| Condition | Slope | Y-intercept | Equation (y = value related to max; x = time) | Actual Value @ 108hrs | Predicted Value @ 108 hrs | Predicted Half-Life (value=0.5) |
|---|---|---|---|---|---|---|
| GA Diffuse | -0.00194 | 0.9698 | y = -0.00194x + 0.9698 | 0.789 | 0.760 | 242.16 hrs |
| GA Aggregate | -0.00127 | 0.9724 | y = -0.00127x + 0.9724 | 0.865 | 0.835 | 371.97 hrs |
| GP | -0.0025 | 0.9751 | y = -0.00250x + 0.9751 | 0.689 | 0.705 | 190.04 hrs |
| GR Cytoplasm | -0.00235 | 0.9855 | y = -0.00235x + 0.9855 | 0.763 | 0.732 | 206.60 hrs |
| GR Nucleus | -0.00171 | 0.9827 | y = -0.00171x + 0.9827 | 0.815 | 0.798 | 282.28 hrs |
| PA | -0.00232 | 0.9683 | y = -0.00232x + 0.9683 | 0.746 | 0.718 | 201.85 hrs |
| PG | -0.00287 | 0.9639 | y = -0.00287x + 0.9639 | 0.716 | 0.654 | 161.64 hrs |
| PR | -0.00166 | 0.9881 | y = -0.00166x + 0.9881 | 0.834 | 0.809 | 294.04 hrs |

Table EV1. Calculations of DPR half-life using longitudinal fluorescent imaging quantification of photoconverted DPR decay over 108 hrs.
Quantification of photoconverted DPR fluorescent intensity was plotted over 108 hrs (see Figure EV5). The slope and y-intercept for each conditioned was calculated and used to generated a slope-intercept form equation for each condition. The equation was validated for accuracy by comparing predicted value at 108 hrs to the actual value measured. Through this equation, a predicted half-life was calculated by setting fluorescent intensity level (y) to 0.5. Predicted half-life values demonstrate long lived DPRs that are dependent on localization and granularity of each species.