
CyDye™ Applications

Assay Development Experience

FRET

Protease Assays

Asp-N
Pepsin
MMP-3

Molecular Interactions

NF- κ B-DNA
DNA hybridisation

Immunoassays

Anti-phosphotyrosine

Enzyme Assays

DNase 1

Fluorescence Polarisation

Protease Assays

Asp-N

Molecular Interactions

NF- κ B-DNA
Grb2-phosphopeptide
DNA hybridisation
fos/jun

Receptor Binding Assays

CHO M1/Telenzepine
EGF assay

Enzyme Assays

DNase 1
Sma I digestion
HElicase

Time Resolved Fluorescence

Molecular Interactions

NF- κ B-DNA
DNA hybridisation

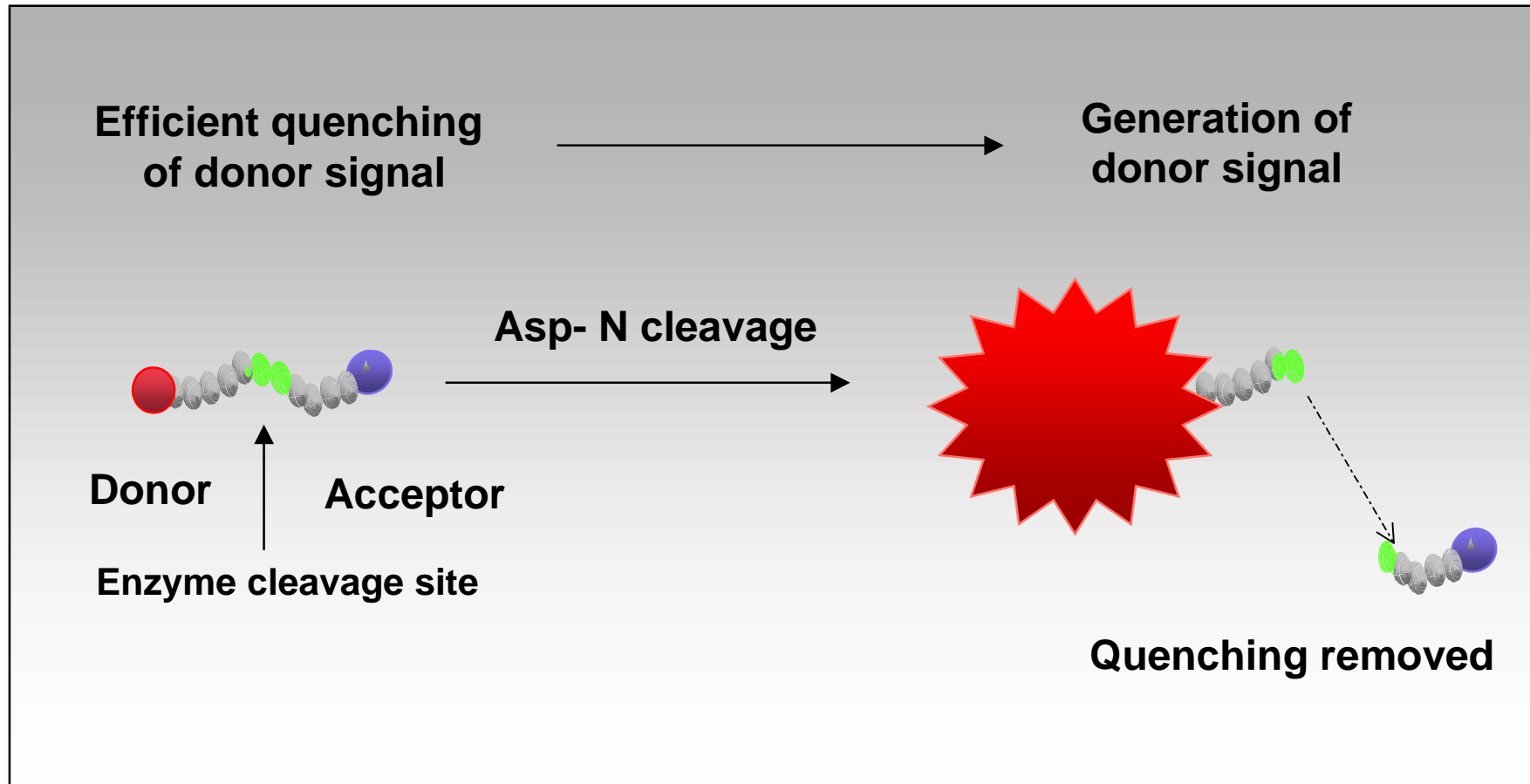
Model Enzyme Assays

Helicase
Tyrosine Kinase

CyDye Applications Module

- ◆ Protease assay
- ◆ NF- κ B:DNA binding assay

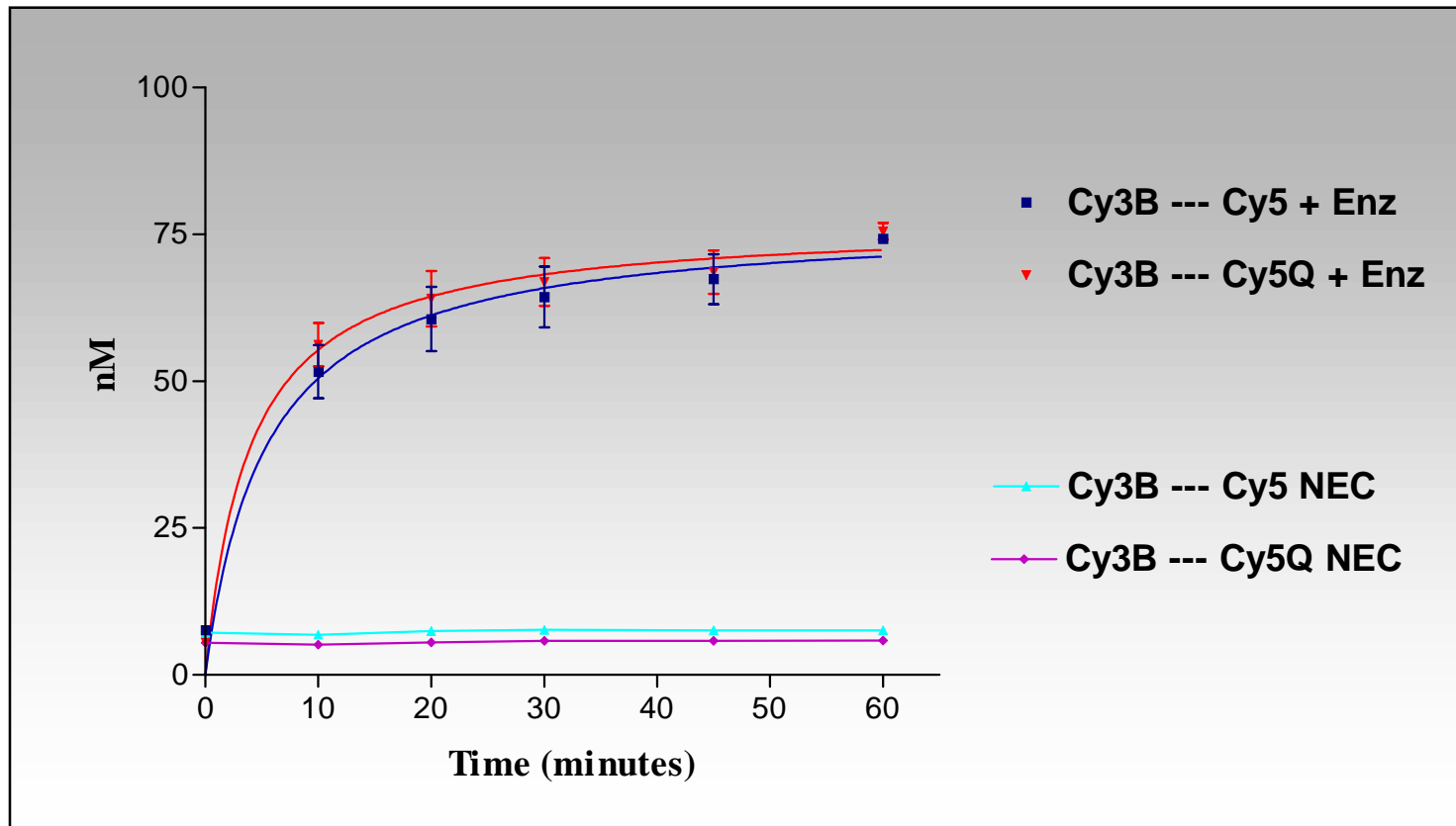
