

Dr. Juan José Cazzulo – Curriculum vitae

Argentinian, married, three daughters. Born in General Alvear (Province Buenos Aires, Argentina), on November 29th, 1941. Argentinian DNI 6.433.208. Argentinian Passport AAB 181056.

Office address: Instituto de Investigaciones Biotecnológicas (IIB-INTECH, UNSAM-CONICET). Campus Miguelete de la UNSAM, Av. 25 de Mayo y Francia, 1650 San Martin, Provincia de Buenos Aires, Argentina. Tel. (54 11) 4006-1500, Int. 2123.

Bioquímico (Biochemist), Universidad Nacional de Córdoba, Argentina, 1963
Doctor en Bioquímica (Ph.D. in Biochemistry), Universidad Nacional de Córdoba, Argentina, 1966

Post-Doctoral training at the Department of Biochemistry, University of Leicester, UK, 1968-1970.

Doctor Honoris Causa en Medicina, University of Uppsala, Suecia, 2002.

Prizes and Honors

- 1) Gold Medal to the student of highest general average, Colegio Nacional "Dalmacio Vélez Sarsfield", Las Varillas, Province Córdoba. 1957.
- 2) Bearer of the Argentinian Flag of the Universidad Nacional de Córdoba (position corresponding to the student with the highest average of the University). Córdoba, 1962.
- 3) Premio Universidad (Gold Medal and Diploma), corresponding to the School of Pharmacy and Biochemistry. 1962. Facultad de Ciencias Químicas, Universidad Nacional de Córdoba. Delivered by Argentinian President Dr. Arturo Illia, December 23rd, 1963.
- 4) Premio Enrique Herrero Ducloux, corresponding to 1965 - 1967, consisting in Gold Medal and Diploma, given by the Asociación Química Argentina for the Ph.D. Thesis "Carboxilasa pirúvica de levadura de panadería (*Saccharomyces cerevisiae*). Purificación y propiedades".
- 5) Full Member of the Academia de Ciencias de América Latina (since 1987).
- 6) Premio "Bernardo A. Houssay" (for scientists of 35 - 45 años), given by the Argentinian National Research Council (CONICET). December 1987.
- 7) Fellow of TWAS desde since 2000.
- 8) Medal of the Rector of the Universidad de Chile, Santiago, 2000.
- 9) PABMB Lecture Award, Sociedad de Bioquímica y Biología Molecular de Chile, Termas de Chillán, Chile, September 25th, 2001.
- 10) Premio Academia Nacional de Ciencias Exactas, Físicas y Naturales "Dr. Andrés Stoppani" en Bioquímica de Parásitos. Buenos Aires, 2004.
- 11) Premio Bernardo Houssay a la Investigación Científica y Tecnológica, Categoría Trayectoria, Secretaría de Ciencia, Tecnología e Innovación Productiva, Buenos Aires, 2005.
- 12) Plenary Lecture "Luis F. Leloir". XXX Reunión de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM), Málaga, 2007.

Present work positions

- a) Professor, Instituto de Investigaciones Biotecnológicas, Universidad Nacional de General San Martín. In charge of "Biological Chemistry" and "Protein Biochemistry", for undergraduates, and Director of the Ph.D. Program on Molecular Biology and Biotechnology.
- b) Investigador Superior (top level of the Research Career of the Argentinian National Research Council, CONICET).

In both positions, retired (by age) and under contract at present.

Previous positions:

Head of the Laboratory of Parasite Biochemistry, Instituto de Investigaciones Bioquímicas "Luis F. Leloir", Fundación Campomar (now Fundación Instituto Leloir)(1986 – 1997).

Associate Professor, area Biological Chemistry, Instituto de Investigaciones Bioquímicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires (1994 – 1999).

Full Professor (Molecular Genetics), Departamento de Ciencias Biológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires (1995 – 1996).

Head of the Research Department, Instituto Nacional de Diagnóstico e Investigación de la Enfermedad de Chagas "Dr. Mario Fatała Chabén", (now National Institute for Parasitology) Ministry of Health (1980 – 1986).

Associate Professor (1969 – 1977) and Full Professor (1977 – 1980) of Biological Chemistry, Facultad de Ciencias Bioquímicas y Farmacéuticas, Universidad Nacional de Rosario .

