

Reviewer Report

Title: Transcriptional mapping of the primary somatosensory cortex upon sensory deprivation

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Reviewer Comments to Author:

Kole and colleagues reported a transcriptome profiling dataset of the rodent barrel cortex upon sensory deprivation. This dataset is important and will be a helpful resource for studying experience-dependent plasticity, as the molecular mechanisms underlying this plasticity remains largely elusive. The methods for generating this dataset is appropriate and data quality is well controlled. Specific Point 1: According to Fig1, it seems that the control data are from the layer 2/3 and layer 4 of the C-row, but this is not explicitly stated in the text. Ideally, the cortical column (the row) that is deprived or spared should be compared to the same column from the controls. The authors should explain or justify why it is appropriate to compare the control C-row to the spared A/B/D/E-rows. Are there major transcriptional differences between columns?

Level of Interest

Please indicate how interesting you found the manuscript: An article of importance in its field

Quality of Written English

Please indicate the quality of language in the manuscript: Acceptable

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