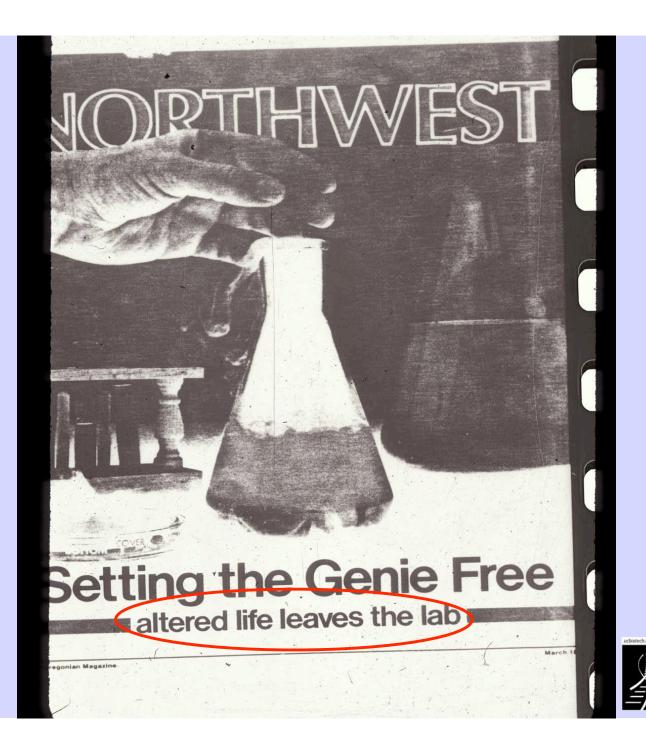


Peggy G. Lemaux, Barbara Alonso University of California, Berkeley Alison van Eenennaam University of California, Davis



Newspaper coverage of the first field test of a genetically engineered organism in northern California in 1986.

The ice-minus bacterium



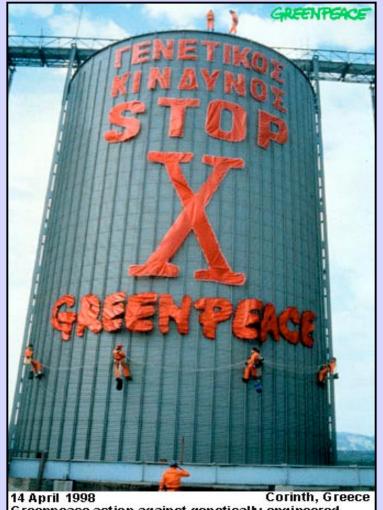
And this is what greeted residents during that first field test – men in moon suits spraying a genetically engineered organism on their local fields



More than a decade later concern over GE foods spread to Europe, when governments failed to quell consumer fears about mad cow disease and dioxin contamination of foods. In the late 90's Greenpeace stages protests and destroys fields of GE crops.



Greenpeace decontaminates GM field - Lord Melchett arrested SOURCE: 128/99. LANG/MAIL, Greenpeace



14 April 1998 Corinth, Greece Greenpeace action against genetically engineered soya at soya mill. © Greenpeace/Karayannis



#### And protests have continued – forty Greenpeace activists in 2004 ready to destroy GE crops in Switzerland





And in July 2008 Greenpeace activists vandalize field of GE maize in France

# A letter in 1999 from Greenpeace to Gerber starts corporate reaction in U.S.

Wall Street Journal Friday, July 30, 1999

#### **Strained Peace**

Gerber Baby Food, Grilled by Greenpeace, Plans Swift Overhaul

Gene-Modified Corn and Soy Will Go, Although Firm Feels Sure They Are Safe

Heinz Takes Action, Too

By LUCETTE LAGNADO

Staff Reporter of THE WALL STREET JOURNAL The letter scrolling out of a fax machine at the Gerber baby-food company in Michigan May 28 was just one of many arriving that day and didn't even name the person it was meant for, but it sure got attention. Within days, it had found its way to Gerber's parent company in Switzerland, Novartis AG, and come to the attention of its CEO. There, executives soon were taking steps to overhaul a decades-old product











And protests continue in the U.S. in 2007 – like rallies associated with the BIO meeting







### MENDOCINO COUNTY ORDINANCE March 2004

- "Unlawful for any person, firm, or corporation to propagate, cultivate, raise, or grow genetically modified organisms in Mendocino County" (excluded microorganisms)
- "<u>DNA</u> or deoxyribonucleic acid means a <u>complex protein</u> that is present in every cell of an organism..."
- At election time, no GE organisms were known to be in production in Mendocino County



### The discourse on both sides of the issue was often driven by alarming assertions and facts that were not derived from, nor supported by science

Dear Friends,

While the rest of the country focuses on one presidential candidate or another, Measure D represents Biodemocracy in action. Rarely do we have the opportunity to change the

Contamination is spreading so quickly that we have little time to waste before our entire food supply is lost forever...

statewide ban on GE crops. California's future is organic!

