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## Worksheet 13b genetic modification of papaya plants using soil analysis

The cabinet turned down a proposal to end the 2001 moratorium, deciding to leave the decision to the next administration (Bangkok Post, 2007b). Farmers who purchased non-GE seed from the station were those whose livelihoods were most immediately affected (Wongruang, 2004; V. Collaborating with regional researchers and promoting technology development in-country also fosters the future capacity of the country in question.Economic factors weigh heavily. Gajasen calls the campaign against GE papaya one of the “highlights of Greenpeace Southeast Asia.”Gajasen readily admits that Greenpeace’s style of campaign can be “too radical for Thai people.” But according to him, campaigning in a more culturally sensitive way was not effective. 2005: A 100-g serving of ripe papaya (about one-quarter of a small Hawaiian papaya), provides 133% of the recommended daily intake of vitamin C for an adult and 33% of the recommended daily intake for vitamin A (Duxbury, 2003).Papaya is consumed in the developing world as a fresh fruit, as a raw green vegetable in salads, and as a cooked vegetable. According to Gajasen, Bangkok was chosen as the home of the southeast Asia office because it offered financial and political support (J. Sriwongchotsakul, personal communication).Despite the impact that GE papaya had on farmers like Sriwongchotsakul, who were targeted during the 2004 event, most small-scale farmers in her position have little to no knowledge of GE crops. In 1986, Prasartsee contacted Gonsalves who was experimenting at the time with cross protection. There it has become the poster child, both literally and figuratively, for the debate over agricultural biotechnology in general.”The controversy in Thailand [over papaya] between the government and a small group of activists is making things slow down in our country and is only getting worse.”—Vilai Prasartsee, director, Khon Kaen Plant Material and Technical Service Center, Thai DOA.Thailand is a major food exporter and a regional leader in intellectual manpower and technical resources. Finally, many countries’ markets are dependent on the political and consumer demands of importing countries. Gajasen, personal communication). With the cloning of the CP gene of PRSV, the development of the gene gun (Sanford et al., 1987), and advances in tissue culture, they were able to transform papaya with the CP gene. It is arguable that without the influence, both financial and ideological, of the European-based group, the cabinet’s ban on GE crops may never have come to pass. Between 2001 and 2004, six sets of experiments were conducted that showed no ecological effects of GE papaya on adjacent non-GE trees, microbial flora, beneficial insects, or the surrounding soil. Thus, it helps alleviate two of the “big three” micronutrient deficiencies that plague undernourished people globally (iron, vitamin A, and iodine). Foreign Agriculture Service, Bangkok, ThailandWongruang P (2004) Agriculture ministry confirms contamination. In the case of Thailand, 90% of the papaya is consumed domestically. However, before he reached the cabinet meeting, Greenpeace dumped roughly 10 metric tons of papaya in front of the Ministry of Agriculture building. In September, 2004, the agriculture minister confirmed the seed leak when one sample of 239 from farmers who had purchased what was assumed to be non-GE papaya from the research station tested positive (Samabuddhi, 2004a). MS thesis. Ultimately, the plant dies.PRSV was identified on the Hawaiian island of Oahu in the 1940s and became a significant threat to the industry in the 1950s. The day after the protest at The Pra, a group came to collect samples of her fruits and left with several bags for testing. The MOU with Thailand distinguishes humanitarian from commercial use. The absence of biosafety laws can make it easier for anti-GE groups to claim that crops will be introduced injudiciously. Although a minor crop by global commodity standards, papaya holds considerable promise for diversifying the diet of the rural poor in tropical countries. CRF acquired the licenses in each case, and could then legally transfer to each of the collaborating partners. Easily bridged a barbed wire fence with a stepladder, they began pulling transgenic papaya (Carica papaya) from the trees, throwing the fruit into biohazard waste bins. In 2003, Sriwongchotsakul, leading a cooperative of 50 village members, purchased 5,000 supposedly non-GE papaya seedlings from the station and was registered as a seed recipient (Samabuddhi, 2004). As feared, PRSV hopped islands and by 1995 the industry was in crisis, with trickle-down effects that threatened the economy of Hawaii (the Big Island) as a whole.Fortunately, that year also marked the start of a large-scale in situ field trial of Rainbow D. Understanding the political and social factors that stymied this promising technology in Thailand may help in devising better strategies for introducing the next generation of biotechnology crops to other countries.”What struck me in the beginning was that there was a way that was never before possible to combat a disease.”