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## Documents

Arroyo-Maya, I.J., Rodiles-López, J.O., Cornejo-Mazón, M., Gutiérrez-López, G.F., Hernández-Arana, A., Toledo-Núñez, C., Barbosa-Cánovas, G.V., Flores-Flores, J.O., Hernández-Sánchez, H.

**Effect of different treatments on the ability of  $\alpha$ -lactalbumin to form nanoparticles**

(2012) *Journal of Dairy Science*, 95 (11), pp. 6204-6214.

**Document Type:** Article

**Source:** Scopus

Hernández-Santoyo, A., Domínguez-Ramírez, L., Reyes-López, C.A., González-Mondragón, E., Hernández-Arana, A., Rodríguez-Romero, A.

**Effects of a buried cysteine-to-serine mutation on yeast triosephosphate isomerase structure and stability**

(2012) *International Journal of Molecular Sciences*, 13 (8), pp. 10010-10021.

**Document Type:** Article

**Source:** Scopus

Toledo-Núñez, C., López-Cruz, J.I., Hernández-Arana, A.

**Thermal denaturation of a blue-copper laccase: Formation of a compact denatured state with residual structure linked to pH changes in the region of histidine protonation**

(2012) *Biophysical Chemistry*, 167, pp. 26-32.

**Document Type:** Article

**Source:** Scopus

Toledo-Núñez, C., López-Cruz, J.I., Hernández-Arana, A.

**Thermal denaturation of a blue-copper laccase: formation of a compact denatured state with residual structure linked to pH changes in the region of histidine protonation.**

(2012) *Biophysical chemistry*, 167, pp. 36-42.

**Document Type:** Article

**Source:** Scopus

Cruces-Ángeles, M.E., Cabrera, N., Pérez-Montfort, R., Reyes-López, C.A., Hernández-Arana, A.

**Thermodynamic and kinetic destabilization of triosephosphate isomerase resulting from the mutation of conserved and non-conserved cysteines**

(2011) *Protein and Peptide Letters*, 18 (12), pp. 1290-1298. Cited 3 times.

**Document Type:** Article

**Source:** Scopus

Serratos, I.N., Pérez-Hernández, G., Garza-Ramos, G., Hernández-Arana, A., González-Mondragón, E., Zubillaga, R.A.

**Binding thermodynamics of phosphorylated inhibitors to triosephosphate isomerase and the contribution of electrostatic interactions**

(2011) *Journal of Molecular Biology*, 405 (1), pp. 158-172. Cited 1 time.

**Document Type:** Article

**Source:** Scopus

Rodiles-López, J.O., Arroyo-Maya, I.J., Jaramillo-Flores, M.E., Gutiérrez-López, G.F., Hernández-Arana, A., Barbosa-Cánovas, G.V., Niranjana, K., Hernández-Sánchez, H.

**Effects of high hydrostatic pressure on the structure of bovine  $\alpha$ -lactalbumin**

(2010) *Journal of Dairy Science*, 93 (4), pp. 1420-1428. Cited 3 times.

**Document Type:** Article

**Source:** Scopus

Reyes-López, C.A., González-Mondragón, E., Benítez-Cardoza, C.G., Cháñez-Cárdenas, M.E., Cabrera, N., Pérez-Montfort, R., Hernández-Arana, A.

**The conserved salt bridge linking two C-terminal  $\beta/\alpha$  units in homodimeric triosephosphate isomerase determines the folding rate of the monomer**

(2008) *Proteins: Structure, Function and Genetics*, 72 (3), pp. 972-979. Cited 2 times.

**Document Type:** Article

**Source:** Scopus

Rodiles-López, J.O., Jaramillo-Flores, M.E., Gutiérrez-López, G.F., Hernández-Arana, A., Fosado-Quiroz, R.E., Barbosa-Cánovas, G.V., Hernández-Sánchez, H.

**Effect of high hydrostatic pressure on bovine  $\alpha$ -lactalbumin functional properties**

(2008) *Journal of Food Engineering*, 87 (3), pp. 363-370. Cited 13 times.

**Document Type:** Article

**Source:** Scopus

González-Mondragón, E., Zubillaga, R.A., Hernández-Arana, A.

