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IMPACT REPORT

Robert Cabes/Jane's Joyride

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How your gift is Making Cancer History®

Starting new areas of research can be quite difficult since obtaining funding support for such ideas can be challenging. Without your support, Mr. Cabes, and that of Jane's Joyride, we would not have been able to launch this important area of research.

Developing new therapies that are well tolerated is an important need in treatment of patients with ovarian cancer.

We recently discovered that plants are capable of making small particles, termed plant derived vesicles (PDVs), that can be used as a treatment and also as a delivery method for packaging RNA molecules. We have tested multiple plant species and discovered that PDVs from many of these (for example, PDVs from green tea) contain large quantities of anti-inflammatory substances. These can have potent therapeutic effects since they can deliver the anti-inflammatory substances into the tumor at far greater quantities than would be possible by simply consuming green tea.

We are also testing a formulation whereby we have packaged RNA molecules into PDVs from specific plants. In ongoing work, these have had remarkable activity in reducing ovarian cancer growth in animal models.

With your support, we have made substantial progress in using PDVs as a new mode of therapy for ovarian cancer. With further testing and development, there is potential to open up new options in the future for cancer therapy.

We have plans moving forward that build on this important research:

- 1) Testing additional plant species for identifying high-priority PDVs
- 2) Expanding testing of PDVs in additional model systems and testing combination therapies.

This work was only possible thanks to your generosity, Mr. Cabes, and the support of Jane's Joyride. Thank you!