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**EDITORIAL**

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Every day we hear about a new biological mechanism, a new encouraging therapy, a new effective medicine and it seems that we are getting closer to unraveling some mysteries that have been waiting patiently for centuries to be elucidated.

From the discovery of the optical microscope to artificial intelligence, from witch doctors to telemedicine, from penicillin to mRNA vaccines, technology and innovation have had a major impact on improving people's quality of life by reducing human error, improving clinical outcomes, processing data in real time. Recent scientific discoveries and technological advances have improved the ability of specialists to understand the pathogenesis of a disease and have revolutionized the diagnosis and treatment. Thus, we can talk today about a more precise, effective, particular medical care known as personalized medicine or precision medicine.

Nowadays, genetic and epigenetic changes seem to be responsible for the occurrence of various diseases, and phenotypic analysis is a tool of great importance in elucidating pathophysiology at the cellular and tissue level. Digital biomarkers also offer the possibility to quantify clinical objectives in a remote, objective and impartial manner. However, the use of omics technologies generates impressive amounts of data sets, and their analysis requires sophisticated computational and statistical methods. Thus, given the multitude of information, the current challenge in the field of life sciences is the transformation of the multi-parametric classification of a biomedical concept into its precise definition. As a result, the big data revolution provided an opportunity to process this vast set of data by applying artificial intelligence and machine learning algorithms.

These days, artificial intelligence, machine learning algorithms, computational biology and digital biomarkers offer the possibility of translating new data into pragmatic information, which can be the path to early diagnosis and precise treatment options. However, many concerns remain about the reliability of artificial intelligence diagnostic tools, the vulnerability of algorithms, and the impact of digital health

opportunities on current clinical practice. Thus, we are pleased to announce the launch of the ***Technology and Innovation in Life Sciences (TILS Journal)***, a multidisciplinary scientific journal that aims to disseminate latest results **in field of innovation and technology in life sciences** (e.g. artificial intelligence, machine learning, bigdata, VR, digital health, robotic surgery, endoscopy, nano technology, pharmacology).

The content of the journal is published in **OPEN ACCESS** mode, which means that readers are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles and to use them for any other lawful purpose. There are **no APC's** or other fees.

The journal will publish different types of articles: editorial, original article, review (narrative, systematic or meta-analysis), short communications and image-article.

TILS Journal operates in a continuous publication mode where accepted articles are posted online as soon as they have completed the production process. All the submitted articles will be scanned with **antiplagiarism** software.

Finally, if ***technology and innovation in life sciences*** are a topic of interest to you, we are pleased to inform you that **TILS Journal** would like to publish your manuscript.