Equipment setup. The microscope is connected to the scanning probe microscope controller that controls the position of the piezoelectric scanner and the oscillation of the scanning tip. For **continuous flow** imaging, the fluid cell inlet is connected to tubing directing gravity driven flow from one of three syringes. A flow selection valve determines which syringe is in operation and a metering valve controls the flow rate. The outlet port directs fluid to a balance where the flow rate can be measured. (For **stagnant condition** imaging, the fluid cell inlet is connected to a manually operated syringe.)