



# International Journal of Fisheries and Aquatic Studies

E-ISSN: 2347-5129

P-ISSN: 2394-0506

(ICV-Poland) Impact Value: 5.62

(GIF) Impact Factor: 0.549

IJFAS 2022; 10(3): 26-33

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[www.fisheriesjournal.com](http://www.fisheriesjournal.com)

Received: 11-03-2022

Accepted: 15-04-2022

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## Preventing and curing diseases with hydro-carbon, isoprene and chlorine nano-particles destroy unicellular pathogens of inland, marine environments and mankind

**Debabrata Das, Aranya Das, Prakriti Das and Santa Ana Das**

### Abstract

May ecotechnology can make digital rules in curing diseases with mentioned bio-molecules, namely Hydrocarbon, Isoprene, and Chlorine. Sea-breeze, Southern winds, Blooming Plankton biomass, Citrus, Oranges, Pine, Alpines consisting Isoprene, the smallest unit of Fat, a hydrophobic in nature. Pathogens of Bacteria or viruses those hydrophilic and repeal each other on the basic phenomenon. Isoprene, also synthesized by Plankton-biomass and fisheries, may be safer. A few terrestrial plants like *Citrus* spp, *Mangifera*, *Swietenia*, Oak, Pine, Bamboo, Mosses, etc., Himalayan or Alps and Nilgiris plants, etc. Isoprene, Hydrocarbon, the smallest unit of fatty bio-molecule, a hygienic nano-particle can save every plant and animal and hence animal kingdom may be safer, as well. And in marine environments. Chlorine saves us in preventing or controlling diseases biochemically caused by most unicellular pathogens.

**Keywords:** Ecotechnology, bio-molecules, preventive and curative role in controlling diseases

### Introduction

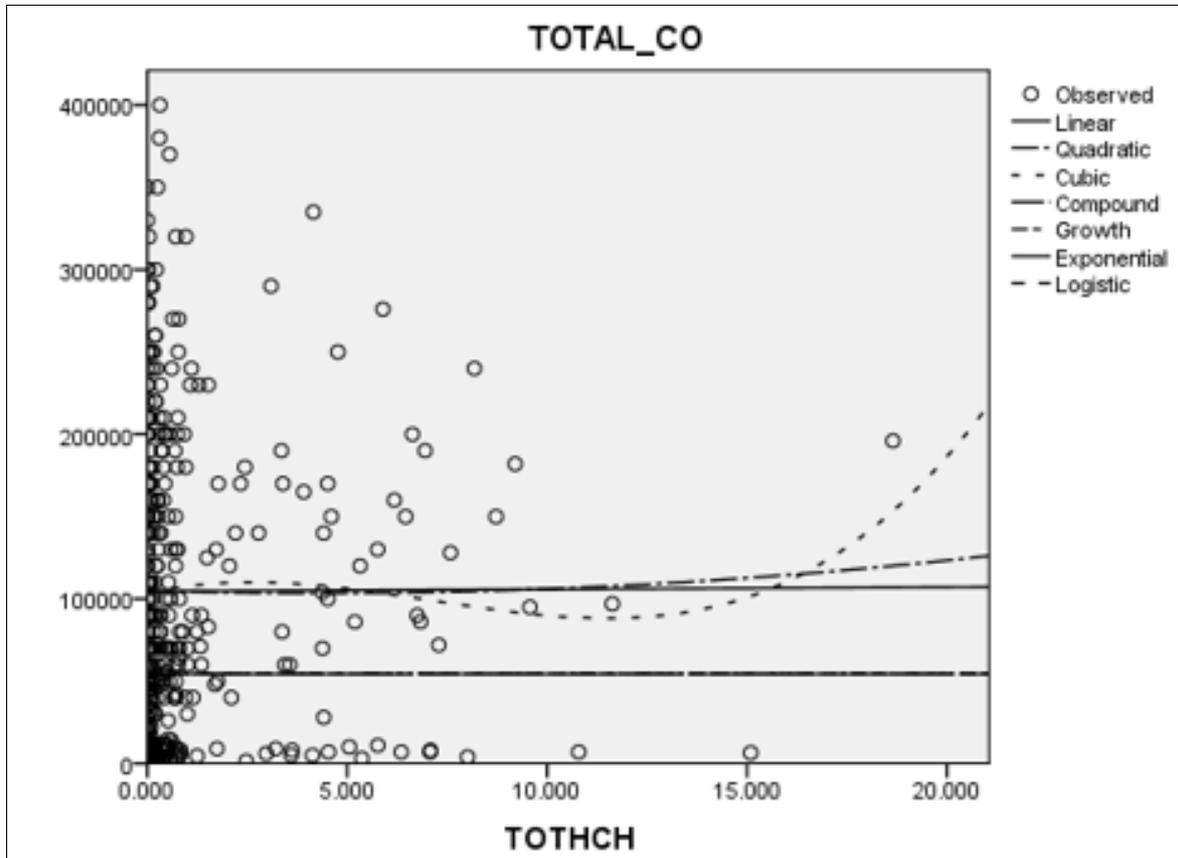
Measuring Isoprene concentration may be a logical task rather than physical since Isoprene is a volatile bio-molecule in tropical climates vapor point 34 °C Isoprene is the smallest unit of fat bio-molecule that can form Isoprenoids, a few hydrocarbon derivatives, and fatty acids and may all considered as antiviral or present antimicrobial communication dealt microbial repulsion with hydrocarbon derivatives in the water sample and these hydrocarbon derivatives are less reactive than isoprene. Similarly, Chlorine gas is also found to be an antiviral and anti-microbial their graphical presentation with machine learning techniques and equations are derived. Ecotechnology model found that Isoprene concentration 10000 ppt and more may be safe from virus and bacteria whereas 50000 ppt Chlorine may be safe from any virus and bacteria. The digital rules of Isoprene can be proportionately prevention of diseases with temperature, atmospheric concentrations, and altitude, since its holiness among the many natural bio-molecules (Das *et al.*, 2021) <sup>[1-2]</sup>. Its rule in preventing and curing diseases functionality is as proportionate to the temperature, air density, altitude, etc. Isoprene (C<sub>5</sub>H<sub>8</sub>) is the bio-molecule that helps in synthesizing fatty acids, vitamins, steroids, cholesterol, secondary hormone, sex hormones, and many other micro or macro bio-molecules in the biological systems. Both plants and animals can synthesize Isoprene, often a few plants are medicinal because of Isoprene synthesis as well. Predominantly marine and terrestrial phytoplankton synthesize Isoprene to a large extent. Other terrestrial plants like Mosses, Pine tree, Grasses, Bamboo tree, Eucalyptus, Mango, Citrus spp. etc., can adequately synthesize Isoprene and makes the environment hygienic or pathogen-free. As evidence found, Isoprene bio-molecule a nano-particle with the smallest unit below 3nm, can prevent and cure any unicellular pathogen by molecular diffusion. Isoprene is firstly a water-insoluble or hydrophobic molecule that repulses a hydrophilic pathogen. Secondly, Isoprene having double bonds gets saturated or hydrated with acid or even nucleic acids of unicellular pathogens, also assumed evidence may be found that isoprene can react with pathogenic nucleic acids or genetic material by forming Isoprene phosphate. Hence Isoprene can break down genetic materials of unicellular pathogens simply by molecular diffusion within the pathogenic cells. (Das and Das, 2021) <sup>[1-2]</sup>.

