

CURRÍCULUM VITAE

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Biographical Information:

Document	DNI 17.188.574
Citizenship	Argentinean
Place of Birth	La Plata, Argentina
Data of Birth	October 6, 1964
Marital Status:	Married
Gender	Male

Degrees Fellowships and Positions held

1989 Biochemist, School of Sciences, University of La Plata, Argentina.

1995-2000 Fellow of CONICET (National Council of Science and Technology)

2000 PhD in Sciences, National University of La Plata, Argentina.

Thesis subject: Development and characterization of allergenic extracts for allergy diagnosis and study of the humoral immune response in patients with cow's milk allergy and latex allergy.

2000-2003 Posdoctoral Fellow of CONICET

2003-present Researcher of CONICET

2006-present Associated Professor of Immunology, School of Sciences, University of La Plata.

University appointments

- 1992-1994. Head Laboratory Assistant, course of Pathological Biochemistry. Biochemistry, School of Sciences, University of La Plata, Argentina.
- 1993-1995. Research Fellow of University of La Plata, Argentina.
- 1995-2000. Research Fellow of CONICET.
- 2000-2002. Postdoctoral Fellow of CONICET.
- 1991-2004. Assistant, Immunology. School of Sciences, University of La Plata, Argentina.
- 2004-2005 Head of Laboratory, Immunology. School of Sciences, University of La Plata, Argentina.
- 2006-present. Professor of Immunology. School of Sciences, National University of La Plata, Argentina.

Post graduated courses attended (national and international): 31 (since 1988)

Graduate courses taught: 65

Organization of courses, symposia and congresses: 34

Presentations and special lectures: 105.

Speaker in post-graduated courses: 65

Speaker in congress, meetings and symposia: 40

Research work presented at Meetings & Symposia: 136.

- National Meetings: 73
- International Meetings: 63

Referred scientific publications:

1- Docena G., Fernández R., Chirido F., Fossati C. Identification of casein as the major allergenic and antigenic protein of cow milk. *Allergy* 1996; 51,6: 412-416. pISSN: 0105-4538.

2- Di Plácido P, Corbetta M, Docena G, Fernández R, Benítez P, Marti G, Bertolotti A, Etcheverry R, y Ocampo M. Prevalencia de hipersensibilidad al látex en pacientes con mielomeningocele. *Rev. de Cir. Infantil* 1997; 7 (1): 36-40.

3- Docena G., Fernandez R., Ocampo M., Fossati C. Serological investigation of latex allergy in Argentina. *Allergy and Asthma Proceedings* 1999; 20 (2): 99-106. pISSN: 1088-5412.

4- Docena GH, Benítez P, Campos RE, Macia A, Fernández R, Fossati CA. Detection of allergens in *Aedes albifasciatus* mosquito (Diptera: Culicidae) extracts by immunological methods.. *Journal of Investigational Allergology & Clinical Immunology* 1999; 9(3): 165-71. pISSN: 1018-9068.

5- Docena G, Fernández R., Benítez P., Fossati CA. Identification of allergenic proteins in condoms by immunoenzymatic methods. *Annals of Allergy Asthma Immunology* 2000; 85: 77-83. pISSN: 1081-1206.

