

# FRAP Analysis Report

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Groups included: 265 ctr-PARP1, 265 ctr-PARP2, 265 DBeQ BMN673 PARP1, 265 GFP-PARP2 PARGi, 265 Nimbolide PARP1, 265 nimbolide PARP2, 265 PARGi E558A, 265 PARP2 ctr (AZD5305), 265 PARP2-ctr (ABT888), 265 PARPi D-NTR-R153A+Y201F, 265 PARPi GFP-PARP2 583, 265 PARPi H428A 3X, 300 nM 5305 265 PARP2, 5305 265 D-NTR-R153A+Y201F, 5305 265 D-NTR-R153A+Y201F\_265, 5305 265 E558A, 5305 265 H428A, 5305 265 R153A+Y201F, 5305-265 D-NTR, 5305-265 PARP2, D-NTR, D-NTR-R153A+Y201F, DBeQ BMN673 PARP1\_265, DBeQ PARP1\_265, DBeQ PARP2\_265, E558A, H428A 3X, PARGi D-NTR, PARGi D-NTR-R153A+Y201F, PARGi H428A 3X, PARP2\_583, PARPi, PARPi D-NTR, PARPi D-NTR-R153A+Y201F, PARPi E558A, PARPi R153A+Y201F, R153A+Y201F

## Analysis Settings

Parameter	Value
Effective Bleach Radius (µm)	0.300

## Group Summaries

### Group: 265 ctr-PARP1

Total Files: 0, Analyzed: 65

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	78.614	44.761	56.566	28.751	161.855

### Group: 265 ctr-PARP2

Total Files: 0, Analyzed: 49

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	84.906	48.127	52.239	32.676	158.828

### Group: 265 DBeQ BMN673 PARP1

Total Files: 0, Analyzed: 31

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	76.600	40.956	57.240	33.464	158.648

### Group: 265 GFP-PARP2 PARGi

Total Files: 0, Analyzed: 43

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	69.579	43.878	51.921	16.221	166.041

**Group: 265 Nimbolide PARP1**

Total Files: 0, Analyzed: 30

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	80.475	46.458	56.045	33.841	159.208

**Group: 265 nimbolide PARP2**

Total Files: 0, Analyzed: 40

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	71.875	47.092	43.355	29.228	158.799

**Group: 265 PARGi E558A**

Total Files: 0, Analyzed: 43

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	64.929	46.127	39.115	17.782	147.084

**Group: 265 PARP2 ctr (AZD5305)**

Total Files: 0, Analyzed: 27

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	93.700	48.826	85.680	39.175	156.672

**Group: 265 PARP2-ctr (ABT888)**

Total Files: 0, Analyzed: 30

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	96.561	51.375	69.182	40.658	160.086

**Group: 265 PARPi D-NTR-R153A+Y201F**

Total Files: 0, Analyzed: 25

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	77.355	53.669	45.756	18.832	150.267

**Group: 265 PARPi GFP-PARP2 583**

Total Files: 0, Analyzed: 54

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	57.901	38.583	34.495	17.475	137.237

**Group: 265 PARPi H428A 3X**

Total Files: 0, Analyzed: 42

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	64.697	47.291	38.321	16.563	146.065

**Group: 300 nM 5305 265 PARP2**

Total Files: 0, Analyzed: 29

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	73.814	45.202	47.030	31.430	157.963

**Group: 5305 265 D-NTR-R153A+Y201F**

Total Files: 0, Analyzed: 45

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	83.790	49.682	50.446	24.567	150.645

**Group: 5305 265 D-NTR-R153A+Y201F\_265**

Total Files: 0, Analyzed: 45

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	74.508	48.958	39.290	22.190	145.444

**Group: 5305 265 E558A**

Total Files: 0, Analyzed: 52

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	58.481	37.544	38.169	17.887	139.259

**Group: 5305 265 H428A**

Total Files: 0, Analyzed: 41

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	58.296	39.356	36.894	11.743	132.756

**Group: 5305 265 R153A+Y201F**

Total Files: 0, Analyzed: 52

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	65.393	41.750	46.606	22.898	145.340

**Group: 5305-265 D-NTR**

Total Files: 0, Analyzed: 48

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	53.374	37.301	34.549	16.603	137.577

