

BIOGRAPHICAL SKETCH

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NAME Richard Calderone		POSITION TITLE Professor and Chair	
eRA COMMONS USER NAME CALDEROR			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Ohio University, Athens, O	B.S.	1965	Biology
West Virginia University, Morgantown, W.Va	M.S.	1967	Microbiology
West Virginia University	Ph.D.	1970	Microbiology
Temple University Skin & Cancer Hosp., Phil. PA	Post-doc	1971-73	Medical Mycology

A. Positions and honors**Positions and employment**

Postdoctoral fellow – Temple University Medical Center, Skin & Cancer Hospital 1971-73
 Assist. Professor – Georgetown University, Dept of Microbiology & Immunology, 1974-1978
 Assoc. Professor, 1978-1985, same
 Professor – 1985 – present, same
 Chair, Department of Microbiology & Immunology, March, 2005-present
 Co-Director, Center for Infectious Diseases, Georgetown University, 2004- current
 Co-Director, Ph.D. Program in Global Infectious Diseases (GID) - current

Other experiences and professional memberships**Editorial Boards, etc.**

Infection and Immunity, ASM Press Inc., 2003-current
 Editor, FEMS Yeast Research, Elsevier Publishing Co. 2006-current
 Clinical Microbiological Reviews, ASM Press, Inc., 2002-current
 Iberoamericana, Bilbao, Spain, 1997-current
 (Reviewer for other journals, Jan, 2004) Eukaryotic Cell, Microbiology, Molecular Microbiology
 Chair, 5th International Conference on Candida and Candidiasis, 1999, Charleston, SC.
 Co-chair, 1st, 2nd & 3rd Conferences on Candida and Candidiasis
 American Society for Microbiology, Previous Div. F Chair & Co-Chair
 Previous member, NIH Study Sections, AARR-4, BM2 & numerous ad hoc study sections
 Division F Lecturer, 2005, Atlanta, Georgia

B. Selected peer reviewed publications or manuscripts in press (of over 100).

1. Menon, V., F. DeBernardis, R. Calderone and N. Chauhan. 2008. Transcriptional profiling of the *Candida albicans* Ssk1p receiver domain point mutants and their virulence. FEMS Yeast Res. [Epub ahead of print]
2. Ma, Y., J. Qiao, W. Liu, Z. Wan, **R. Calderone** and R. Li. 2008. Y. Zi, The sho1 sensor regulates growth, morphology, and oxidant adaptation in *Aspergillus fumigatus* but is not essential for development of invasive pulmonary aspergillosis. Infect Immun. 76(4):1695-701.