In normal instances, Isoprene cannot penetrate multi-cellular organisms. Often the oceans, or the Nilgiri hills in India, are so colourful and diseases less because of persisting Isoprene. In fisheries science, we find that Isoprene is water-insoluble with a molecular density of 0.68 gm/cc and can be floated in the water below 30 degrees; hence often fish species *Catla catla* or any top feeder can further remain diseases-less. In cold water, Fisheries below 35 °C which is the vapour point of Isoprene and hence fisheries are safer, whereas climates of tropics or global warming can lead to isoprene less in waters but happy and hygiene terrestrial environment with Isoprene bio-molecule. It may be true that Isoprene can destroy any mutants of viruses' particles in a similar methodical phenomenon. Major Importance of Isoprene is huge with molecular concentrations is very precious; this holy bio-molecule, mostly in plants, may be at very high, higher and highest excepting its enzymes that existing since life is originated. The most basic precursor of all fat-soluble vitamins is isoprene. Plants produce more isoprene than animals. Among the plants, most phytoplankton, especially marine species, synthesize isoprene. Since the pre-historic era sea breezes are considered good for health, as found that sea breezes contain Isoprene. Synthesis of this precious bio-molecule may take place may be above zero celsius temperature and more intensified at the mid-temperature, say 20 to 30 degrees Celsius. All terpenoids, fatty acids, cholesterol, ergosterol, steroids, sex hormones, and vitamins are produced with isoprene. Isoprene is moderate to high reactive for existing its double bonds can act on animals, including human beings on a molecular basis. No germs can be survived in isoprene medium say up to one percent of concentrations or more. All we know is that vapour point Isoprene since 34 °C, this bio-molecule remains in liquid form often in plants' environments say in oranges and get vaporised with human body temperature. The smallest unit of this Isoprene is a nanoparticle with a dimension below 300 nm that simply can be emitted from plants and environmentally can be diffused or enters unicellular germs through their partially porous or semi-porous membrane of the pathogenic nucleoid. The causal effect of none-replication of pathogens on due biochemical reactions with the phosphoric acid molecule of the nucleic acids of most cellular pathogens even Covid-viruses or its newer strains stated although still we may have had limited knowledge or awareness with Isoprene Citrus plant can be grown worldwide producing isoprene one may say the citrus cancer, diseases