Regional Coordinator of the Network for Research and Training in Parasitic Diseases at the Southern Cone of Latin America (Argentina, Chile, Uruguay, Bolivia, Paraguay, Perú and the Brazilian State of Rio Grande do Sul, in collaboration with Sida/SAREC, Sweden), since July 1995 to December 2001.

Past-Chairman of the Pan American Association for Biochemistry and Molecular Biology (PABMB, member of IUBMB), 2006 - 2008; before Chairman (2003 - 2005), Vice-Chairman (2000 – 2002) and Secretary-General (1997 – 1999).

President (1989 - 1991) of the Sociedad Argentina de Investigación en Bioquímica y Biología Molecular (SAIB).

President (1984 - 1986) of the Sociedad Argentina de Protozoología y Enfermedades Parasitarias(SAP).

Member of the Comité Coordinador of the Forum of Argentinian Scientific Societies (1989 – 1993).

Member of the Biochemical Society (U.K.), the American Society for Microbiology (USA) and the Society of Protozoologists.

Member of the Editorial Board of Molecular and Biochemical Parasitology (Elsevier, Amsterdam) since 1985.

Director or Co-Director of 26 Ph.D. Theses finished and 2 in progress.

Original papers.

1. J.J.Cazzulo and A.O.M.Stoppani: Enzyme reactions for carbon dioxide fixation in baker's yeast. **Biochim.Biophys. Acta**, **100** (1965) 276 - 280. ISSN 0006-3002

2. J.J.Cazzulo and A.O.M.Stoppani: Purification and properties of pyruvate carboxylase from baker's yeast. **Arch.Biochem.Biophys.**, **121** (1967) 596 - 608. ISSN 0003-9861

3. J.J.Cazzulo and A.O.M.Stoppani: Algunas propiedades de la carboxilasa pirúvica de levadura de panadería (*Saccharomyces cerevisiae*). **Anales Asoc. Quím. Argentina**, **55** (1967) 103 - 120.

4. L.M.Claisse, J.J.Cazzulo and A.O.M.Stoppani: Niveles de enzimas carboxilantes durante el desarrollo de la levadura *Saccharomyces cerevisiae* **Anales Asoc. Quím. Argentina**, **55** (1967) 299 - 308.
5. J.J.Cazzulo, L.M.Claisse and A.O.M.Stoppani: Carboxylase levels and carbon dioxide fixation in baker's yeast. **J.Bacteriol.**, **96** (1968) 623 - 628. ISSN 0021-9193
6. J.J.Cazzulo and A.O.M.Stoppani: The regulation of yeast pyruvate carboxylase by acetyl-coenzyme A and L-aspartate. **Arch. Biochem. Biophys.**, **127** (1968) 563 - 567. ISSN 0003-9861
7. J.J.Cazzulo and A.O.M.Stoppani: Effects of magnesium, manganese and adenosine triphosphate ions on pyruvate carboxylase from baker's yeast. **Biochem.J.** **112** (1969) 747 - 754. ISSN 0264-6021
8. J.J.Cazzulo and A.O.M.Stoppani: Effects of adenosine phosphates and nicotinamide nucleotides on pyruvate carboxylase from baker's yeast. **Biochem.J.** **112** (1969) 755 - 762. ISSN 0264-6021
9. J.J.Cazzulo, T.K.Sundaram and H.L.Kornberg: Regulation of pyruvate carboxylase formation from the apo-enzyme and biotin in a thermophilic *Bacillus*. **Nature (London)** **223** (1969) 1137 - 1138. ISSN 0028-0836
10. T.K.Sundaram, J.J.Cazzulo and H.L.Kornberg: Anaplerotic CO₂ fixation in mesophilic and thermophilic bacteria. **Biochim. Biophys. Acta**, **192** (1969) 355 - 357. ISSN 0006-3002
11. J.J.Cazzulo, T.K.Sundaram and H.L.Kornberg: Mechanism of pyruvate carboxylase formation from the apo-enzyme and biotin in a thermophilic *Bacillus*. **Nature (London)** **227** (1970) 1103 - 1105. ISSN 0028-0836
12. J.J.Cazzulo, T.K.Sundaram and H.L.Kornberg: Properties and regulation of pyruvate carboxylase from *Bacillus stearothermophilus*. **Proc. Roy. Soc. London B**, **176** (1970) 1 - 19. ISSN 0962-8452
13. T.K.Sundaram, J.J.Cazzulo and H.L.Kornberg: Pyruvate holocarboxylase formation from the apoenzyme and D-biotin in *Saccharomyces cerevisiae*. **Arch.Biochem.Biophys.** **143** (1971) 609 - 616. ISSN 0003-9861
14. J.J.Cazzulo, T.K.Sundaram, S.N.Dilks and H.L.Kornberg: Synthesis of pyruvate carboxylase from its apoenzyme and (+)-biotin in *Bacillus stearothermophilus*. Purification and properties of the apoenzyme and the holoenzyme synthetase. **Biochem.J.** **122** (1971) 653 - 661. ISSN 0264-6021
15. T.K.Sundaram, J.J.Cazzulo and H.L.Kornberg: Synthesis of pyruvate carboxylase from its apoenzyme and (+)-biotin in *Bacillus stearothermophilus*. Mechanism and control of the reaction. **Biochem.J.** **122** (1971) 663 - 669. ISSN 0264-6021
16. J.J.Cazzulo and M.C.Vidal: Effect of monovalent cations on the malic enzyme of the extreme halophile, *Halobacterium cutirubrum*. **J.Bacteriol.** **109** (1972) 437 - 439. ISSN 0021-9193
17. J.J.Cazzulo and Esther Massarini: Inhibition of NADP-linked malic enzyme by glyoxylate. **FEBS Lett.** **22** (1972) 76 - 79. ISSN 0014-5793

