

Accepted Manuscript

Fractal rules in brain networks: signatures of self-organization

Soibam Shyamchand Singh, Dineshchandra Haobijam,
Md. Zubair Malik, Romana Ishrat, R.K. Brojen Singh

PII: S0022-5193(17)30431-9
DOI: [10.1016/j.jtbi.2017.09.014](https://doi.org/10.1016/j.jtbi.2017.09.014)
Reference: YJTBI 9207



To appear in: *Journal of Theoretical Biology*

Received date: 9 November 2016
Revised date: 4 July 2017
Accepted date: 16 September 2017

Please cite this article as: Soibam Shyamchand Singh, Dineshchandra Haobijam, Md. Zubair Malik, Romana Ishrat, R.K. Brojen Singh, Fractal rules in brain networks: signatures of self-organization, *Journal of Theoretical Biology* (2017), doi: [10.1016/j.jtbi.2017.09.014](https://doi.org/10.1016/j.jtbi.2017.09.014)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- We address systems level organization in complex brain networks and maintenance of selforganization to understand issues in brain functionalities at fundamental level.
- The fractal nature is found to be at various brain networks (lower to higher level species) not only at complete network, but also at various levels of network organization.
- The universality of fractal nature at various levels of the brain network and absence of central control mechanism could reveal the self-organization at various system levels.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8876904>

Download Persian Version:

<https://daneshyari.com/article/8876904>

[Daneshyari.com](https://daneshyari.com)