

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format on preceding page for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
GONZÁLEZ-FLECHA, Beatriz		Assistant Professor	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Buenos Aires, Buenos Aires, Argentina	M.S.	1987	Biochemistry
University of Buenos Aires, Buenos Aires, Argentina	Ph.D.	1991	Biophysics
Harvard School of Public Health, Boston, MA.	Postdoc	1992-1996	Molecular Toxicology

POSITIONS AND HONORS:**Professional Experience**

- 1983-1987 Research Trainee/Teaching Assistant, Dept. of Biological Chemistry, University of Buenos Aires, Argentina
- 1987-1991 Instructor, Dept. of Biological Chemistry, University of Buenos Aires, Argentina.
- Summer 1991 Post-Doctoral Research Fellow, Pulmonary Division, Michael Reese Hospital-University of Illinois at Chicago
- 1992-1996 Post-Doctoral Research Fellow, Dept. of Molecular and Cellular Toxicology. Harvard School of Public Health, Boston
- 1996-1997 Instructor, Dept. of Molecular and Cellular Toxicology, Harvard School of Public Health. Boston,
- 1998- Assistant Professor, Dept. of Environmental Health. Harvard School of Public Health. Boston
- 1999-2001 Mark and Catherine Wrinkler Assistant Professor of Molecular Biology and Environmental Health, Depart. of Environmental Health, Harvard School of Public Health, Boston

Honors:

- 1988-1992 Research Fellowship, University of Buenos Aires, Argentina (2)
- 1988 Award for Original Paper, Argentinean Society for Cardiology
- 1989 Young Scientist Award for Excellence in Research, School of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- 1989 Latin American Biophysical Society (SOBLA) Travel Grant Award to attend the First Iberoamerican Biophysical Congress, Sevilla, Spain
- 1991 Faculty Prize. Thesis Dissertation. School of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- 1992 International Federation for Cell Biology-European Cell Biology Organization. Travel Grant Award to attend the Fifth International Congress on Cell Biology, Madrid, Spain
- 1992-1994 PEW Latin American Fellowship (post-doctoral)
- 1996 Young Investigator Award. International Society for Free Radical Research.
- 1998-2001 Parker B. Francis Fellowship in Pulmonary Research

SELECTED PUBLICATIONS:

1. Ferreira R, Burgos M, Llesuy S, Molteni L, Milei J, González-Flecha B. (1989) Reduction of reperfusion injury with mannitol cardioplegia. *Ann Thorac Surgery* 48:77-84.
2. Llesuy SF, Milei J, González-Flecha BS, Boveris A. (1990) Myocardial damage induced by doxorubicins: hydroperoxide-initiated chemiluminescence and morphology. *Free Radic Biol Med* 8:259-264.

3. Ferreira R, Milei J, Llesuy S, González-Flecha B, Hourquebie H, Molteni L, de Palma C, Paganini A, Scervino L, Boveris A. (1991) Antioxidant action of vitamins A and E in patients submitted to coronary artery bypass surgery. *Vasc Surgery* 25:191-195.
 4. González-Flecha B, Llesuy S, Boveris A. (1991) Hydroperoxide-initiated chemiluminescence: an assay for oxidative stress in biopsies of heart, liver, and muscle. *Free Radic Biol Med* 10:93-100.
 5. González-Flecha BS, Repetto M, Evelson P, Boveris A. (1991) Inhibition of microsomal lipid peroxidation by alpha-tocopherol and alpha-tocopherol acetate. *Xenobiotica* 21:1013-1022.
 6. González-Flecha B, Cutrin JC, Boveris A. (1993) Time course and mechanism of oxidative stress and tissue damage in rat liver subjected to in vivo ischemia-reperfusion. *J Clin Invest* 91:456-464.
 7. González-Flecha B, Evelson P, Sterin-Speziale N, Boveris A. (1993) Hydrogen peroxide metabolism and oxidative stress in cortical, medullary and papillary zones of rat kidney. *Biochim Biophys Acta* 1157:155-161.
 8. González-Flecha B, Reides C, Cutrin JC, Llesuy SF, Boveris A. (1993) Oxidative stress produced by suprahepatic occlusion and reperfusion. *Hepatology* 18:881-889.
 9. González-Flecha B, Demple B. (1994) Intracellular generation of superoxide as a by-product of *Vibrio harveyi* luciferase expressed in *Escherichia coli*. *J Bacteriol* 176:2293-2299.
 10. Llesuy S, Evelson P, González-Flecha B, Peralta J, Carreras MC, Poderoso JJ, Boveris A. (1994) Oxidative stress in muscle and liver of rats with septic syndrome. *Free Radic Biol Med* 16:445-451.
 11. Wilhelm-Filho D, González-Flecha B, Boveris A. (1994) Gill diffusion as a physiological mechanism for hydrogen peroxide elimination by fish. *Braz J Med Biol Res* 27:2879-2882.
 12. González-Flecha B, Boveris A. (1995) Mitochondrial sites of hydrogen peroxide production in reperfused rat kidney cortex. *Biochim Biophys Acta* 1243:361-366.
 13. González-Flecha B, Demple B. (1995) Metabolic sources of hydrogen peroxide in aerobically growing *Escherichia coli*. *J Biol Chem* 270:13681-13687.
 14. Llesuy S, Milei J, Picone V, González-Flecha B, Beigelman R, Boveris A. (1995) Effect of vitamins A and E on ischemia-reperfusion damage in rabbit heart. *Mol Cell Biochem* 145:45-51.
 15. González-Flecha B, Evelson P, Ridge K, Sznajder JI. (1996) Hydrogen peroxide increases Na⁺/K⁽⁺⁾-ATPase function in alveolar type II cells. *Biochim Biophys Acta* 1290:46-52.
 16. Harris ZL, Ridge KM, González-Flecha B, Gottlieb L, Zucker A, Sznajder JI. (1996) Hyperbaric oxygenation upregulates rat lung Na,K-ATPase. *Eur Respir J* 9:472-477.
 17. González-Flecha B, Demple B. (1997) Homeostatic regulation of intracellular hydrogen peroxide concentration in aerobically growing *Escherichia coli*. *J Bacteriol* 179:382-388.
 18. González-Flecha B, Demple B. (1997) Transcriptional regulation of the *Escherichia coli* oxyR gene as a function of cell growth. *J Bacteriol* 179:6181-6186.
 19. González-Flecha B, Demple B. (1999) Role for the oxyS gene in regulation of intracellular hydrogen peroxide in *Escherichia coli*. *J Bacteriol* 181:3833-3836.
 20. Evelson P, González-Flecha B. (2000) Time course and quantitative analysis of the adaptive responses to 85% oxygen in the rat lung and heart. *Biochim Biophys Acta* 1523:209-216.
 21. González-Flecha B, Demple B. (2000) Genetic responses to free radicals. Homeostasis and gene control. *Ann N Y Acad Sci* 899:69-87.
 22. Gurgueira SA, Lawrence J, Coull B, Krishna Murthy GG, González-Flecha B. (2002) Rapid increases in the steady-state concentration of reactive oxygen species in the lungs and heart after particulate air pollution inhalation. *Environ Health Perspect.* 110: 749-755.
 23. Tao, F., González-Flecha, B., Kobzik, L. (2002) Reactive oxygen species in pulmonary inflammation by ambient particulates. *Free Radic. Biol. & Med.* Submitted.
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