

Addendum

Addendum to “Regulation of the water channel aquaporin-1:  
isolation and reconstitution of the regulatory complex”  
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In a routine assay using atomic force microscopy (AFM) to image red blood cells (RBCs) under various experimental conditions, rapid increase in RBC size following exposure to water (up to a 21% increase in volume), or mastoparan (up to a 73% increase in volume) was demonstrated. The increase in size of RBCs following exposure to water was much lower when assessed by the AFM; however, this modest increase in RBC volume following exposure to water was undetectable by our light-scattering analysis. Although, 150% increase in light-scattering intensity was observed when RBCs were exposed to mastoparan (Fig. 5B; Abu-Hamdah et al., 2004), little change in light-scattering was detected following exposure to water. Similar to the increase in light-scattering following exposure to mastoparan, we were able to detect an increase in light-scattering when RBCs were exposed to tributyltin chloride (TBT), as previously reported by Ohkuma

et al. (1998) to induce RBC swelling. Therefore, the little if any detectable increase in RBC volume in hypotonic media observed in our light-scattering studies (Fig. 5B; Abu-Hamdah et al., 2004) may be due to the low sensitivity of our light-scattering measurements compared to AFM analysis.

**References**

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