What is claimed is:

~~1. An apparatus for communication using a user's body, the apparatus comprising:~~

~~an ingestible ingredient; and~~

~~an ingestible device to communicate[[s]] information, the ingestible device associated with the ingredient, wherein the ingestible device comprises:~~

~~a support structure;~~

~~a first material physically associated with the support structure; and~~

~~a second material physically associated with the support structure at a location different from the location of the first material, such that the first material and second material are electrically isolated from each other and capable of generating a voltage potential when in contact with a conducting fluid,~~

~~wherein the support structure includes a control module for controlling the conductance between the first material and the second material; and~~

~~wherein the ingestible device is activated when in contact with the conducting fluid and the contact results in a current signature that includes information encoded therein using the control module.~~

~~2. The apparatus of claim 1, wherein the ingestible ingredient is a food material.~~

~~3. The apparatus of claim 1, wherein the ingestible ingredient is secured to the ingestible device.~~

~~4. The apparatus of claim 1, wherein the ingestible device is communicating with a detector associated with the user's body and wherein the detector receives and decodes the information produced by the ingestible device.~~

~~5. The apparatus of claim 1, further comprising a coating material that surrounds the ingestible device.~~

~~6. The apparatus of claim 5, wherein the coating material breaks apart upon mastication by the user.~~

~~7. The apparatus of claim 5, wherein the coating material dissolves when in contact with a physiological fluid.~~

~~8. The apparatus of claim 1, wherein the apparatus is configured to communicate with a receiver secured to the user's skin.~~

~~9. The apparatus of claim 1, further comprising a sensor in communication with and electrically connected to the ingestible device, wherein the sensor detects pH levels of the environment surrounding the ingestible device and sends a signal to the control module.~~

~~10. The apparatus of claim 2, wherein the apparatus is packaged such that consumption of the food material by the user results in activation of the ingestible device to produce information that indicates that the food material has been consumed.~~

~~11. The apparatus of claim 2, further comprising:~~

~~a housing unit that defines a cavity, wherein the food material is a liquid stored within the cavity of the housing unit;~~

~~a coating material that surrounds the ingestible device that is stored within the housing unit such that the coating material isolates the ingestible device from the liquid until the coating are dissolved by the user's digestive system.~~

~~12. The apparatus of claim 1, wherein the ingestible device further comprises a non-conductive membrane secured to the support structure and positioned relative to the first and second materials to facilitate extension of an electrical path between the first and second material when in contact with a conducting fluid.~~

~~13. The apparatus of claim 2, further comprising a pharmaceutical product in an ingestible form and associated with at least one of the ingestible device and the food material, such that ingestion also delivers a medication.~~

~~14. A communicating food product for consumption by a user, the product comprising:~~

~~a housing defining a cavity, wherein the housing can be masticated by the user;~~

~~an ingestible device to communicate information through the user's body, the ingestible device being located within the cavity, wherein the ingestible device comprises:~~

~~a support structure;~~

~~a first material physically associated with the support structure; and~~

~~a second material physically associated with the support structure at a location different from the location of the first material, such that the first material and second material are electrically isolated from each other and capable of generating a voltage potential when in contact with a conduction fluid,~~

~~wherein the support structure includes a control module for controlling the conductance between the first material and the second material; and~~

~~wherein the ingestible device is activated when in contact with a conducting fluid and results in a current signature that includes information encoded therein using the control module.~~

~~15. The product of claim 14, further comprising:~~

~~a coating surrounding the ingestible device; and~~

~~a digestible ingredient located within the cavity of the housing,~~

~~wherein the coating isolates the digestible ingredient from the ingestible device.~~

~~16. The product of claim 15, wherein the housing is flexible to withstand mastication pressures and wherein the housing disintegrates in the user's stomach.~~

~~17. The product of clam 15, wherein the housing breaks apart upon mastication and releases the ingestible device.~~

~~18. The product of claim 15, wherein the digestible ingredient is a liquid.~~

~~19 The product of claim 14, further comprising a sensor in communication with and electrically connected to the ingestible device, wherein the sensor detects pH levels of the environment surrounding the ingestible device and sends a control signal to the control module for activation of communication of the ingestible device.~~

1~~20~~. A signal producing food product comprising:

a digestible material;

a plurality of communication devices associated with the digestible material,

wherein each communication device comprises:

a first material physically associated with a support structure; and

a second material physically associated with the support structure at a location different from ~~the location of~~ the first material,

wherein the first material and the second material are electrically isolated from each other and are selected such that they form~~represent~~ a voltage potential difference when in contact with a conductive fluid to provide power to activate the communication device ~~when in contact with a conducting fluid~~,

wherein the support structure includes a control module electrically coupled to the first material and the second material and configured to control conductance between the first material and the second material to modulate a current flow extending through the conductive fluid ~~for~~