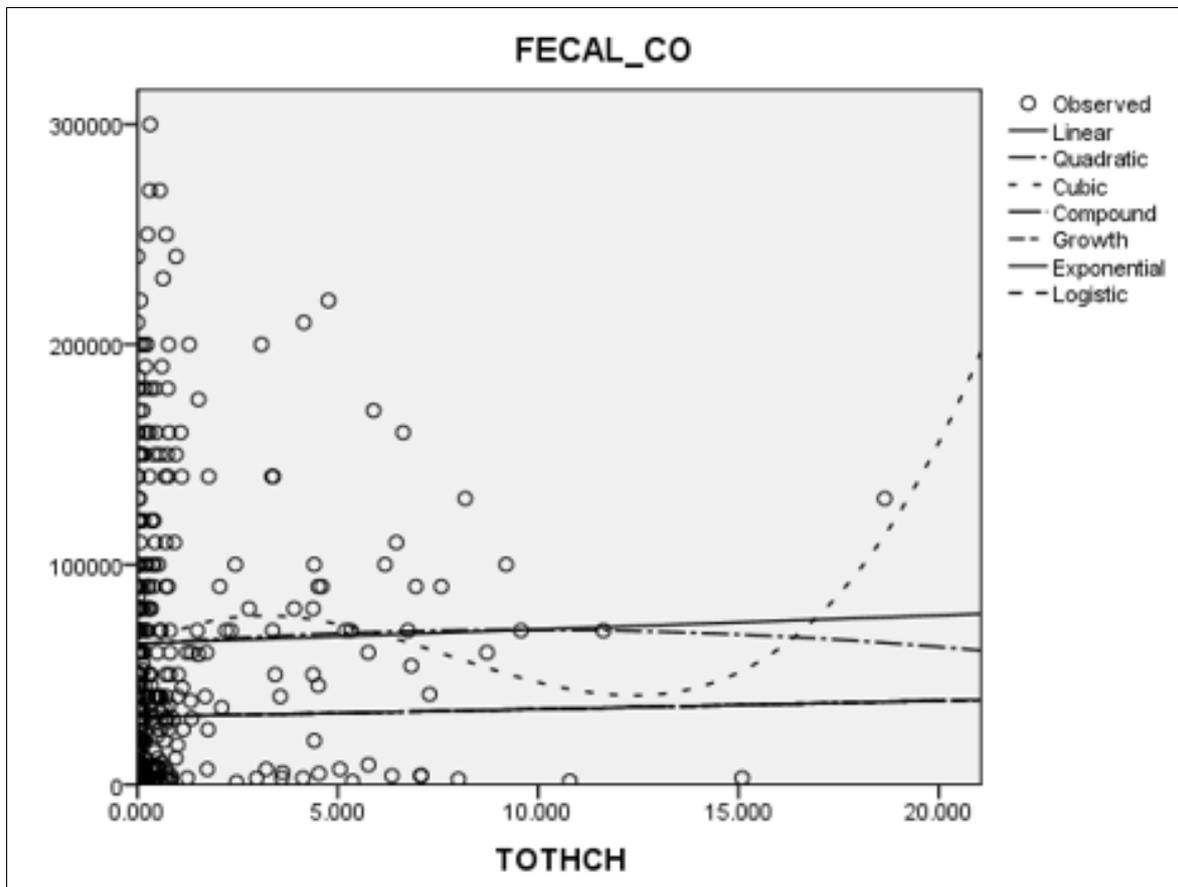
that appear in very low temperature when Isoprene remain non-reactive. A few billion tons of isoprene are produced by phytoplankton in the ocean and you may know a liter of Isoprene is pricing 6000 INR at the present day. In fisheries science and the latest research found the hat species *Catla catla* enjoys floated isoprene as water is heavier than isoprene and enjoys maximum growth, disease resistance, and lifespan among the all Indian carp species.

### Methodology

Graphs (Fig. 1 to Fig. 8) with microbes, namely Coli-form Bacteria, Fecal Coli-form Bacteria, Entero-Bacteria, and Platy-Bacteria in lower stretches of Ganges water found negatively correlated with hydrocarbon derivatives that are less reactive to Isoprene. Similarly, their relation with Chlorine is found negatively correlated with this data science and analytics. Earlier data science and analytics proved that even hydrocarbon derivatives can be less reactive than Isoprene in air or waters (600 to 50000 ppt depending on environment). also, an anti-virus bio-molecule and environmentally synthesis related growth and fecundity of species found, and Isoprene synthesis are negatively correlated with Total Dissolved Solids (TDS) and Cation Exchange Capacity (CEC) both in waters and soils, measurable with computer and electronics. Isoprene nanoparticle (<3 nm) diffused to porous Pathogenic-cell, Virus or Bacteria and restricts multiplication on the biomolecular basis, by inhibiting replication or transcription forming isoprene phosphate and hence no more multiplication of germs (Fig. 1 to Fig 8) showing negative correlation with hydrocarbon) Again Isoprene synthesis and its derivatives (Fig. 9 to Fig. 11) and availability by digitally mean proportionate to Temperature, Elevation or altitude, and Air-density. In Fisheries, top-feeder *Catla* enjoys the most of Isoprene, then Rohu and Mrigala having the least Growth and Fecundity with the least Isoprene. Digital measures of CEC and TDS are gradually higher at the bottom rather than upper water columns. Chlorine (<1 nm) is also a hygienic bio-molecule causing virus and antibacterial roles, as found in the graphs here. Ecotechnology may say that an environment with a higher CEC led to more Chlorine affinity, whereas a lower CEC makes more Chlorine releasing to environments and makes antivirus or anti-bacterial environments. These are based on Environment editing and Machine Learning approaches to the fisheries and mankind.



**Fig 1:** Coli-form Bacteria counts n/l are negatively correlated with Hydrocarbon derivatives in ppt in water environment



**Fig 2:** Fecal-coli-form Bacteria counts n/l are negatively correlated with Hydrocarbon derivatives in ppt equally as Isoprene in the water environment.