18. M.C.Vidal and J.J.Cazzulo: CO₂-fixing enzymes in a marine psychrophile. **J.Bacteriol.** **112** (1972) 427 – 433. ISSN 0021-9193
19. M.C.Vidal and J.J.Cazzulo: Allosteric inhibition of NADP-linked malic enzyme from an extreme halophile by acetyl-CoA. **FEBS Lett.** **26** (1972) 257 - 260. ISSN 0014-5793
20. J.J.Cazzulo: On the regulatory properties of a halophilic citrate synthase. **FEBS Lett.** **30** (1973) 339 - 342. ISSN 0014-5793
21. E.Massarini y J.J.Cazzulo: Algunas propiedades de las enzimas málicas NADP dependientes aisladas de una *Pseudomonas* marina y de *Enterobacter cloacae*. **Anales Asoc. Quím.Argentina**, **61** (1973) 67 - 78.
22. A.I.Higa and J.J.Cazzulo: On the fractionation of halophilic enzymes with ammonium sulphate. **Experientia (Basel)** **29** (1973) 1081 - 1083. ISSN 0014-4754
23. A.I.Higa, M.C.Vidal y J.J.Cazzulo: Estudio comparativo de los efectos de sales sobre cuatro enzimas de la bacteria halófila extrema *Halobacterium cutirubrum*. **Anales Asoc. Quím. Argentina**, **61** (1973) 291 - 300.
24. E.Massarini and J.J.Cazzulo: Activation of citrate synthase from a marine Pseudomonad by adenosine monophosphate and potassium chloride. **FEBS Lett.** **39** (1974) 252 - 254. ISSN 0014-5793
25. A.I.Higa, M.C.Vidal and J.J.Cazzulo: Activation and stabilization of halophilic enzymes by magnesium and calcium ions. **Experientia (Basel)** **30** (1974) 462 - 463. ISSN 0014-4754
26. J.J.Cazzulo, M.C.Vidal and E. Massarini : Regulatory properties of enzymes from halophilic bacteria. **Acta Physiol.Latinoamericana**, **23** (1974) 578 - 580. ISSN 0326-6656
27. A.I.Higa and J.J.Cazzulo: Some properties of the citrate synthase from the extreme halophile, *Halobacterium cutirubrum*. **Biochem.J.** **147** (1975) 267 - 274. ISSN 0264-6021
28. E.Massarini and J.J.Cazzulo: Two forms of citrate synthase in a marine Pseudomonad. **FEBS Lett.** **57** (1975) 134 - 138. ISSN 0014-5793
29. E.Massarini and J.J.Cazzulo: On the role of divalent cations in the reaction mechanism of malic enzyme. **Experientia**, **31** (1975) 1126 - 1128. ISSN 0014-4754 (E.Massarini y J.J.Cazzulo: Enzima málica NADP-dependiente de una *Pseudomonas* marina. II. Efecto de cationes divalentes. **Anales Asoc. Quím. Argentina**, **64** (1976) 41 - 50).
30. T.P.Coultate, T.K.Sundaram and J.J.Cazzulo: Stability of protein and ribonucleic acid in *Bacillus stearothermophilus*. **J.Gen.Microbiol.** **91** (1975) 383 - 390. ISSN 0022-1287
31. S.R.M. de Forchetti, O.Forchetti, S.M.Juan, A.I.Higa, A.González, J.L.Parada y J.J.Cazzulo: Metabolismo de una bacteria criófila de agua dulce. **Rev. Asoc. Arg. Microbiol.** **7** (1975) 97 - 107. ISSN 0325-1713

