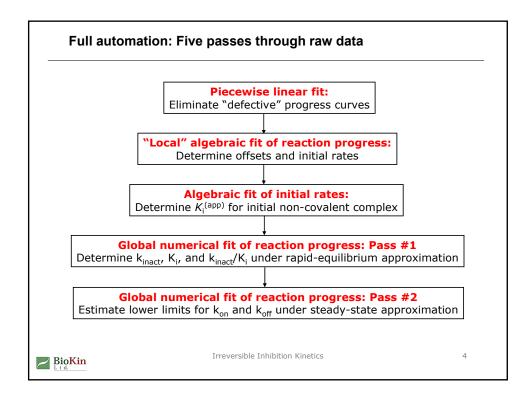
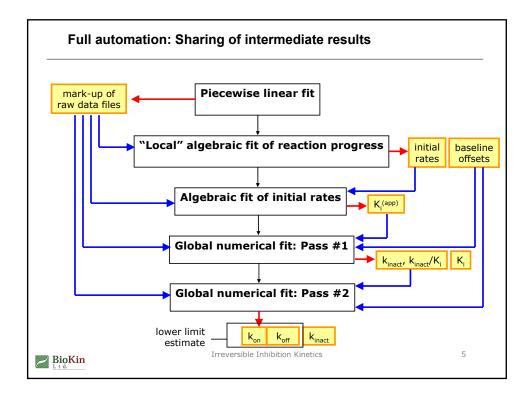
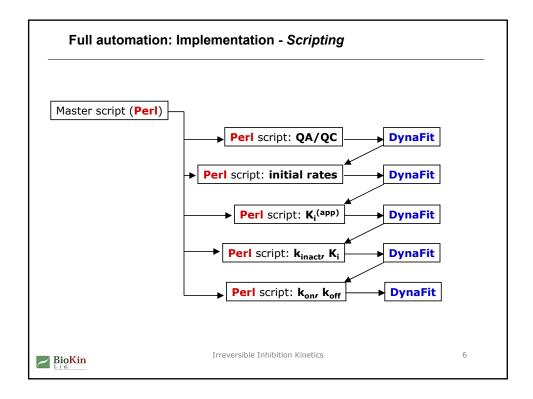
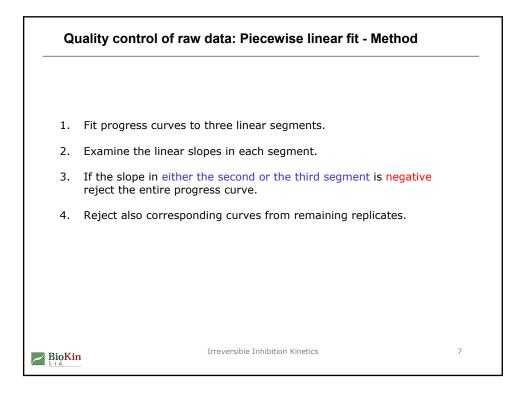


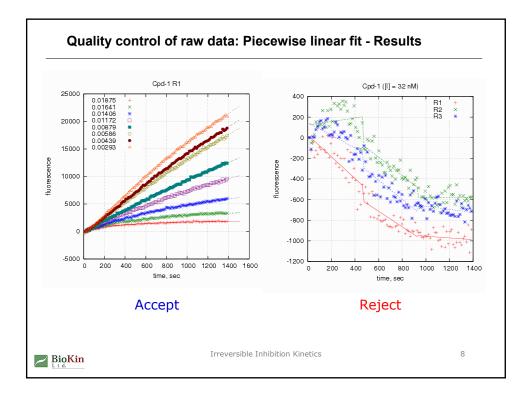
EGFR in	hibition by covale	nt drugs		
Schwartz, P	; Kuzmic, P. <i>et al</i> . (2014)			
importance	GFR inhibitor analysis reveal of reversible interactions and mechanisms of drug resi			
Proc. Natl. A	cad. Sci. USA. 111 , 173-17	8.	Issue 1, January 7	
Initial es	n "defective" progress cu timates le initial estimates of ral		·	
This "manua	al″ method is not ideally	suited for routii	ne production envi	ronment.

