

## CURRICULUM VITAE (Abridged)

### De Antoni, Graciela Liliana

Argentine

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#### CURRENT POSITION

- Principal Researcher of the Comisión de Investigaciones Científicas de la Provincia de Buenos Aires (CIC PBA, Argentine).
- Full Professor in Microbiology, Faculty of Exact Sciences. La Plata National University.
- Advisor of three Doctoral theses Faculty of Exact Sciences, La Plata University.
- Advisor of two postdoctoral fellows Faculty of Exact Sciences, La Plata University.
- Advisor of one Assistant researcher Faculty of Exact Sciences, La Plata University
- Academic Advisor of the Faculty of Exact Sciences. La Plata National University.
- Project supervision: Proyecto PICT- ANPCyT (2009-2011): Desarrollo de un producto probiótico deshidratado de amplio espectro a base de suero de quesería fermentado con bacterias lácticas y levaduras. Estudio de su acción inhibitoria sobre *Campylobacter*, *Shigella*, *Escherichia coli* enteropatógenas, *Giardia intestinalis* y hongos toxigénicos.

#### EDUCATION

- 1972 Biochemist. La Plata National University
- 1978 PhD in Biochemistry. La Plata National University. Doctoral Thesis
- Post graduate courses: 10 in topics of Microbiology

#### TEACHING

##### *Teaching for undergraduated students*

- 1973-1975 Lab Instructor. Faculty of Exact Sciences, La Plata National University.
- 1978-1983 Head Lab Instructor. Microbiology. Faculty of Veterinary and Faculty of Exact Sciences, La Plata National University.
- 1986-2001 Assistant Professor. Microbiology. Faculty of Exact Sciences, La Plata National University.
- 1991-1992 Visiting Professor North Carolina State University
- Since 2001 (current position Full Professor. Microbiology and Food Microbiology. Faculty of Exact Sciences, La Plata National University.
- 2001-2004 Visiting Professor National University of Quilmes, Argentine

##### *Teaching for graduate students*

Post graduate courses in National Argentine Universities.(total 36) .

#### PUBLICATIONS

##### *Book chapters:*

1. Bibiloni, R. Pérez, P. Garrote, G. Disalvo, E. and **De Antoni G.**(2001) Surface characterization and adhesive properties of bifidobacteria. *Methods in Enzymology* Vol 336:411-227 (Microbial growth in biofilms. Part. A Ed. Ron J Doyle) Academic Press
2. Abraham A G, Serradell M A, Garrote G L, Fossati C A; **De Antoni G,L** (2005) "Immunochemical Methods for Detection of Probiotics" (chapter 7) 165-189 en *Probiotic in Food Safety and Human Health*. Ipek Goktepe and Vijay Juneja (Ed) Marcell Dekker inc. New York.
3. Garrote G L, Abraham A G, **De Antoni G,L** (2009) Microbial Interactions in Kefir: A Natural Probiotic Drink. *Biotechnology of Lactic Acid Bacteria: Novel Applications*. Editors: Fernanda Mozzi, Raúl R. Raya and Graciela M. Vignolo. Capítulo 18. Wiley-Blackwell, Ames, IO, USA..(in press)

##### *Refereed journal articles (Total 60):*

1. Gómez Zavaglia, A.; Tymczyszyn, E.. **De Antoni, G. L** and Disalvo, E. A. 2003. Action of trehalose on the preservation of *Lactobacillus delbrueckii* ssp. *bulgaricus* by heat and osmotic dehydration. *Journal of Applied Microbiology* 95: 1315-1320
2. Moreira, M. R., Storani, E., Bevilacqua, A. and **De Antoni, G. L**. 2003. The effects of starter culture and sodium formate on tybo semihard cheese characteristics. *Italian Journal of Food Science*, 2(15): 285-292
3. Moreira M., Bevilacqua A. and **De Antoni G** 2003. Manufacture of Quattro cheese using exopolysaccharide-producing starter cultures. *Milchwissenschaft Milk Science International* 58(5-6):301-303

