## Les espaces reactives de l'oxygene: production et reactivite

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The oxygen, indispensable to aerobe life, may become dangerous for the living organisms, when it is transformed in more reactive species. Ground – state (or triplet) molecular oxygen is the major oxygen form. A small percentage of the oxygen exists in a singlet state (1O2), caused by absorption of energy (e.g. from UV light) In the pathway for oxygen reduction, the O2 is first reduced to the superoxide anion radical (O2) and then to the peroxide anion (O22), forming the hydrogen peroxide (H2O2). A third electron reduction produces the extremely powerful oxidant, hydroxyl radical (HO). Ground – state oxygen itself is a mild oxidizing agent; whereas singlet