- 6- Docena G, Rozenfeld P, Fernández R and Fossati CA. Evaluation of the residual antigenicity and allergenicity of cow milk substitutes by in vitro tests. *Allergy* 2002; 57 (2), 83-91. pISSN 0105-4538.
- 7- Rozenfeld P, Docena GH, Añón MC, Fossati CA. Detection and identification of a soy protein component that cross reacts with caseins from cow milk. *Clinical & Experimental Immunology* 2002; 130 (1): 49-58. pISSN: 0009-9104.
- 8- Docena GH, Fossati CA. Serological prevalence of anti-latex IgE antibodies in unselected blood donors in Argentina. *Journal of Investigational Allergology & Clinical Immunology* 2005; 15 (1): 46-9. pISSN: 1018-9068.
- 9- Lareu F, Curciarello R; Docena GH y Petruccelli S. Análisis Inmunoquímico de la variedad de soja Radien a los efectos de evaluar su utilidad como sustituto de leche bovina en pacientes alérgicos. *Proceedings, X Congreso Argentino de Ciencia y Tecnología de los Alimentos. 1º Simposio Internacional de Nuevas Tecnologías. Asociación Argentina de Tecnólogos Alimentarios-CyTAL (AATA). 2005; 3: 887-894.*
- 10- Bezrodnik L, Gómez Raccio A, Canil L, Rey MA, Carabajal P, Fosatti CA, Docena GH. Hypogammaglobulinemia secondary to cow-milk allergy in children under 2 years of age. *Immunology* 2007 Sep;122(1):140-6. pISSN: 0009-9104.
- 11- Di Sabatino A, Pender SLF, Jackson CL, Prothero JD, Gordon JN, Picariello L, Rovedatti L, Docena GH, Monteleone G, Rampton DS, Tonelli F, Corazza GR and MacDonald TT. Functional modulation of Crohn's disease myofibroblasts by anti-TNF antibodies. *Gastroenterology* 2007 Jul;133(1):137-49. ISSN: 0016-5085.
- 12- Curciarello R, Lareu F, Fossati CA, Docena GH; Petruccelli S. Immunochemical characterization of Glycine max. L merr. var Raiden, as a possible hypoallergenic substitute for cow's milk allergic patients. *Clinical & Experimental Allergy* 2008; 38: 1559-1565. ISSN: 0954-7894
- 13- Mercer N, Guzman L, Cueto Rua E, Drut R, Vasta G, Toscano M, Rabinovich GA y Docena GH. Duodenal intraepithelial lymphocytes from food allergy patients preferentially bind the glycan-binding protein galectin-3. *International Journal of Immunopathology and Pharmacology* 2009, 22 (1): 207-217. ISSN 0394-6320
- 14- Epstein J, Docena GH, MacDonald TT and Sanderson IR. Curcumin suppresses p38 MAPK activation, reduces IL-1 β and MMP-3, and enhances IL-10 expression in inflammatory bowel disease. *Br J Nutr.* 2010 Mar;103(6):824-32. ISSN 0007-1145
- 15- Bottasso O, Docena GH, Stanford JL, Grange JM. Chronic inflammation as a manifestation of defects in immunoregulatory networks: implications for novel therapies based on microbial products. *Inflammopharmacology.* 2009 Aug;17(4):193-203. Epub 2009 Jul 14. ISSN 1568-5608
- 16- Docena GH, Rovedatti L, Leakey NAB, Kruidenier L, Di Sabatino A, MacDonald TT. Down-regulation of p38 mitogen-activated protein kinase activation and pro-inflammatory cytokine production by mitogen-activated protein kinase inhibitors in inflammatory bowel disease. *Clinical & Experimental Immunology* 2010;162 (1): 108-115. ISSN 00099104

- 17- Cagnola H, Scaravonati R, Cabanne A, Bianchi C, Gruz F, Errea A, Zambenardi A, Meier D, Chirido F, Docena G, Gondolesi G and Rumbo M. Evaluation of calprotectin levels in intestinal content as an early marker for graft rejection. *Transplantation Proceedings* 2010 42(1), 57-61. ISSN 0041-1345
- 18- Meier D, Cagnola H, Ramisch D, Rumbo C, Chirido FG, Docena GH, Gondolesi GE and Rumbo M. Analysis of cells draining from the abdominal cavity as a novel cell source to follow-up intestinal transplants. *Clinical and Experimental Immunology* 2010; 162 (1): 138-45. ISSN 00099104
- 19- Muglia C, Mercer N, Toscano M, Schattner M, Pozner R, Cerliani JP, Papa Gobbi R, Rabinovich GA and Docena GH. The glycan-binding protein galectin-1 controls survival of epithelial cells along the crypt-villus axis of small intestine. *Cell Death & Disease* 2011 May 26;2:e163. ISSN 2041-4889
- 20- Smaldini P, Curciarello R, Candreva AM, Rey MA., Fossati Carlos A., Petrucelli Silvana, Docena Guillermo H. In vivo evidence of cross-reactivity between cow's milk and soybean proteins in a mouse model of food allergy. *International Archives of Allergy & Immunology* 2012; 158(4): 335-346.
- 21- Cellerino Karina, Binaghi María, Cagnasso Carolina, Mambrín M, Docena Guillermo, Polenta Gustavo, Valencia Mirta y López Laura B. Alcances de SDS-PAGE y blotting en la detección de alérgenos de leche en productos cárnicos. *Proceedings XIII Congreso CYTAL-AATA Congreso Argentino de Ciencia y Tecnología de Alimentos*. 2011: 1-6.
- 22- Cellerino Karina, Binaghi María, Cagnasso Carolina, Docena Guillermo, Polenta Gustavo, Valencia Mirta y López Laura B. Alcances de SDS-PAGE y blotting en la detección de alérgenos de soja en productos cárnicos. *Proceedings XIII Congreso CYTAL-AATA Congreso Argentino de Ciencia y Tecnología de Alimentos*. 2011: 1-5.
- 23- Karina Cellerino, María Julieta Binaghi, Carolina Cagnaso, Guillermo H Docena, Laura López. Comparación de SDS-PAGE y métodos inmunoquímicos para la detección de proteínas de soja en productos cárnicos crudos y cocidos. *Revista Chilena de Nutrición*; 39: 52-57. ISSN 0717-7518
- 24- Parisi CAS, Smaldini PL, Gervasoni ME, Maspero JF, Docena GH. Severe allergic reactions to Sabin vaccine in children with cow's milk allergy. *Clinical & Experimental Allergy* 2013, Feb; 43(2):249-54.
- 25- Curciarello R, González V, Barrios I, Bruno Blanch L, Parisi G, Fossati CA, Petrucelli S and Docena GH. Identification and characterization of a cross-reactive peptide of the soybean's α subunit of β -conglycinin with caseins. *PLOS ONE* 2012 (in revision).
- 26- Candreva AM, Smaldini PL, Curciarello R, Cauerff, A, Fossati CA, Docena GH, Petrucelli S. Soybean Gly m Bd 30K/P34 triggers a hypersensitivity response in a mouse model of cow's milk allergy. *International Archives of Allergy & Immunology* 2012 (in revision)