**Effect of a specific inhibitor on the unfolding and refolding kinetics of dimeric triosephosphate isomerase:**

**Establishing the dimeric and similarly structured nature of the main transition states on the forward and backward reactions**

(2007) *Biophysical Chemistry*, 125 (1), pp. 172-178. Cited 4 times.

**Document Type:** Article

**Source:** Scopus

López-Arenas, L., Solís-Mendiola, S., Padilla-Zúñiga, J., Hernández-Arana, A.

**Hofmeister effects in protein unfolding kinetics: Estimation of changes in surface area upon formation of the transition state**

(2006) *Biochimica et Biophysica Acta - Proteins and Proteomics*, 1764 (7), pp. 1260-1267. Cited 7 times.

**Document Type:** Article

**Source:** Scopus

López-Cruz, J.I., Viniestra-González, G., Hernández-Arana, A.

**Thermostability of native and pegylated *Myceliophthora thermophila* laccase in aqueous and mixed solvents**

(2006) *Bioconjugate Chemistry*, 17 (4), pp. 1093-1098. Cited 21 times.

**Document Type:** Article

**Source:** Scopus

González-Mondragón, E., Zubillaga, R.A., Saavedra, E., Cháñez-Cárdenas, M.E., Pérez-Montfort, R., Hernández-Arana, A.

**Conserved Cysteine 126 in Triosephosphate Isomerase Is Required Not for Enzymatic Activity but for Proper Folding and Stability**

(2004) *Biochemistry*, 43 (11), pp. 3255-3263. Cited 25 times.

**Document Type:** Article

**Source:** Scopus

Reyes-López, C.A., Hernández-Santoyo, A., Pedraza-Escalona, M., Mendoza, G., Hernández-Arana, A., Rodríguez-Romero, A.  
**Insights into a conformational epitope of Hev b 6.02 (hevein)**  
(2004) *Biochemical and Biophysical Research Communications*, 314 (1), pp. 123-130. Cited 19 times.

**Document Type:** Article

**Source:** Scopus

Benítez-Cardoza, C.G., Rojo-Domínguez, A., Hernández-Arana, A.  
**Temperature-induced denaturation and renaturation of triosephosphate isomerase from *Saccharomyces cerevisiae*: Evidence of dimerization coupled to refolding of the thermally unfolded protein**  
(2001) *Biochemistry*, 40 (30), pp. 9049-9058. Cited 40 times.

**Document Type:** Article

**Source:** Scopus

García-Hernández, E., Zubillaga, R.A., Rodríguez-Romero, A., Hernández-Arana, A.  
**Stereochemical metrics of lectin-carbohydrate interactions: Comparison with protein-protein interfaces**  
(2000) *Glycobiology*, 10 (10), pp. 993-1000. Cited 13 times.

**Document Type:** Article

**Source:** Scopus

López-Arenas, L., Solís-Mendiola, S., Hernández-Arana, A.  
**Estimating the degree of expansion in the transition state for protein unfolding: Analysis of the pH dependence of the rate constant for caricaïn denaturation**  
(1999) *Biochemistry*, 38 (48), pp. 15936-15943. Cited 12 times.

**Document Type:** Article

**Source:** Scopus

García-Hernández, E., Hernández-Arana, A.  
**Structural bases of lectin-carbohydrate affinities: Comparison with protein-folding energetics**  
(1999) *Protein Science*, 8 (5), pp. 1075-1086. Cited 34 times.

**Document Type:** Article

**Source:** Scopus

Solís-Mendiola, S., Gutiérrez-González, L.H., Arroyo-Reyna, A., Padilla-Zúñiga, J., Rojo-Domínguez, A., Hernández-Arana, A.  
**pH dependence of the activation parameters for chymopapain unfolding: Influence of ion pairs on the kinetic stability of proteins**  
(1998) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 1388 (2), pp. 363-372. Cited 19 times.

