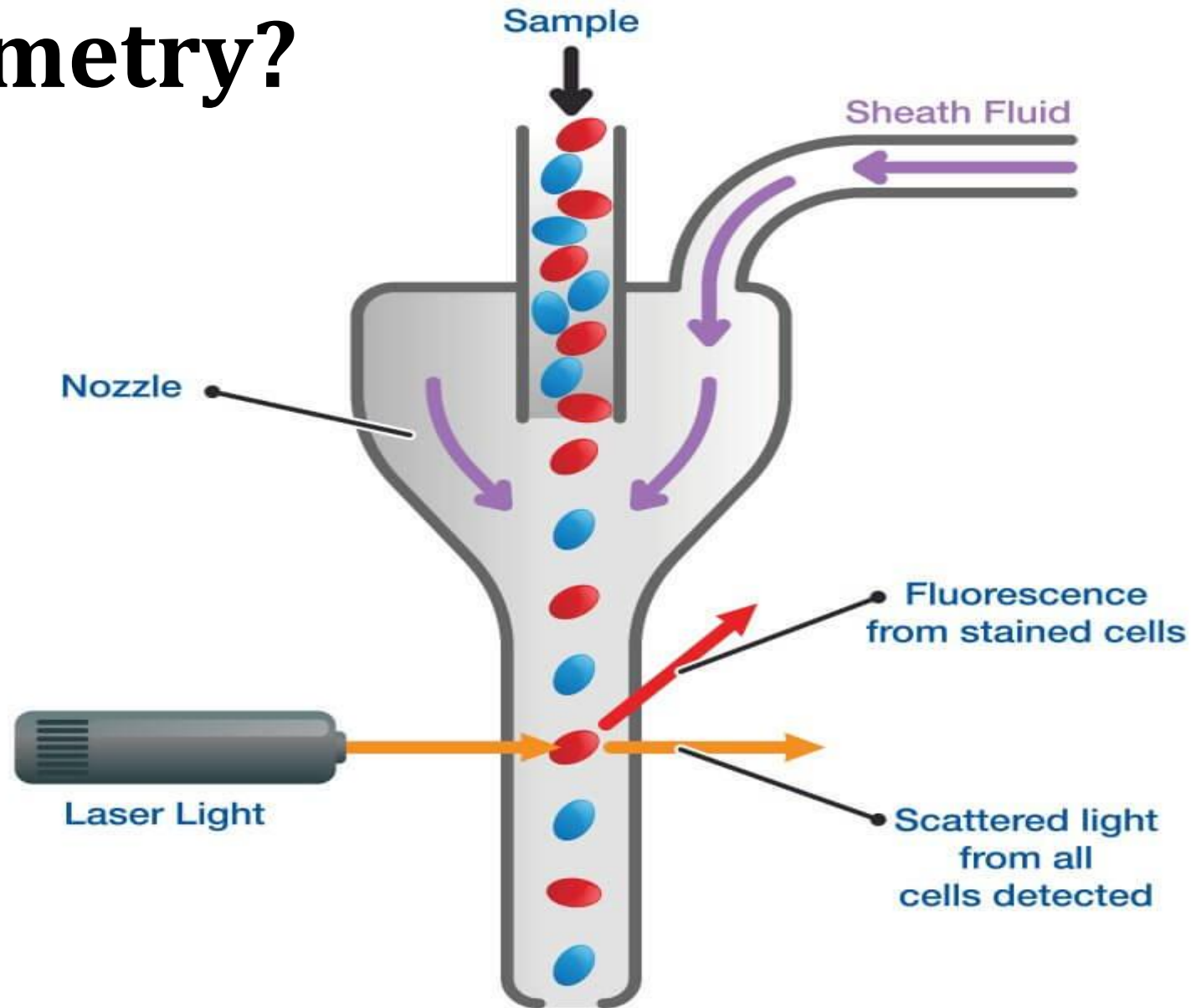


Flowcytometry basics
May2026

FLOW CYTOMETRY

What is flow cytometry?

