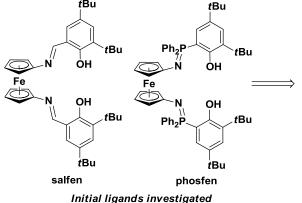
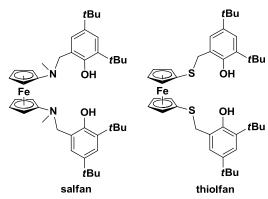
## NON-INNOCENT LIGANDS AS A REDOX SWITCH FOR COPOLYMERIZATION REACTIONS Paula L. Diaconescu

Department of Chemistry & Biochemistry, University of California, Los Angeles

## Development of new supporting ligands

Reported ferrocenesupported complexes 4 suffer from poor activity in olefin polymerizations.





Current ligands under investigation

## **Proof of concept**

Proof of concept was demonstrated for a Zr bis(t-butoxide) complex: the reduced-ferrocene complex polymerizes lactide, while the oxidized-ferrocene complex polymerized ethylene oxide.

This activity is orthogonal, ach catalyst reacts with only one money.

complex polymerized ethylene oxide.

This activity is orthogonal,
i.e. each catalyst reacts with only one monomer
when both monomers are present.