Protease Assay - Concept



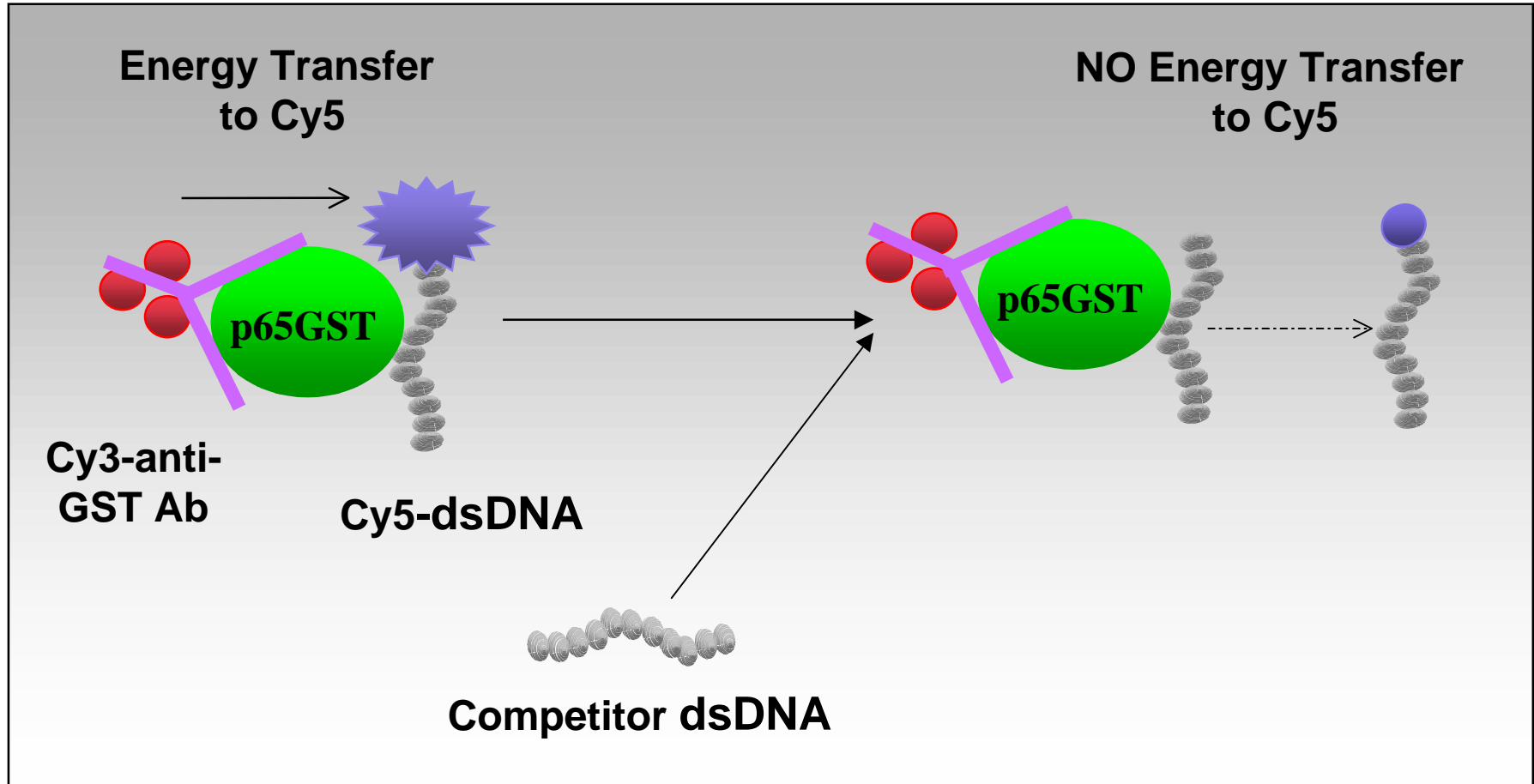
Protease Assay - Conditions

	Stock Solution	Volume
Peptide	100nM	50 μ l
Asp-N Enzyme	1ng/ μ l	5 μ l
Assay Volume		55 μ l
Assay Buffer	50mM Tris, pH8, + 0.005% Tween TM 20	
Plate	Black, opaque 384 well	
Instrument	Gen I (- 45 ^o C camera)	
Image Time	90 seconds	
Excitation filter	540(10)nm	
Emission filter	570(10)nm	