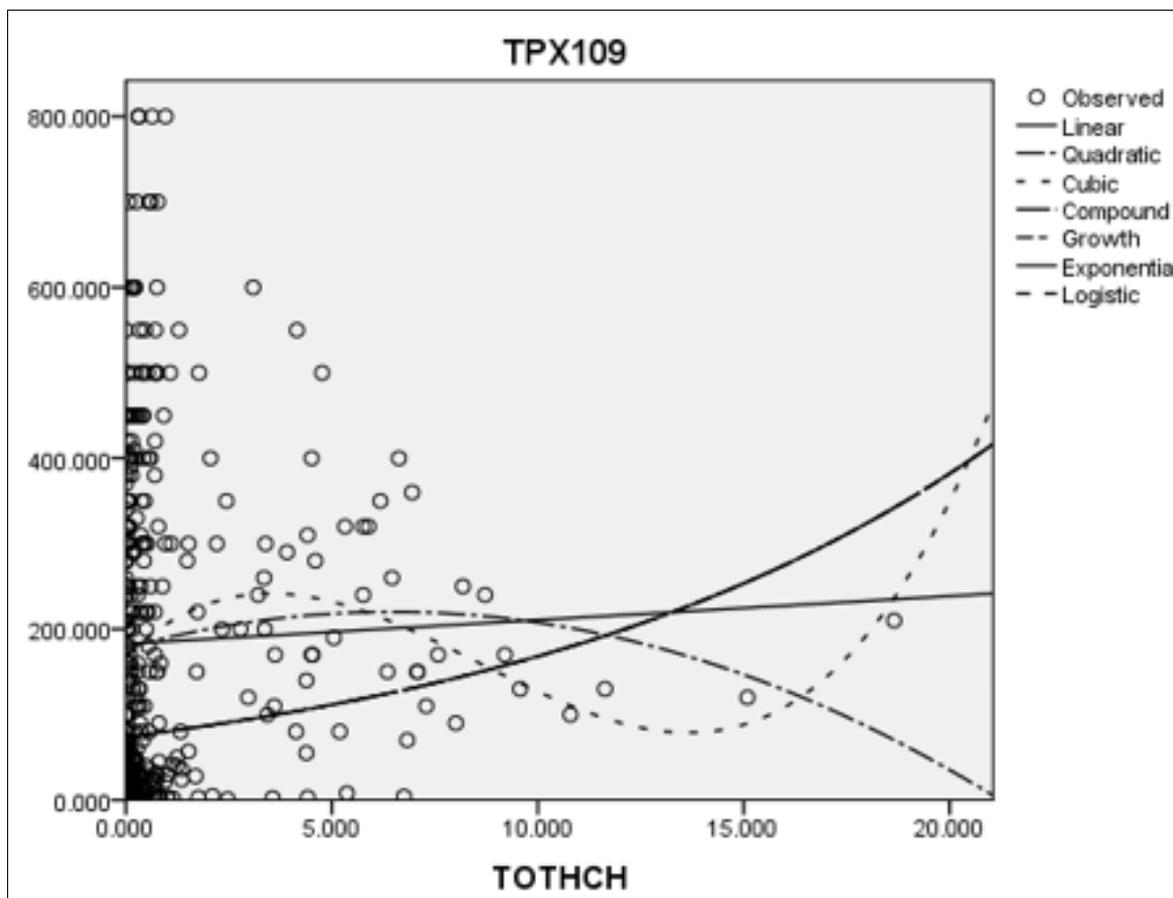


Fig 3: Platy-Bacteria counts n/l are negatively correlated with Hydrocarbon derivatives in ppt equally as Isoprene in the water environment.

