

GRANT NUMBER: \_\_\_\_\_

### BIOGRAPHICAL SKETCH

Give the following information for all *new* key personnel.  
Copy this page for each person.

|                            |  |
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| NAME<br>Maria Giulia Salgo | POSITION TITLE<br>Postdoctoral Research Fellow |
|----------------------------|--|

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing. Include postdoctoral training.)

| INSTITUTION AND LOCATION       | DEGREE<br>(if applicable) | YEAR(s) | FIELD OF STUDY |
|--------------------------------|---------------------------|---------|----------------|
| University of Cagliari (Italy) | BS                        | 1981    | Biology        |
| University of Cagliari (Italy) | PhD                       | 1987    | Biology        |

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

#### POSITIONS HELD:

Postdoctoral Researcher, University of Pittsburgh (1989-1990)  
Postdoctoral Researcher, University of Southern California (1991-1993)  
Postdoctoral Researcher, Louisiana State University (1993-1996)  
Assistant Professor/Research, Louisiana State University (1996-Present)

#### HONORS:

Regione Autonoma Della Sardegna Fellowship (1989)  
Ministero Della Università and Della Ricerca Scientific and Technological Fellowship (1990-1994)

#### PUBLICATIONS:

Competitive reactions of peroxynitrite with 2'-deoxyguanosine and 7,8-dihydro-8-oxo-2'-deoxyguanosine (8-oxodG): relevance to the formation of 8-oxodG in DNA exposed to peroxynitrite. R.M. Uppu, R. Cueto, G.L. Squadrito, M.G. Salgo, W.A. Pryor. *Free Radic.Biol.Med.* 21: 407-411 (1996).

Trolox inhibits peroxynitrite-mediated oxidative stress and apoptosis in rat thymocytes. M.G. Salgo, W.A. Pryor. *Arch.Biochem.Biophys.* 333: 482-488 (1996).

Lipid ozonation products (LOP) activate phospholipases (PLA2 and PLC) in human bronchial epithelial cells. R. Kafoury, W.A. Pryor, G.L. Squadrito, M.G. Salgo, M. Friedman. *Am.J.Respir.Dis.Crit.Care Med.* 153: A305 (1996).

Lipid ozonation products (LOP) act as ozonation signal transduction molecules in alveolar epithelium *in vitro*. J.M. Cheek, G.L. Squadrito, M.G. Salgo, W.A. Pryor, C.G. Plopper. *Am.J.Respir.Dis.Crit.Care Med.* 153: A810 (1996).

Reactions of peroxynitrite with 2'-deoxyguanosine, 7,8-dihydro-8-oxo-2'-deoxyguanosine and calf thymus DNA. R.M. Uppu, R. Cueto, G.L. Squadrito, M.G. Salgo, W.A. Pryor. FASEB Annual Meeting, New Orleans, LA, June 2-6, 1996, *FASEB J.* 10:A1399 (1996).

Peroxynitrite causes DNA nicks in plasmid pBR322. M.G. Salgo, K. Stone, G.L. Squadrito, J.R. Battista, W.A. Pryor. *Biochem.Biophys.Res.Comm.* 210:1025-1030 (1995).