Yours in organics, Organic Consumers Association www.organicconsumers.org

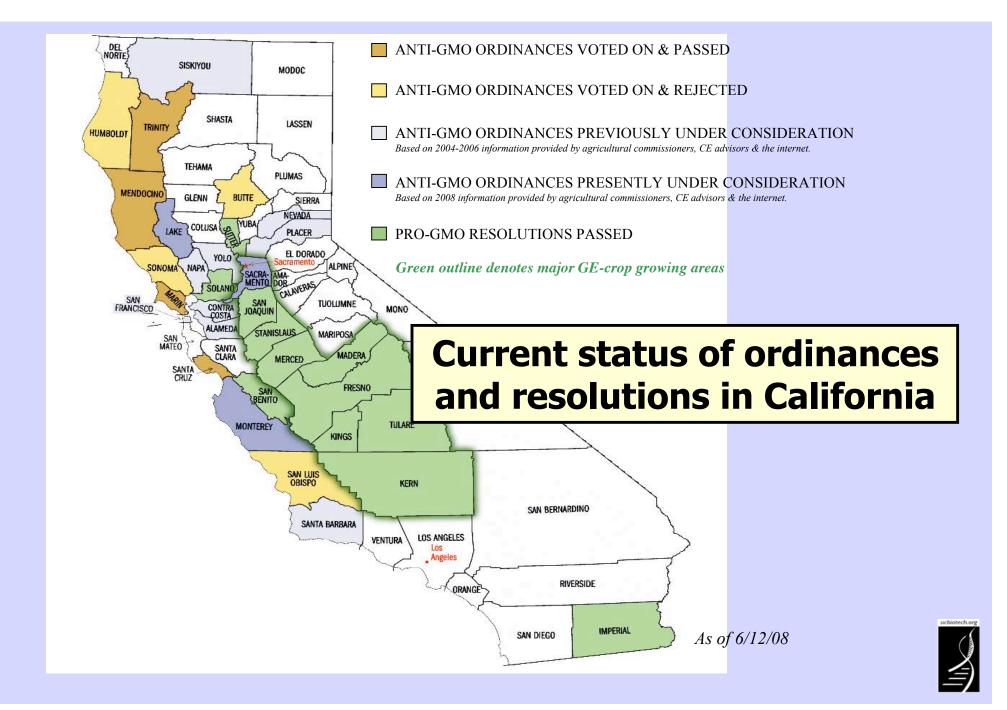


### The discourse on both sides of the issue was often driven by alarming assertions and facts that were not derived from, nor supported by, science

"Measure H should be rescinded...on the basis that multitudinous GMOs have alway because: ... in order to remove present GMOs all soil 1. would have to be plowed under or removed... 2. 3. Fire retardants for fighting forest fires cannot be abolished... in order to remove present GMOs all soil would have to be plowed under or 4. ...anyone visiting another county or coming in 5. ected at on a plane, train, or boat would have to have a security check... 6. buld

All of the above I have thoroughly investigated through pertinent organizations..." Marie White, Ukiah Daily Journal November 16, 2003