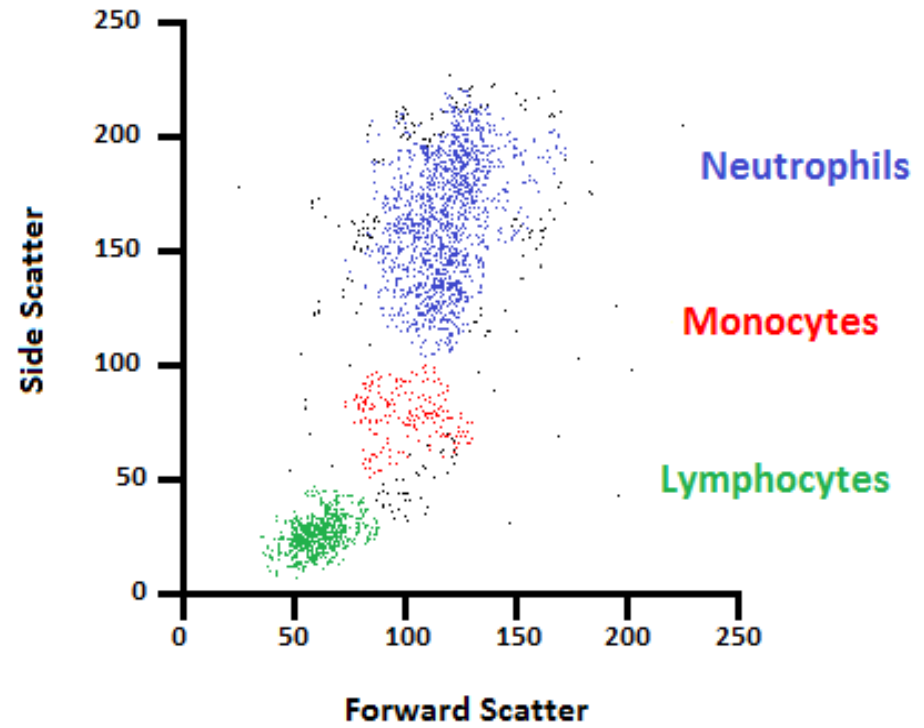
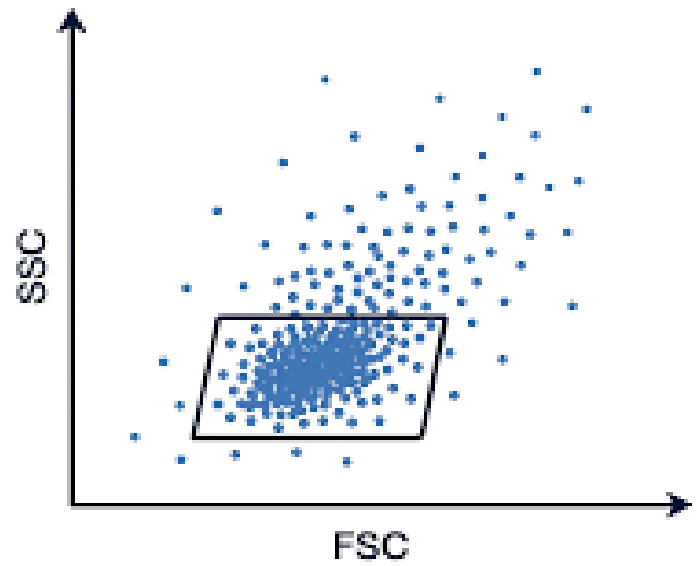
یک تکنیک لیزر بنیان برای اندازه گیری ویژگی های سلول ها به صورت تک به تک



