## **Compare Ionizations**

	onization Method	Typical Analytes	Sample Introduction	Mass Range	Method Highlights
ESI		Peptides, proteins, nonvolatile	Liquid chromatography, or syringe	To 200k daltons	Soft method, lons often multiply charged
MA	LDI	Peptides, proteins, nucleotides	Samples mixed with solid matrix	Too 500k daltons	Soft method, very high mass
APO		Small, polar, non-polar	Liquid chromatography, or syringe	To 1000 daltons	Soft method, molecular ion peak [M+H]+
DA	RT	Small, polar, non-polar	liquid/solid probe	To 1000 daltons	No sample preparation needed, gaseous, liquid or solid samples
EI		Small volatile	GC, or liquid/solid probe	To 1000 daltons	Hard method, versatile, provides structure info
CI		Small volatile	GC, or liquid/solid probe	To 1000 daltons	Soft method, molecular ion peak [M+H]+
FAE	3	Carbohydrates, organometallics, peptides, nonvolatile	Samples mixed with viscous matrix	To 6000 daltons	Soft method, but harder than ESI and MALPI