~~controlling the conductance~~ between the first material and the second material and thereby generate a detectable encoded current signature~~,~~;

wherein at least one first communication device of the plurality of communication devices is located within a first coating wherein the first coating is configured~~cavity defined by a housing that~~ to dissolve~~s~~ in a user's stomach to thereby ~~and the housing prevents~~ activat~~e~~ion ~~of~~ the at least one first communication device in the user's stomach and withstand mastication pressure to prevent the activation of the at least one first communication device as the user chews the signal producing food product, and

wherein at least one second communication device of~~in~~ the plurality of communication devices is coated with a second coating configured to~~and the coating~~ break~~s~~ as the user chews the signal producing food product~~,~~ to thereby activat~~e~~~~ing~~ the at least one second communication device in the user's mouth.

~~21. An apparatus, comprising:~~

~~a food product;~~

~~an ingestible medication stored within the food product;~~

~~a plurality of ingestible devices stored within the food product; and~~

~~a coating material surrounding each ingestible device from the plurality of ingestible devices, the coating material configured to insulate each ingestible device from the plurality of ingestible devices from the ingestible medication when the coating material is not in contact with an electrically conductive fluid,~~

~~the food product configured to release at least one ingestible device from the plurality of ingestible devices upon mastication of the food product, the at least one ingestible device, upon contact with the electrically conductive fluid, configured to generate a current signature associated with the ingestible medication.~~

~~22. An apparatus, comprising:~~

~~a housing unit defining a cavity, the housing being flexible to withstand mastication pressures, the housing unit dissolvable by an electrically conductive fluid;~~

~~an ingestible medication stored within the cavity of the housing unit; and~~

~~an ingestible device stored within the cavity of the housing unit, the ingestible device associated with the ingestible medication,~~

~~the housing unit configured to release the ingestible device upon dissolution by the electrically conductive fluid,~~

~~the ingestible device, upon contact with the electrically conductive fluid, configured to generate a current signature associated with the ingestible medication.~~

~~23. The apparatus of claim 22, further comprising:~~

~~a food product, the housing unit stored within the food product.~~

~~24. An apparatus, comprising:~~

~~a food product;~~

~~an ingestible medication stored within the food product; and~~

~~an ingestible device stored within the food product, the ingestible device including a protective layer, the ingestible device associated with the ingestible medication,~~

~~the food product configured to release the ingestible device upon mastication of the food product by a user, the protective layer configured to retain the ingestible device substantially intact upon mastication by the user, the protective layer configured to be dissolved by the user's stomach fluid,~~

~~the ingestible device, upon contact with the stomach fluid after dissolution of the pH-sensitive layer, configured to generate a current signature that includes encoded information associated with the ingestible medication.~~

2. The signal producing food product of claim 1, wherein the digestible material is a food material.

3. The signal producing food product of claim 2, wherein activation of at least one of the plurality of communication devices produces information that indicates that the food material has been consumed.

4. The signal producing food product of claim 2, further comprising a pharmaceutical product in an ingestible form and associated with at least one of the plurality of communication devices and the food material, such that ingestion also delivers a medication.

5. The signal producing food product of claim 1, wherein the digestible material is secured to the plurality of communication devices.

6. The signal producing food product of claim 1, wherein the plurality of communication devices are configured to communicate information in the detectable encoded current signature to a detector associated with the user's body and wherein the detector receives and decodes the encoded information produced by the plurality of communication devices.

7. The signal producing food product of claim 1, wherein the at least one second communication device is activated when in contact with the user's saliva.

8. The signal producing food product of claim 1, wherein the plurality of communication devices are configured to communicate with a receiver secured to the user's skin.

9. The signal producing food product of claim 1, further comprising a sensor in communication with and electrically connected to one of the plurality of communication devices, wherein the sensor is configured to detect pH levels of the environment surrounding the respective communication device and is configured to send a signal to the control module representative of the surrounding environment.

10. The signal producing food product of claim 1, wherein at least one of the plurality of communication devices further comprises a non-conductive membrane secured to its respective support structure and positioned relative to the first and second materials to facilitate extension of the current flow extending through the conductive fluid between the first and second material.

11. The signal producing food product of claim 1, wherein the signal producing food product includes a marker species and at least one of the plurality of communication devices is configured to detect or measure the marker species.