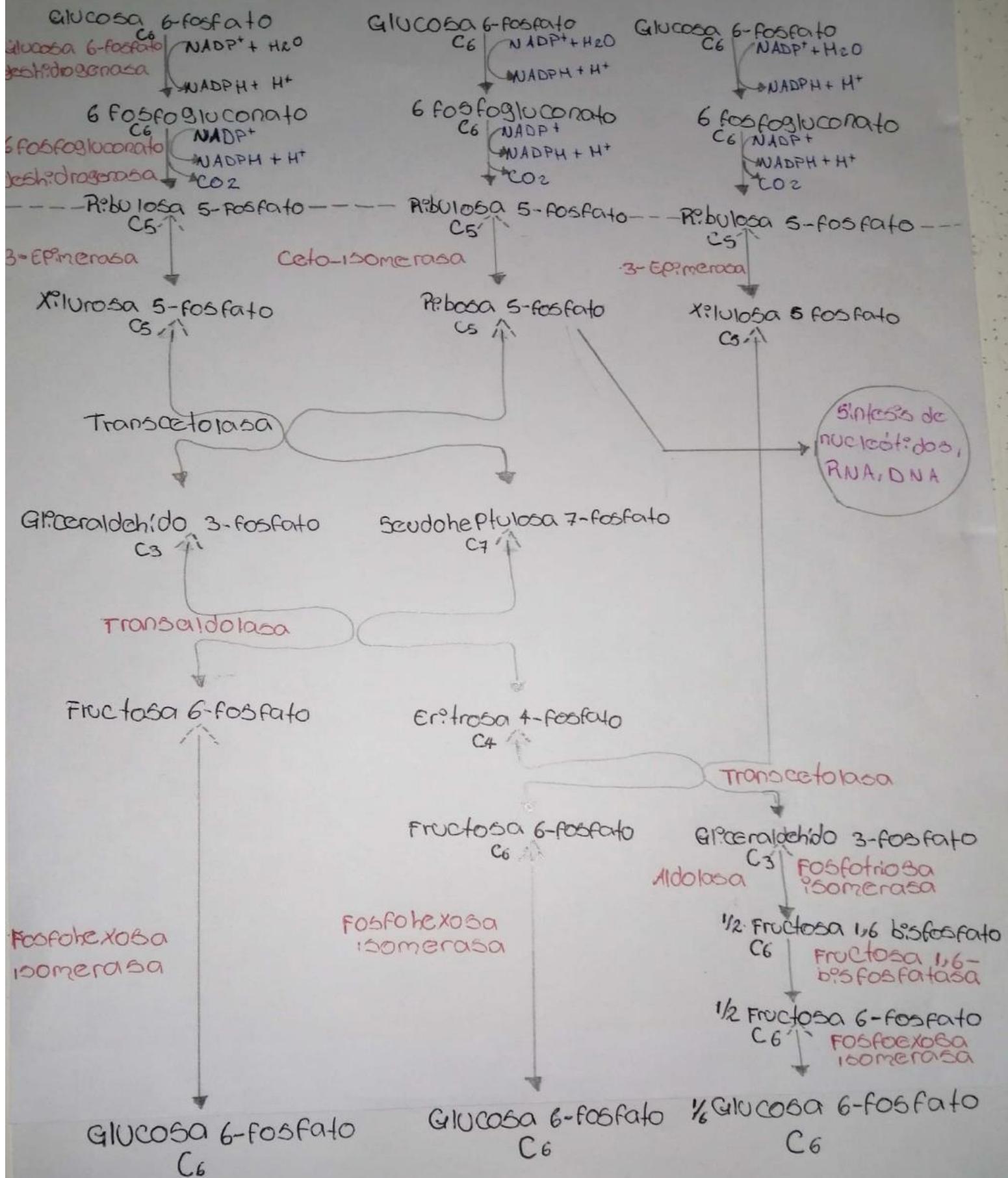
ALUMNA: XOCHITL PÉREZ PASCUAL

