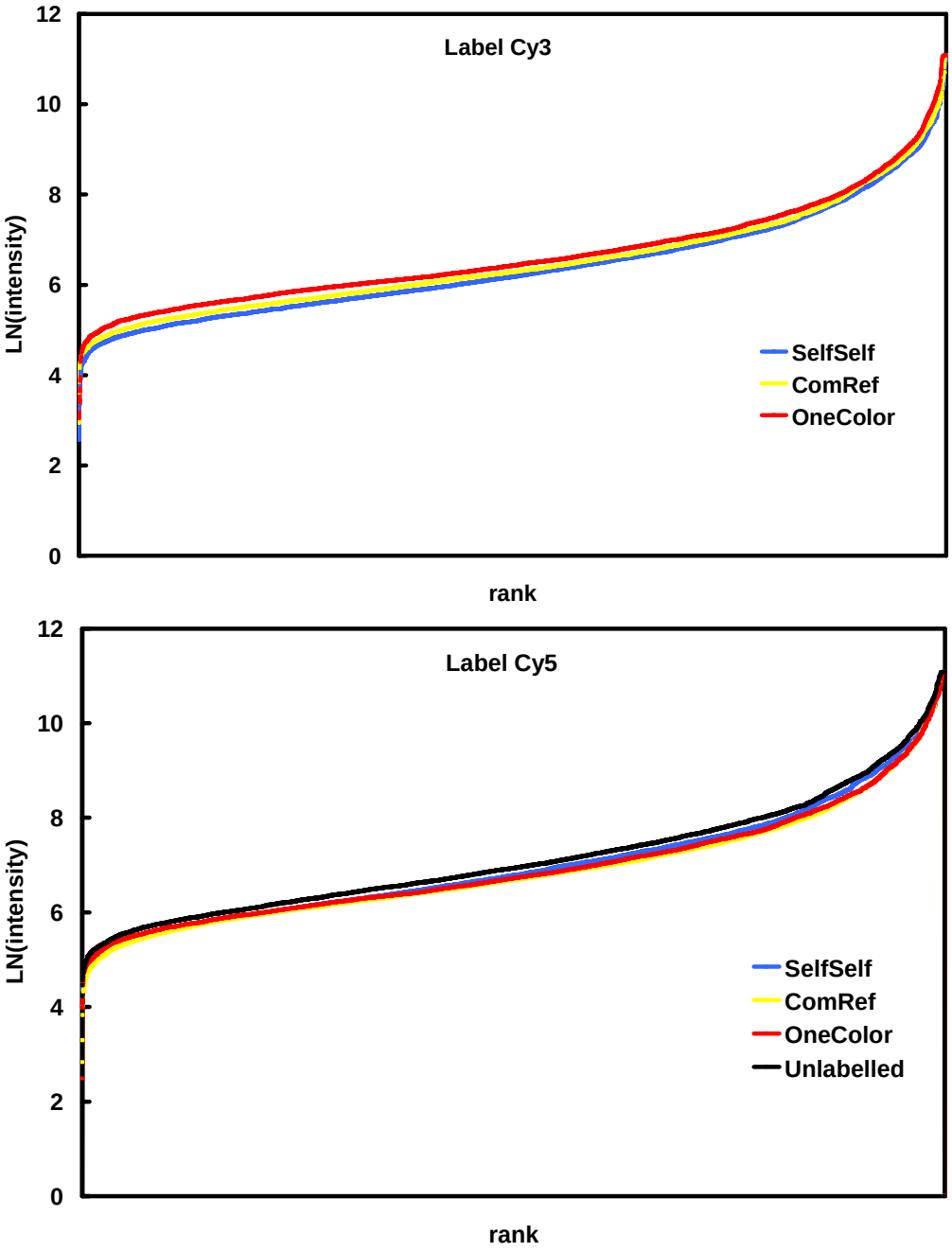
Table S1: Overview of used Hyb-designs and ratio calculations (2nd series)

Hyb Design	Array	Cy3	Cy5	Unlabelled
SelfSelf	13	A	A	-
ComRef	14	A	REF	-
	15	REF	A	-
OneColor	16	A	-	-
	17	-	A	-
Unlabelled	18	-	A	A

Table S2: Pearson correlation coefficients of raw Cy3 or Cy5 signal intensities from sample A, hybridised using different desgins

SelfSelf-3							
SelfSelf-5	**0.99**						
ComRef-3	**0.927**	**0.915**					
ComRef-5	**0.904**	**0.886**	**0.929**				
OneColor-3	**0.906**	**0.880**	**0.860**	**0.861**			
OneColor-5	**0.925**	**0.895**	**0.888**	**0.905**	**0.959**		
Unlabeled-5	**0.924**	**0.911**	**0.882**	**0.864**	**0.939**	**0.950**	
	SelfSelf-3	**SelfSelf-5**	**ComRef-3**	**ComRef-5**	**OneColor-3**	**OneColor-5**	**Unlabeled-5**

Pearson correlation coefficients are coloured according to strength. Dark-grey: R>0.95; Light-grey: 0.90<R<0.95; White: R<0.90.



<u>Figure S1:</u> Effect of hybridisation design on signal intensity distributions.

The LN-transformed background-corrected Cy3 and Cy5 signal intensities from sample A, observed in a self-self hybridisation (SelfSelf, array 13, blue), hybridisations with the common reference (ComRef, array 14 and 15, yellow), one-colour hybridisations (OneColour, array 16 and 17, red) and hybridisation in presence of unlabelled target (Unlabelled, array 18, black), were ranked in rising order and plotted.