

Contributions and Impacts on Health Using New Technologies and Innovative Products

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This edition of the **Journal of Bioengineering and Technology Applied to Health** brings a selection of four articles presented at the V International Symposium on Innovation and Technology (SIINTEC).

The SIINTEC happens since 2015 at SENAI CIMATEC. The event is annual and promoted by SENAI CIMATEC, Salvador, Bahia, Brazil. The objective of the event is to contribute significantly to the scientific and technological country's development, seeking the massive participation of academy and industry involved in research, development and innovation.

The V SIINTEC was held from October 9th to October 11th, 2019, and had focus on: "Circular Economy".

The event gave the opportunity to discuss the main topics related to technological innovations as basis for meeting the challenges of productive processes for the generation and application of business and social.

The contributions and impacts on health using new technologies and innovative products are discussed in the papers selected for publication.

The topics discussed bring discussions about:

- Humanoid prototype development through 3D printing for new technologies;
- Mathematical modeling of the extraction process essential oils;

- The Impact on Human Health of Particulate Matter Arising from Atmospheric Pollution;
- An Innovative Concept of Traceable Device for Monitoring Temperature of Healthcare Products Temperature Sensitive.

The research presented in this edition makes significant contributions to state-of-the-art presentations, innovative medical products, health innovation initiatives, and a review article.

The authors highlighted in their research:

1. The development of a prototype of a humanoid robot by 3D printing that is as close as possible to the human being;
2. Supercritical oil extraction from *S. terebinthifolius* can result in higher value-added products when integrated to Mathematical models;
3. The fine particles (PM2.5) are the most recurrent incidence of respiratory disease, as they are emitted mainly by industrial activities and vehicular emissions; and
4. The thermo-sensitive health products lack traceability in the health network and that the concept presented contributes to preserving their integrity along the cold chain.

We wish you all an excellent reading.

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J Bioeng. Biotech. Appl. Health 2019;2(4):111. © 2019 by SENAI CIMATEC. All rights reserved.