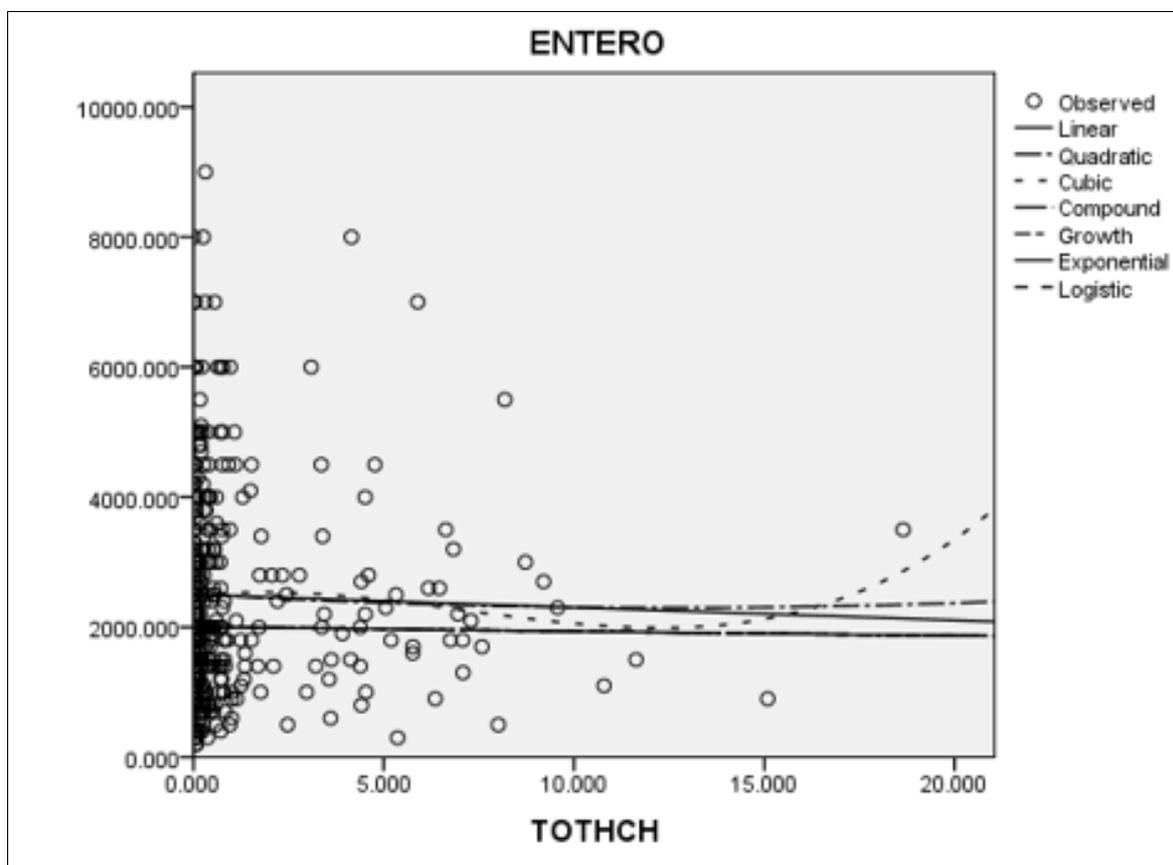
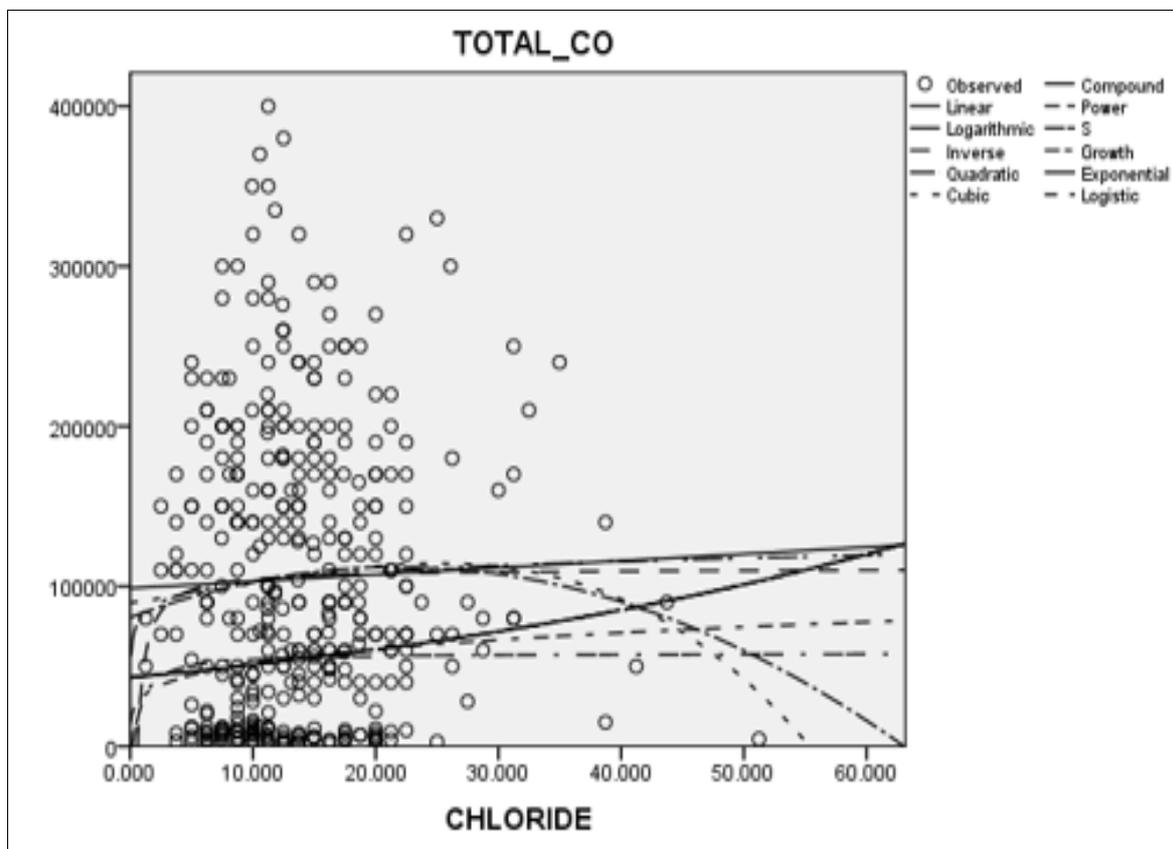
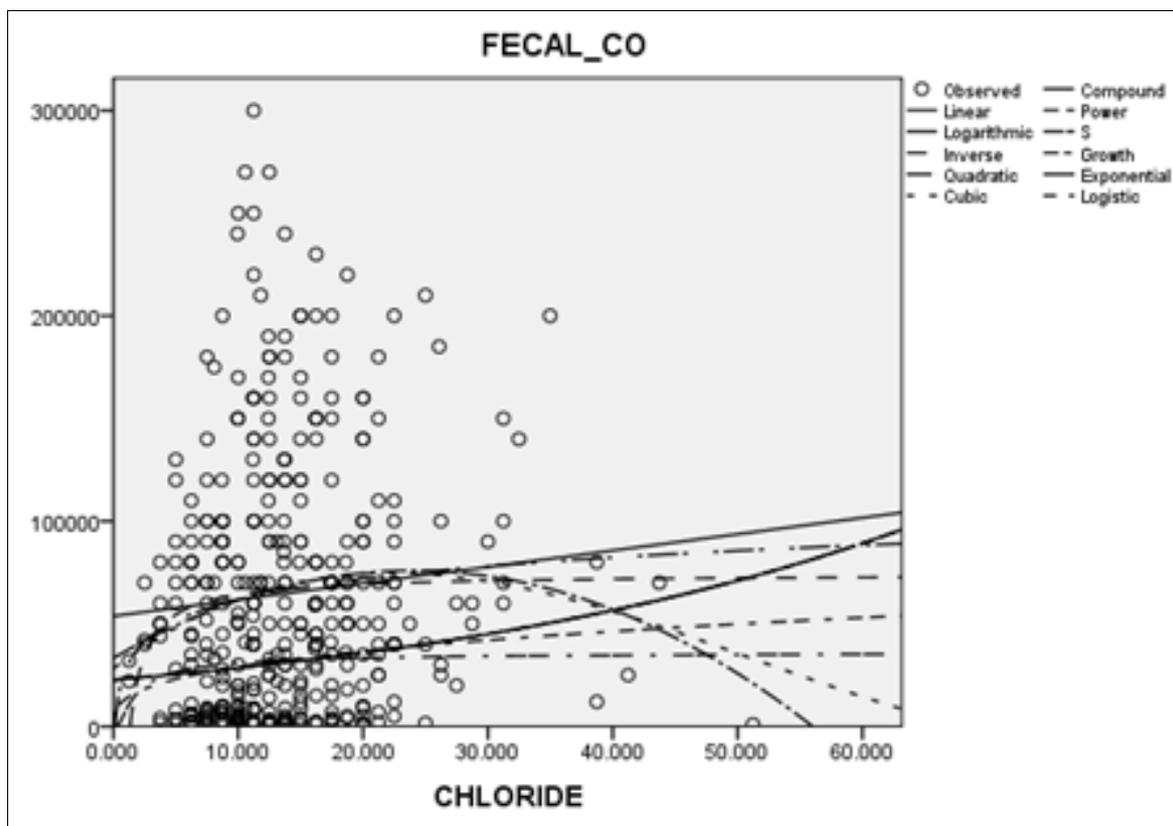


