Supporting Information

Matting Calcium Crystals by Melamine Improves Stabilization and Prevents Dissolution

Eugenia Awuah Boadi[1], Nikolaus J. Deems[2], Christopher B. Raub[3] and Bidhan C. Bandyopadhyay[1,3,4]*

[1]Calcium Signaling Laboratory, Research Service, Veterans Affairs Medical Center, 50 Irving Street, NW, Washington DC, 20422, United States
[2]The Vitreous State Laboratory, The Catholic University of America, 620 Michigan Avenue NE, Washington DC, 20064, United States
[3]Department of Biomedical Engineering, The Catholic University of America, 620 Michigan Avenue NE, Washington DC, 20064, United States
[4]Division of Renal Diseases & Hypertension, Department of Medicine, The George Washington University, Washington DC, 20037, United States

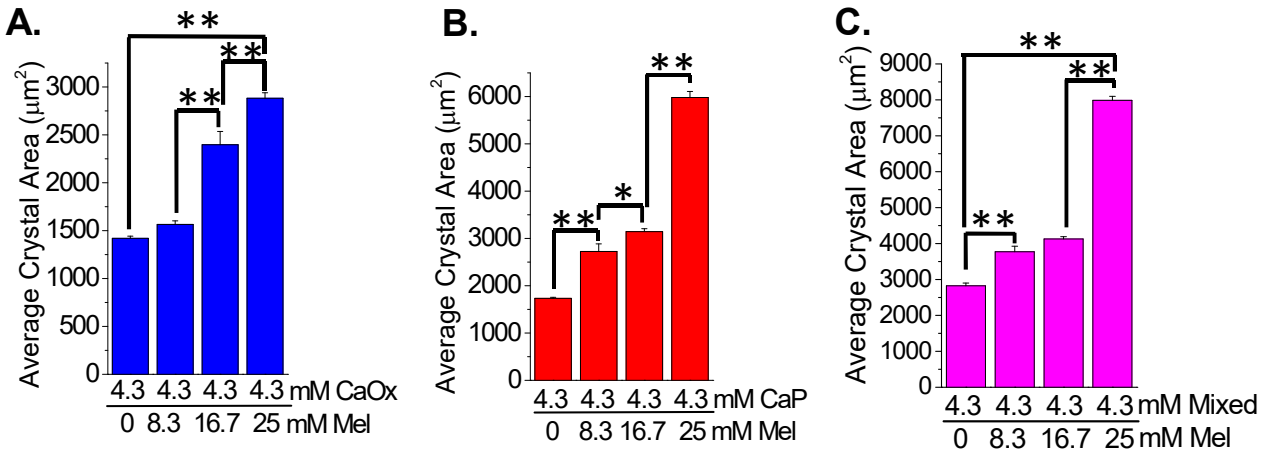

Figure S1. Melamine increased aggregation and growth of CaO*x*, CaP and Mixed crystal aggregates. To further show that melamine increases crystal formation, different concentrations of melamine (0-25mM) were added to reactions precipitating. The area of CaO*x*, CaP and Mixed crystal aggregate products were imaged using cross polarization and quantified using ImageJ software following birefringence studies and assessed with bar graphs with values expressed as mean $\pm$ SEM. (*)$p<0.05$, (**)$p<0.01$ for the crystal conditions where A. CaOx, B. CaP and C. Mixed crystal aggregates.