

FRET References

This collection of FRET references is provided here as a place to begin learning about FRET and is not intended as an exhaustive list. As always, the best place to look for information for your experimental design is the literature within your field.

* Berney, C. and Danuser, G. (2003). Fret or no fret: A quantitative comparison. *Biophys. J.*, 84(6):3992-4010.

Bivona, T. G. and Philips, M. R. (2005). Analysis of ras and rap activation in living cells using fluorescent ras binding domains. *Methods*, 37(2):138-145.

Day, R. N., Periasamy, A., and Schaufele, F. (2001). Fluorescence resonance energy transfer microscopy of localized protein interactions in the living cell nucleus. *Methods*, 25(1):4-18.

Erickson, M. G., Moon, D. L., and Yue, D. T. (2003). Dsred as a potential fret partner with cfp and gfp. *Biophys. J.*, 85(1):599-611.

Fan, G. Y., Fujisaki, H., Miyawaki, A., Tsay, R. K., Tsien, R. Y., and Ellisman, M. H. (1999). Video-rate scanning two-photon excitation fluorescence microscopy and ratio imaging with cameleons. *Biophysical Journal*, 76(5):2412-2420.

* Gordon, G. W., Berry, G., Liang, X. H., Levine, B., and Herman, B. (1998). Quantitative fluorescence resonance energy transfer measurements using fluorescence microscopy. *Biophysical Journal*, (74):2702-2713.

Ha, T. (2001). Single-molecule fluorescence resonance energy transfer. *Methods*, 25(1):78-86.

Hoppe, A., Christensen, K., and Swanson, J. A. (2002). Fluorescence resonance energy transfer-based stoichiometry in living cells. *Biophys J*, 83(6):3652-3664.

Jares-Erijman, E. A. and Jovin, T. M. (2003). Fret imaging. 21(11).

Karpova, T. S., Baumann, C. T., He, L., Wu, X., Grammer, A., Lipsky, P., Hager, G. L., and McNally, J. G. (2003). Fluorescence resonance energy transfer from cyan to yellow fluorescent protein detected by acceptor photobleaching using confocal microscopy and a single laser. *J Microsc*, 209(Pt 1):56-70.

Kenworthy, A. K. (2001). Imaging protein-protein interactions using fluorescence resonance energy transfer microscopy. *Methods*, 24(3):289-296.

Mochizuki, N., Yamashita, S., Kurokawa, K., Ohba, Y., Nagai, T., Miyawaki, A., and Matsuda, M. (2001). Spatio-temporal images of growth-factor-induced activation of ras and rap1. *Nature*, 411(6841):1065-1068.

Nakamura, T., Aoki, K., and Matsuda, M. (2005). Monitoring spatio-temporal regulation of ras and rho gtpases with gfp-based fret probes. *Methods*, 37(2):146-153.

Pollok, B. A. and Heim, R. (1999). Using gfp in fret-based applications. *Trends Cell Biol*, 9(2):57-60.

Sekar, R. B. and Periasamy, A. (2003). Fluorescence resonance energy transfer (fret) microscopy imaging of live cell protein localizations. *J Cell Biol*, 160(5):629-633.

Takahashi, A., Masuda, A., Sun, M., Centonze, V. E., and Herman, B. (2004). Oxidative stress-induced apoptosis is associated with alterations in mitochondrial caspase activity and bcl-2-dependent alterations in mitochondrial pH. *Brain Research Bulletin*, 62(6):497-504.

* Xia, Z. and Liu, Y. (2001). Reliable and global measurement of fluorescence resonance energy transfer using fluorescence microscopes. *Biophys J*, 81(4):2395-2402.

Yokono, T., Kotaniguchi, H., and Fukui, Y. (2006). Clear imaging of forster resonance energy transfer (fret) signals of ras activation by a time-lapse three-dimensional deconvolution system. *Journal of Microscopy*, 223(1):9-14.