

Biomedical Engineering

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Core Faculty Profile

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Matthew R. Glucksberg

Research Interests

Pulmonary mechanics and lung liquid transport, blood pressure and flow in the retinal circulation, non-invasive sensing of blood flow and analytes.

Selected Publications

1. YL Kim, JT Walsh, TK Goldstick, and **MR Glucksberg**. *Variation of corneal refractive index with hydration*. Phys. Med. Biol. 49:859-868, 2004.
2. Wu FI, JT Walsh, and **MR Glucksberg**. *Measurements of choroidal blood by optical coherence tomography*. Appl. Optics 44(8):1426-33, 2005.
3. Seurnyck SL, NJ Brown, CW Wu, KW Germino, EK Kohlmeir, EP Ingenito, **MR Glucksberg**, AE Barron, and M Johnson. *Optical monitoring of bubble size in a pulsating bubble surfactometer for characterization of exogenous lung surfactant replacements*. J. Appl. Physiol, 99:624-33, 2005.
4. Geiger, RC, CM Waters, DW Kamp, and **MR Glucksberg**. *KGF prevents oxygen-mediated damage in ARPE-19 cells*. Invest. Ophthalmol, Vis.. Sci. 46:3435-42, 2005.
5. Lyandres O, Shah NC, Yonzon CR, Walsh JT Jr, **Glucksberg MR**, Van Duyne RP. *Real-time glucose sensing by surface-enhanced Raman spectroscopy in bovine plasma facilitated by a mixed decanethiol/mercaptohexanol partition layer*. Anal Chem., 77(19):6134-9 2005.
6. R.C. Geiger, Taylor W., **Glucksberg M.R.** and Dean D.A. *Cyclic stretch-induced reorganization of the cytoskeleton and its role in enhanced gene transfer*. Gene Ther, 13(8):725-31, 2006.
7. DA,Stuart, JM Yuen, N. Shah, O. Lyandres, CR Yonzon, **MR Glucksberg**, JT Walsh, RP Van Duyne. *In Vivo Glucose Measurement by Surface-Enhanced Raman Spectroscopy*. Anal. Chem. 78: 7211-7215, 2006.
8. Thangawng AL, MA Swartz, **MR Glucksberg**, and RA Ruoff. *Bond-Detach Lithography: A Method for Micro Nanolithography by Precision PDMS Patterning*, Small 2007, 3(1):132-138.



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