

1	- We simulated additional types of relationships (Figure @fig:datasets_rel, second row), including some previously described from gene expression data [@doi:10.1126/science.1205438; @doi:10.3389/fgene.2019.01410; @doi:10.1091/mbc.9.12.3273].	1	+ Simulations of additional types of relationships (Figure @fig:datasets_rel, second row), including some previously described from gene expression data [@doi:10.1126/science.1205438; @doi:10.3389/fgene.2019.01410; @doi:10.1091/mbc.9.12.3273], showed that for random/independent variables, all coefficients correctly agreed with a value close to zero.
2	- For the random/independent pair of variables, all coefficients correctly agree with a value close to zero.	2	+ The non-coexistence pattern, captured by all coefficients, represented a case where one gene (\$x\$) is expressed while the other one (\$y\$) is inhibited, highlighting a potentially strong biological relationship (such as a microRNA negatively regulating another gene).
3	- The non-coexistence pattern, captured by all coefficients, represents a case where one gene (\$x\$) might be expressed while the other one (\$y\$) is inhibited, highlighting a potentially strong biological relationship (such as a microRNA negatively regulating another gene).	3	+ Pearson and Spearman did not capture the nonlinear patterns between variables \$x\$ and \$y\$ in the quadratic and two-lines examples, while CCC increased the complexity of the model by using different degrees of complexity to capture the relationships.
4	- For the other two examples (quadratic and two-lines), Pearson and Spearman do not capture the nonlinear pattern between variables \$x\$ and \$y\$.	4	+ For the quadratic pattern, CCC used four clusters for \$x\$ and achieved the maximum ARI.
5	- These patterns also show how CCC uses different degrees of complexity to capture the relationships.	5	+ In the two-lines example, CCC used eight clusters for \$x\$ and six for \$y\$, resulting in \$c=0.31\$, while Pearson and Spearman gave \$p=-0.12\$ and \$s=0.05\$, respectively.
6	- For the quadratic pattern, for example, CCC separates \$x\$ into more clusters (four in this case) to reach the maximum ARI.		
7	- The two-lines example shows two embedded linear relationships with different slopes, which neither Pearson nor Spearman detect (\$p=-0.12\$ and \$s=0.05\$, respectively).		
8	- Here, CCC increases the complexity of the model by using eight clusters for \$x\$ and six for \$y\$, resulting in \$c=0.31\$.		