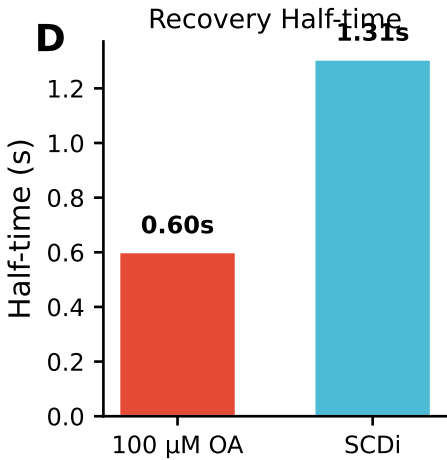
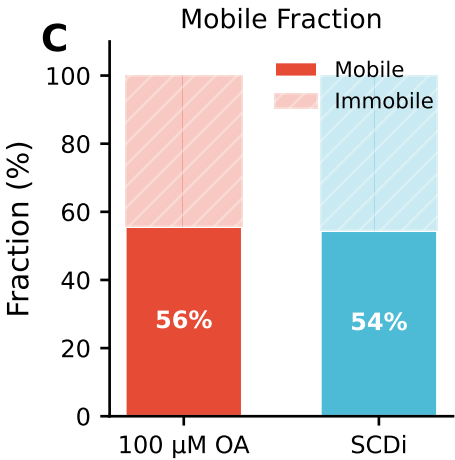
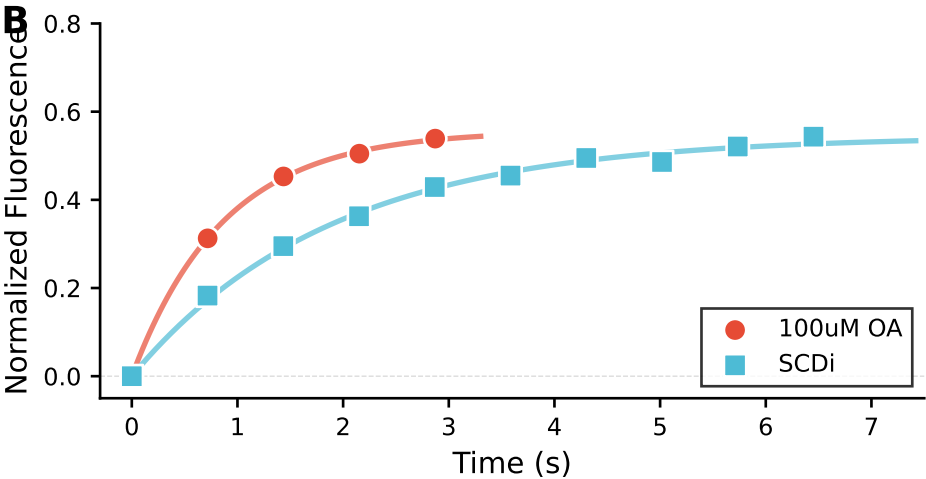
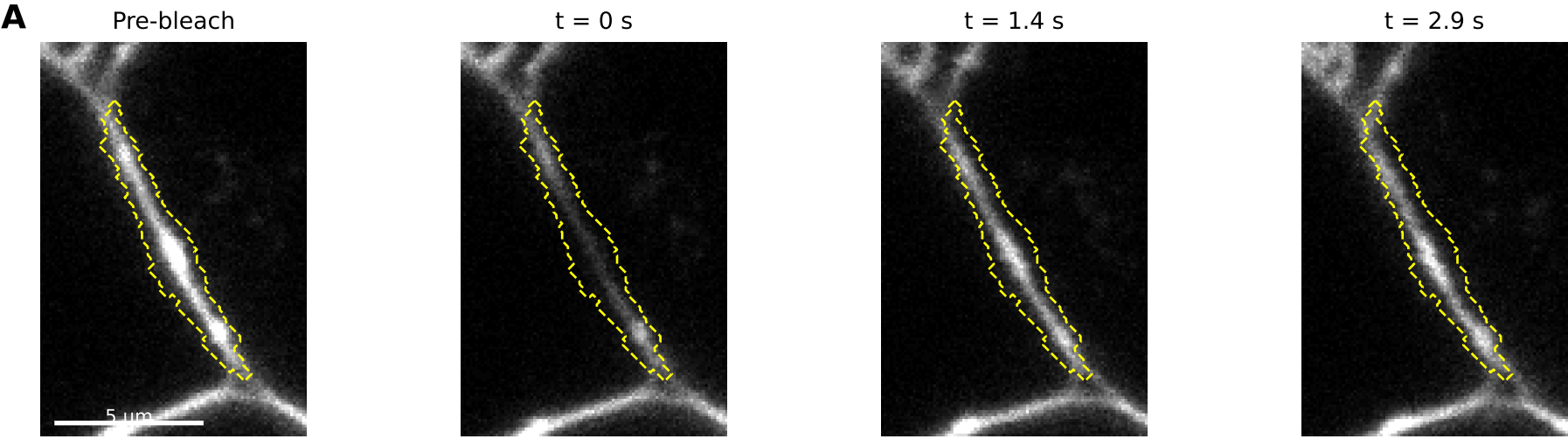


100 μ M Oleic Acid



Summary Statistics

E

Parameter	100 μ M OA	SCDi	Units
Mobile Fraction	55.6	54.5	%
Immobile Fraction	44.4	45.5	%
Time Constant (τ)	0.867	1.884	s
Half-time ($t_{1/2}$)	0.601	1.306	s
R^2	0.9998	0.9962	
n (cells)	1*	1*	

*Additional biological replicates required for publication

F

Methods Summary:

- Normalization: Double normalization (Phair et al., 2004)
- Background: Subtracted from region outside cells
- Photofading: Corrected using whole-cell reference ROI
- Curve fitting: Single exponential model
 $F(t) = Mf \times (1 - e^{-(t/\tau)})$
- Mobile fraction: Plateau of recovery curve
- Half-time: $t_{1/2} = \tau \times \ln(2)$
- ROI detection: Automated threshold-based

Quality Control:

- Bleach efficiency verified by intensity drop
- Reference ROI monitored for acquisition bleaching
- Fit quality assessed by $R^2 > 0.99$