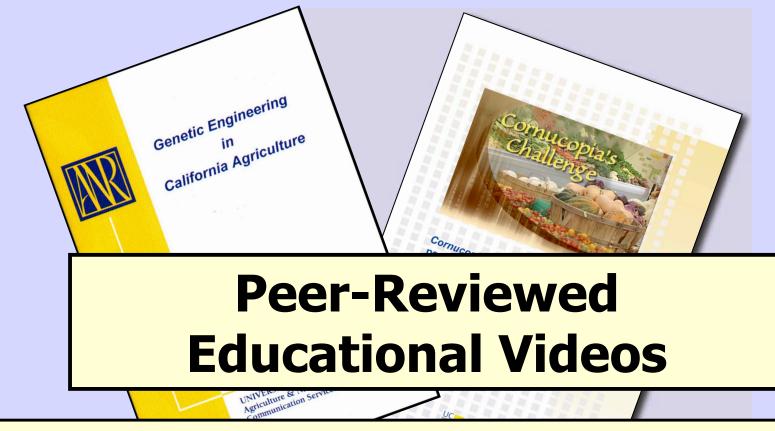






Jeffrey M. Smith



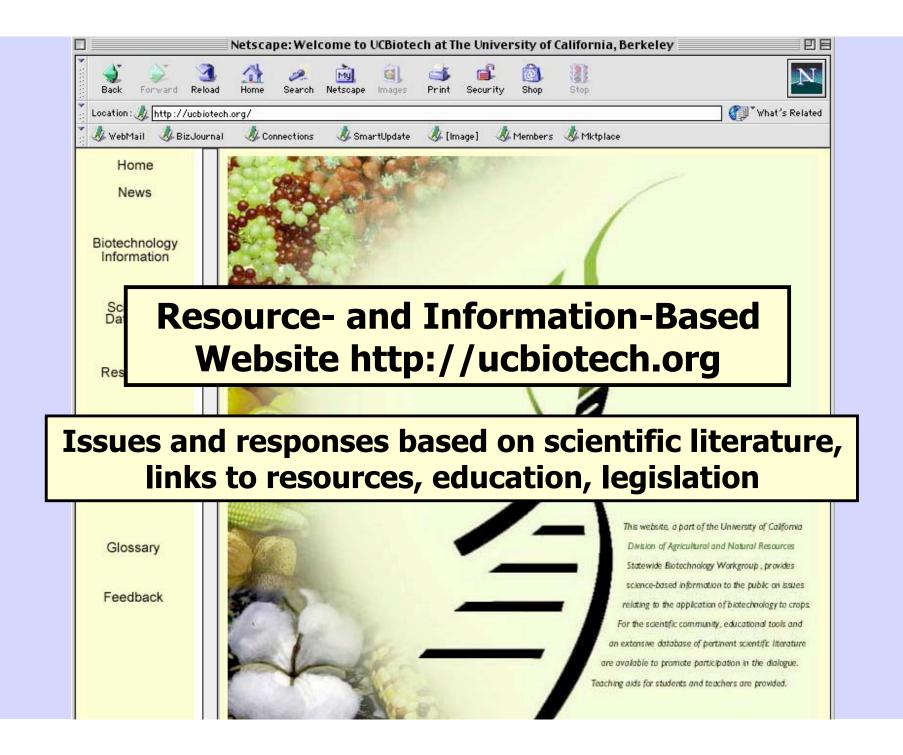


#### **30-minute, Peer-reviewed Videos**

"Genetic Engineering in California Agriculture" explains where and why genetically engineered crops and animals are being used in California.

"Cornucopia's Challenge" explains the challenges farmers face in growing and marketing crops for diverse markets and consumer preferences.







Plant Diversity: The Foundation of Tomorrow's Foods

## Educational Displays for City, County and State Events

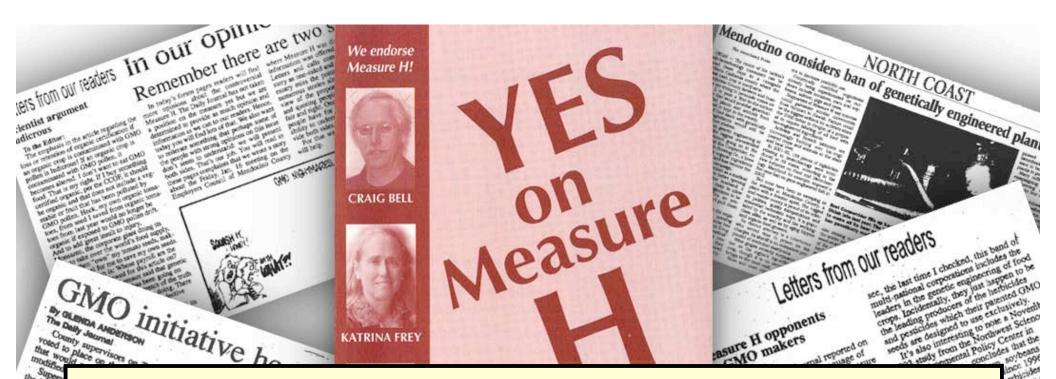
Foods: Yesterday, Today, and Tomorrow





## Informational Workshops for County Officials and Staff





## **Informational pieces for newspapers** take time to provide your expertise to the debate

ore on

y has he , organic 400 45

to the Editor: 've been reading with ortations in support of ban ning in Mendocino County. sionate, the arguments lack

s of forethought. We all know that by cross-po selective breeding over the ca st farm products have already fified genetically. Now we have e that gives us the ability to spea process by means of laboratory cing. We have used this new scien

TONY CRAVER loin us! Protect our private property!