**Document Type:** Article

**Source:** Scopus

García-Hernández, E., Hernández-Arana, A., Zubillaga, R.A., Rojo-Domínguez, A.  
**Spectroscopic and thermodynamic evidence for a complex denaturation mechanism of bovine  $\beta$ -lactoglobulin A**  
(1998) *Biochemistry and Molecular Biology International*, 45 (4), pp. 761-768. Cited 9 times.

**Document Type:** Article

**Source:** Scopus

García-Hernández, E., Zubillaga, R.A., Rojo-Domínguez, A., Rodríguez-Romero, A., Hernández-Arana, A.  
**New insights into the molecular basis of lectin-carbohydrate interactions: A calorimetric and structural study of the association of hevein to oligomers of N-acetylglucosamine**  
(1997) *Proteins: Structure, Function and Genetics*, 29 (4), pp. 467-477. Cited 28 times.

**Document Type:** Article

**Source:** Scopus

Rojo-Domínguez, A., Hernández-Arana, A., Mendoza-Hernández, G., Rendón, J.L.

**Thermal denaturation of glutathione reductase from cyanobacterium *Spirulina maxima***

(1997) *Biochemistry and Molecular Biology International*, 42 (3), pp. 631-639. Cited 3 times.

**Document Type:** Article

**Source:** Scopus

Arreguin, R., Arreguin, B., Hernandez-Arana, A., Rodriguez-Romero, A.

**Metal content and conformation of the metalloprotease from the marine sponge *Spheciospongia vesparia***

(1995) *Biochemistry and Molecular Biology International*, 36 (4), pp. 827-833. Cited 4 times.

**Document Type:** Article

**Source:** Scopus

Rendón, J.L., Pardo, J.P., Mendoza-Hernández, G., Rojo-Domínguez, A., Hernández-Arana, A.

**Denaturing behavior of glutathione reductase from cyanobacterium *spirulina maxima* in guanidine hydrochloride**

(1995) *Archives of Biochemistry and Biophysics*, 318 (2), pp. 264-270. Cited 9 times.

**Document Type:** Article

**Source:** Scopus

Hernandez-Arana, A., Rojo-Dominguez, A., Soriano-Garcia, M., Rodriguez-Romero, A.

**The thermal unfolding of hevein, a small disulfide-rich protein**

(1995) *European Journal of Biochemistry*, 228 (3), pp. 649-652. Cited 8 times.

**Document Type:** Article

**Source:** Scopus

Tello-Solis, S.R., Valle-Guadarrama, M.E., Hernandez-Arana, A.

**Purification and circular dichroism studies of multiple forms of actinidin from *Actinidia chinensis* (kiwifruit)**

(1995) *Plant Science*, 106 (2), pp. 227-232. Cited 9 times.

**Document Type:** Article

**Source:** Scopus

Arroyo-Reyna, A., Hernandez-Arana, A.

**The thermal denaturation of stem bromelain is consistent with an irreversible two-state model**

(1995) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 1248 (2), pp. 123-128. Cited 44 times.

**Document Type:** Article

**Source:** Scopus

Tello-Solis, S.R., Hernandez-Arana, A.

**Effect of irreversibility on the thermodynamic characterization of the thermal denaturation of *Aspergillus saitoi* acid proteinase**

(1995) *Biochemical Journal*, 311 (3), pp. 969-974. Cited 31 times.

**Document Type:** Article

**Source:** Scopus

Arroyo-Reyna, A., Hernandez-Arana, A., Arreguin-Espinosa, R.

**Circular dichroism of stem bromelain: A third spectral class within the family of cysteine proteinases**

(1994) *Biochemical Journal*, 300 (1), pp. 107-110. Cited 17 times.

**Document Type:** Article

**Source:** Scopus

Altamirano, M.M., Hernandez-Arana, A., Tello-Solis, S., Calcagno, M.L.

**Spectrochemical evidence for the presence of a tyrosine residue in the allosteric site of glucosamine-6-phosphate deaminase from *Escherichia coli***

(1994) *European Journal of Biochemistry*, 220 (2), pp. 409-413. Cited 6 times.

**Document Type:** Article

**Source:** Scopus

Tello-Solis, S.R., Rodriguez-Romero, A., Hernandez-Arana, A.