**Group: 5305-265 PARP2**

Total Files: 0, Analyzed: 47

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	57.740	37.173	39.585	14.965	142.158

**Group: D-NTR**

Total Files: 0, Analyzed: 34

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	57.320	41.951	34.193	21.655	131.190

**Group: D-NTR-R153A+Y201F**

Total Files: 0, Analyzed: 34

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	60.936	47.541	35.862	16.488	146.137

**Group: DBeQ BMN673 PARP1\_265**

Total Files: 0, Analyzed: 31

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	76.600	40.956	57.240	33.464	158.648

**Group: DBeQ PARP1\_265**

Total Files: 0, Analyzed: 34

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	91.247	47.186	62.042	39.888	160.795

### **Group: DBeQ PARP2\_265**

Total Files: 0, Analyzed: 29

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	95.139	49.884	107.933	25.848	163.069

### **Group: E558A**

Total Files: 0, Analyzed: 41

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	63.797	49.836	36.803	16.121	170.059

### **Group: H428A 3X**

Total Files: 0, Analyzed: 44

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	58.126	46.129	31.115	17.226	147.779

### **Group: PARGi D-NTR**

Total Files: 0, Analyzed: 41

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	51.131	40.521	31.454	14.096	142.845

### **Group: PARGi D-NTR-R153A+Y201F**

Total Files: 0, Analyzed: 31

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	55.422	45.617	29.820	15.661	141.184

### **Group: PARGi H428A 3X**

Total Files: 0, Analyzed: 49

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	58.435	39.244	40.065	17.927	147.587

**Group: PARP2\_583**

Total Files: 0, Analyzed: 39

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	83.274	44.218	65.096	26.111	150.850

**Group: PARPi**

Total Files: 0, Analyzed: 39

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	54.407	37.219	31.284	17.820	136.957

**Group: PARPi D-NTR**

Total Files: 0, Analyzed: 35

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	53.664	41.785	28.018	15.448	132.823

**Group: PARPi D-NTR-R153A+Y201F**

Total Files: 0, Analyzed: 25

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	77.392	53.650	45.756	18.630	150.267

**Group: PARPi E558A**

Total Files: 0, Analyzed: 30

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	68.997	47.941	39.162	17.582	133.172

**Group: PARPi R153A+Y201F**

Total Files: 0, Analyzed: 40

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	87.659	49.032	74.575	24.432	151.952

**Group: R153A+Y201F**

Total Files: 0, Analyzed: 40

Metric	Mean	Std	Median	Min	Max
Mobile Fraction	67.822	51.750	37.933	19.761	165.201

## Statistical Comparison

### Mobile Fraction Comparison

Group	N	Mean	Std Dev
265 DBeQ BMN673 PARP1	31	76.600	40.956
265 GFP-PARP2 PARGi	43	69.579	43.878
265 Nimbolide PARP1	30	80.475	46.458
265 PARGi E558A	43	64.929	46.127
265 PARP2 ctr (AZD5305)	27	93.700	48.826
265 PARP2-ctr (ABT888)	30	96.561	51.375
265 PARPi D-NTR-R153A+Y201F	45	77.355	53.669
265 PARPi GFP-PARP2	50	57.901	38.583
265 PARPi H428A 3X	42	64.697	47.291
265 ctr-PARP1	65	78.614	44.761
265 ctr-PARP2	49	84.906	48.127
265 nimbolide PARP2	40	71.875	47.092
300 nM 5305 265 PARP2	29	73.814	45.202
5305 265 D-NTR-R153A+Y201F	42	83.790	49.682
5305 265 D-NTR-R153A+Y201F_265	42	574.508	48.958
5305 265 E558A	52	58.481	37.544
5305 265 H428A	41	58.296	39.356
5305 265 R153A+Y201F	52	65.393	41.750
5305-265 D-NTR	48	53.374	37.301
5305-265 PARP2	47	57.740	37.173
D-NTR	34	57.320	41.951
D-NTR-R153A+Y201F	34	60.936	47.541
DBeQ BMN673 PARP1_265	28	76.600	40.956
DBeQ PARP1_265	34	91.247	47.186
DBeQ PARP2_265	29	95.139	49.884
E558A	41	63.797	49.836
H428A 3X	44	58.126	46.129
PARGi D-NTR	41	51.131	40.521
PARGi D-NTR-R153A+Y201F	20	55.422	45.617

