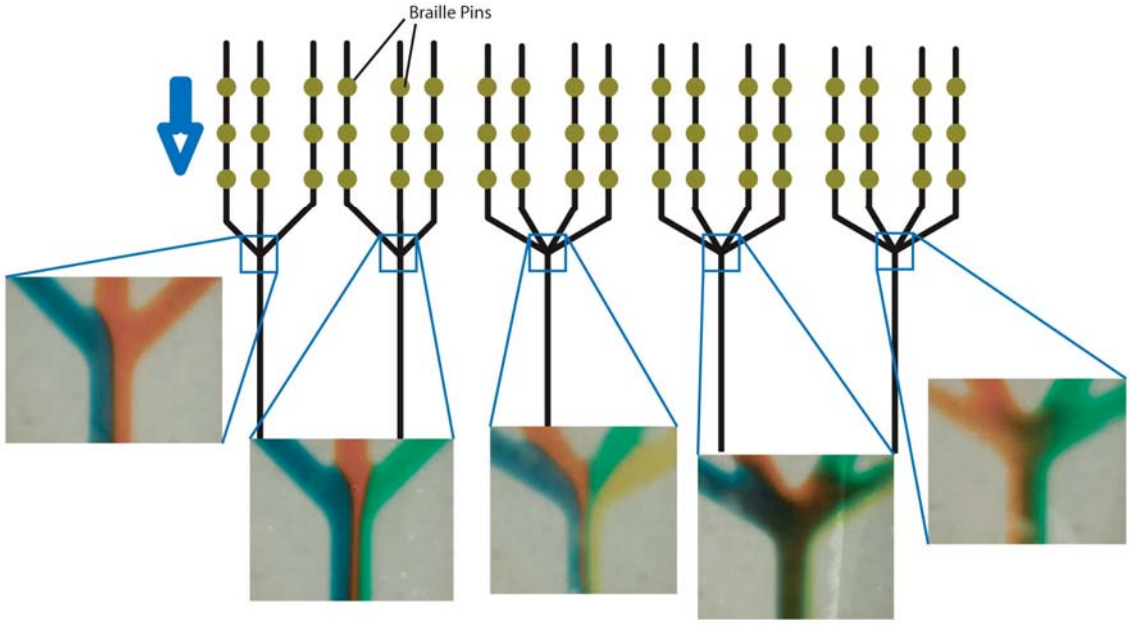Multiple Inlet Experiments