—Carol Gonsalves, researcher.The Papaya ringspot virus (PRSV) is transmitted by aphids and is the single-most threatening factor to papaya production worldwide (Gonsalves, 1998). When asked if they had heard of genetic engineering, 30% said they had. Small-scale growers (0.4–2.4 ha of papaya) adopted the technology most rapidly. Yet, in no place outside Hawaii have growers or consumers reaped the benefits of these plants. Biotechnology Alliance Association, Bangkok, ThailandThitprasert W (2003) Status of policy and regulation of transgenic plants in Thailand. Thailand produces less than 2% of the world’s papaya crop, and ranks as the world’s 12th largest producer (Sriwatanapongse et al., 2007). He continued, “If you hit the Tha Pra research station and hit GMO papaya where [papaya] is the basic food for Isaan people, you can be more effective.”Gajasen explained, “After our campaign in Isaan there were a lot of local organizations that raised hell about the GE papaya as well as to the government.” He concluded, “We are catalysts.”Although fighting the zero-tolerance policies of Greenpeace may seem a daunting endeavor for scientists, not all anti-GE activists groups are as hardheaded. It all comes down to political will. Southeast Asia (2004) Unfinished Business: New US Patents on GE Papaya in Thailand. That is the essence of modern life.”—Dennis Gonsalves.If papaya is such a promising transgenic crop, why is it not being grown across the tropics? Ninety-four percent of respondents approved of the technique, 3% did not, and another 3% were unsure. The authors argue that this technology is particularly suitable for low-income farmers. Xiang (2007) observed that American newspapers reporting on GE papaya were more likely to cite scientific journals, industry representatives, and farmers than their counterparts in Thailand. Regional offices subscribe to a locally relevant subset of campaigns put forth by GPI, and to varying degrees are financially dependent on GPI. GPSEA’s increasing momentum is reflected in the media’s coverage of GE papaya and the government’s wavering position on biotechnology crops.The Thai media coverage of GE papaya was low from 2001 to 2002, but subsequently underwent a “hoopla effect” in 2004 (Xiang, 2007; p. This acted as a “trigger” event in media coverage of GE papaya in the second half of that year, and it remained a hot topic for some time (Xiang, 2007; p. But the reason why the biotech [sector] is pushing for the papaya is because they want papaya as a front leader to open the gates for another big crop in this part of the world. Bangkok Post, Bangkok, Thailand (September 20, 2004)Sanford JC, Klein TM, Wolf ED, Allen N (1987) Delivery of substances into cells and tissues using a particle bombardment process. No farmers said they would not plant it.”Technology that isn’t good for Thailand.”—Natwapha Ewasakul, GE campaigner, Greenpeace Southeast Asia.The activities of the multinational arms of Greenpeace International (GPI) have weighed heavily on the controversy around GE papaya in Thailand. This is not an exceptional case. Special thanks to Robert Ferguson for his mentoring, for the ongoing discussions that contributed to this manuscript as well as others, and for being an insightful reader and editor. Almost certainly, the papaya was not transgenic, but the consumer message was clear and widely reported as a “backfire” on the Greenpeace activity. Although this seemed a viable solution, the reluctance of villagers to cut down infected trees that had already set fruit limited its success.V. However, the interim postcoup government put a biotechnology advocate, plant virologist Dr. Thira Sutabutra, in the post of Minister of Agriculture. Two Thai-preferred varieties were transformed using microprojectile bombardment. Unfortunately, in most countries, papaya suffers from PRSV, limiting its productivity commercially, as well as in the backyard (Gonsalves et al., 2007).The developers of the first transgenic papaya envisaged the GE variety as a promising pro-poor product of biotechnology and were eager to collaborate with researchers from around the developing world. PMID: 16465990 Review. Cahoon, personal communication). When asked if they had heard of traditional breeding techniques to make hybrids, 55% said they had. “In the [2004] Khon Kaen example, it was very clear... It was the biggest [field trial].”Gajasen said. Gajasen admits (J. As a final blow, he ordered the destruction of the field trial at The Pra. Beyond its nutritional value, papaya is an important food culturally; it is not uncommon for Thai people to consume green papaya salad, som tam, daily, particularly in the northeast region of Isaan.As in most countries, the greatest limitation to papaya production in Thailand is PRSV, first observed there in 1975 (Sriwatanapongse et al., 2007). Cahoon, personal communication).Once seeds were available to growers, adoption was remarkably rapid compared to other GE crops: within the first year, 98% of Pana growers had registered with the PAC to receive the seed, and 73% were growing it (C. Thus, in considering the case of GE papaya in Thailand, it is important to understand the role that this particular material needed for papaya cultivation (S. Responses from a study undertaken by the Foreign Agricultural Service of the USDA (USDA, 2006), indicated that 38% of northeastern farmers were unaware of the meaning of GE papaya. 