32. A.I.Higa, S.M.Milrad de Forchetti and J.J.Cazzulo: CO₂-fixing enzymes in *Pseudomonas fluorescens*. **J.Gen.Microbiol.** **93** (1976) 69 - 74. ISSN 0022-1287
33. S.R.Milrad de Forchetti and J.J.Cazzulo: Some properties of the pyruvate carboxylase from *Pseudomonas fluorescens*. **J.Gen.Microbiol.** **93** (1976) 75 - 81. ISSN 0022-1287
34. S.M.Juan and J.J.Cazzulo: The extracellular protease from *Pseudomonas fluorescens*. **Experientia (Basel)** **32** (1976) 1120 - 1122. ISSN 0014-4754
(S.M.Juan y J.J.Cazzulo: Producción de proteasa extracelular por una bacteria criófila de agua dulce. **Rev.Asoc. Arg. Microbiol.** **8** (1976) 8 - 13).
35. M.C.Vidal and J.J.Cazzulo: On the regulatory properties of a halophilic malic enzyme from *Halobacterium cutirubrum*. **Experientia (Basel)** **32** (1976) 441 - 442. ISSN 0014-4754
36. E.Massarini, A.I.Higa and J.J.Cazzulo: Regulatory properties of the citrate synthase from *Rhodospirillum rubrum*. **Experientia (Basel)** **32** (1976) 426 - 428. ISSN 0014-4754
(A.I.Higa, E.Massarini y J.J.Cazzulo: Regulación de la citrato sintasa en bacterias: Comparación de la acción de varios efectores sobre las enzimas de *Rhodospirillum rubrum* y *Bacillus stearothermophilus*. **Rev. Asoc. Arg. Microbiol.** **8** (1976) 74 - 81). ISSN 0325-1713
37. A.I.Higa and J.J.Cazzulo: The citrate synthase from *Bacillus stearothermophilus*. **Experientia (Basel)** **32** (1976) 1373 - 1374. ISSN 0014-4754
38. S.M.Juan, J.J.Cazzulo y E.L.Segura: Algunas propiedades de la malato dehidrogenasa de *Trypanosoma cruzi*. **Rev.Asoc.Arg.Microbiol.** **8** (1976) 114 - 116. ISSN 0325-1713
39. S.M.Juan, J.J.Cazzulo and E.L.Segura: The pyruvate kinase from *Trypanosoma cruzi*. **Acta Physiol. Latinoamericana**, **26** (1976) 424 - 426. ISSN 0326-6656
40. E.Massarini y J.J.Cazzulo: Enzima málica NADP dependiente de una *Pseudomonas* marina. I. Efecto de cationes monovalentes. **Anales Asoc. Quím. Argentina**, **64** (1976) 29 - 39.
41. E.Massarini y J.J.Cazzulo: Enzima málica NADP-dependiente de una *Pseudomonas* marina. III. Efecto de cationes divalentes sobre la inhibición por metabolitos. **Anales Asoc. Quím. Argentina**, **64** (1976) 51 - 59.
42. J.J.Cazzulo, S.M.Juan and E.L.Segura: Glutamate dehydrogenase and aspartate aminotransferase in *Trypanosoma cruzi*. **Comp.Biochem.Physiol.** **56B** (1977) 301 - 303. ISSN 0305-0491
43. J.J.Cazzulo, S.M.Juan and E.L.Segura: The malic enzyme from *Trypanosoma cruzi*. **J.Gen.Microbiol.** **99** (1977) 237 - 241. ISSN 0022-1287
44. M.A.Cataldi de Flombaum, J.J.B.Cannata, J.J.Cazzulo and E.L.Segura: CO₂-fixing enzymes in *Trypanosoma cruzi*. **Comp.Biochem.Physiol.** **58 B** (1977) 67 - 69. ISSN 0305-0491