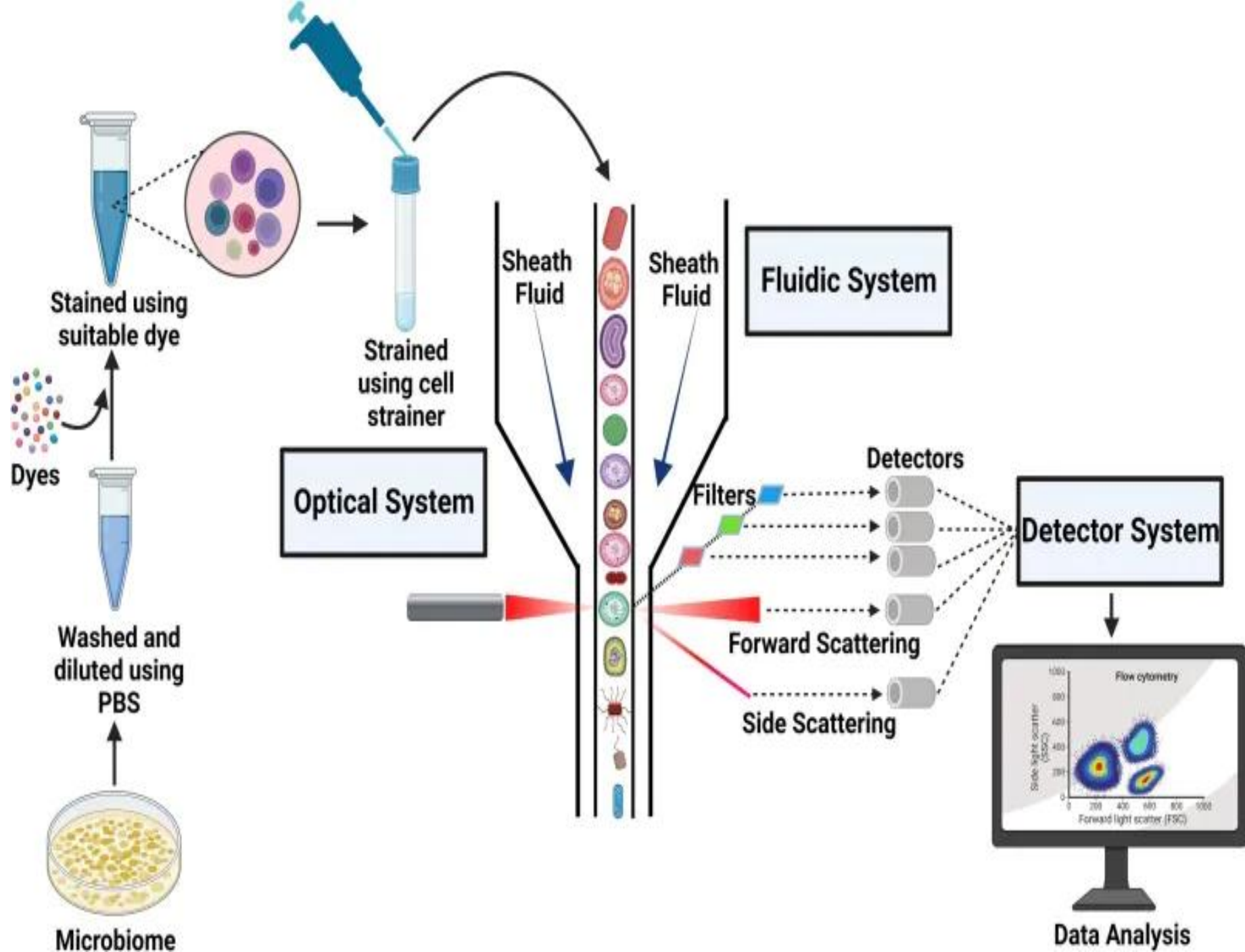
Applications of Flow Cytometry :

