

O Sun God, Savitr!
 Thou dazzling fount of life-persuasive light!
 Sublimest mystery speeding from afar!
 Swift became that burst too potent on the sight!
 This radiant type of strength and youth!
 Glowing eternally!



శ్రీ వేపచేదు విద్యా పీఠము

May the golden-eyed Savitar come hither!
 Stepping forth he rises from the lap of the dawn!
 Praised by singers, my God Savitar!
 Stepped forth and never missed his place!
 He steps forth the splendor of the sky the wide!
 Seeing, far-shining, the shining wanderer!
 - Rig Veda. vii. 65

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We alone shine!
 All luminaries get illuminated by His Illumination!
 The whole Universe is enlightened by His light!
 - Kathopanishad

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SUSTAINABLE ANTHROPOCENE



Curbing this ongoing moral catastrophe should thus be of high concern for people aiming to effectively help as many sentient beings as possible, unless the alleged concern is nothing but paying lip service and hypocrisy in the democracy.

Vegetarianism, world peace, and equality among Homo sapiens sapiens species of animals, forget about other animals, are examples of pipe dreams, fantastic notions, vain hope, and the fantasies induced by smoking an opium pipe, because humans are more naturally inclined to kill or follow leaders who kill off their competition than to cooperate, and they place a high value on meat in terms of taste, nutrition, affluence, culture, and tradition, evidenced in part by a clear rise in global meat consumption over the past half-century.

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(See [Novel Food To Curb Catastrophe -Code Red to RACE \(18 May 2018\)](#))

For about the last 10,000 years, the earth has been in an epoch called the Holocene. This time period has been defined by the worldwide spread of the human race and a relatively stable climate. In 2000, atmospheric chemist Nobel Laureate Paul Crutzen, who received the 1995 Nobel Prize for Chemistry for demonstrating, in 1970, that chemical compounds of nitrogen oxide accelerate the destruction of stratospheric ozone, which protects the Earth from the Sun's ultraviolet radiation¹, realized that the Holocene epoch ended due to one of the mammalian species of the animal kingdom, the *Homo sapiens sapiens*' activities over this planet had become so



pervasive and influential that a new era had begun, called the Anthropocene, the Age of Humans, when Humans are made from the Earth, and the Earth is remade by Humans². The human actions cause, among other consequences, changes in the water cycle, imbalances and destructions in the marine and terrestrial ecosystems, the increase of extreme meteorological phenomena, the acidification of the oceans or the disappearance of the forests³.



The globally sustainable diet recommended by the commission daily protein from plants such as dry beans, lentils, soy-based foods and nuts, and/or dairy products⁴. The average person's daily diet would have to be changed drastically during the next three decades to make sure everyone is fed in a growing population (estimated 10 billion people by 2050) without depleting the planet by doubling the amount of plant-based foods they eat, including nuts, fruits, vegetables, and legumes; and drastic reduction in red meat and sugar to make sure everyone is healthy, including the Earth⁵.



"...scientists will be part of the solutions to global challenges..."

There is a scientific consensus regarding animal sentience and their capacity to suffer and this is officially recognized in EU legislation. The opposing view that conscious experience is only possible in *Homo sapiens sapiens* brains is not supported by current evidence is no longer valid, just like the view that certain *Homo sapiens sapiens*

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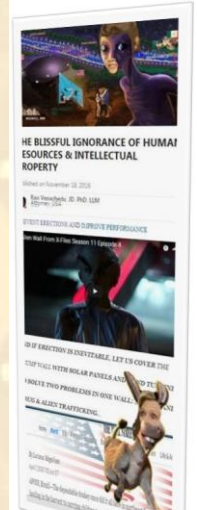
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varieties of a color were considered slaves and property of the powerful certain other *Homo sapiens* varieties of a different color (varna) is no longer valid, at least in paying lip service to equal rights. It follows that any needless suffering inflicted upon animals under human care, whether through direct action or inaction/neglect, is morally indefensible and must be stopped⁶. In addition, one of the most significant contributors that is responsible for about 14.5% or more of the world's total Green House Gas (GHG) emissions is animal agriculture, and therefore, it is as bad for the environment as the combined impact of every motor vehicle in the world, collectively contributing about the same GHG emissions, about 15%. Methane, whose global warming potential is times greater than that of carbon dioxide, makes up 44% of the animal industry's total emissions. Most of this methane is emitted by ruminants such as cows, sheep, and goats as a natural by-product of their digestive processes. A reduction of greenhouse gas emissions of at least 50% by 2050 is necessary in order to avoid the worst impacts of climate change⁷.

Further, industrial livestock production presents a growing problem on a global scale in terms of animal welfare, environmental sustainability, and human health. Each year, more than **70 billion sentient animals**⁸ are reared in industrial conditions in order to produce meat. This cruel global enterprise is currently the planet's main source of human pandemic diseases and human-inflicted suffering on other animals⁹. Dangerous multiple drug-resistant versions of bacteria with human health implications have been detected in Indian major carp or Rohu, a popular aquaculture fish consumed across India, one of the countries caught in the eye of the storm that will soon hit the entire planet. Of the 10 million deaths due to Antibiotic and Multi-Drug Resistance, 2 million are expected to be in India. Although US might think that it is isolated by oceans from the rest of the world and by building walls around it, the earth is a biosphere without barriers. Human-made border lines, oceans, and the walls constructed around US are just lines that fail to prevent the diffusion through the atmosphere and water¹⁰. *Curbing this ongoing moral*



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catastrophe should thus be of high concern for people aiming to effectively help as many sentient beings as possible, unless the alleged concern is nothing but a lip service and hypocrisy in the democracy.

