Curcumin, biologically active ingredient extracted from turmeric (Curcuma Longa) exhibit diverse pharmacological activities: antioxidant, anti-inflammatory, anti-HIV to anti-cancer activities. Curcumin was first isolated in 1842 by Vogel and then structure was determined by Milobedzka in 1910. It was synthesized by Lampe in 1918. First crystal structure of curcumin was determined by X-ray diffraction in 1982. In 2011 two new polymorphs and one amorphous phase was discovered by Sanphui et. al. Chem. Commun 2011, 47, 5013-5015.
DEDICATION

This Thesis is

Dedicated to my beloved Parents and Teachers