Methods and Compounds for Treating Cancers

TECHNICAL FIELD
Cancer Therapeutics

APPLICATION
Methods and use of highly selective compounds that treat cancers with increased reactive oxygen species.

DESCRIPTION
The present invention provides a novel strategy for the treatment of renal, melanomas and other cancers by using highly selective compounds. The compounds selectively trigger toxic reactions in cancer cells with increased reactive oxygen species. These hydroquinone-modified DNA-modifying agents afford the benefit of an enhanced therapeutic index compared to other agents with a similar mode of action since they are strategically activated. Thus, this agent’s design strategy produces lower off-target reactivity toward primary cells. Additionally, the strategy is complementarily with other therapies. Since these agents are stable they are amenable to high throughput screening.

ADVANTAGES
• High Level of Selectivity
• Latent Until Activated
• LOWER Side Effects

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US provisional patent filed

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