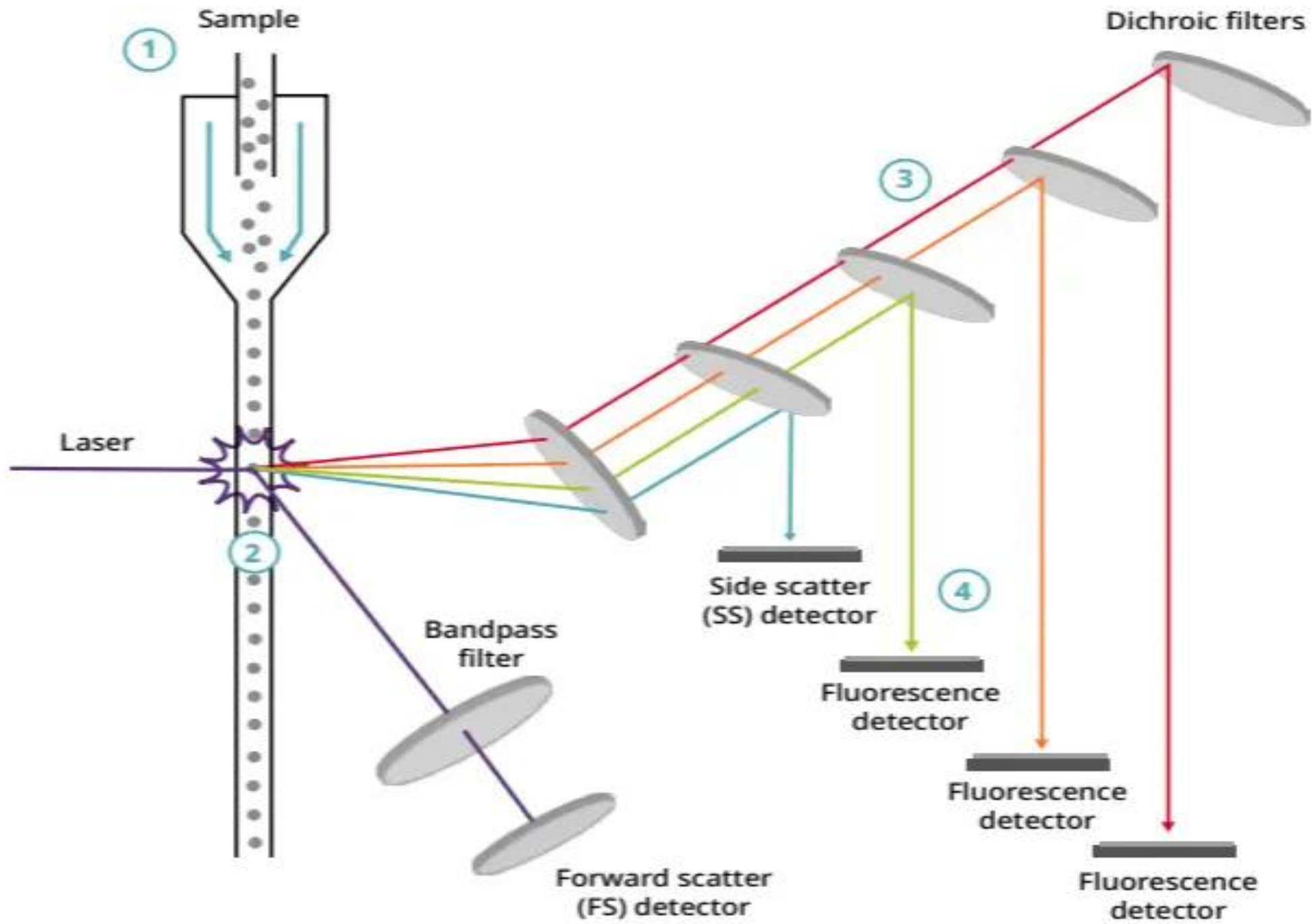
- Accurate identification and counting of cells
- Measurement of enzymatic activities
- Immunophenotyping
- Cell death or apoptosis rate
- Quantification of genetic material in cells
- Assessment of cell proliferation and cell cycle
- Evaluation of cell size, shape, and granularity
- Karyotyping and more...

