Galaxy is an open, web-based platform for data intensive biomedical research that enables bioinformaticians and bench scientists alike to create, run, refine, and share analyses. This annual event engages a community of biologists, developers, data producers, core facilities staff, and tool creators, all working towards addressing the challenges of big data in biological research. GCC2014 will start with a training day, followed by two full days of presentations, lightning talks, posters, birds-of-a-feather gatherings, and exhibitors.