

Comparison between currently available protein microarray analysis tools							
	protGear	Protein Microarray Analyser (PMA)	Protein Array Analyzer (PAA)	protein array web exploreR (PAWER)	RPPanalyzer	RPPASPACE	protein microarray database (PMD)
Language	R and Shiny	Java.	R	R and JavaScript	R	R	Php and R
Source code contribution	✓	X	X	✓	✓	✓	X
Vignettes: long-form documentation	✓	X	✓	X	X	✓	X
Interactive GUI	✓	✓	X	✓	X	X	✓
Multiple methods comparison	✓	X	X	X	X	X	X
Background corection	Local and Global Background, moving minimum, half moving minimum, normexp and log linear	Local Background Subtraction	Not specified	Local Background Subtraction	Limma background correct and admin	Local background subtraction	Not Clear
Normalization	Log, RLM, VSN and Cycli Loess	Pin to Pin and Array to Array Normalization	RLM	RLM	proteinDye,row, housekeeping and extValue	spatial corrections	Not Clear
Downstream Analysis	✓	X	✓	X	X	X	✓
Accessibility	✓	<a href="https://sourceforge.net/projects/protein-microarray-analyser/">https://sourceforge.net/projects/protein-microarray-analyser/</a>	<a href="https://bioconductor.org/packages/release/bioc/html/PAA.html">https://bioconductor.org/packages/release/bioc/html/PAA.html</a>	<a href="https://bit.cs.ut.ee/pawer/">https://bit.cs.ut.ee/pawer/</a>	<a href="https://cran.r-project.org/web/packages/RPPanalyzer/index.html">https://cran.r-project.org/web/packages/RPPanalyzer/index.html</a>	<a href="https://cran.r-project.org/web/packages/RPPASPACE/index.html">https://cran.r-project.org/web/packages/RPPASPACE/index.html</a>	<a href="http://www.proteinmicroarray.cn/">http://www.proteinmicroarray.cn/</a>
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Last updated	2021	2018	2020	2020	2020	2020	2021