Fig 4: Entero-bacteria counts n/l are negatively correlated with Hydrocarbon derivatives in ppt in the water environment.



**Fig 5:** Coli-form Bacteria counts n/l are negatively correlated with Chlorine derivatives in ppt in water environment



**Fig 6:** Fecal-coli-form Bacteria counts n/l are negatively correlated with Chlorine derivatives in ppt in the water environment.

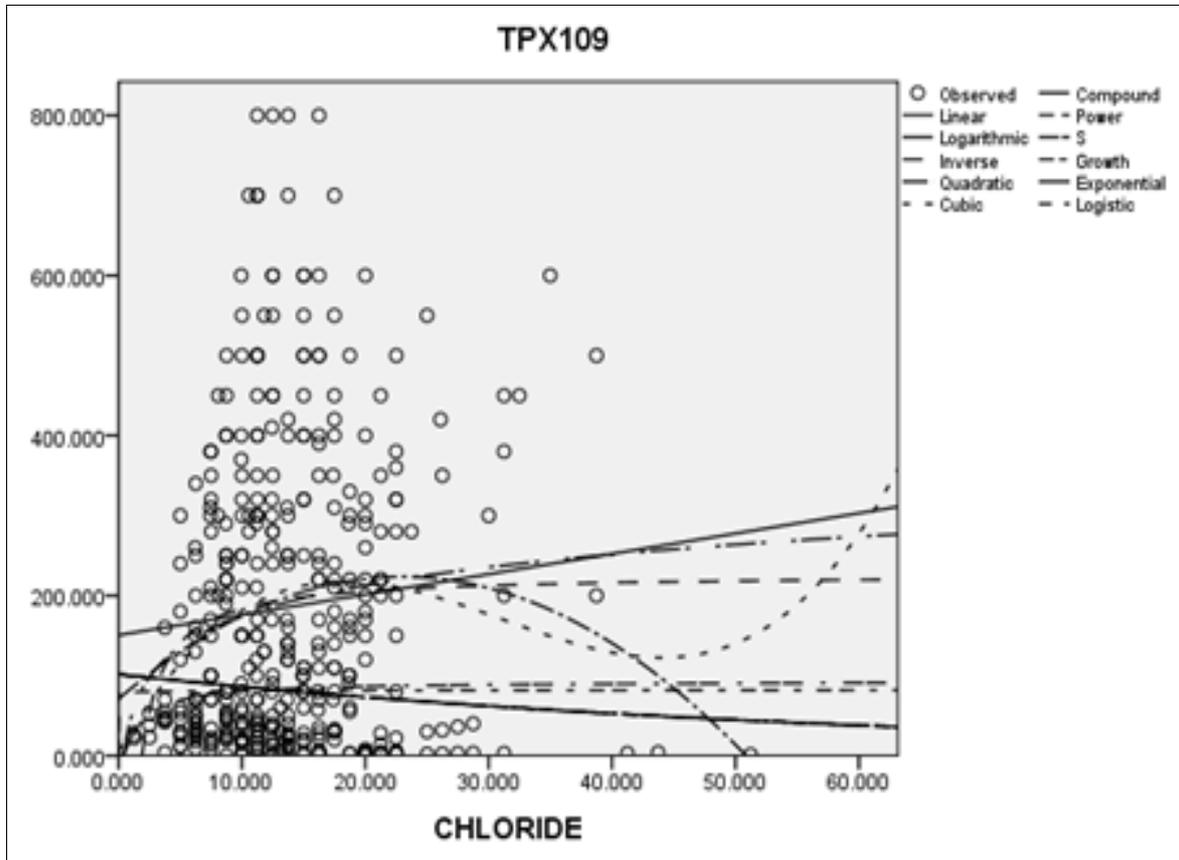


Fig 7: Platy-Bacteria counts n/l are negatively correlated with Chlorine derivatives in ppt in the water environment.