4. Garrote, G., Delfederico, L., Bibiloni, R., Abraham A G., Pérez, P., Semorile, L., **De Antoni, G.** (2004) "Heterofermentative lactobacilli isolated from kefir grains: evidence for the presence of S-layer proteins" *Journal of Dairy Research* **71**:222-230
5. Humen, M., **De Antoni, G.**, Benyacoub, J., Costas, M., Cardozo, M., Kosubsky, L., Saudan, K., Bruand, A., Blum, S., Schiffrin, E., Pérez, P (2005) *Lactobacillus johnsonii* La1 antagonizes *Giardia intestinalis* in vivo. *Infection and Immunity* **73**: 1265-1269.
6. J. Benyacoub, P. F. Pérez, F. Rochat, K. Y. Saudan, G. Reuteler, N. Antille, M. Humen, **G. L. De Antoni**, C. Cavadini, S. Blum, and E. J. Schiffrin. 2005. *Enterococcus faecium* SF68 Enhances the Immune Response to *Giardia intestinalis* in Mice. *Nutritional Immunology*: 1171-1176
7. Garrote, G L; Serradell M A, Abraham A G, Añón M C, Fossati C A, **De Antoni G L**.(2005) "Development of an immunochemical method to detect *Lactobacillus kefir*". *Food and Agricultural Immunology* **16** (3), pp. 221-233
8. Bosch A, Golowczyc M, Abraham A G; Garrote G L.; **De Antoni G** and Yantorno O. (2006) Rapid discrimination of lactobacilli isolated from kefir grains by FT-IR spectroscopy. *International Journal of Food Microbiology*. **111**: 280-287
9. A.A. Hugo, **G.L. De Antoni** ,1, P.F. Pérez (2006). Lactobacillus delbrueckii subsp lactis strain CIDCA 133 inhibits nitrate reductase activity of Escherichia coli *International Journal of Food Microbiology* **111**: 191–196.
10. F. Trejo, J. Minnaard, P. F. Perez, **G. L. De Antoni**. (2006) Inhibition of Clostridium difficile growth and adhesion to enterocytes by Bifidobacterium supernatants. *Anaerobe*, **12**: 186-193.
11. Delfederico, L., Hollmann, A., Martínez, M., Iglesias, N.G., **De Antoni, G.** and Semorile, L. 2006. Molecular identification and typing of lactobacilli isolated from kefir grains. *Journal of Dairy Research* **71**:20-27
12. Golowczyc M. A., Mobili P., Garrote G. L., **Abraham A. G.**, De Antoni G. L. (2007) "Protective action of Lactobacillus kefir carrying S-layer protein against Salmonella enterica serovar Enteritidis" *International Journal of Food Microbiology*. **118**: 264–273
13. Kakisu, E, **Abraham A. G.**, Pérez P, De Antoni G. (2007) Inhibition of Bacillus cereus by kefir grains fermented milk". *Journal of Food Protection*. **70**: 2613-2616
14. Hollmann A., Delfederico L, Glikmann G, **De Antoni G.L.**, Semorile L. and Disalvo E.A (2007) Characterization of liposomes coated with S-layer proteins from Lactobacilli *Bioch Biophys Acta* **1768**, 393-400.
15. Hugo, A. A.; Kakisu, E. J.; **De Antoni, G. L.** and Pérez, P. F. 2008, Lactobacilli antagonize biological effects of enterohaemorrhagic Escherichia coli in vitro. *Lett. Appl. Microbiol.* **2008**, 46:613-619
16. Golowczyc M. A., Gugliada M. J., Hollmann A., Delfederico L, Garrote G. L., Abraham A. G., Semorile, G. L., **De Antoni G. L.** (2008) "Characterization of homofermentative lactobacilli isolated from kefir grains: potential use as probiotic". *Journal of Dairy Research*. **75**: 211-217
17. Golowczyc M.A., Mobili P., Garrote G. L., Serradell M. A., Abraham A.G , **De Antoni. G.L** (2009). "Interaction between *Lactobacillus kefir* and *Saccharomyces lipolytica* isolated from kefir grains: evidence for lectin-like activity of bacterial surface proteins". *Journal of Dairy Research*. **76**:1–6.
18. Mobili P., Serradell M. A., Trejo S, Avilés Puigvert F.X., Abraham A.G , **De Antoni. G.L** 2009 Heterogeneity of S-layer proteins from aggregating and non-aggregating *Lactobacillus kefir* strains. *Antonie van Leeuwenhoek*. **95**:363-372.

