Vulnerability: food safety and research are common denominators in guaranteeing food safety and defense concerns in any society

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Over time a Society evolves due to its increasing complexity, changing its level of expectation of the individuals responsibility for their own personal welfare and their expectation of a State or National entity to provide for them. This evolution is gradual but over time places extreme but unintentional pressures on essential components that are designed for the welfare of the Society.

We are fast approaching this stage in regards to the situation in many of the developed countries, including the USA. The problem is how we can continue the production of adequate food to feed the rapidly increasing population of the world, including the USA. This is a problem so important that we must begin to solve it now (http://www.aasp.org/shap/issues/v17n6/v17n6advocacy.htm)(http://www.ers.usda.gov/Publications/EIB45/). This requires a marked increase in the visionary development of both present and new food production ability that maintain the quality and safety of the food, which can be easily abused.

The national census of 1850 was the watershed for distribution of Rural and Urban population in the USA. The industrial revolution that characterized the period from the late 1800s until the early 1900s accelerated this shift of the USA population from Rural to Urban. The replacement of human labor required for food production with machine labor in the early 1900s accelerated the decline in the amount of human labor required for food production until today where about 1.5% of the total USA population produce the major portion of the food for the remaining 98.5% of the population. An example of this is that the year 1940 was the first year that the nations corn crop averaged 40 bushels an acre. Today the 2009 national average bushel per acre production is predicted to be 156 bushels per acre. Chicken, egg, turkey, and swine production has become concentrated into very large units. The dairy industry is approaching that state and there is preliminary indication that some portion of beef production may go that route. The 94 million dairy and beef animals are currently valued at $49,000,000,000.00 (http://www.genome.gov/27531571). Egg farms now have as many as 3.6 million hens in a single farm. We now have the major portion of our population with difficulty identifying the origin of their food beyond the supermarket. This has resulted in a tremendous reduction in the voting power of production Agriculture.

The estimated value of the livestock and poultry component of the agriculture enterprise is in excess of $135,000,000,000.00
functions that transcend pain and substance abuse present in commercial animal and they have surprise that, for example mu opioid receptors are microarray expression technologies [1-14]. It is no medicine”, taking advantage of novel gene and animal in a health concept referred to as “One emerging that may link many disciplines, human need to feed our increasing human population safely. Breakthroughs that result from visionary research in health and food areas that will enable us to meet the growing demands for safety and health in the commercial food industry must be examined in order to fully use the One Medicine Hypothesis based on molecular commonalities, thus ensuring all commercial animals’ health and safety for human consumption.

This is all occurring at the first time in our countries history that our enemies have valid, demonstrated ability to seriously damage our homeland without setting foot on it. The security of our food supply is an easy target and must receive top priority in the effort to defend our homeland against foreign damage such as poisoning our food supply. We must develop a higher priority for funding visionary research. Historically, hungry human populations fuel unrest, revolt and war, let us not fuel a repeat of history by neglecting quality and safety concerns.

References