45. S.M.Juan, J.J.Cazzulo and E.L.Segura: The citrate synthase from *Trypanosoma cruzi*. **J.Parasitol.** **63** (1977) 921 - 922. ISSN 0022-3395
46. A.C.C.Frasch, E.L.Segura, J.J.Cazzulo and A.O.M.Stoppani: Adenosine triphosphatase activities in *Trypanosoma cruzi*. **Comp.Biochem.Physiol.** **60B** (1978) 271 - 275. ISSN 0305-0491
47. A.C.C.Frasch, J.J.Cazzulo and A.O.M.Stoppani: Solubilization and some properties of the Mg²⁺-activated adenosine triphosphatase from *Trypanosoma cruzi*. **Comp.Biochem.Physiol.** **61B** (1978) 207 - 212. ISSN 0305-0491
48. S.M.Juan, E.L.Segura and J.J.Cazzulo: Purification and some properties of the NADP-linked glutamate dehydrogenase from *Trypanosoma cruzi*. **Int.J.Biochem.** **9** (1978) 395 - 400. ISSN 1357-2725
49. A.I.Higa, E.Massarini and J.J.Cazzulo: Purification and some properties of the citrate synthase from a marine *Pseudomonas*. **Can.J.Microbiol.** **24** (1978) 215 - 221. ISSN 0008-4166
50. A.I.Higa and J.J.Cazzulo: The adenosine triphosphatase from the moderate halophile, *Vibrio costicola*. **FEMS Microbiol. Lett.** **3** (1978) 157 - 160. ISSN 0378-1097 (J.J.Cazzulo: The adenosine triphosphatase from the moderate halophile, *Vibrio costicola*. In: **Energetics and structure of Halophilic Microorganisms** (S.R.Caplan and M. Ginsburg, Eds.) pp. 447 - 451. Elsevier/North Holland, Amsterdam, 1978).
51. S.M.Juan, E.L.Segura and J.J.Cazzulo: Inhibition of the NADP-linked glutamate dehydrogenase from *Trypanosoma cruzi* by sulfhydryl reagents. **Comp.Biochem.Physiol.** **63B** (1979) 531 - 535. ISSN 0305-0491
52. J.J.Cazzulo, B.M.Franke de Cazzulo, A.I.Higa and E.L.Segura: NAD-linked glutamate dehydrogenase in *Trypanosoma cruzi*. **Comp. Biochem. Physiol.** **64B** (1979) 129 - 131. ISSN 0305-0491
53. A.I.Higa, B.M.Franke de Cazzulo and J.J.Cazzulo: Some properties of the nicotinamide adenine dinucleotide-specific glutamate dehydrogenase from *Crithidia fasciculata*. **J.Gen.Microbiol.** **113** (1979) 429 - 432. ISSN 0022-1287
54. S.M.Juan, E.L.Segura and J.J.Cazzulo: Inhibition of the NADP-linked glutamate dehydrogenase from *Trypanosoma cruzi* by silver nitrate. **Experientia (Basel)** **35** (1979) 1139 - 1140. ISSN 0014-4754
55. J.J.B.Cannata, A.C.C.Frasch, M.A.Cataldi de Flombaum, E.L.Segura and J.J.Cazzulo: Two forms of malic enzyme with different regulatory properties in *Trypanosoma cruzi*. **Biochem.J.** **184** (1979) 409 - 419. ISSN 0264-6021
56. M.S.Salvarrey and J.J.Cazzulo: Some properties of the NADP-specific malic enzyme from the moderate halophile, *Vibrio costicola*. **Can.J.Microbiol.** **26** (1980) 50 - 57. ISSN 0008-4166
57. J.J.B.Cannata, R.Docampo, E.Valle, B. M. Franke de Cazzulo y J.J.Cazzulo: Distribución intracelular de las enzimas fijadoras de CO₂ en *Trypanosoma cruzi* y *Crithidia fasciculata*. **Medicina (Buenos Aires)** **40 (Supl. 1)** (1980) 143 - 153. ISSN 0025-7680

