

Plexor™ Systems for Quantitative, Real-Time PCR and RT-PCR: A New Technology that Simplifies Multiplexed Assays.

Join Promega for a workshop for our new Plexor™ qPCR and qRT-PCR Systems. The systems allow simple design of multiplexed real-time PCR assays for genotyping and quantitative analysis. Plexor Technology works on most currently available real-time instrument capable of measuring more than one fluor from Applied BioSystems, Roche, etc. The Plexor™ Systems work by measuring a reduction in a fluorescent signal during amplification. Amplification uses only two primers, one containing a fluorescent tag and a modified base. As amplification proceeds, fluorescence is reduced by site-specific incorporation of a fluorescent quencher inserted opposite a complementary modified base in one of the primers. The quencher is in close proximity to a fluorescent dye located on the end of the primer, resulting in a reduction in the fluorescent signal. After PCR, a melt analysis can be run to provide an internal control for the final assay design or to expedite troubleshooting during development.

Course Outline:

- Demonstration of reaction set-up
- Plexor Technology and its application to gene expression analysis and genotyping talk
- Plexor Primer Design website talk/demonstration
- Data import/analysis software demonstration (hands-on)
- Export/analysis of data generated during workshop

Instructors: Alyssa TenHarmsel, Ph.D. and Kyle Hooper, Ph.D. Promega Corporation.