

WHAT IS CLAIMED IS:

1. A system for biometric based information communication comprising:
 - a biomedical device including:
 - a sensing means, wherein the sensing means measures a biometric of a user;
 - an energization device; and
 - a communication means;
 - a user electronic device, wherein the user electronic device is paired in a communication protocol with the biomedical device and gathers personalized data about the user other than the biometric of the user; wherein the user electronic device correlates at least a data value originating from the biomedical device with the other personalized data about the user;
 - a communication hub, wherein the hub receives communication containing at least the data value originating from the biomedical device and the other personalized data about the user, and transmits the communication to a content server;
 - the content server, wherein the content server processes the communication containing at least the data value from the biomedical device and the other personalized data about the user and determines a message to communicate to the user;
 - wherein the processing of the communication containing at least the data value from the biomedical device and the other personalized data about the user influences content of the message;
 - and
 - a feedback element, wherein the message is communicated to the user with the feedback element.
2. The system of Claim 1, wherein the data value from the biomedical device comprises a biometric.
3. The system of Claim 1 or Claim 2, wherein the message comprises an advertisement.

4. The system of any one of Claims 1 to 3 further comprising a gps device, wherein the gps device determines a location of the system.
5. The system of Claim 4, wherein the content server processes the personalized data and the location of the system, and wherein the processing of the personalized data and the location influences content of the message.
6. The system of any one of claims 1 to 5, wherein the user electronic device is a smart device.
7. The system of any one of Claims 1 to 6, wherein the user electronic device is paired in a communication protocol with the communication hub.
8. A system for biometric based information communication comprising:
 - a biomedical device including:
 - a sensing means, wherein the sensing means measures a biometric of a user;
 - an energization device; and
 - a communication means;
 - a smart device, wherein the smart device is paired in a communication protocol with the biomedical device and gathers personalized data about the user other than the biometric of the user;
 - wherein the smart device correlates at least a data value originating from the biomedical device with the other personalized data about the user;
 - a communication hub, wherein the hub receives communication containing at least the data value originating from the biomedical device and the other personalized data about the user, and transmits the communication to a content server;
 - the content server, wherein the content server processes the communication containing at least the data value from the biomedical device and the other

personalized data about the user, and determines a message to communicate to the user,

wherein the processing of the communication containing at least the data value from the biomedical device and the other personalized data about the user influences content of the message;

and

a feedback element, wherein the message is communicated to the user with the feedback element.

9. The system of Claim 8, wherein the smart device is paired in a communication protocol with the communication hub.
10. The system of Claim 8 or Claim 9, further comprising a gps device, wherein the gps device determines a location of the system.
11. The system of Claim 10, wherein the content server processes the personalized data and the location of the system, and wherein the processing of the personalized data and the location influences content of the message.
12. The system of any one of Claims 1 to 11, wherein the sensing means measures a temperature of the user.
13. The system of any one of Claims 1 to 11, wherein the sensing means measures a size of a user's pupil.
14. The system of any one of Claims 1 to 11, wherein the sensing means measures a user's pulse.
15. The system of any one of Claims 1 to 11, wherein the sensing means measures a user's blood pressure.

16. The system of any one of Claims 1 to 11, wherein the sensing means measures a concentration of a bioavailable chemical.
17. The system of any one of Claims 1 to 11, wherein the sensing means measures an oxygen concentration in the blood of the user.
18. The system of any one of Claims 1 to 17, wherein the sensing means comprises an accelerometer.
19. The system of any one of Claims 1 to 18, wherein the feedback element includes a display.
20. The system of any one of Claims 1 to 19, wherein the feedback element is located in the biomedical device.
21. The system of any one of Claims 1 to 20, wherein the feedback element includes a vibrational transducer.
22. A method to communicate a message, the method comprising:
 - obtaining a biomedical device capable of performing a biometric measurement,
 - utilizing the biomedical device to perform the biometric measurement;
 - communicating a biometric data result of the user obtained by the biometric measurement to a user electronic device;
 - wherein the user electronic device gathers personalized data about the user other than the biometric of the user and correlates the biometric data result with the other personalized data about the user;
 - receiving the biometric data result and the other personalized data about the user at a content server;

processing the biometric data result with the other personalized data about the user, and determining a message to communicate to the user, at the content server;

wherein the processing of the biometric data result and the other personalized data about the user influences content of the message;

receiving the message based upon the communication of the biometric data result obtained by the biometric measurement and the personalized data

; and

communicating the message to the user with a feedback device.

23. The method of Claim 22, further comprising receiving at least a data value corresponding to a user location at the content server.

24. The method of Claim 23, further comprising tailoring the message based upon the data value corresponding to user location.

25. The method of Claim 22, further comprising:

determining a location of the biomedical device to obtain location data;

communicating the location data to the content server, which is connected to a network,

authorizing the content server, via a signal from the biomedical device, to obtain environmental data related to the location data;

authorizing the content server to initiate an algorithm to be executed to retrieve targeted and individualized content based on the biometric data, the environmental data, the location data and a personalized preference determination calculated via predictive analysis to generate the targeted and individualized content;

receiving a message comprising the targeted and individualized content; and

displaying the message to the user with said feedback device.

26. The method of any one of Claims 22 to 25, wherein the message comprises an advertisement.
27. The method of any one of Claims 22 to 26, wherein the biomedical device comprises a worn device.
28. The method of any one of Claims 22 to 26, wherein the biomedical device comprises an electronic bandage.
29. The method of Claim 28, wherein the electronic bandage comprises a battery.
30. The method of any one of Claims 22 to 26, wherein the biomedical device comprises a smart watch.
31. The method of Claim 22, further comprising:
- authorizing a paired communication between the biomedical device and the feedback device, wherein the feedback device includes a display and network communication device;
 - communicating the biometric data from the biomedical device to the feedback device;
 - communicating the biometric data to the content server connected to a network;
 - authorizing the content server to initiate an algorithm to be executed to retrieve a message, wherein the content of the message is based on the biometric data and a personalized preference determination calculated via predictive analysis to generate the message content;
 - receiving a message with the feedback device; and
 - displaying the message to the user.
32. The method of any one of Claims 22 to 31, wherein the feedback device comprises a smart phone.
33. The method of any one of Claims 22 to 31, wherein the feedback device comprises a smart watch.

34. The method of Claim 22, wherein the biomedical device comprises a microfluidic microbe sensor.
35. The method of Claim 22, wherein the biomedical device comprises a quantum dot sensor and a colorimetric microbe sensor.