

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number** Stephen Li 22166 **Project Title** The Scientific Study of the Effect of Ancient Chinese Medicine: Turtle Jelly on Cancer **Abstract** Objectives/Goals ne, Turtle Jelly My project objective is to study and verify the effectiveness of ancient Chinese inhibiting cancer cell growth. Methods/Materials Decocted different herbal ingredients together produced Turtle Jelly Liver and lung cancer cells wex used in the experiment, as well as different equipments, which were provided by the research institute of VA Hospital Palo Alto. Extract of the herbs was tested and compared with the intreated group. Tht number of cells after the treatment determined the effectiveness of the medicine. **Results** Turtle Jelly was truly effective in inhibiting the liver and lung cancer cell growth. Among the individu herbal ingredients, except Turtle Shell, Glabrous Green Rhizoma, Barbated Skullcup Herb, Akebiax Stem and Densefruit Pittany Root-bark, were found to have certain decrees of inhibitive effect on thx growth of cancer cells. **Conclusions/Discussion** Turtle Jelly was first analyzed by using the cell tissue cultivation method by Dr. H.Y. Cheung of the Cil University of HK. Since the herbs are not pure elements, distinct effect can be observed when high doses are used. Turtle Shell contains abundant amine acids, calcium, animal glue, fat calcium and phosphorous. Rather than growth inhibition, these substances provide nutrition for cancer cell to grow. These datx showed that Turtle Jelly should be dispensed and analyzed carefully when used. Summary Statement e effectiveness of Turtle Jelly on inhibiting cancer cell growth. Help Received Dr. Tao Li taught me how to work on the project.