

PUBLICATIONS:

- van Setten, G.B., Schultz, G.S., and Macauley, S.P. 1994. Growth Factors in Human Tear Fluid and in Lacrimal Glands. In the monograph entitled *The Lacrimal Gland, Tear Film, and Dry Eye Syndromes: Basic Science and Clinical Relevance*. D.A. Sullivan, Editor, *Advances in Experimental Medicine and Biology* 350:315-320.
- Tarnuzzer, R.W., Macauley, S.P., Mast, B.A., Stacey, M.C., Trengrove, N., Moldawer, L.L., Burslem, F., and Schultz, G.S. 1999. Epidermal growth factor in wound healing: a model for the molecular pathogenesis of chronic wounds. In the monograph entitled *Growth Factors and Wound Healing: Basic Science and Potential Clinical Applications*. T.R. Ziegler, G.F. Pierce, and D.N. Herndon, Editors, Serono Symposium Inc., Norwall, MA.
- Svinarich, D.M., Twomey, T.A., Macauley, S.P., Krebs, C.J., Yang, T.P., and Krawetz, S.A. 1992. Characterization of the human lysyl oxidase gene locus. *The Journal of Biological Chemistry* 267:14382-14387.
- Humphreys-Beher, M.G., Macauley, S.P., Chegini, N., van Setten, G.B., Purushotham, K., Stewart, C., Wheeler, T.T., and Schultz, G.S. 1994. Characterization of the synthesis and secretion of TGF α from salivary glands and saliva: Detection of nother growth factor. *Endocrinology* 134:963-970.
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- Schultz, G.S., Khaw, P.T., Oxford, K., Macauley, S.P., van Setten, G.B., and Chegini, N. 1994. Growth factors and ocular wound healing. *Eye* 8: 184-187.
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- Macauley, S.P., Schultz, G.S., Bruckner, B.A., Krawetz, S.A., and Yang, T.P. 1996. Effects of transforming growth factor- β 1 on extracellular matrix gene expression by human fibroblasts from a laryngeal stenotic lesion. *Wound Repair and Regeneration* 4: 269-277.
- Tarnuzzer, R.W., Macauley, S.P., Farmerie, W.G., Cabellaro, S., Ghassemifar, M.R., Anderson, J.T., Robinson, C.P., Grant, M.B., Humphreys-Beher, M.G., Franzen, L., Peck, A.B., and Schultz, G.S. 1996. Competitive RNA templates for detection and quantitation of growth factors, cytokines, extracellular matrix components, and matrix metalloproteinases by RT-PCR. *BioTechniques* 20:670-674.
- Van Setten, G.B., Macauley, S.P., Humphreys-Beher, M.G., Chegini, N. and Schultz, G.S. 1996. Detection of TGF- α mRNA and protein in rat lacrimal glands and characterization of TGF- α in human tears. *Investigative Ophthalmology and Visual Sciences* 37:166-173.
- Macauley, S.P. 1996. Changes in extracellular matrix gene and protein expression in developing mouse submandibular glands. Ph.D. dissertation. University of Florida.
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- Broverman, R.L., Nguyen, K.H., DeSilviera, A., Brinkley, L.L., Macauley, S.P., Zeng, T., Yamamoto, H., Tarnuzzer, R.W., Schultz, G.S., Kerr, M, and Humphreys-Beher, H.G. 1998. Changes in the Expression of Extracellular Matrix (ECM) and Matrix Metalloproteinases (MMPs) of Proliferating Rat Parotid Acinar Cells. *Journal of Dental Research* 77:1504-14.

Trengrove, N., Stacey, M.C., Macauley, S.P., Bennett, N., Gibson, J., Burslem, F., Murphy, G., and Schultz, G.S. 1999. Analysis of the Acute and Chronic Wound Environments: The Role of Proteases and their Inhibitors. *Wound Repair and Regeneration* 7:442-52.

ABSTRACTS AND PRESENTATIONS:

Sonoda, R.M., Macauley, S.P. and Rohde, R.G. 1985. *Xanthomonas*-like bacteria from leave washing of *Bidens pilosum*. Fallen Leave Lake Conference on the Genus *Xanthomonas*, Lake Tahoe, CA.

Macauley, S.P. & Preston, J.F. 1988. Selective Assimilation of α -guluronic acid components of alginate by facultative bacteria associated with pelagic *Sargassum*. The Southeastern Meeting of the American Society for Microbiology, Orlando, FL.

Macauley, S.P. & Preston, J.F. 1989. Selective Assimilation depolymerization products by alginase-secreting bacteria associated with pelagic *Sargassum* species. American Society for Microbiology, New Orleans, LA.