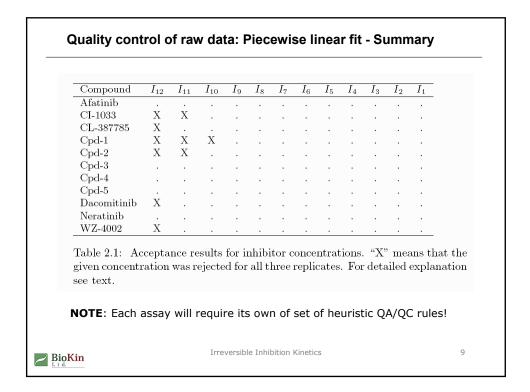


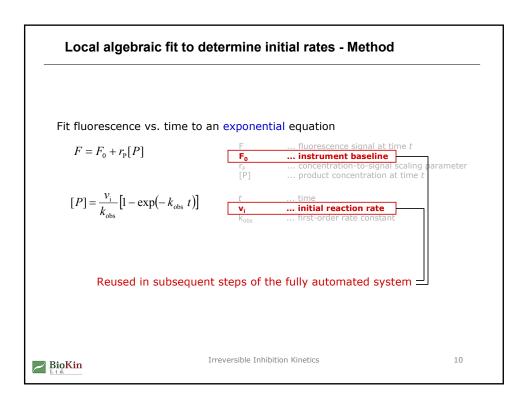


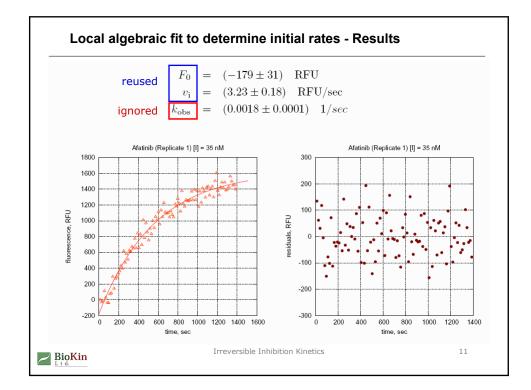




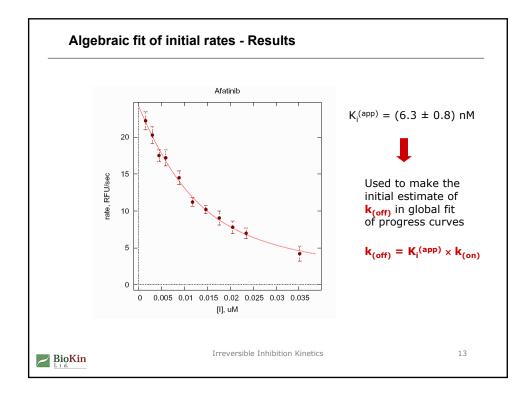








"Morrisor	equation"	for tight-binding enzyme i	inhibition:	
	$v_{\mathbf{i}} = V_0 \frac{[E]_0}{}$	$-[I]_0 - K_i + \sqrt{([E]_0 - [I]_0)^2}$ $2 [E]_0$	$(0 - K_i)^2 + 4 [E]_0 K_i$	(4.5)
$\frac{\text{symbol}}{V_0} \\ [E]_0 \\ K_i \\ [I]_0$	RFU/sec RFU/sec	enzyme concentration	note dependent variable adjustable parameter adjustable parameter adjustable parameter independent variable	-
Optimiz	e twist: ze [E] ₀ but o zmic P., <i>et</i> o	only within a narrow rango al. (2000) Anal. Biochem.	e (up to [E] _{nominal}). 286 , 45-50.	



"Generalized mechanism"	(no longer simplified "Hit-ar	nd-Rur	n" model):
$E \xrightarrow[k_{dT}]{k_{aT}} E.ATP \xrightarrow{[S] k_{a}}{k_{dS}}$	► S.E.ATP			
$[I] \ k_{al} \ k_{dl}$	[mechanism] ; "T" = ATP,	"D" =	ADP	
[S] <i>k</i> aS	E + T <==> E.T		kaT	kdT
E.I 🔫 S.E.I	S + E.T <==> S.E.T S.E.T> P + E + D	:	kaS	
k _{dS}	S.E.T> P + E + D	:	kcat	
k _{inact} k _{inact}	E + I <==> E.I	:	kaT	kdI
[S] Kas	E.I> E-I		kinact	Rui
E-I Z S E-I	S + E.I <==> S.E.I	:	kaS	kdS
k _{dS}	S.E.I> S.E-I	:	kinact	
	S.E-I <==> S + E-I			kaS
	DynaFit notation			