**Circular dichroism studies of acid proteinases from *Aspergillus niger* and *Aspergillus awamori***

(1994) *Biochemistry and Molecular Biology International*, 33 (4), pp. 759-768. Cited 7 times.

**Document Type:** Article

**Source:** Scopus

Hernández-Arana, A., Rojo-Domínguez, A., Altamirano, M.M., Calcagno, M.L.

**Differential scanning calorimetry of the irreversible denaturation of *Escherichia coli* glucosamine-6-phosphate deaminase**

(1993) *Biochemistry*, 32 (14), pp. 3644-3648. Cited 27 times.

**Document Type:** Article

**Source:** Scopus

Solis-Mendiola, S., Rojo-Dominguez, A., Hernandez-Arana, A.

**Cooperativity in the unfolding transitions of cysteine proteinases. Calorimetric study of the heat denaturation of chymopapain and papain**

(1993) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 1203 (1), pp. 121-125. Cited 13 times.

**Document Type:** Article

**Source:** Scopus

Arreguin, R., Arreguin, B., Soriano-Garcia, M., Hernandez-Arana, A., Rodriguez-Romero, A.

**Isolation and characterization of a protease from the marine sponge *Spheciospongia vesparia***

(1993) *FEBS Letters*, 320 (3), pp. 235-238. Cited 5 times.

**Document Type:** Article

**Source:** Scopus

Solis-Mendiola, S., Arroyo-Reyna, A., Hernandez-Arana, A.

**Circular dichroism of cysteine proteinases from papaya latex. Evidence of differences in the folding of their polypeptide chains**

(1992) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 1118 (3), pp. 288-292. Cited 15 times.

**Document Type:** Article

**Source:** Scopus

Tablero, M., Arreguín, R., Arreguín, B., Soriano, M., Sánchez, R.I., Rodríguez Romero, A., Hernández-Arana, A.

**Purification and characterization of multiple forms of Asclepain g from *Asclepias glaucescens* H.B.K.**

(1991) *Plant Science*, 74 (1), pp. 7-15. Cited 22 times.

**Document Type:** Article

**Source:** Scopus

Altamirano, M.M., Plumbridge, J.A., Hernandez-Arana, A., Calcagno, M.

**Secondary structure of Escherichia coli glucosamine-6-phosphate deaminase from amino acid sequence and circular dichroism spectroscopy**

(1991) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 1076 (2), pp. 266-272. Cited 6 times.

**Document Type:** Article

**Source:** Scopus

Rojo-Dominguez, A., Zubillaga-Luna, R., Hernandez-Arana, A.

**Unfolding behavior of human  $\alpha$ 1-acid glycoprotein is compatible with a loosely folded region in its polypeptide chain**

(1990) *Biochemistry*, 29 (37), pp. 8689-8695. Cited 7 times.

**Document Type:** Article

**Source:** Scopus

Huberman, A., Hernandez-Arana, A., Aguilar, M.B., Rojo-Dominguez, A.

**Secondary structure of a crustacean neuropeptide hormone family by means of CD**

(1989) *Peptides*, 10 (5), pp. 1113-1115. Cited 4 times.

**Document Type:** Article

**Source:** Scopus

Rodriguez-Romero, A., Arreguin, B., Hernandez-Arana, A.

**Unusual far-ultraviolet circular dichroism of wheat germ agglutinin and hevein originated from cystine residues**

(1989) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 998 (1), pp. 21-24. Cited 3 times.

**Source:** Scopus

Solis-Mendiola, S., Zubillaga-Luna, R., Rojo-Dominguez, A., Hernandez-Arana, A.

**Structural similarity of chymopapain forms as indicated by circular dichroism**

(1989) *Biochemical Journal*, 257 (1), pp. 183-186. Cited 6 times.

**Document Type:** Article

**Source:** Scopus

Hernández-Arana, A., Soriano-García, M.

**Detection and characterization by circular dichroism of a stable intermediate state formed in the thermal unfolding of papain**

(1988) *Biochimica et Biophysica Acta (BBA)/Protein Structure and Molecular*, 954 (C), pp. 170-175. Cited 23 times.

**Document Type:** Article

**Source:** Scopus

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