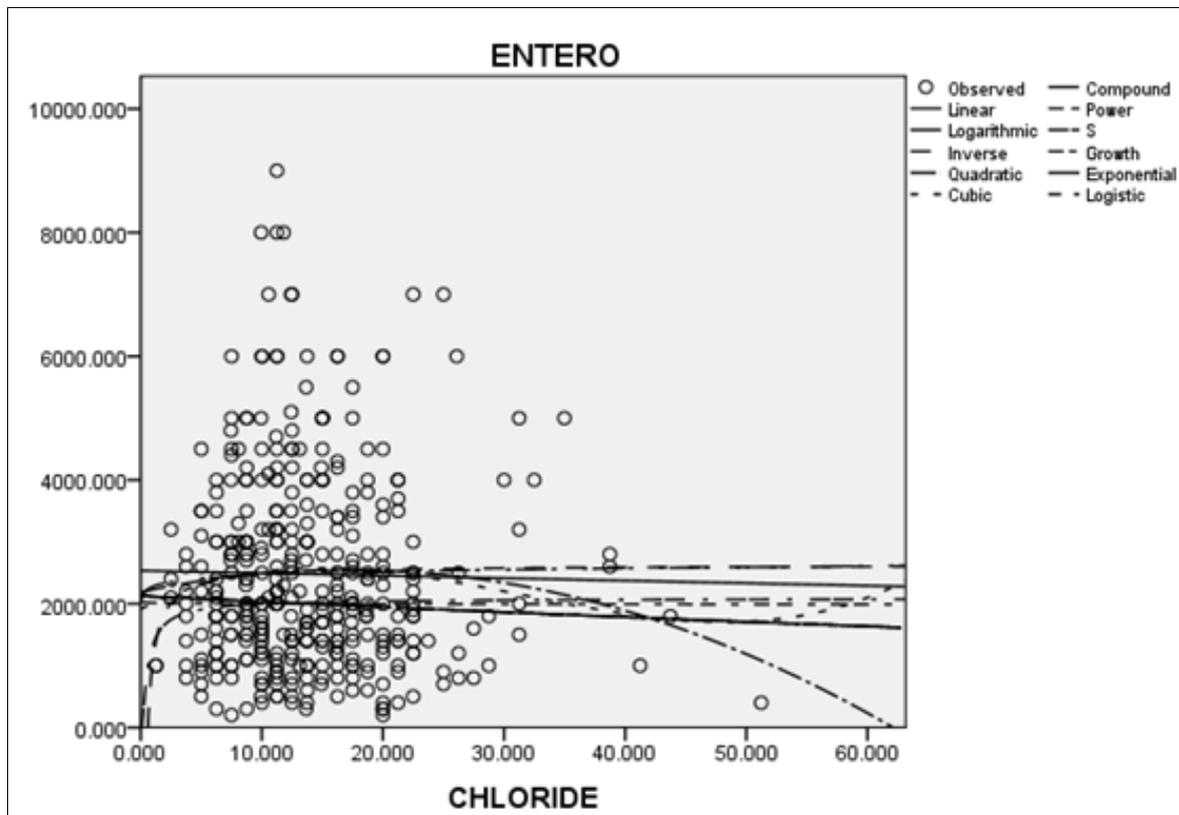


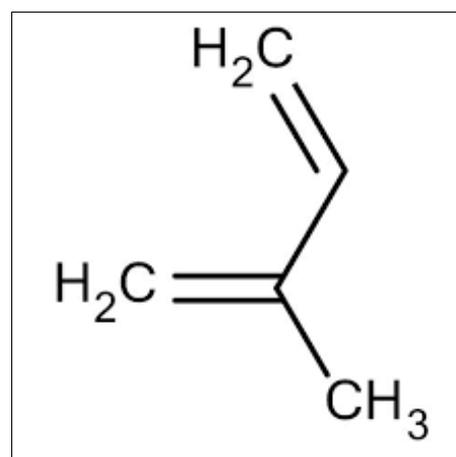
Fig 8: Entero-bacteria counts n/l are negatively correlated with Chlorine derivatives in the water environment.

**Results and Discussion**

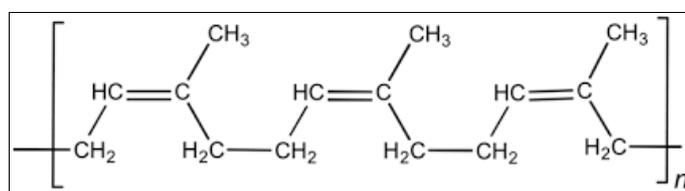
Holy Isoprene, here exemplified with hydrocarbon and Chlorine acts with a certain range of concentration is precious and maybe at very high, higher and highest excepting its enzymes that existing since life is originated. The most basic precursor

of all fat-soluble vitamins is isoprene. Plants produce more isoprene than animals. Among the plants, most phytoplankton especially marine species synthesize isoprene. Since the pre-historic era sea breezes are considered good for health, as found that sea breezes contain Isoprene. Synthesis of this