- 27- Smaldini P, Stanford J, Fossati CA, Docena GH. Modulatory effect of Actinomycetales genera on activation of gut epithelial cells and inhibition of Nuclear Factor- κ B pathway. *Cellular Microbiology* 2012 (in press).
- 28 Ibañez A. E, Smaldini P, Coria L. M, Delpino M. V, Grossi Gonçalves Pacífico L, Oliveira S. C, Fossati C. A, Giambartolomei G. H, Docena G. H, Cassataro J. Unlipidated Outer Membrane Protein Omp16 (U-Omp16) from *Brucella* spp. as nasal adjuvant induces a Th1 immune response and modulates the Th2 allergic response to Cow's Milk Proteins. *PLOS ONE* 2012 (in press).
- 27- Paolo Biancheri, Paolo Giuffrida, Guillermo Docena, Thomas T MacDonald, Gino Roberto Corazza, Antonio Di Sabatino The role of transforming growth factor (TGF) β in modulating the immune response and fibrogenesis in the gut. *Cytokine Growth Factor Rev.* 2014;25 (1): 45-55. pii: S1359-6101(13)00097-X. doi: 10.1016/j.cytogfr.2013.11.001. ISSN: 1359-6101.
- 28- Guillermo Docena. Enfermedades alérgicas y alergia alimentaria a leche de vaca: potenciales soluciones para un problema en constante crecimiento. *Ciencia e Investigación Divulgación* 2013, tomo 63 nro. 1: 5-24. ISSN: 0009-6733.
- 29- Renata Curciarello, Paola L Smaldini, Angela M Candreva, Virginia González, Gustavo Parisi, Ana Cauehrff, Ivana Barrios, Luis Bruno Blanch, Carlos A Fossati, Silvana Petruccelli and Guillermo H Docena. Targeting a cross-reactive Gly m 5 soy peptide as responsible for hypersensitivity reactions in a milk allergy mouse model. *PLoS One.* 2014 Jan 9;9(1):e82341. doi: 10.1371/journal.pone.0082341. ISSN: 1932-6203.
- 30- Meier Dominik, Docena Guillermo, Ramisch Diego, Toscanini Ulises, Berardi Gabriela, Gondolesi Gabriel E and Rumbo Martín Immunological status of Isolated Lymphoid Follicles after Intestinal Transplantation. *American Journal of Transplantation* 2014 Aug 1. doi: 10.1111/ajt.12797. ISSN: 1600-6143.
- 31- Smaldini Paola L, Ibañez Andrés E, Fossati Carlos A, Cassataro Juliana, Docena Guillermo H. Oral delivery of *Brucella* spp. recombinant protein U-Omp16 abrogates the IgE-mediated milk allergy. *Human Vaccine & Immunotherapeutics.* 2014 May 1;10(7). ISSN: 2164-554X.
- 32- Cagnasso Carolina Elisa, Martín María Eugenia, Cellerino Karina, Audisio Fabiola, Docena Guillermo, Polenta Gustavo, López Laura Beatriz Electrophoretic and immunochemical methods for the detection of milk, soy and egg proteins in commercial mix products. *Revista Chilena de Nutrición* 2014, Vol 41 (4): 412-9. ISSN: 0717-7518.
- 33- Candreva AM, Smaldini PL, Curciarello R, Cauerrff, A, Fossati CA, Docena GH, Petruccelli S. Soybean Gly m Bd 30K/P34 triggers a hypersensitivity response in a mouse model of cow's milk allergy. *Allergy Asthma and Immunology Research* 2015; 7(1): 60–68. ISSN: 2092-7355.
- 34- Smaldini Paola, Docena Guillermo. New Insights in Immunotherapies for Food Allergies. A Path between the Mouse Model and the Allergic Patient. *Austin Journal of Allergy* 2015; 2 (1): 1016-1021. ISSN: 2378-6655

35- Smaldini Paola Lorena, Orsini Delgado María Lucía, Fossati Carlos Alberto and Docena Guillermo. Orally-induced intestinal CD4⁺ CD25⁺ FoxP3⁺ Treg Controlled Undesired Responses towards Oral Antigens and Effectively Dampened Food Allergic Reactions. Plos One 2015 (in press).