2005 Dec;26(4):422-6. According to Jiragorn Gajasen, who served as executive director of Greenpeace Southeast Asia (GPSEA) from 2000 to 2004, Bangkok-based GPSEA receives roughly 90% of its annual operating costs from GPI. What transpired in Thailand provides take-home messages that could provide scientists with insights on how to transfer the benefits of their research from the laboratory to the farmers and consumers who need it most.Cultural awareness is essential. Following infection, PRSV compromises the photosynthetic abilities of the upper leaves of the tree, leading to diminished growth, and poor fruit quality. Sakuanrungsilak S, et al. Annu Rev Phytopathol 36 415–437 [PubMed] [Google Scholar]Gonsalves D (2004) Transgenic papaya in Hawaii and beyond. In 1998, seeds were made commercially available to Hawaiian farmers. It is high in vitamin C and rich in pro-vitamin A carotenoids, both of which indirectly facilitate iron uptake. Since 1998, virus-resistant papaya had been grown widely in Hawaii, but had failed to be commercialized in many other places. GE papaya does not require changes in management practices or large capital investments, it does not alter production costs, and access to intellectual property is already being negotiated in several countries in a philanthropic manner (Gonsalves et al., 2007). Ten percent were unsure if they would plant it and 5% said they already had planted GE papaya. However, the cabinet did put forth a compromise resolution that will allow limited field trials in government-secured facilities. In 2005, when Greenpeace and the DOA were in court hearings, coverage dropped. There is a lack of farmer engagement in the debate, and to the extent that networking with farmers does occur, it is often dominated by anti-GE nongovernmental organization (NGO) networks and less by government or university extension agents. Greenpeace Southeast Asia, Bangkok, ThailandSakuanrungsilak S, Sarindu N, Prasartsee V, Chaikiatyos S, Sriyan R, Sriwatanakul M, Lekananon P, Kitprasert C, Boonsong P, Kosiyachinda P, et al (2005) Update on the development of virus-resistant transgenic papaya: virus-resistant transgenic papaya for people in rural communities of Thailand. Fear of biopiracy by foreign entities is directly tied to concerns over intellectual property because most of the intellectual property has been developed and previously implemented in wealthier nations. In a recent article, Gonsalves and her colleagues (2007) highlighted how many challenges that developing countries face during adoption of GE papaya were overcome in Hawaii. The protestors stood for photographs—the press had been alerted—before a large yellow banner printed both in Thai and English that read: “Stop GMO Field Trials.”It was July 27, 2004—doomsday for agricultural biotechnology in Thailand. It’s too much of a gamble.”—Willie Julien, Hawaiian grower.The field trial of the transgenic line began in 1992 on the infested island of Oahu, and by the end of that year the researchers reported that all nontransgenic papaya trees were infected, whereas the transgenics resisted the virus (D. Lianchamroon, personal communication).“GM Food Not Safe, Warns US Campaigner.”—December 3, 2007 headline, Bangkok Post.The Thai press is currently categorized by Freedom House as “partly free” and thus coverage of controversial issues such as genetic engineering is not due to lack of press freedom. 34), precipitated by Greenpeace’s accusations that the DOA released transgenic papaya seeds from the Tha Pra research station. CP sequences from isolates brought by researchers from other countries, such as Jamaica, Venezuela, and Brazil, were also covered by the patent that CRF filed (R. Assessing farmer needs provides insight into whether the technology in question is solving a problem that farmers confront, and whether they are likely to adopt the technology. Those who did respond made overwhelmingly positive associations, using words like “development,” “progression,” “getting rich,” and “abundance of fruit.” Eighty-five percent of farmers said they would plant GE papaya if it were resistant to the disease. Among those battles were disputes over PDR, the use of antibiotic resistance genes and the 35S cauliflower mosaic virus promoter, and regaining the rights to use the gene gun after the technology had been licensed to DuPont (R. This is rice”, Resistant SunUp was crossed with a more transformation-resistant variety that is preferred by Hawaiian growers: the yellow-fleshed variety Kapoho”. The case of when they destroyed the papaya, this we cannot do, mostly due to our [Thai] culture.” Lianchamroon