Q1

Here, they studied network-wide spatio-temporal patterning in scale-free networks with two types of synaptic failure:activity-dependent and activity-independent.   
 Further, they defined scale-free network structures based on the dominating direction of the connections at the hub neurons: incoming and outgoing. They found that the two structures have significantly different dynamical properties.   
 Moreover, synaptic failure may not only lead to the loss of coherence but, under some conditions, also can facilitate its emergence unintuitively. They showed that this is because activity-dependent synaptic failure homogenizes the activity levels in the network creating a dynamical substrate for the observed coherence increase. Their results indicate that coherence breakdown due to the synaptic failure may not be enough to explain the loss of consciousness, but at the same time can lead to such pathologies as epilepsy.

Q2

Strengths:   
1. The author used the control variable method to set up several sets of controlled trials.   
2. The structure of the text is clear, except for the initial stage of model design is a bit unclear.

Limitations:   
1. The author does not clearly explain the selection of parameters and the meaning of the model.   
2. Please describe the chapter2-MATERIALS AND METHODS in more detail.   
3. The examples are too few and are not challenging.You could set the Ptrans=0.1 or others in Fig.3.Better yet,you should find the balance point between Ptrans=0.0 to Ptrans=0.2,when there will be a balanced line.   
4. I think it should be accompanied by a description below each figure.

Q3

No

Q4

1. Y
2. Y
3. Y
4. Y
5. N
6. N
7. Y
8. Y

Q5

1. This paper does not clearly explain the selection of parameters and the meaning of the model.
2. Please describe the chapter2-MATERIALS AND METHODS in more detail.
3. The examples are too few and are not challenging.You could set the Ptrans=0.1 or others in Fig.3.Better yet,you should find the balance point between Ptrans=0.0 to Ptrans=0.2,when there will be a balanced line.
4. I think it should be accompanied by a description below each figure.

Q6

4

Q7

4

Q8

3

Q9

3

Q10

3

Q11

3

Q12

Minor revisions

**+**