36- Cecilia I, Muglia, Rodrigo Papa Gobbi, Paola Smaldini, Lucía Orsini Delgado, Martín Candia, Carolina Zanuzzi; Alicia Sambuelli, Andrés Rocca, Marta A. Toscano, Gabriel A. Rabinovich, Guillermo H. Docena. Inflammation controls sensitivity of human and mouse intestinal epithelial cells to galectin-1. Journal of Cell Physiology 2015 (in press).

37- Moronta Julian, Smaldini Paola L., Docena Guillermo H., Añón María CrisHaptides of Amaranth was targeted as containing sequences with potential anti-inflammatory properties. Journal of Functional Foods (2015) (in press).

Books and book chapters:

1- Asthma and atopy by Docena Guillermo H. in Molecular Immunology: New frontiers in Medicine, by Rabinovich Gabriel. Editorial Médica Panamericana, Buenos Aires, Argentina.

2- Introduction to Immunology by Carlos A. Fossati, Fernando Chirido, Guillermo Docena and Martín Rumbo, in Endocrine Physiopathology: Biochemistry and Diagnosis by Calandra Ricardo. Editorial Laboratorios Montpellier, Buenos Aires 2003 (in press).

3- Asthma and atopy: epidemiology and physiopathogenesis, by Docena Guillermo and Ocampo Marcelo. Program of Continuous Medical Education, Argentinean Association of Allergy and Clinical Immunology, 2004, Chapter 1; pages 1-18.

4- Immune response. Antibodies, allergy, vaccine and human reproduction. Ciencias Naturales y Exactas, Categoría: Colección Ciencia Joven, by Ana Cauherhff, Guillermo Docena, Carlos Fossati, Fernando Goldbaum. Editor Fernando Goldbaum. Editorial EUDEBA Año 2006. ISBN: 950-23-1482-4

5- Healthy and nutritional aspects of bakery products. Chapter VIII: Productos de panificación dirigidos a grupos especiales de la población, Gabriela Pérez, Guillermo Docena y Renata Curciarello. Editores: Lutz M León A. Editorial de la Universidad de Valparaíso, Chile. 2008. Páginas 174-189. ISBN 9789562140942

6- Detección de soja en sistemas modelo de fiambres cocidos con soja y en productos cárnicos comerciales utilizando métodos inmunoquímicos. Cellerino K, Binaghi MJ, Cagnasso CE, Docena G, López LB. Libro: Análisis físicos, químicos y sensoriales. Primera Edición Córdoba: Universidad Nacional de Córdoba, 2013. E-Book. ISBN 978-950-33-1070-0.

7- Introduction to Immunology, Carlos Fossati, Fernando Chirido, Guillermo Docena y Martín Rumbo. Libro: Fisiopatología molecular y clínica endocrinológica, de R. Calandra y M. Barontini (Editores), M. Pisarev, G. Juvenal y R. Rey (Editores Asociados). Páginas 103-116. Editorial Lilly, Buenos Aires, Argentina, 2015. ISBN 978-987-45792-0-1.

Research awards

-As Director of research projects: 15

-Award ArgenINTA a la Calidad Agroalimentaria (2011).

-First Prize XXXVIII Congreso Anual de la Asociación Argentina de Alergia e Inmunología Clínica (2015).

Posgraduate training

-2005, 2007, 2009: Invited Researcher at the Institute of Cell and Molecular Sciences, Queen 's Mary University, London, England (under the supervision of Dr TT MacDonald).

Graduated and post-graduated students supervised

Supervision of students (11), CONICET fellows as PhD students (14), CONICET researchers (3).

Professional affiliations

- **Titular Member of the Argentinean Society of Immunology (Vice-President 2014 and President 2015). Permanent Secretary of Latinoamerican Association of Immunology (ALAI) (from 2015)**
- **Titular Member of the Argentinean Association of Allergy and Clinical Immunology**
- **Titular Member of the Society of Allergy and Clinical Immunology of La Plata**
- **Titular Member of Society of Mucosal Immunology**

Scientific

Reviewer and editor of several international and national journals

Languages

- **English: First Certificate in English Practice, 1982 (British-Argentinean Cultural Academy, La Plata - Argentina); Institutional TOEFL, November 2003 (ICANA, Buenos Aires - Argentina).**
- **German: Zertifikat, 1991 (Goethe Institut, La Plata, Argentina)**
- **Italian: Spoken and written course in Voghera, 1991 (Pavia, Italy)**