FSC vs. SSC Gating



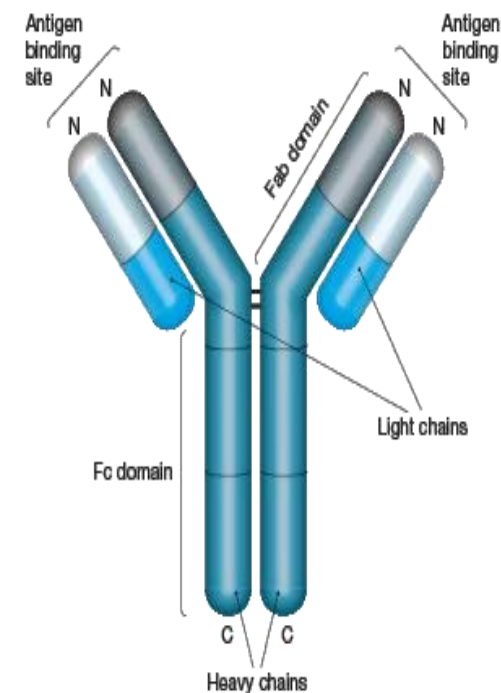
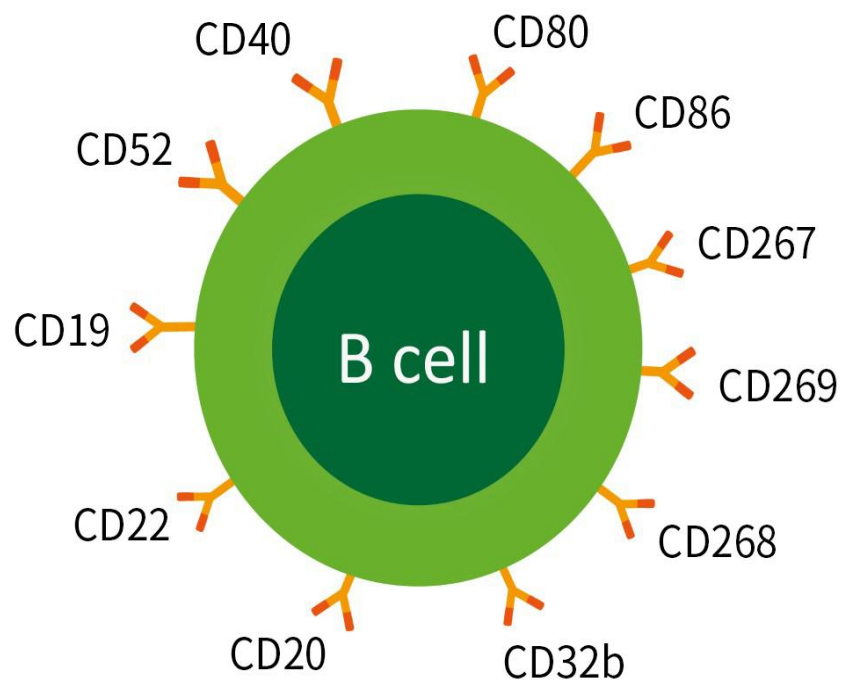
The principle of the device & flowcytometry

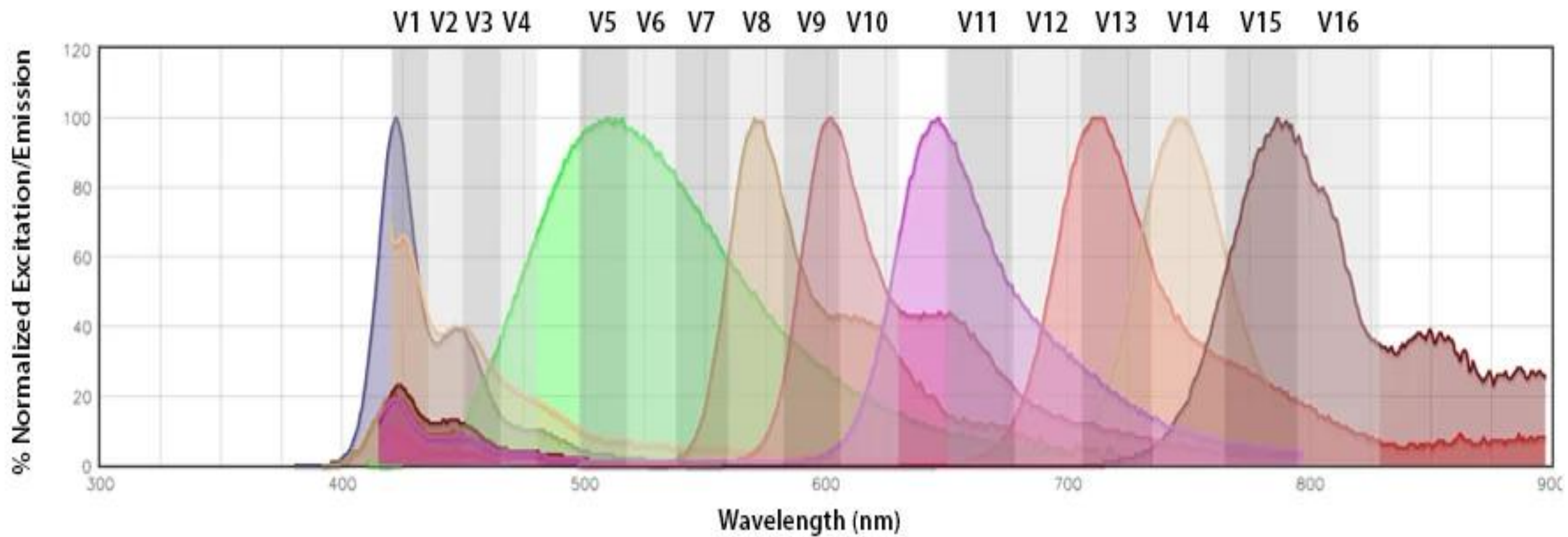




What is an anti Body?