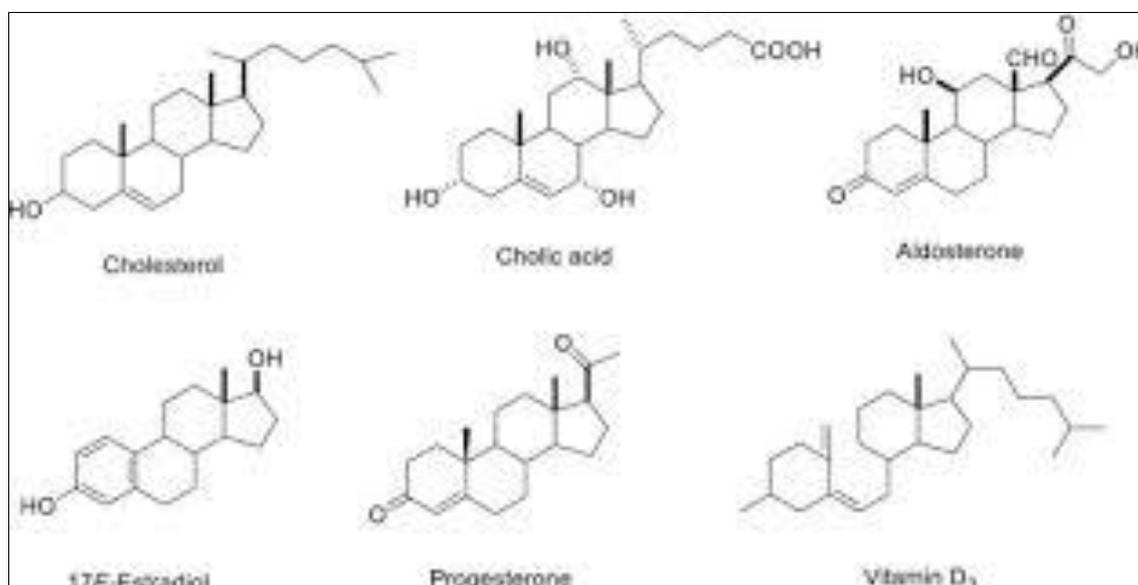
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**Fig 9:** Isoprene, the smallest unit the most reactive to all unicellular pathogens of Digital Rules in disease prevention and curing with Natural or inductive biotechnology, of Nano-biotechnology in mankind in Environmental editing



**Fig 10:** Poly Isoprene s. The precursor of many bio-molecules and less reactive D of Digital Rules in disease prevention and curing with Natural or inductive biotechnology, of Nano-biotechnology in mankind in Environmental editing



**Fig 11:** Bio-molecules made with Isoprene act as cellular levels to prevent diseases or pathogens of Digital Rules in disease prevention and curing with Natural or inductive biotechnology, of Nano-biotechnology in mankind in Environmental editing

## Conclusion

Isoprene biochemistry and its rules in preventing and curing disease functionality are proportionate to the temperature, air density, altitude etc. Isoprene (C<sub>5</sub>H<sub>8</sub>) is the bio-molecule that helps in synthesizing fatty acids, vitamins, steroids, cholesterol, secondary hormone, sex hormones, and many other micro or macro bio-molecules in the biological systems. Both plants and animals can synthesize Isoprene, often a few plants are medicinal because of Isoprene synthesis as well.

Predominantly marine and terrestrial phytoplankton synthesize Isoprene to a large extent. Other terrestrial plants like Mosses, Pine tree, Grasses, Bamboo tree, Eucalyptus, Mango, Citrus spp., etc. can adequately synthesize Isoprene and makes the environment hygienic or pathogen-free. As pieces of evidence found that Isoprene bio-molecule, a nano-particle the smallest unit is below 3nm, can prevent and cure any unicellular pathogen by molecular diffusion. Isoprene is firstly a water-insoluble or hydrophobic molecule that

repulses a hydrophilic pathogen. Secondly, Isoprene having double bonds get saturated or hydrated with acid or even nucleic acids of unicellular pathogens, also assumed, evidence may be found that isoprene can react with pathogenic nucleic acids or genetic material by forming Isoprene phosphate. Hence Isoprene can break down genetic materials of unicellular pathogens simply by molecular diffusion within the pathogenic cells. In normal instances, Isoprene cannot penetrate multi-cellular organisms. Often the oceans, or the Nilgiris in India, are so colourful and diseases less because of persisting Isoprene. In fisheries science, we find that Isoprene is water-insoluble with a molecular density of 0.68 gm/cc and can be floated in the water below 30 degrees; hence often fish species *Catla catla* or any top feeder can further remain diseases-less. In cold-water Fisheries below 35° Celsius which is the vapour point of Isoprene and hence fisheries are safer, whereas climates of tropics or global warming can lead to isoprene less in waters but happy and hygiene terrestrial environment with Isoprene bio-molecule. It may be true that Isoprene can destroy any mutants of virus particles in a similar methodical phenomenon. Digital rules in disease prevention and curing with plant species such as huge plankton species in inland and especially marine, most ayurvedic plant species, all citrus and oranges, Pine, Oaks trees etc. either naturally or semi naturally or maybe natural or inductive biotechnology applied recently of Nano-biotechnology in mankind and holistic environmental editing. Chlorine is plenty available in sea waters and freshwaters as well have antiviral and anti-bacterial roles, as shown already.

#### Acknowledgments

The author is grateful for due publication and all concerned. The first author is immensely thankful to the HODs of Fisheries Research Assessment and Informatics Division and the Director of ICAR-CIFRI, Barrackpore, Kolkata-700120, West Bengal, India for the accomplishments and necessary data support from the Research-scholars.

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