

GMO Golden Rice: The Scourge of Asia. Monsanto, Syngenta, Bayer Trigger Disruption of Peasant Economy

Initiative of the International Rice Research Institute (IRRI) funded by Monsanto, Syngenta, Bayer and the Consultative Group on International Agricultural Research (CGIAR)

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Asia's dependency on rice cultivation for both subsistence and income is intuitively understood. The Food and Agricultural Organization of the United Nations (FAO) [estimates the agricultural population of lowland rice cultivation in Asia to be over 470 million](#) - larger than the entire population of the United States. Improvements in rice cultivation would stand to lift hundreds of millions from debt and poverty.

Conversely, the disruption of rice cultivation would threaten to mire hundreds of millions in deeper debt, inescapable destitution, and all of the negative socioeconomic implications that follow.



Asia's rice farmers produce between 1-2 harvests a year depending on the climate and climate of any given region. They do so to sell their rice, generally to mills who in turn sell the final product to exporters or for domestic consumption. Out of each harvest, rice farmers keep a portion for their own consumption, but the vast majority of what they grow is for income. The UK-based Rice Association claims there are [up to 40,000 species of rice](#), with a wide variety of characteristics suitable for different markets and uses.

Rice farmers grow those which local, national and regional markets are best suited to move. In nations where subsidies are offered for rice crops, cheap, easy to grow varieties are chosen. More desirable or exotic species are grown by independent farmers who have developed their own cooperative with millers, marketers and exporters. The rice Asians eat depends on both economic and market realities. The impoverished eat what is cheapest and most easily available, but not necessarily that which is healthiest.

Enter GMO: Problem, Reaction, Solution

Poor diet leads to vitamin deficiencies, a persistent problem among the impoverished. A lack of basic healthcare and education allows the otherwise easily rectified problem to continue unresolved. The World Health Organization (WHO) [states on their website](#), "an estimated

250,000 to 500,000 vitamin A-deficient children become blind every year, half of them dying within 12 months of losing their sight.” This statistic is global, not regionally specific to Asia, but Southeast Asia in particular suffers from such deficiencies.

WHO prescribes cheap vitamin supplements and the promotion of local gardens to produce a variety of fruits and vegetables that can easily solve not only vitamin A deficiency, but other deficiencies as well. WHO states, “for vulnerable rural families, for instance in Africa and South-East Asia, growing fruits and vegetables in home gardens complements dietary diversification and fortification and contributes to better lifelong health.”

Surely then, one would expect both regional governments and international organizations to focus on these recommendations. However, there is a vocal and growing cry to solve this problem with another, more radical solution, the implementation of genetically modified (GM) rice containing beta-carotene to target specifically vitamin A deficiency in Asia. Promoted by the International Rice Research Institute (IRRI), directly [funded by agricultural giants](#) Monsanto, Syngenta, Bayer and others, along with the Consultative Group on International Agricultural Research (CGIAR) which is [also partnered with big-business agriculture](#), genetically modified “Golden Rice” containing beta-carotene is promoted as the solution to saving “millions of children.”Golden Rice: Scourge of Asia

In reality Golden Rice will do nothing of the sort. The promotion of Golden Rice is not unlike any given commercial endeavor. IRRI’s website links to articles like, “[A senseless fight](#),” which asks, “how could anyone in good conscience seek to thwart technology that has even a remote chance of tackling the problem of vitamin A blindness?”

The appeal to emotions and sickly children diverts from the real threat Golden Rice poses to the very people it claims to be helping. People who grow rice, grow it to sell to markets. These markets are well-developed, based on indigenous agricultural technology and tradition, and linked to export markets with stringent requirements (many of which restrict or outright ban GMO).

The introduction of GM rice for any reason, would threaten or potentially destroy the livelihood of hundreds of millions of people. Proponents of Golden Rice suggest rice farmers replace their profitable crops with genetically modified rice that will treat only one of many vitamin and mineral deficiencies they may or may not potentially suffer from, deficiencies that could be easily solved through other methods. Clearly illogical in terms of “helping” the malnourished, Golden Rice must serve another purpose.

The author of IRRI’s featured article, “[A senseless fight](#),” suggests that “Golden Rice is being developed by the International Rice Research Institute (IRRI), which is a not-for-profit institute, and the seeds will be distributed to farmers who can resow them as they wish. In these cases, the argument [against Golden Rice] switches to “Golden Rice is a Trojan horse”. In other words, by sneaking below the barriers of suspicion, it will open the floodgates to GMO technology and from then on to a slippery slope and the takeover of the world’s seed supply.”

✘ The author, in their attempt to defend Golden Rice, reveals the true agenda behind the otherwise useless crop. Governments, international organizations and the private sector (i.e. Monsanto, Syngenta, Bayer) will flood Asia with Golden Rice, where it will intermingle and contaminate rice species that have been in use for centuries and form the foundation of

Asia's historical and modern agricultural industry.

The livelihoods of some 470 million people who depend on rice farming in Asia (not to mention those that import and consume Asian rice beyond Asia's borders) would be jeopardized by the proliferation of Golden Rice disseminated under the dubious guise of humanitarian concerns. The marketing machine behind Golden Rice doesn't ever seem to address this critical fact. That Golden Rice seeds will be kept and sown each year by prospective cultivators only increases the dangers of cross-contamination with other, economically and culturally valuable species.

It is in all regards a flagrant attempt to infiltrate, corrupt and overtake rice production at its very geographical and socioeconomic heart. It is akin to a plague openly being designed, tested and prepared to be unleashed on a population. The spread of Golden Rice too is a plague that will compound exponentially the challenges already facing millions of farmers across Asia.

When all it takes to solve vitamin A deficiency [is what WHO claims is](#) "supplementation" that costs "a couple of cents a dose," and the growing of gardens that solve not only vitamin A deficiencies Golden Rice claims to target, but a whole host of other deficiencies Golden Rice most certainly does not address, the fact that Golden Rice is not what it is promoted to be is obvious. It is, as IRRI coined it, a "Trojan horse," that will not only fail to stop malnutrition, but will expand the very destitution, poverty, and helplessness that causes malnutrition in the first place.

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