

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Photocopy this page or follow this format for each person.

NAME Maria Isabel Torres-Arzayus	POSITION TITLE Research Associate		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
National University of Colombia, Bogota, Colombia	Diploma	1989	Pharmaceutical Chemistry
London University, Wye College, UK	M.Sc.	1993	Plant Biotechnology
London University, Wye College, UK	Ph.D.	1997	Molecular 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 to 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.**

Professional Experience

1990-1991 Research Assistant, Department of Pharmacology, National University of Colombia, Colombia
 1991-1992 Assistant to the Director, Biotechnology Institute, National University of Colombia, Colombia
 1994 Visiting Researcher, Gembloux University, Gembloux, Belgium
 1995 Instructor of plant pathology, London University, Wye College, UK
 1997 Research Fellow, International Center of Physics, National University of Colombia, Colombia
 1998-1999 Research Associate, Boston University, School of Medicine, Department of Microbiology, Boston, MA
 1999-Present Research Associate, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA

Awards and Honors

1985-1989 Fellow, National University of Colombia
 1992-1993 Fellow, The British Council, U.K.
 1994-1997 Fellow, National Council of Science and Technology (Colombia)

Publications

1. **Torres-Arzayus MI**, Mantell SH. Transgenic *Nicotiana benthamiana* carrying the coat protein gene of Yam Mosaic Virus. Proceedings of the International Workshop "Yam Network". Barbados, October 1996.

2. **Torres-Arzayus MI**, Vaca JC, Penaranda J. Virus diagnosis in tropical fruits. Proceedings of the International Congress of Plant Tissue and Organ Culture. Israel July 1998.
3. Taccioli GE, Amatucci AG, Beamish HJ, Gell D, Xiang XH, **Torres-Arzayus MI**, Jackson SP, Marshak Rothstein A, Jeggo PA, Herrera VLM. Targeted disruption of the catalytic subunit of the DNA-dependent protein kinase gene in mice confers severe combined immunodeficiency. *Immunity* 1998; 9: 355-366.
4. Singleton BK, **Torres-Arzayus MI**, Rottinghaus ST, Taccioli GE, Jeggo PA. The C terminus of Ku80 activates the DNA-dependent protein kinase catalytic subunit. *MCB* 1999; 19: 3267-3277.
5. Jimenex G, Bryntesson F, **Torres-Arzayus MI**, Priestley A, Beeche M, Saitoll S, Sakaguchill K, Appella E, Jeggo P, Taccioli GE, Wahl G, Hubank M. DNA-dependent protein kinase is not required for the p53 dependent response to DNA damage. *Nature* 1999; 400: 81-83.