Addressing this massive challenge would ideally involve a worldwide shift to **a vegetarian lifestyle**, but such a shift is unlikely to take place in our lifetimes. Humans around the world place a high value on meat in terms of taste, nutrition, affluence, culture, and tradition, evidenced in part by a clear rise in global meat consumption over the past half-century — a trend strongly associated with economic growth in newly industrializing countries in the East and West¹¹. Despite the vegetarian movement witnessed a steady growth in recent years in the West, its growth pales in comparison to the global demand and craze for meat in the West which is predicted to increase by 73% within 2050 and a rising craze for it in the East¹². Meanwhile, plant-based meat substitutes have, despite decades of costly improvements, not proven sufficiently effective at replacing and curbing the meat addiction that is culturally and religiously ingrained in people's diets¹³.

One solution might be cultured meat, in which animal tissue is grown in a controlled environment using cell culture technology, thereby making the raising and killing of animals for food unnecessary. Cultured meat, clean meat¹⁴ or *in vitro* meat is an emergent technology that operates as part of the wider field of cellular agriculture along with the innovation in plant-based proteins¹⁵. This approach shows a great potential for meeting all the requirements of a humane, sustainable and healthy form of meat production.



By gradually replacing animal agriculture, large-scale production of cultured meat could greatly reduce animal suffering, human disease risk, and environmental problems¹⁶.

Cultured Meat Manufacturing (CMM) process starts with cells taken from livestock or poultry, which are then coaxed to grow into strands of muscle, in bioreactors shown here on the left¹⁷. The CMM technology would spare animals from slaughter, require less energy and land, and emit fewer greenhouse gases than conventional meat production does. The world watched the first lab-grown small

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pink beef patty out of a petri dish and fried in front of the media, the proof that it was possible to grow safe and edible meat without slaughtering a single animal, 5 years ago. The patty had taken two years and over \$300,000 to produce. But since then the cost of producing this high-tech meat has plummeted. In January 2016, a company called Memphis Meats produced a ‘cultured meatball’ for around \$1,000, and today start-ups and non-profit organizations are working on other lab-grown animal products including pork, chicken, turkey, fish, milk, egg whites, gelatin, and even leather¹⁸. In 2012, the environmental impacts of the hypothetical large-scale production of cultured meat were compared to the impacts of livestock production in the EU-27. The results showed that if all meat produced in the EU-27 was replaced by cultured meat, the GHG emissions, land use and water use would be reduced by two orders of magnitude compared to current meat production practices. When the opportunity costs of land use were included, the environmental benefits were even higher¹⁹.

The House of Representatives of US added language to a draft spending bill that would put USDA²⁰ in charge of overseeing the manufacturing and labeling of cultured meat grown from cells in bioreactors²¹. In the EU, rules that went into effect in January declared cultured meat to be a category of Novel Food that can be marketed there if regulators decide it is safe, nutritionally equivalent to a food it is intended to replace and labeled so as not to mislead consumers²².

Five Strategies for a Great Food Transformation

1. Seek international and national commitment to shift toward **healthy vegetarian diet (the only reasonable solution, though a pipe dream in a society of animals called Homo sapiens sapiens²³)**
2. Reorient agricultural priorities from producing high quantities of food to producing healthy food **including production of cultured meat²⁴**
3. Sustainably intensify food production to increase high-quality output²⁵
4. Strong and coordinated governance of land and oceans
5. At least halve food losses and waste, in line with **UN Sustainable Development Goals²⁶**

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PIGS USE MIRRORS TO FIND HIDDEN FOOD
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O Sun God, Savitr!
Thou dazzling fount of life-persuasive light!
Sublimest mystery speeding from afar!
Swift became that burst too potent on the sight!
This radiant type of strength and youth!
Glowing eternally!



శ్రీ వేపచేదు విద్యా పీఠము

May the golden-eyed Savitar come hither!
Shining forth he rises from the lap of the dawn!
Praised by singers, my God Savitar!
Stepped forth and never missed his place!
He steps forth the splendor of the sky the wide!
Seeing, far-shining, the shining wanderer!
- Rig Veda. vii. 65

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- Kathopanishad

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¹² Endangering the Donkey: craze for meat rising from the East

¹³ See Downtrodden Golla Christian Professor Kanche Iliaha's anti-Brahmin, anti-Hindu, and anti-Semitic, "Why I am Not a Hindu." In view of such entrenched and bigoted views and attitudes in the East towards Mahatma Gandhi's vegetarian humane approach toward food, combined with the Western cultural view of diet influencing the entire world through Hollywood and Globalization, it would thus be a significant gain if we were able to introduce a cruelty-free replacement for meat with the ability to rival conventional livestock-production.

