CLAIMS

1. An energized biomedical ophthalmic system comprising:

an energy source;

a light source configured to emit light for the treatment of a seasonal affective disorder of a user, energized by the energy source and positioned to direct light towards an eye of the user;

a biomarker sensor, wherein the biomarker sensor can detect changes in biomolecules related to SAD contained in the tear film of the user and generate signal data corresponding to the measured changes;

a processor in logical communication with the biomarker sensor, wherein the processor is operative to receive and process said signal data to output data related to the control of the light source: and

wherein the light source is controlled by and in proximity to the processor.

2. The energized biomedical ophthalmic system of Claim 1, additionally comprising a light sensor in communication with the processor.

3. The energized biomedical ophthalmic system of Claim 1, wherein the biomarker sensor comprises an electrochemical microchip with analytical sensitivity.

4. The energized biomedical ophthalmic system of Claim 3, wherein the electrochemical microchip with analytical sensitivity is capable of measuring changes of melatonin biomolecules in tear film.

5. The energized biomedical ophthalmic system of Claim 3, wherein the electrochemical microchip with analytical sensitivity is capable of measuring changes of serotonin biomolecules in tear film.

6. The energized biomedical ophthalmic system of Claim 3, wherein the electrochemical microchip with analytical sensitivity is capable of measuring changes of interleukin-6 biomolecules in tear film.

7. The energized biomedical ophthalmic system of Claim 1, wherein the energized biomedical ophthalmic device comprises an energized contact lens.

8. The energized biomedical ophthalmic system of Claim 7, wherein the energized contact lens comprises a media insert encapsulating the energy source.

9. The energized biomedical ophthalmic system of Claim 1, additionally comprising an antenna.

10. The energized biomedical ophthalmic system of Claim 9, wherein the antenna can transmit electrical signals from an exterior controller.

11. The energized biomedical ophthalmic system of Claim 1, comprising an energized complementary contact lens comprising the processor in logical communication with a second processor contained in spectacles.

12. The energized biomedical ophthalmic system of Claim 1, wherein the light source comprises one or more light-emitting diodes.

13. The energized biomedical ophthalmic system of Claim 7, wherein said energized contact lens houses said energy source, said light source, said biomarker sensors, and said processor.