explained (W. Bangkok Post, Bangkok, Thailand (December 26, 2007)Cahoon R (2003) A case study in university technology: PRSV-resistant papaya licensing. This is despite the fact that genetically engineered or genetically modified (GE or GM) virus-resistant papaya is close to an ideal “pro-poor” GE crop.The aim of this essay is to contrast the rapid and widespread adoption of transgenic papaya in Hawaii, where it saved an industry, with that of Thailand, where it has yet to be approved for commercialization—even though in some regions virus infection rates are as high as 100% and yields are dramatically reduced. Also, at that time Thailand was open politically and had a relatively free press. Gonsalves et al., 2004). “Greenpeace is an international NGO... There may be some cases when they don’t know the cultural situation or the political or economic situation in this country or the culture of the local people. They want the trees destroyed. The exact definition of commercial use is left up to the DOA in Thailand but should include any fruit that is exported (Cahoon, 2003). Despite the ongoing hearings, the National Policy on Biotechnology Committee, chaired by the then Prime Minister Thaksin Shinawatra, submitted a draft of the National Policy on Biotechnology in 2005, though the policy specific to the application of genetic engineering is still pending (Sriwatanapongse et al., 2007). Suitable GE, virus-resistant varieties have now been developed for Brazil, Jamaica, Venezuela, Thailand, China, and The Philippines, among other countries. Although produced on a commercial scale in many developing countries, papaya is also a popular crop in the backyard kitchen gardens of subsistence farmers because it is easily grown from seed, produces fruit within the first year after planting, and requires few inputs. At the time of the 2004 Greenpeace activity, the DOA was expected to sign the drafted MOU (R. What’s more, it remains to be determined whether the resolution will hold up in court.”Yes, I have grown GE papaya. This brought research on agricultural biotechnology practically to a standstill (Sriwatanapongse et al., 2007).During the period from 2005 to 2006, the battle between Greenpeace and the DOA took place primarily in Thai courtrooms. The resulting line was named Rainbow (Gonsalves, 1998). “For me I know the virus almost shut me down. Some organization has played in rendering the papaya a forbidden fruit.The regional Greenpeace offices worldwide like franchises of the larger GPI organization in the Netherlands. Otherwise, the fruits of this fascinating research may remain forbidden.Many people have contributed to the author’s understanding of GE papaya in Thailand, whereas only 55% of farmers were familiar with the Thai term for PRSV, 9% said their trees suffered from the described symptoms (S.N. Davidson, unpublished data). Abdul Momin, principal scientific officer, On-Farm Research Division, Bangladesh Agricultural Research Institute, Pabna.Papaya is predominantly produced and consumed in the developing world. Her experience in many ways parallels that of other small farmers who found themselves in the crossfire.Mrs. The DOA responded by charging two Greenpeace campaigners with trespassing, theft, and destruction of property; the activists were acquitted in 2006. The prime minister ordered the destruction of all field trials in the country, following a cabinet decision to place a moratorium on all confined field trials in Thailand in addition to the 2001 ban on open field trials. Many developing countries still lack biosafety laws and too often countries lack sufficient infrastructure and training to carry out the regulatory testing needed prior to commercialization. a) Somsak says GM papaya has spread. The Plant Genetic and Engineering Unit, located on the Kampaengsaen campus of Kasetsart University, first applied advanced techniques in biotechnology in 1985 (Sriwatanapongse et al., 2007). J Dev Stud 43 177–191 [Google Scholar]Gonsalves D (1998) Control of papaya ringspot virus in papaya: a case study. J Pharm Sci Technol 5 27–37 [Google Scholar]Sriwatanapongse S, Jamsupisat N, Attathom S, Napasintuwong O, Traxler G (2007) The Study of Agricultural Benefits in Thailand. Despite this low number, after the concept was explained, 81% of farmers approved of the methods, 5% did not, and 14% were unsure. Yet a portion of the 10% exported as canned fruit salad goes to Europe, which places constraints on the industry as a whole. Political policies are just as crucial. BioThai is a homegrown Bangkok-based watchdog group founded in 1995 to preserve Thailand’s rich biodiversity. b) Cabinet refuses to lift ban on open-field crop trials. By that time, pathogen-derived resistance (PDR) had emerged as a promising strategy for controlling plant viruses, and viral coat proteins (CPs) had proven to be effective elicitors of PDR (Abel et al., 1986). Considering export markets is also critical. Each application must be approved by the cabinet and will be open for public review—obstacles that may make field trials practically impossible. Perhaps most