¹⁴ Legislative and regulatory framework for clean meat <http://effectivethesis.com/comparation-regulatory-framework-clean-meat/>

¹⁵ Stephens, Bringing cultured meat to market: Technical, socio-political, and regulatory challenges in cellular agriculture, Trends in Food Science & Technology, 78, 155-166 (August 2018) <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6078906/>; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6078906/pdf/main.pdf>;

Cultured meat promises to change the way we eat and help solve some of the big problems of a crowded planet. When will it be on our plate and how will this technology impact the world? <https://labiotech.eu/features/cultured-meat-industry/>

In vitro meat: regulatory issues in the US and the EU <https://tomorrowsfoodandfeed.khlaw.com/2018/12/vitro-meat-regulatory-issues-us-eu/>

¹⁶ Cultured Meat, A Pragmatic Solution To The Problems Posed By Industrial Animal Farming <https://sentience-politics.org/wp-content/uploads/2016/02/Cultured-Meat.pdf>

<https://www.memphismeats.com/press/>

¹⁷ **The artificial meat factory – the science of your synthetic supper** <https://www.sciencefocus.com/future-technology/the-artificial-meat-factory-the-science-of-your-synthetic-supper/>

¹⁸ The artificial meat factory - the science of your synthetic supper <http://www.sciencefocus.com/article/future/artificial-meat-factory>

World's first lab-grown burger is eaten in London <https://www.bbc.com/news/science-environment-23576143>

Memphis Meats <http://www.memphismeats.com/about-us>

<https://www.foodnavigator-usa.com/Article/2018/10/25/Cell-based-meat-cos-Please-stop-calling-us-lab-grown-meat-and-we-don-t-use-antibiotics-in-full-scale-production>

¹⁹ Could cultured meat reduce environmental impact of agriculture in Europe? <https://ec.europa.eu/jrc/en/publication/contributions-conferences/could-cultured-meat-reduce-environmental-impact-agriculture-europe-0>

<https://www.memphismeats.com/press/>

²⁰ The US Department of Agriculture (USDA) is responsible for ensuring the quality of meat, poultry, and egg products. The US Food and Drug Administration (USFDA) is responsible for the safety of therapies made from cells and tissues, processed foods, seafood, and genetically engineered animals.

²¹ A BILL, Making appropriations for Agriculture, Rural Development, Food and Drug Administration, and Related Agencies programs for the fiscal year ending September 30, 2019, and for other purposes <https://docs.house.gov/meetings/AP/AP01/20180509/108287/BILLS-115HR-SC-AP-FY2019-Agriculture-SubcommitteeDraft.pdf>;

US lawmakers float plan to regulate cultured meat http://www.sciencemagazinedigital.org/sciencemagazine/18_may_2018_Main/MobilePagedArticle.action?articleId=1395086&app=false#articleId1395086; *Science*, 9 August 2013, p. 602

Statement from USDA Secretary Perdue and FDA Commissioner Gottlieb on the regulation of cell-cultured food products from cell lines of livestock and poultry <https://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm626117.htm>

Regulation of Cell-Cultured Meat <https://fas.org/sgp/crs/misc/IF10947.pdf>;

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²² Novel Food is defined as food that had not been consumed to a significant degree by humans in the EU before 15 May 1997, when the first Regulation on novel food came into force. Novel Food can be newly developed, innovative food, food produced using new technologies and production processes, as well as food which is or has been traditionally eaten outside of the EU. Examples of Novel Food include new sources of vitamins, extracts from existing food, agricultural products from third countries, or food derived from new production processes.

Novel Food https://ec.europa.eu/food/safety/novel_food_en

Novel Food To Curb Catastrophe -Code Red to RACE <https://www.linkedin.com/pulse/novel-food-cultured-meat-manufacturing-rao-vepachedu-jd-phd-llm/>

²³ Vegetarianism, world peace, and equality among Homo sapiens sapiens species of animals, forget about other animals, are examples of pipe dreams, fantastic notions, vain hope, and the fantasies induced by smoking an opium pipe, because humans are more naturally inclined to kill or follow leaders who kill off their competition than to cooperate, and they place a high value on meat in terms of taste, nutrition, affluence, culture, and tradition, evidenced in part by a clear rise in global meat consumption over the past half-century.

²⁴ Novel Food to Curb Catastrophe -Code Red to RACE

No Sustainability Without Intensification <https://thebreakthrough.org/issues/food/no-sustainability-without-intensification>

Novel Food to Curb Catastrophe -Code Red to RACE

²⁶ Sustainable Development Goals <https://sustainabledevelopment.un.org/?menu=1300>;

Sustainable Development Goals - ISO

Sustainable Development | UN Global Compact

The UN Sustainable Development Goals set food waste reduction target

UNESCO and Sustainable Development Goals

Suresh, "Friend" or "Fiend": In vitro lab meat and how Canada might regulate its production and sale (October 2018) https://capi-icpa.ca/wp-content/uploads/2018/10/2018-10-23-CAPI-in-vitro-meat-technology_Paper_SureshShishira-1.pdf

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