## **Special Issue**

# Fractal Analysis in Biology and Medicine

## Message from the Guest Editor

The complexity is expressed as a fractal dimension, which depicts the space-filling properties of different irregularly shaped objects that can be found in various living and non-living objects. In the vast field of biomedical sciences these objects usually represent various forms of cells, their ultrastructural parts. Traditional guantitative, semiguantitative, and gualitative techniques of analysis of these structures provide results of limited value, fractal analysis has now proven to be a useful tool for the detection of those changes in biological objects obtained from both physiological and pathological conditions. In addition to objects obtained from histological images, fractal analysis is increasingly used in the analysis of various images obtained using different imaging methods and biological signals, such as the complexity-based analysis of brain and muscle electrical activity.

This Research Topic will welcome diverse types of articles including original research articles, review articles, technical note articles, and perspective articles related to the application of fractal analysis in different biomedical fields.

#### **Guest Editor**

Dr. Ivan Zaletel

Institute of Histology and Embryology "Aleksandar Đ. Kostić", Faculty of Medicine, University of Belgrade, 11000 Belgrade, Serbia

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Fractal and Fractional Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 fractalfract@mdpi.com

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## About the Journal

## Message from the Editor-in-Chief

*Fractal and Fractional (Fractal Fract.)* is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peerreviewed, open access journal that publishes high quality original research articles, review papers and short communications.

## Editor-in-Chief

Prof. Dr. Carlo Cattani Engineering School (DEIM), University of Tuscia, Largo dell'Università, 01100 Viterbo, Italy

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