#### **Other journal articles**

1. Graciela L. Garrote, Analía A. Abraham y Graciela L. De Antoni (2001) Aspectos probióticos y tecnológicos de leches fermentadas con gránulos de kefir *Industria Lechera*. N°730:10-18.
2. Abraham A. G., Garrote G, De Antoni G (2005) Productos fermentados artesanales como fuente de microorganismos probióticos" *Industria Lechera* **739**:3-4
3. Echeverría; G.L. Garrote; G.L. De Antoni (2007) Formulación de una leche fermentada probiótica y con bajo contenido de lactosa. *Tecnología Láctea Latinoamericana*. Año XII, 48: 44-47. Editorial Publitec. Argentina.

#### **Proceedings journals : 14**

#### **SUPERVISION OF PhD THESES**

- 1991. Pablo Pérez. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni- Dra Cristina Añón.
- 1992. Analía Abraham. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni- Dra Cristina Añón.
- 1997. Patricio de Urza. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni- Dra Cristina Añón.

- 1999. María del Rosario Moreira. Facultad de Ingeniería, UNLP Calificación: Sobresaliente. Advisors: Dra. Graciela De Antoni
- 1999. Guillermo Kociubinski. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni
- 2000. Graciela L. Garrote. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni
- 2000. Andrea Gomez Zavaglia. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni
- 2001. Rodrigo Bibiloni. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni
- 2007 Ayelen Hugo. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dr. Pablo Perez- Dra. Graciela De Antoni-
- 2008 Pablo Mobili. Calificación Sobresaliente 10. Facultad de Ciencias Exactas UNLP Advisors: Dra. Graciela De Antoni.- Dra Analía G Abraham.
- 2008 Marina Golowczyc Calificación Sobresaliente 10. Facultad de Ciencias Exactas UNLP Advisors: Dra. Graciela De Antoni- Dra Analía G Abraham.
- 2009. Martín Humen. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dr. Pablo Perez- Dra. Graciela De Antoni
- 2009. Fernando Trejo. Facultad de Ciencias Exactas, UNLP. Calificación: Sobresaliente (10)Advisors: Dra. Graciela De Antoni- Dr. Pablo Perez

*Magíster Thesis*

- 2005 María Victoria Zabala Calificación Aprobada. (4-3-2005) Advisors: Dra. G de Antoni - Dra Analía G Abraham.

*For undergraduate student*

- 2005 Emiliano Kakisu Universidad Nacional del Litoral. Aprobada: Diez Advisors: Dra. G de Antoni -: Dra Analía G Abraham.

***In progress***

*PhD thesis Facultad de Ciencias Exactas de la UNLP*

- Licenciado en Biodiversidad Emiliano Kakisu. Advisors: Dra Graciela De Antoni- Dra Analía Abraham
- Ingeniera en Alimentos Angela Leon Pelaez . Advisors: Dra Graciela De Antoni –Dra Leda Giannuzzi
- Bioquímica Patricia Bolla. Advisor: Dra Graciela De Antoni- Dr. Patricio de Urza

*Magister*

- Licenciada en nutrición Angélica Quintero Flores Advisors: Dra Graciela De Antoni- Dra Analía Abraham