3. Chauhan, N., M. Kruppa, and **R. Calderone**. 2007. The Ssk1p response regulator and Chk1p histidine kinase mutants of *Candida albicans* are hypersensitive to fluconazole and voriconazole. *Antimicrob Agents Chemother*. 51(10):3747-51.
4. Gomez-Raja, J., E. Andaluz, B. Magee, **R. Calderone** and . Larriba. 2007. A single SNP, G929T (Gly310Val), determines the presence of a functional and a non-functional allele of HIS4 in *Candida albicans* SC5314: detection of the non-functional allele in laboratory strains. *Fungal Genet Biol*. 45(4):527-41.
5. Andaluz, E., J. Gomez-Raja, T. Cuidad, E. Rustchenko, **R. Calderone** and G. Larriba. 2007. Loss and fragmentation of chromosome 5 are major events linked to the adaptation of rad52 mutant strains of *Candida albicans* to sorbose. *Fungal Genetics Biol* 44:789-798.
6. Walia, A., and R. Calderone. 2007. The SSK2 MAPKKK of *Candida albicans* is required for oxidant adaptation in vitro. *FEMS Yeast Res*. 8(2):287-99.
7. Arana, D., R. Alonso-Monge, C. Du., **R. Calderone** and J. Pla. 2007. Differential susceptibility of MAP kinase pathway mutants to oxidative-mediated killing by phagocytes in the fungal pathogen *Candida albicans*. *Cell. Microbiol*.
8. Lamarre, O. Ibrahim-Granet, C. Du., **R. Calderone**, and J-P Latge. 2007 Characterization of the *SKN7* ortholog of *Aspergillus fumigatus*. *Fungal Genetics Biol*. (in press)
9. Menon, V., D. Li, N. Chauhan, R. Rajnarayanan, A. Dubrovskaya, A. West & **R. Calderone**. 2006. Functional studies of the Ssk1p response regulator protein of *Candida albicans* as determined by phenotypic analysis of receiver domain mutants. *Mol. Microbiol*. 62:997-1013.
10. Chauhan, N., J-P Latge, and **R. Calderone**. 2006. *Candida albicans* and *Aspergillus fumigatus*: oxidant adaptation and signal transduction. *Nature Microbiol. Rev*. 4: 435-444.
11. Sarbane, S., **R. Calderone**, J-P Latge, et al. 2006. Glycosylphosphatidylinositol-anchored Ecm33p influences conidial cell wall biosynthesis in *Aspergillus fumigatus*. *Appl. Environ. Microbiol*. 72:3259-3267.
12. Andaluz, E., T. Cuidad, J Gomez-Raja, **R. Calderone**, & G. Larriba. 2006. Rad52 depletion in *Candida albicans* triggers both the DNA damage checkpoint and filamentation accomplished by but independent of expresión of hypha specific genes. *Mol. Microbiol*. 59:1452-1472.
13. Du, C., J. Sarfati, J-P Latge, & **R. Calderone**. 2006. The sakA (Hog1) and tsch (Sln1) of *Aspergillus fumigatus*: role in oxidant adaptation. *Med. Mycology*. 44:211-218.
14. Kruppa, M., & **R. Calderone**, 2006. Two-component signal transduction in human fungal pathogens, *FEMS Yeast Res*. 6:149-159.
15. Chauhan, N., T. Cuidad, A Rodriguez-Alejandre, G. Larriba, **R. Calderone**, and E. Andaluz. 2005. Virulence and karyotype análisis of *rad 52* mutants of *Candida albicans*: regeneration of a truncated chromosome of a reintegrant strain (*rad52/RAD52*) in the host. *Infect Immun*. 73:8069-8078.
16. Du, C., **R. Calderone**, J. Richert, & D. Li. 2005. Deletion of the *SSK1* response regulator gene in *Candida albicans* contributes to enhanced killing by human PMNs. *Infect. Immun*. 73:865-971.
17. Chauhan, N., T. Cuidad, A Rodriguez-Alejandre, G. Larriba, **R. Calderone**, and E. Andaluz. 2005. Virulence and karyotype análisis of *rad 52* mutants of *Candida albicans*: regeneration of a truncated chromosome of a reintegrant strain (*rad52/RAD52*) in the host. *Infect Immun*. 73:8069-8078.

18. Li, D, V. Gurskova, M. Sheridan, N. Chauhan, and **R. Calderone**. 2004. Studies on the regulation of the two-component histidine kinase gene *CHK1* in *Candida albicans* using the heterologous *lacZ* reporter gene. *Microbiology* 150: 3305-3313.
19. Kruppa, M., B. Krom, R. Cihlar, and **R. Calderone**. 2004. The two-component signal transduction protein Chk1p regulates quorum sensing in *Candida albicans*. *Eukaryotic Cell* 3: 1062-1065.
20. Cuidad, T., E. Andaluz, N. Lue, N. Gow, **R. Calderone** and G. Larriba. 2004. Homologous recombination in *Candida albicans*: role of Rad52p in DNA repair, integration of linear DNA fragments, prevention of chromosome loss, and telomere length. *Mol. Microbiol.* 53:1177-1194.
21. Singh, P., N. Chauhan, A. Ghosh, F. Dixon, and **R. Calderone**. 2004. The *SKN7* of *Candida albicans*: mutant construction and phenotype. *Infect. Immun.* 72:2390-2394.
22. Romani, L., C. Montagnoli, S. Bozza, K., A. Spreca, **R. Calderone**, F. Bistoni, and P. Puccetti. 2004. The exploitation of distinct recognition receptors in dendritic cells determines the full range of host immune relationships with *Candida albicans*. *Internat. Immunol.* 16:1-16.
23. Kruppa, M., M. Rizk, T. Meiller and **R. Calderone**. 2004. The histidine kinases of *Candida albicans*: regulation of mannan synthesis. *FEMS Yeast Res.* 409-416.

C. Texts – co-edit or edit

San-Blas, G & R. Calderone. 2008. Vol 3. Pathogenic fungi: insights in molecular biology, Caister Academic Press, Norfolk UK.

Calderone, R. & R. Cihlar. 2008. Methodologies in Candida and candidiasis research. (in press)

San-Blas, G. & R. Calderone. 2004. Vol 2. Pathogenic Fungi: host interactions and emerging strategies for Control, Caister Press, UK

San-Blas, G. & R. Calderone. 2004. Vol 1. Pathogenic fungi: structural biology and taxonomy, Caister Press, UK

Calderone, R., ed. Candida and candidiasis, 2003, ASM Press, Washington DC.

Calderone, R. & R. Cihlar. 2001. Fungal pathogenesis, Marcel-Dekker, US.