

**Annual Progress Report
FY 1993-1994**

Project Leaders: Dan Brown

Station I.D. #085

Project Title: Poison Oak Bio Control

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Progress during this report period:

- 1) Found that urushiol is not transferred to the milk or urine of ruminants consuming poison oak.
- 2) Rumen activity does not destroy urushiol, but saturates some sidearm double bonds.
- 3) Urushiol is found in the feces.
- 4) We have not yet ruled out urushiol/protein complexes in milk, but they are unlikely.

Publications:

Kouakou, B., D. Rampersad, E. Rodriguez, D. Brown. 1992. Dairy goats used to clear poison oak do not transfer toxicant to milk. *California Agriculture*, V46:3. pp.4-6.

Kouakou, Brou. 1991. Fate of Urushiol When Consumed by Dairy Goats. MS Thesis. University of California, Davis.

Tzeng, Chang Ching. 1993. Effect of 24, 48, or 72 hour in vitro rumen fluid incubation and pepsin HCl treatment on poison oak urushiol. MS Thesis. University of California, Davis.

Tzeng, C.C., D.L. Brown. July 1994. Effects of in vitro rumen fluid incubation and pepsin HCl treatment on poison oak urushiol. Abstract. ADSA/ASAS Joint Annual Meeting, Minneapolis, MN.

Major meetings, field days, workshops, etc.

None