Heat Treatment Induced Bacterial Changes In Irrigation

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Heat Treatment Induced Bacterial Changes
A new heat treatment for recycled irrigation water using 48 °C for 24 h to inactivate Phytophthora and bacterial plant pathogens is estimated to reduce fuel cost and environmental footprint by more than 50 % compared to current protocol (95 °C for 30 s).

Heat treatment induced bacterial changes in irrigation ...
A significant shift was observed in the bacterial community after heat treatment. Most importantly, bacteria with biological control potential-Bacillus and Paenibacillus, and Pseudomonas species...

(PDF) Heat treatment induced bacterial changes in ...
Heat treatment is applied to kill bacteria and thereby extend shelf life of dairy products. Such heat treatment may, however, impair the activity of native antibacterial proteins in milk. The aim of this study was to investigate bacteriostatic capacity and retention of antibacterial proteins in unheated and heated bovine milk.

Effect of heat treatment on bacteriostatic activity and ...
Dear authors, In this study, authors studied “Heat stress induced changes of bacterial composition and metabolism in the rumen of dairy cows”. Although there have been several studies investigated the bacterial community changes during heat stress, the current study was well written. I have only some minor suggestions in this study.

Effect of Heat Stress on Bacterial Composition and ...
The induction of intracellular heat-shock proteins and the activation of extracellular alarmones in vegetative cells exposed to mildly lethal temperatures are important cell responses. In bacterial spores, several factors contribute to the overall resistance to moist (wet) and dry heat; the latter, but not the former, induces mutations.

Lethal Effects of Heat on Bacterial Physiology and ...
The coral-associated Endozoicomonas are dominant bacteria in the coral holobiont. Their relative abundance usually decreases with heat-induced coral bleaching and is proposed to be positively correlated with Symbiodiniaceae abundance. It remains unclear whether this phenomenon of decreased Endozoicomonas abundance is caused by temperature stress or a decreased abundance of Symbiodiniaceae.

Frontiers | Shifting in the Dominant Bacterial Group ...
The above results showing that growth temperature changes can induce physical changes in bacterial genomes suggest that environmental changes in habitats including temperature fluctuations affect significantly the evolution of bacteria. ... Heat Shock-Induced Physical Changes of Megaplasmids in Rhodococcus sp. Strain DK17

Heat Shock-Induced Physical Changes of Megaplasmids in ...
In this study, the patterns of the temperature-induced changes in ribosomes, cell wall components, and DNA of E. coli (gram-negative) and L. plantarum (gram-positive) bacteria are compared by DSC. The results indicate that more intensive heat treatment is needed to inactivate E. coli than to inactivate L. plantarum.

Evaluation of the Heat Inactivation of Escherichia coli ...
These changes include: damage to the creaming properties, non-enzymatic (Maillard) browning, degradation of lactose to lactulose and acids, denaturation of whey proteins and after severe heat treatment, dephosphorylation and hydrolysis of the caseins and eventually heat-induced coagulation. The principal heat-induced changes in milk are described in this chapter.

Heat-Induced Changes in Milk | SpringerLink
Heat treatment was found to remove CHH methylation at the transposon remnants in wild-type plants and to induce aberrant transcription of RdDM targets and their nearby genes (Popova et al., 2013).

Chromatin changes in response to drought, salinity, heat ...
These changes include: damage to the creaming properties, non-enzymatic (Maillard) browning, degradation of lactose to lactulose and acids, denaturation of whey proteins and after severe heat...

Heat-Induced Changes in Milk | Request PDF
During a hyperthermia treatment, a patient’s body is typically brought up to a temperature of 106.4 degrees Fahrenheit and kept there for a long time, often up to six hours, to kill any bacteria or...

Bringing the Heat: Using Hyperthermia to Treat Lyme ...
Effects of heat treatment on the antioxidative and anti-inflammatory properties of orange by-products. This study investigated the changes in the functional components, antioxidative activities, antibacterial activities, anti-inflammatory activities of orange (Citrus sinensis (L.) Osbeck) by-products (OBP) on heat treatment at 50 and 100 °C (hereafter denoted 50D and 100D extracts, respectively).

Effects of heat treatment on the antioxidative and anti ...
Heat treatment is an established technique that has been used to decontaminate medical devices, ensure aseptic inoculation, and aid in therapeutic preparations (17, 18). However, for M. tuberculosis, reports have

shown that short slide flaming or drying on a hot block is insufficient to completely inactivate all bacilli (19, 20).

Heat Inactivation Renders Sputum Safe and Preserves ...
Vacuum-packaged poultry cooked sausages were pressure-treated at 500 MPa by combinations of time (5–45 min) and temperature (2–80 °C) and later stored at 6–8 °C for 12 we. Mesophile and psychrotrophe...

Pressure- vs. heat-induced bacterial stress in cooked ...
On the other hand, bacteria under the mild heat at 55 °C were inactivated via a sublethal injury process. The different lethal modes were observed between sonication and mild heat treatments, which could synergistically inactivate S. aureus. The antibacterial value of thermo-sonication was greater than the sum of the individual treatments.

Analysis of Staphylococcus aureus cell viability ...
Additional changes are made possible by heat-treating—for instance, by accelerating the rate of cooling through the austenite-to-ferrite transformation point, shown by the P-S-K line in the figure. (This transformation is also called the Ar 1 transformation, r standing for refroidissement, or “cooling.”)

Steel - Effects of heat-treating | Britannica
Subsequent exposure of those transplanted corals to thermal stress conditions changed the bacterial community of heat-sensitive corals from a more stable, cooler environment, whereas heat-tolerant corals from a highly variable, warmer environment harbored a stable bacterial community (Ziegler et al., 2017).

Heat-induced shift in coral microbiome reveals several ...
Accumulating evidence has revealed the dysbiosis of gut/fecal microbiota induced by heat stress (HS) in mammals and poultry. However, the effects of HS on microbiota communities in different intestinal segments of Cherry-Valley ducks (a widely used meat-type breed) and their potential associations with growth performances, fat deposition, intestinal morphology, and antioxidant capacity have ...

Associations of Gut Microbiota With Heat Stress-Induced ...
In this report, we have shown that S. aureusbiofilms, grown on an upper respiratory epithelial substratum, disperse in response to host physiologic changes related to viral infection, such as febrile range temperatures, exogenous ATP, norepinephrine, and increased glucose.