Norrish–Yang reaction

Photochemical process leading to the formation of cyclobutanols from excited carbonyl compounds by intramolecular \( \gamma \)-hydrogen abstraction (Norrish Type II photoreaction) and subsequent 1,4-diradical combination.

\[
\begin{align*}
\text{O} & \quad \text{CH}_y\text{R}_2 \\
& \quad \xrightarrow{hv} \\
\text{OH} & \quad \text{CR}_2 \\
& \quad \rightarrow \text{HO-CR}_2
\end{align*}
\]

Source:
PAC, 2007, 79, 293 (Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006)) on page 375