58. J.J.Cazzulo, E. Valle, R. Docampo and J.J.B.Cannata: Intracellular distribution of CO₂-fixing enzymes in *Trypanosoma cruzi* and *Crithidia fasciculata*. **J. Gen. Microbiol.** **117** (1980) 271 - 274. ISSN 0022-1287
59. J.J.Cazzulo, B.M.Franke de Cazzulo and E.L.Segura: Inhibition of the NAD-linked glutamate dehydrogenase from *Trypanosoma cruzi* by sulfhydryl reagents. **Comp.Biochem.Physiol.** **67 B** (1980) 163 - 166. ISSN 0305-0491
60. E. Orellano and J.J.Cazzulo: Purification and regulatory properties of the NADP-linked malic enzyme from *Crithidia fasciculata*. **Mol. Biochem. Parasitol.** **3** (1981) 1 - 11. ISSN 0166-6851
61. A.I.Higa and J.J.Cazzulo: The Mg²⁺-activated adenosine triphosphatase from *Crithidia fasciculata*: purification and inhibition by suramin and efrapeptin. **Mol.Biochem.Parasitol.** **3** (1981) 357 - 367. ISSN 0166-6851
62. M. Torruella, B.M.Franke de Cazzulo, J.C.Engel, A.M.Ruiz, E.L.Segura and J.J.Cazzulo: *Trypanosoma cruzi* and *Trypanosoma rangeli*: : Glutamate dehydrogenases and proteolytic activities. **Comp.Biochem.Physiol.** **70 B** (1981) 463 - 468. ISSN 0305-0491
63. A.J.Parodi, L.A.Quesada-Allué and J.J.Cazzulo: The pathway of protein glycosylation in the Trypanosomatid *Crithidia fasciculata*. **Proc. Nat. Acad. Sci. U.S.-Biol.Sci**, **78** (1981) 6201 - 6205. ISSN 0027-8424
64. A.C.C.Frasch, S.G.Gojman, J.J.Cazzulo and A.O.M.Stoppani: Constant and variable regions in DNA minicircles from *Trypanosoma cruzi* and *Trypanosoma rangeli* : application to species and stock differentiation. **Mol.Biochem. Parasitol.** **4** (1981) 163 - 170. ISSN 0166-6851
65. B.M.Franke de Cazzulo and J.J.Cazzulo: Inhibition by suramin of the glutamate dehydrogenases from *Trypanosoma cruzi* and bovine liver. **Comp.Biochem.Physiol.** **71 B** (1982) 321 - 324. ISSN 0305-0491
66. O.A.Roveri, B.M.Franke de Cazzulo and J.J.Cazzulo: Inhibition by suramin of oxidative phosphorylation in *Crithidia fasciculata*. **Comp.Biochem. Physiol.** **71 B** (1982) 611 - 616. ISSN 0305-0491
67. M.S.Salvarrey and J.J.Cazzulo: Citrate synthase from *Crithidia fasciculata*: : inhibition by adenine nucleotides and suramin. **Comp.Biochem.Physiol.** **72 B** (1982) 165 - 168. ISSN 0305-0491
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72. E. Bontempi, B.M. Franke de Cazzulo, A.M.Ruiz and J.J.Cazzulo: Purification and some properties of an acidic protease from epimastigotes of *Trypanosoma cruzi*. **Comp.Biochem.Physiol.** **77 B** (1984) 599 - 604. ISSN 0305-0491
73. J.J.B.Cannata and J.J.Cazzulo: Glycosomal and mitochondrial malate dehydrogenases in epimastigotes of *Trypanosoma cruzi*. **Mol. Biochem. Parasitol.** **11** (1984) 37 - 49. ISSN 0166-6851
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