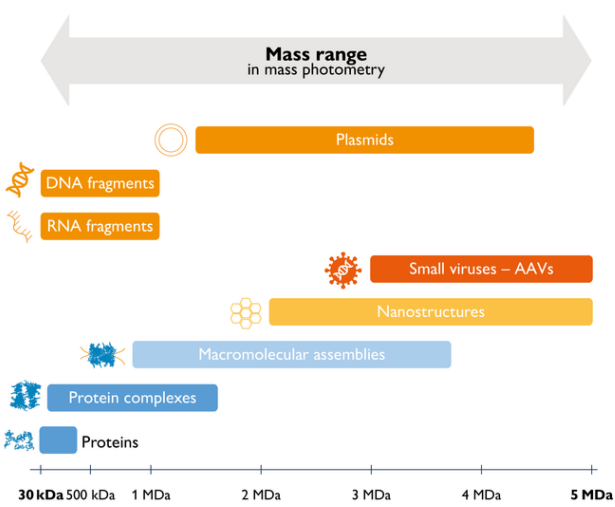
RE FEYN®
WEIGHING MOLECULES WITH LIGHT

What is **mass photometry?**

Mass photometry is a bioanalytical technology that provides a direct mass measurement of label-free biomolecules and AAVs in solution:

- Single-molecule resolution
- Wide mass range
- High dynamic range
- Measures native behavior
- Applicable to a broad range of biomolecules
- Rapid measurement (< 5 minutes)
- Minimal sample consumption (10–20 µL)
- Benchtop device



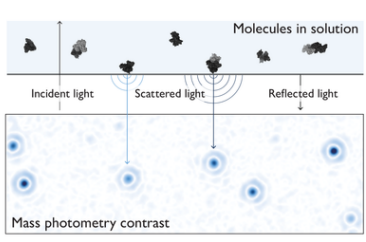
How does **mass photometry** work?

1

Biomolecules landing on a glass surface are illuminated by a laser

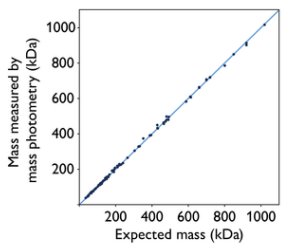
2

The biomolecules scatter light, which interferes with the light reflected at the interface



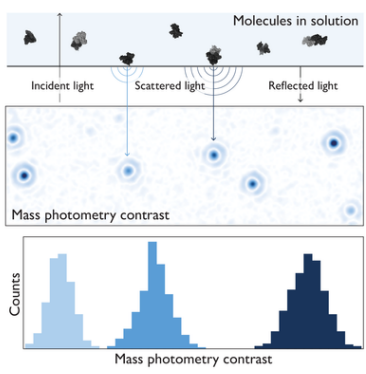
3

The resulting interference contrast scales linearly with the mass of the biomolecule

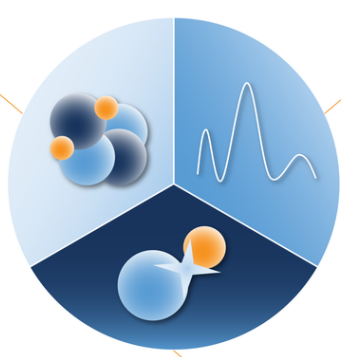


4

A mass histogram is generated from the single-molecule measurements



Applications of **mass photometry**



Analysis of complexes
Complex composition
Oligomeric states

Sample characterization
Aggregation
Empty/full AAV ratio
Sample purity

Interaction studies
Complex stoichiometry
Assembly mechanisms
Binding affinity

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