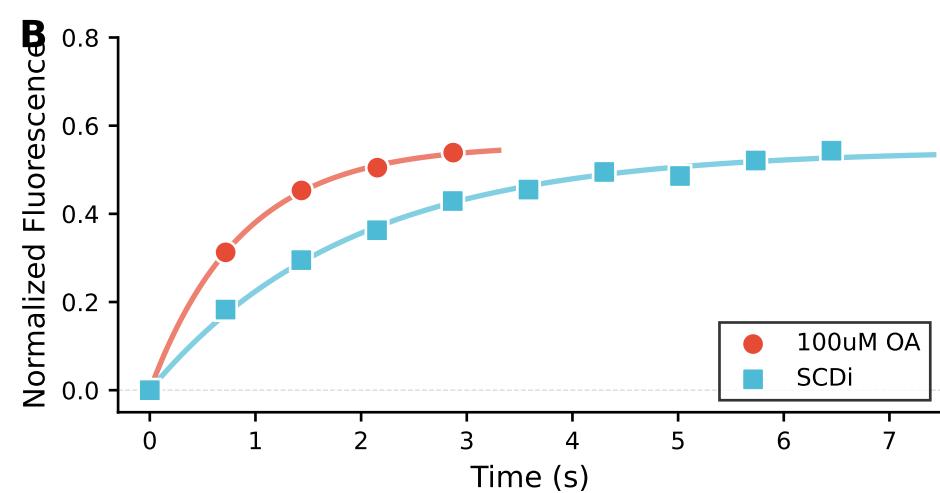
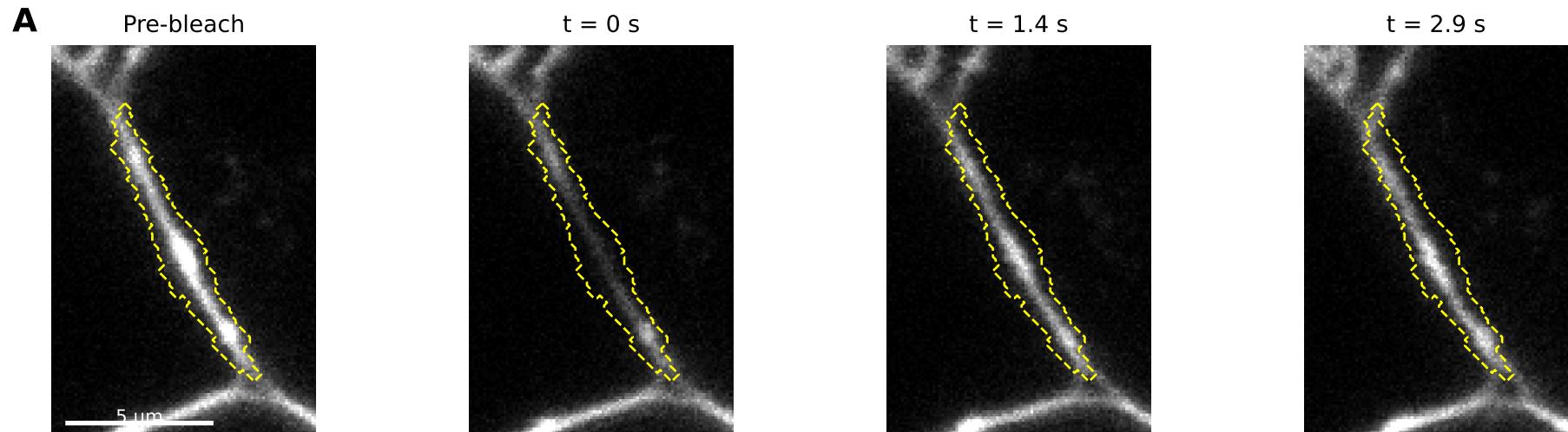


# 100 $\mu$ M Oleic Acid

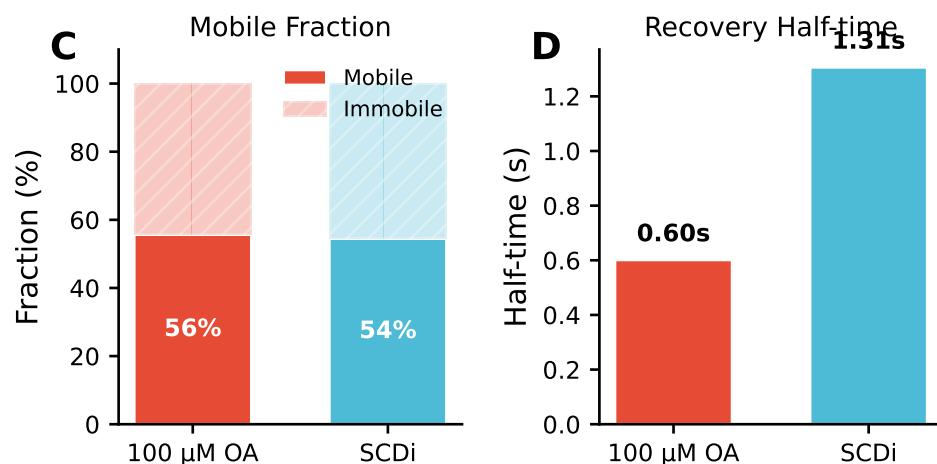


## Summary Statistics

**E**

Parameter	100 $\mu$ M OA	SCDi	Units
Mobile Fraction	55.6	54.5	%
Immobile Fraction	44.4	45.5	%
Time Constant ( $\tau$ )	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  $R^2 > 0.99$