# Unconscious Cerebellum[i] - 17/03/2018

[](https://www.blogger.com/blogger.g?blogID=6776834719361606300#\_edn1)  
  
Massimini said that in HBP[ii] they have a lot of information, data and good  
people on the matters of consciousness, neurons, skull, etc., that need to be  
put together. He compares our time with the time before Darwin joined the  
things in the theory of evolution. Thus, even more effort in mining what they  
have than in collecting new data.  
  
One very interesting thing he said is about the cerebellum[a] and its  
disassociation with consciousness. With 80 billion neurons, cerebellum does  
his job unconsciously. Despite of the fact that is does wonderful tasks  
related to our motor coordination, what is missing in its architecture that  
can explain it is like a zombie? On the other hand, thalamocortical[b] system  
is central to consciousness. So, they should be able to compare both of them  
in their experiments and try to find the answer.  
  
This mystery is a very short problem that HBP has in hands and can that can be  
investigate deeper in its researches involving neurobiology, neuromorphic,  
robotics and philosophy. Mixing all these things can put us in the Darwin road  
shortly.  
  
[a]cerebellum[iii]: it performs everyday voluntary tasks such as walking and  
writing. It is also essential to being able to stay balanced and upright.  
  
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zKX8X10r\_8FMENlwkZtZ516niAWoKgU/s1600/cerebellum.jpg)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiTfSqJ0RykIIeSh0OlK65E8rmIZM2ZuuoofKu3lSZcP822V8wrFMlIa\_u-286IaOCHAdJlrzqsD7i72OxMxBjbm1jwSL0F4itIfJL-  
wwuP7hc-zKX8X10r\_8FMENlwkZtZ516niAWoKgU/s1600/cerebellum.jpg)  
  
[b]thalamocortical[iv]: the thalamocortical system constitutes the vast  
majority of the mammalian brain and has been the subject of extensive  
neurobiological and computational study. The thalamus and the neocortex are  
reciprocally connected via pathways of varying levels of topography.  
  
Thalamus[v]: responsible for relaying information from the sensory receptors  
to proper areas of the brain where it can be processed.  
  
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pr4KQRvN1cjUWGRh9QsvrVJcMk0nMn-P4vEfm7FIt67wVPL5osFA\_6Qt0f7aZSiZs82fR6tuIjw/s1600/thalamus.jpg)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgrQEdI8tMEnClpw9Knw0KmDKIiL5ng7OQvU3OA-  
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Cortex[vi]: Responsible for thinking and processing information from the five  
senses.  
  
[![](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh8EaBlwar5\_twJq4MxcCHK2pVOZVKsdW8AcsB\_iVSfiQMpbwybHbjuhaOxvuEWa5l0mY7xHXuBiTHH2-CQY5KUeRU2elQ9p05AzGRVDoi1c0fqwLw87KERJF3YqfmXsQc5J8YP75lYO7c/s1600/cortex.png)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh8EaBlwar5\_twJq4MxcCHK2pVOZVKsdW8AcsB\_iVSfiQMpbwybHbjuhaOxvuEWa5l0mY7xHXuBiTHH2-CQY5KUeRU2elQ9p05AzGRVDoi1c0fqwLw87KERJF3YqfmXsQc5J8YP75lYO7c/s1600/cortex.png)  
  
   
  
   
  
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[i] Very brief of [https://www.humanbrainproject.eu/en/follow-hbp/news/the-  
quest-for-consciousness/](https://www.humanbrainproject.eu/en/follow-  
hbp/news/the-quest-for-consciousness/)  
  
[ii] The Human Brain Project is a H2020 FET Flagship Project which strives to  
accelerate the fields of neuroscience, computing and brain-related medicine.  
  
[iii] In:  
[http://brainmadesimple.com/cerebellum.html](http://brainmadesimple.com/cerebellum.html)  
  
[iv] In:  
<http://www.scholarpedia.org/article/Models\_of\_thalamocortical\_system>  
  
[v] In: <http://brainmadesimple.com/thalamus.html>  
  
[vi] In: <http://brainmadesimple.com/cortex-and-lobes-of-the-brain.html>