

## Industry lecture 2014

### Fremstilling og bruk av Ugelstadkuler inn mot diagnostikk, gensekvensering og cancer immunoterapi.

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Geir Fonnum has M.Sc in Organic Chemistry from the Norwegian University of Science and Technology in 1985, and a PhD in the field of Organic/Polymer chemistry in 1989 at the same University.

His industrial R&D career started in the Surface and interfacial group at Dyno Industries.

In 1991 he started working with Ugelstad spheres for chromatography applications in first at Dynochrom and later at Pharmacia Biotech.

In 1999 he moved to Dyno Specialty Polymers which was acquired by Dynal in 2001. Dynal was acquired by Invitrogen in 2005, merged to Life Technologies in 2009 and was acquired by Thermo Fisher in 2014.

Geir has been leading the bead chemistry development at Dynal since 2001. During the last 15 years Dynal R&D has developed both magnetic and non-magnetic beads products for a broad range of applications ranging from In vitro diagnostics and proteomics to semiconductor DNA sequencing (Ion torrent) and beads for cancer immunotherapy. Dynal is at the moment the world leading supplier of magnetic beads for these applications.

In his talk Geir will show how Dynal uses the Ugelstad technology to produce magnetic beads for bioseparations. He will also show how Dynal uses different bead architectures to solve the requirements of different biological applications and also the results of the major cancer immunotherapy work.

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