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Macauley, S.P., Schultz, G.S., Bruckner, B.A., Laz, J., Krawetz, S., and Yang, T.P. 1991. Regulation of lysyl oxidase gene expression in human fibroblasts by TGF- β . Federation of American Societies for Experimental Biology, Atlanta, GA.

King, J.D., Stringer, S.P., Macauley, S.P., Yang, T.P., Donnelly, J., Cassisi, N.J., and Schultz, G.S. 1991. Laryngeal stenosis: Response of fibroblasts to growth factors and ultrastructural characteristics. American Academy of Otolaryngologists, Kansas City, MO.

Macauley, S.P., Schultz, G.S., and Yang, T.P. 1991. Effects of TGF- β on the regulation of lysyl oxidase gene expression in human fibroblasts. March of Dimes Birth Defects Foundation Pre/Postdoctoral Research Fellows Symposium, Hilton Head, SC.

Schultz, G.S., Bennett, N., Rotatori, S., Macauley, S.P., and Moser, M. 1993. Analysis of chronic, open, and normal wound fluids: Presence of proteases and effects of exogenous factors in wound healing. Gordon Conference, NH.

Schultz, G.S., Bennett, N., Rotatori, S., Macauley, S.P., and Moser, M. 1993. EGF and TGF- α in wound healing: Analysis of wound fluids and effects of exogenous factors in wound healing. 22nd Annual Keystone Symposia.

Schultz, G.S., Bennett, N., Rotatori, S., Macauley, S.P., and Moser, M. 1993. Biochemical Analysis of Fluids from Healing and Chronic Human Wounds, Joint Meeting of the Wound Healing Society and the European Tissue Repair Society, Amsterdam.

van Setten, G.B., Macauley, S.P., and Schultz, G.S. 1993. Transforming growth factor alpha: Presence in human tear fluid and in lacrimal gland tissue. Association for Research in Vision and Ophthalmology, Sarasota, FL.

Humphreys-Beher, M.G., Macauley, S.P., Chegini, N., van Setten, G.B., Purushotham, K., Stewart, C., Wheeler, T.T., and Schultz, G.S. 1994. Characterization of the synthesis and secretion of TGF- α from salivary glands and saliva: Detection of another growth factor. University of Florida Graduate Student Forum, Gainesville, FL.

Macauley, S.P., Tarnuzzer, R.W., Schultz, G.S., and Humphreys-Beher, M.G. 1995. Quantitation of extracellular matrix gene expression during mouse submandibular gland development by competitive-RT-PCR. American Association of Dental Research, San Antonio, TX.

Schultz, G.S., Tomas-Barberan, S., Macauley, S.P., Tarnuzzer, R.W., Fagerholm, P. 1995. Measurement of mRNAs for TGF- α , TGF- β 1, EGF-R, MMP2, MMP9, TIMP1, and collagen (α 1) III in human corneal epithelium before and one year after eximer laser photorefractive keratectomy. The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.

Macauley, S.P., Tarnuzzer, R.W., Schultz, G.S., and Humphreys-Beher, M.G. 1995. Quantitation of extracellular matrix gene expression during mouse submandibular gland development by competitive-RT-PCR. International Association of Dental Research, Singapore.

Tarnuzzer, R.W., Macauley, S.P., Stacey, M.C., Moldawer, L.L., and Schultz, G.S. 1995. Potential role of epidermal growth factor in acute and chronic wound healing. Sero Symposium on Growth Factors and Wound Healing, Boston, MA.

Macauley, S.P., Tarnuzzer, R.W., Schultz, G.S., and Humphreys-Beher, M.G. 1995. Quantitation of extracellular matrix gene expression during mouse submandibular gland development by competitive-RT-PCR. 2nd International Becton-Dickinson Symposium on Extracellular Matrix: Cell-ECM Interactions and Signaling Pathways. Oxford, England.

INVITED PRESENTATIONS:

“The current status of stem cells and human cloning.” Oklahoma Wesleyan University, Faculty Colloquium, February 2006.

“Growth Factors, Matrix Metalloproteinases, & Chronic Wound Healing.” Calvin College, Grand Rapids, MI, February 2007

“Developmental Genetics.” Ferris State University, Big Rapids, MI, June 2007.

“Kidney Reabsorption and Secretion.” Azusa Pacific University, Azusa, CA, June 2007.

“Chronic Wound Healing.” Grand Valley State University, Allendale, MI, Jan. 2008.

“Fertilization and Prevention of Polyspermy in Invertebrates,” Ferris State University, Big Rapids, MI, Feb 2008.