significantly, the availability of GE papaya brought growers back into the papaya business after struggling to find other means of income during the epidemic (Gonsalves et al., 2007).Adoption was rapid for several reasons: positive communication campaigns, farmer engagement during the research and development and field trials, distribution of approximately 1,134 kg of free seeds to registered growers, and the fact that the technology addressed an immediate problem affecting farmers’ livelihoods (C. If the country lacks the infrastructure and technical know-how to conduct regulatory testing, it is important to ask who will steward the technology through those necessary steps.Finally, it is time to meet the press. In addition, the Thai group began assessing the safety of GE papaya. “There are some cases, which we cannot do. Station workers cut down all of the trees in the 1.8-ha plot and buried the plant material in pits onsite. Organisation for Economic Cooperation and Development/U.S. Agency for International Development/Agricultural Research Service, Washington, DC, pp 161–170USDA (2005) A Study of the Economic Benefits of Biotechnology in Thailand. The industry was moved to the then virus-free island of Hawaii where it thrived in the climatically hospitable Puna region, producing 95% of Hawaiian papaya in the 1970’s (D. Although scientists are not generally trained in media communication, who is better qualified to discuss the risks and benefits of GE crops? The author is grateful for the Plant Biology Department’s support of this interdisciplinary endeavor. I this work was supported by the Horticulture Department (Dreer Award), the Mario Einaudi Center for International Studies, and the Office of the Vice Provost for Life Sciences, all at Cornell University.The author expresses many helpful suggestions. APSnet Features, Bangkok Post, Bangkok, Thailand (August 29, 2007)Bangkok Post (2007) In Virus Resistant, Transgenic Papaya in Hawaii: A Case Study for Technology Transfer to Lesser Developed Countries: Proceedings of an OECD/USAID/ARS Conference, October 22–24, 2003, Hilo, Hawaii. It picked up again in 2007 as Greenpeace pushed to prevent the cabinet from lifting the ban on field trials in late August and again in December, prior to the general election. In a comparative analysis of media coverage of GE crops in China (GE rice [Oryza sativa]), Thailand (GE papaya), and the U.S. (GE rice and papaya), Xiang (2007) found that stories in the Thai press demonstrated the most negative attitudes toward GE crops, likely due to the intense use of anti-GE advocacy groups, such as Greenpeace, as news sources. It is estimated that if GE papaya were adopted in Thailand and production returned to historical peak levels, yields would increase by 471% and the annual economic benefit for Thailand would be roughly \$880 million in U.S. dollars (Sriwatanapongse et al., 2007). According to the agreement, small farmers fall under the category of humanitarian users and should be able to use this technology without paying royalties. Several months later, Greenpeace GE campaigners came to her farm to sample her trees and confirm that Sriwongchotsakul had obtained seeds from the Tha Pra station. The Ministry’s attempts to move toward lifting the moratorium were thwarted by demonstrators throughout 2007. People told him if he ate it, he would be infertile. In 1996, the team began filing petitions with the U.S. Department of Agriculture’s (USDA) Animal and Plant Health Inspection Service and the U.S. Environmental Protection Agency to deregulate transgenic papaya and consulting with the U.S. Food and Drug Administration for food safety approval (Gonsalves, 2004). In 1995, two scientists from Thailand went to the Gonsalves laboratory at Cornell to develop GE PRSV-resistant lines. Dressed in white, hooded “personal protection suits,” Greenpeace activists donned goggles, gloves, and respiratory masks—the kind of dress you expect to see in the clean zone of a nanotechnology laboratory, not in a field in bucolic northeast Thailand. “We have to hit the right spot,” Gajasen explained, “Gajasen explained, “a GM protest goes awry as passers-by increasingly reading the news and contributing many helpful suggestions. APSnet Features, Bangkok Post, Bangkok, Thailand (August 29, 2007)Bangkok Post (2007) In Virus Resistant, Transgenic Papaya in Hawaii: A Case Study for Technology Transfer to Lesser Developed Countries: Proceedings of an OECD/USAID/ARS Conference, October 22–24, 2003, Hilo, Hawaii. It picked up again in 2007 as Greenpeace pushed to prevent the cabinet from lifting the ban on field trials in late August and again in December, prior to the general election. In a comparative analysis of media coverage of GE crops in China (GE rice [Oryza sativa]), Thailand (GE papaya), and the U.S. (GE rice and papaya), Xiang (2007) found that stories in the Thai press demonstrated the most negative attitudes toward GE crops, likely due to the intense use of anti-GE advocacy groups, such as Greenpeace, as news sources. 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