TERCER CUATRIMESTRE

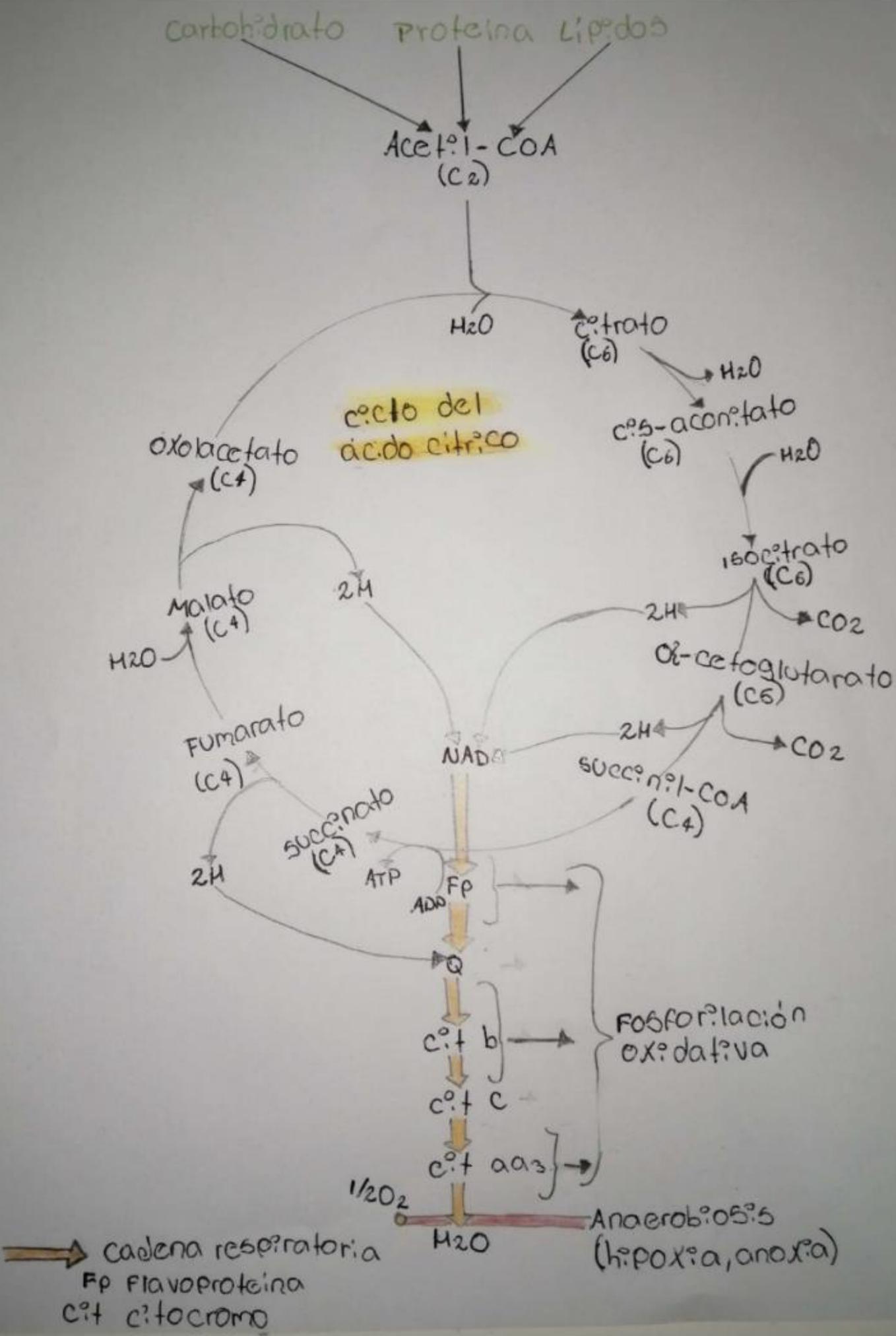
GRUPO "A"

