

# Stanford

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## Joseph McGuire

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### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Dermatology

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Biology of the keratinocyte in inherited blistering diseases.

1. Studies include cytokine production and production of cytokine receptor antagonists (IL-1Ra)
2. Keratinocytes produce metalloproteinases in response to cytokines. These responses in keratinocytes from normal and diseased skin are studied at the protein level by zymography and at the mRNA level by RT PCR.
3. An uncommon recessively inherited blistering disease associated with premature aging of the skin is the subject of linkage studies in two U.S. families and 5 Egyptian families. These linkage studies do not show linkage to either Type I and Type II keratins. Keratinocytes from these subjects show enhanced sensitivity to UV-C.

### Publications

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#### PUBLICATIONS

- **Recessive dystrophic epidermolysis bullosa associated with mesangioproliferative glomerulonephritis and multifocal necrotizing leucoencephalopathy of the pons** *BRITISH JOURNAL OF DERMATOLOGY*  
Lehman, T. D., Morgan, T. K., Lehman, N. L., Vogel, H., McGuire, J. S.  
2004; 151 (6): 1266-1269
- **Five cases of calciphylaxis and a review of the literature.** *Journal of the American Academy of Dermatology*  
Oh, D. H., Eulau, D., TOKUGAWA, D. A., McGuire, J. S., Kohler, S.  
1999; 40 (6): 979-987
- **Prenatal diagnosis for recessive dystrophic epidermolysis bullosa in 10 families by mutation and haplotype analysis in the type VII collagen gene (COL7A1)** *MOLECULAR MEDICINE*  
Christiano, A. M., LaForgia, S., Paller, A. S., McGuire, J., Shimizu, H., UITTO, J.  
1996; 2 (1): 59-76
- **GONADAL-STERIODS MODULATE INTERLEUKIN-1 RECEPTOR ANTAGONIST MESSENGER-RNA EXPRESSION IN CULTURED HUMAN MONOCYTES** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*

Lee, B. Y., Huynh, T., PRICHARD, L. E., McGuire, J., Polan, M. L.  
1995; 209 (1): 279-285

- **Kindler's Syndrome: a study on genetic linkage to candidate genes coding for connective tissue components** *J. Invest. Dermatol*  
McGuire J, Pawlik C, Chen D  
1995
- **Histamine mobilizes calcium in cultured human keratinocytes through H-1 receptors.** *Biology of the Epidermis Tokyo*  
McGuire J, Maldonado D, Krejci N  
1992
- **HEMATOPOIETIC, LYMPHOPOIETIC, AND PROINFLAMMATORY CYTOKINES PRODUCED BY HUMAN AND MURINE KERATINOCYTES** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*  
Kupper, T. S., Horowitz, M., Birchall, N., Mizutani, H., Coleman, D., McGuire, J., Flood, P., Dower, S., Lee, F.  
1988; 548: 262-270