برای شناسایی مارکر های سلولی
اتصال به مولکول های خاص در سطح و
داخل سلول





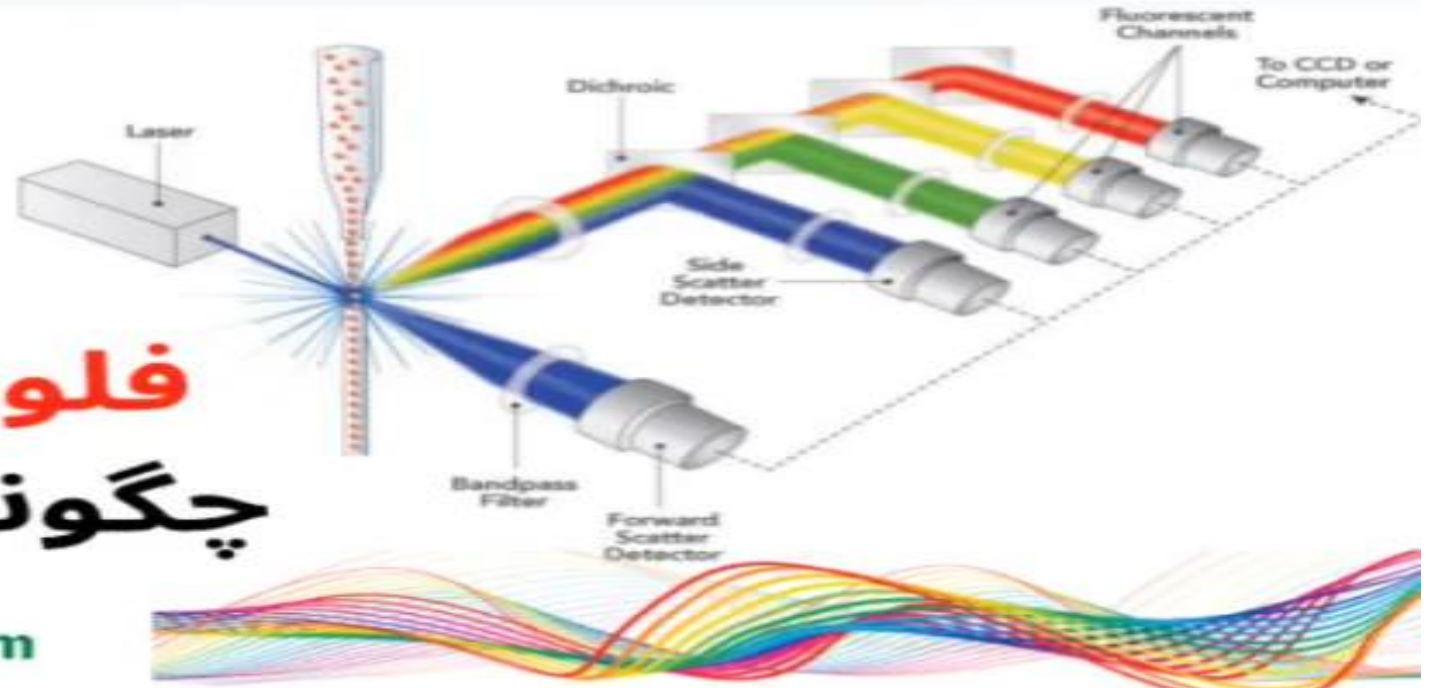
Applications of flow cytometry in the diagnosis and treatment of diseases

- In various autoimmune diseases
- Primary immunodeficiency
- Secondary immunodeficiency, such as HIV
- Follow-up of diseases like MS, infertility, and recurrent miscarriage

Conclusion:

- ✓ It Is a way to see the identity and characteristics of cells using light and fluorescent antibodies

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