TAPACHULA CHIAPAS

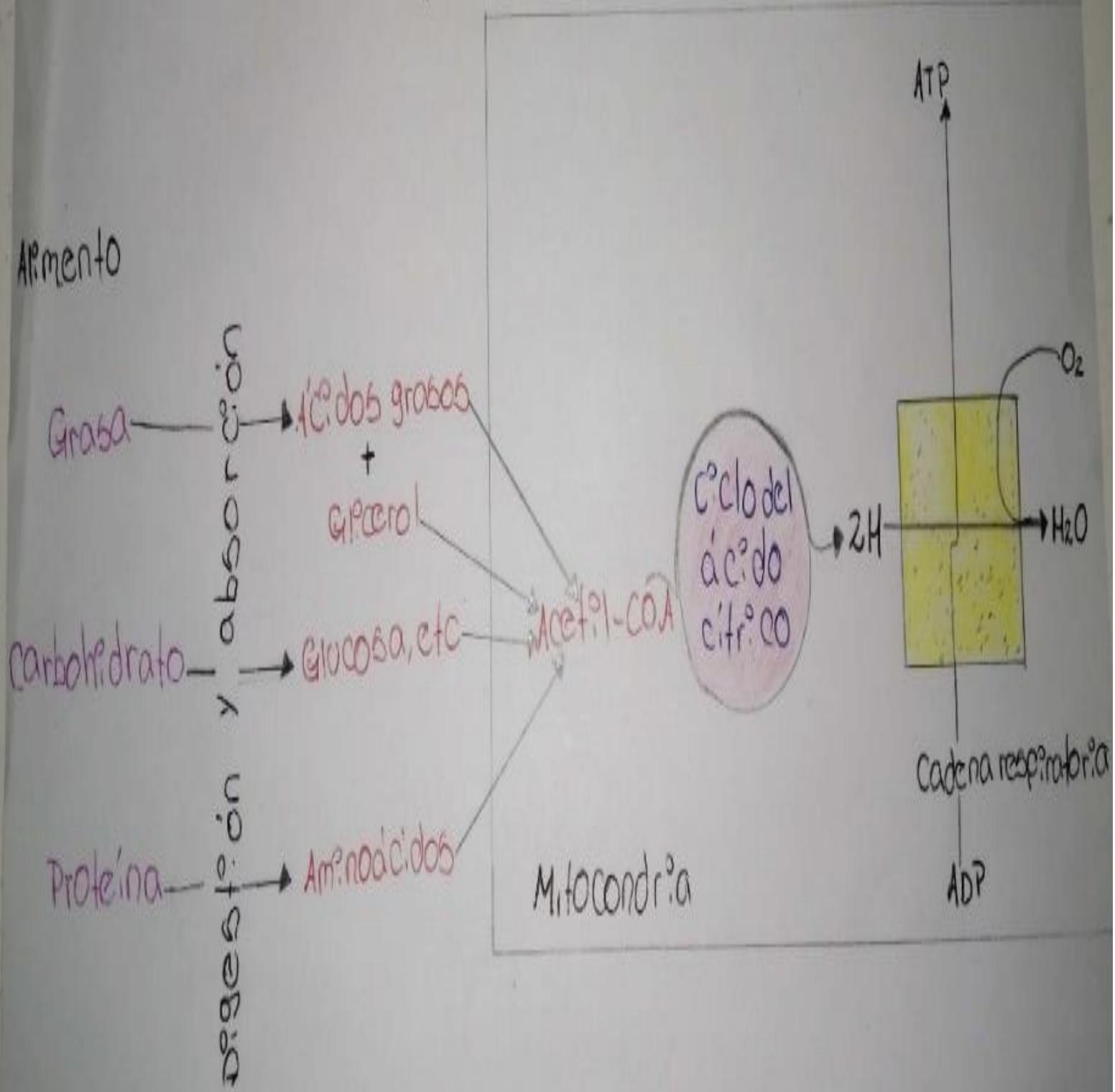
20 DE JUNIO 2020



Vía de la pentosa fosfato y otras vías de metabolismo de hexosas.



la cadena respiratoria y fosforilación oxidativa



Bibliografía

Baldwin JE, Krebs HA: The evolution of metabolic cycles. *Nature* 1981;291:381. Bowtell JL, Bruce M: Glutamine: an anaplerotic precursor. *Nutrition* 2002;18:222. Briere JJ, Favier J, Giminez-Roqueplo A-P, et al: Tricarboxylic acid cycle dysfunction as a cause of human diseases and tumor formation. *Am J Physiol Cell Physiol* 2006;291:C1114. Brunengraber H, Roe CR: Anaplerotic molecules: current and future. *J Inherit Metab Dis* 2006;29:327. De Meirlier L: Defects of pyruvate metabolism and the Krebs cycle. *J Child Neurol* 2002;Suppl 3:S26. Gibala MJ, Young ME: Anaplerosis of the citric acid cycle: role in energy metabolism of heart and skeletal muscle. *Acta Physiol Scand* 2000;168:657. Hertz L, Kala G: Energy metabolism in brain cells: effects of elevated ammonia concentrations. *Metab Brain Dis* 2007;22:199–218. Jitrapakdee S, Vidal-Puig A, Wallace JC: Anaplerotic roles of pyruvate carboxylase in mammalian tissues. *Cell Mol Life Sci* 2006;63:843. Jitrapakdee S, St Maurice M, Rayment I, et al: Structure, mechanism and regulation of pyruvate carboxylase. *Biochem J* 2008;413:369. Kay J, Weitzman PDJ (editors): Krebs' Citric Acid Cycle—Half a Century and Still Turning. Biochemical Society, 1987.

Kornberg H: Krebs and his trinity of cycles. *Nat Rev Mol Cell Biol* 2000;1:225. Ott P, Clemmesen O, Larsen FS: Cerebral metabolic disturbances in the brain during acute liver failure: from hyperammonemia to energy failure and proteolysis. *Neurochem Int* 2005;47:13. Owen OE, Kalhan SC: The key role of anaplerosis and cataplerosis for citric acid cycle function. *J Biol Chem* 2002;277:30409. Pithukpakorn, M: Disorders of pyruvate metabolism and the tricarboxylic acid cycle. *Mol Genet Metab* 2005;85:243. Sumegi B, Sherry AD: Is there tight channelling in the tricarboxylic acid cycle metabolon? *Biochem Soc Trans* 1991;19:1002.