Protease Assay - Results



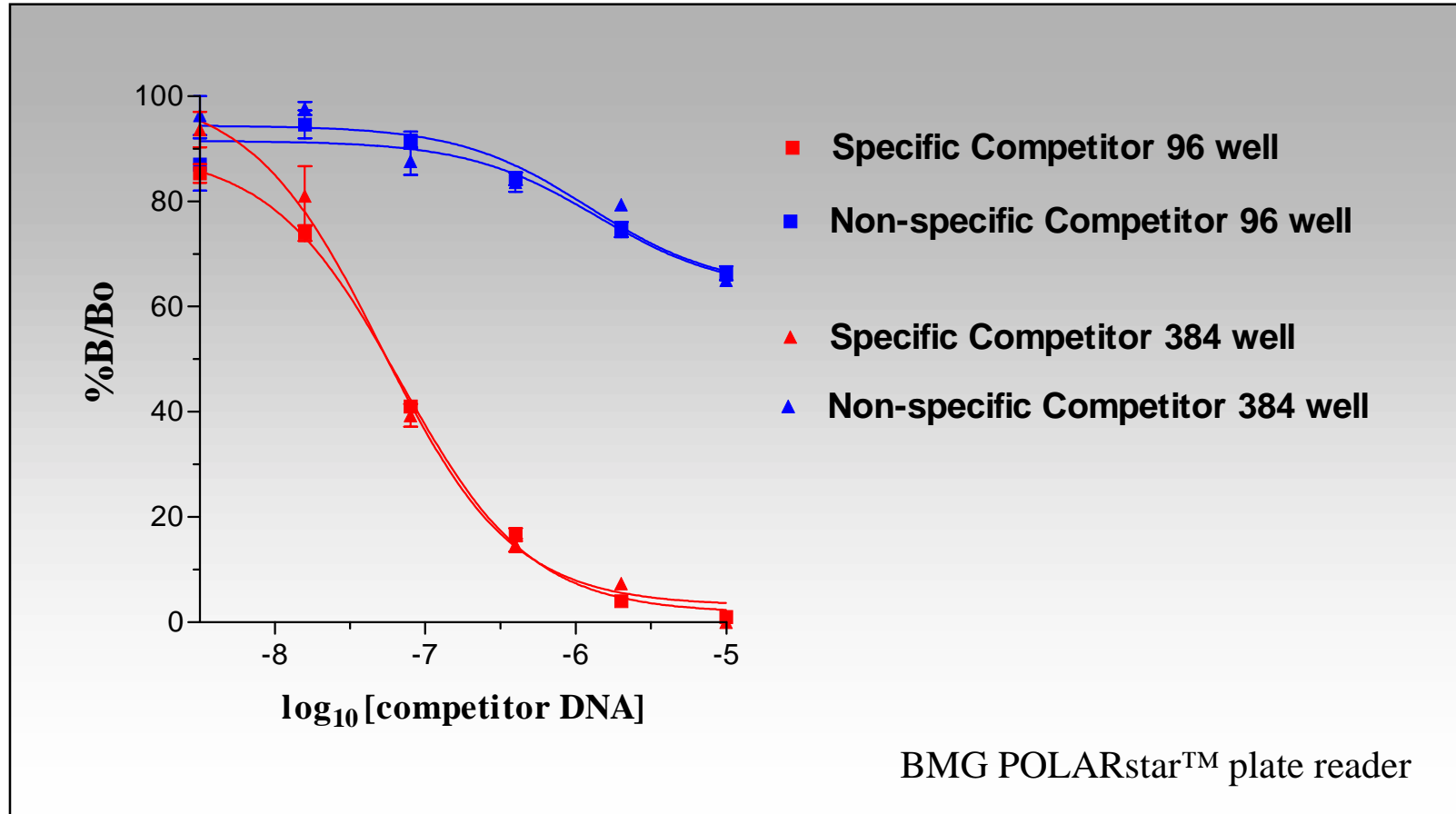
NF- κ B FRET Binding Assay - Concept



NF- κ B FRET Assay - Conditions

	Stock Solution	96 well	384 well
Cy3 anti-GST Ab	65nM	20 μ l	10 μ l
p65 GST fusion protein	100nM	20 μ l	10 μ l
Cy5 dsDNA	500nM	20 μ l	10 μ l
Assay buffer	-	40 μ l	20 μ l
Volume	-	100 μ l	50 μ l

NF- κ B FRET Assay - Results I



NF- κ B FRET Assay - Results II

