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(54) Title: CONJUGATED AROMATIC COMPOUNDS FOR DIAGNOSIS AND THERAPY

(57) Abstract: Disclosed herein are compounds, compositions and methods for using such compounds and compositions in the treatment of hyperproliferative conditions, including precancerous and cancerous conditions. In one embodiment, the compounds include resonance modulating compounds that can be used in the method as a coupling agent that is capable of interacting with the immune system to monitor or stimulate immune function. Such resonance modulators have inherent electromagnetic properties that attract immune cells to a target area to which the resonance modulating agent has been applied. Electromagnetic properties (such as a voltage amplitude) of the target region are altered in the presence of the resonance modulator, and serve as an indicator of immune function. An external stimulus (such as an applied electromagnetic field) can also be applied to the resonance modulator to enhance its immune stimulating and attractant properties. Particular examples of resonance modulators are disclosed, and these substances generally possess resonating intramolecular dipole moments that are capable of electrostatic interaction with biological environments. In certain examples the compounds aggregate at sites of therapeutic action to enhance their therapeutic activity. In other examples the compounds stimulate platelet production.



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