A new class of indolyl dipyrzaoles and indolyl dipyrzolyl thiazoles were prepared from the synthetic intermediate \((E)-3-(1H\text{-indol-3-yl})-1-(4-aryl-1H\text{-pyrazol-3-yl})\text{prop}-2\text{-en}-1\text{-one}\) under ultrasonication. All the compounds were obtained in higher yields and in shorter reaction times under ultrasound irradiation method when compared with the conventional method. The lead compounds were tested for antioxidant activity. Amongst all the tested compounds methyl substituted indolyl dipyrzolyl thiazoles and methoxy substituted indolyl dipyrzolyl thiazoless showed significant antioxidant activity.

\[
\begin{align*}
\text{Ar} & = \text{a) Ph} \\
& = \text{b) 4-Me \cdot Ph} \\
& = \text{c) 4-OMe \cdot Ph} \\
& = \text{d) 4-NO_2 \cdot Ph}
\end{align*}
\]