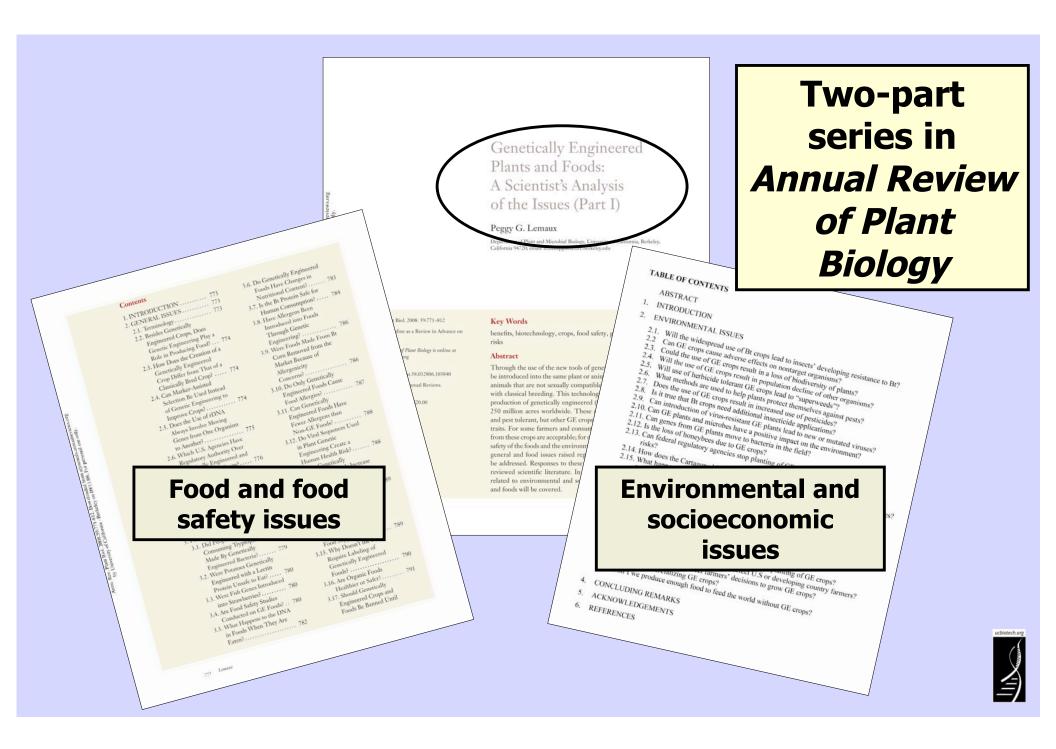
Keep Mendocino County **GMO FREE!** 

and, the petition does not prohibit birds, animals, fish, fire retardan, narive Datas, annuals, tata, tata postoani, ta Plants, solls, cattle berds, bees, cotte Pianas, sous, casue meros, ores, conse meros, apple julice, etc., etc., etc., if you wish to parchase genetically modified foods available in your supermarket, you are free to do so, What the petition does prohibit is the growing of ed organizana that by means can cross-poli grapevines and oth ps and destroy their marketability, and and the second s pt the local acosystem. This ame these crops to not require the Jah

easure H, but without see text for measure H, I wa validity of their argument

argument for measure H wa one planted a fiel ucbiotech.org MI ne pollen that would crop onto a neighbo ps, that the neighbor rganic certification. little research to find I talked to Ray Green Organics for the State of California

crop





What will happen with the application of and research in genetic engineering of agricultural crops and animals in the future?





**GENE THERAPY?** 

**GLOBAL WARMING?** 

**NANOTECHNOLOGY?** 

Will the continuing, often anti-science debates affect the education, attitudes and opportunities for today's students?



### In Chapter 3 "What Could Go Wrong? – A Partial List..."

**CANCER** "The CaMV light switch and other viral promoters used in GM crops can also activate other, non-viral genes in the species where it 'happens to be transferred. One consequence of such inappropriate over-expression of genes may be cancer'."

WAKING SLEEPING VIRUSES "The nature of the CaMV promoter presents another risk, which is probably the greatest risk of GM crops. Laboratory research demonstrates that ' the insertion of modified virus and insect virus genes into crops' can 'create highly virulent new viruses'."

Government Lies

UNPREDICTED TOXINS "In human gene therapy, studies have verified that insertion mutation can lead to leukemia in children...In plants the disruptions may be similarly dangerous, producing unpredicted toxins."

Jeffrey M. Smith

