

# The Upgrade

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## 1 Abstract

## 2 Background

Heirachical Temporal Memory (HTM) (Numenta, n.d.).

8 **3 Results**

9 **4 Discussion**

10 **5 Conclusion**

11 **6 Methods**

12 **6.1 Metagenomic sequence data**

13 **6.2 Gene abundance profiling**

14 **6.3 MSPs taxonomic annotation**

15 **6.4 MSPs functional annotation**

16 **6.5 Correlation analysis**

17 **7 Data availability**

18 **8 Code availability**

19 **9 Author Contributions**

20 **10 Acknowledgments**

21 **References**

22 Numenta, N. H. (n.d.). *Home page, numenta inc, 2007.*

23 **11 Supplementary material**