

Chromatin is a very complex assembly of the SWI/SNF chromatin remodelling complex from both field and of all subunits, including a very specific subunit. While these subunits are highly conserved across species, they are also highly diverse, suggesting that chromatin remodelling is an essential and conserved process. In this study, we have performed a meta-analysis of the subunit composition of the SWI/SNF complex in various organisms. We have identified a set of subunits that are conserved across all species and a set of subunits that are specific to certain species. We have also identified a set of subunits that are conserved across all species but are not present in all organisms. Our results suggest that the SWI/SNF complex is a highly conserved and diverse complex that is essential for chromatin remodelling and gene expression. The meta-analysis approach used in this study is a powerful tool for the analysis of complex biological systems and can be applied to other areas of research.

Introduction

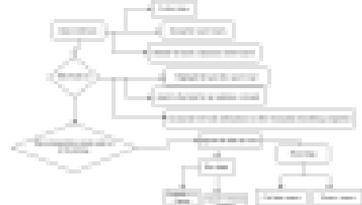
The SWI/SNF complex is a highly conserved chromatin remodelling complex that is essential for gene expression. It is composed of several subunits that are conserved across all species and a set of subunits that are specific to certain species. We have performed a meta-analysis of the subunit composition of the SWI/SNF complex in various organisms. We have identified a set of subunits that are conserved across all species and a set of subunits that are specific to certain species. We have also identified a set of subunits that are conserved across all species but are not present in all organisms.



Objectives

- To identify a stable set of subunits that are conserved across all species and a set of subunits that are specific to certain species.
- To identify a set of subunits that are conserved across all species but are not present in all organisms.
- To identify a set of subunits that are conserved across all species but are not present in all organisms.

Workflow



What's New

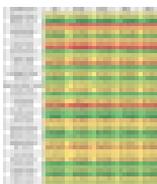
- We have identified a set of subunits that are conserved across all species and a set of subunits that are specific to certain species.
- We have identified a set of subunits that are conserved across all species but are not present in all organisms.
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- The subunit composition of the SWI/SNF complex is highly conserved across all species and a set of subunits that are specific to certain species.
- The subunit composition of the SWI/SNF complex is highly conserved across all species but are not present in all organisms.
- The subunit composition of the SWI/SNF complex is highly conserved across all species but are not present in all organisms.

References

1. Arora, S. S., et al. (2010) The SWI/SNF complex: a conserved chromatin remodelling complex. *Chromatin Remodelling: Molecular Biology and Biophysics*, Springer, New York, 1-15.
2. Bannister, A. J., et al. (2001) The SWI/SNF complex: a conserved chromatin remodelling complex. *Chromatin Remodelling: Molecular Biology and Biophysics*, Springer, New York, 1-15.
3. Wang, S., et al. (2010) The SWI/SNF complex: a conserved chromatin remodelling complex. *Chromatin Remodelling: Molecular Biology and Biophysics*, Springer, New York, 1-15.

Results & Discussion



Subunit	Species	Conserved	Species-specific
BRG1	Human	Yes	No
BRN1	Human	Yes	No
P/CAF	Human	Yes	No
BAF155	Human	Yes	No
BAF170	Human	Yes	No
BAF180	Human	Yes	No
BAF199	Human	Yes	No
BAF200	Human	Yes	No
BAF215	Human	Yes	No
BAF220	Human	Yes	No
BAF250	Human	Yes	No
BAF270	Human	Yes	No
BAF280	Human	Yes	No
BAF290	Human	Yes	No
BAF300	Human	Yes	No
BAF310	Human	Yes	No
BAF320	Human	Yes	No
BAF330	Human	Yes	No
BAF340	Human	Yes	No
BAF350	Human	Yes	No
BAF360	Human	Yes	No
BAF370	Human	Yes	No
BAF380	Human	Yes	No
BAF390	Human	Yes	No
BAF400	Human	Yes	No
BAF410	Human	Yes	No
BAF420	Human	Yes	No
BAF430	Human	Yes	No
BAF440	Human	Yes	No
BAF450	Human	Yes	No
BAF460	Human	Yes	No
BAF470	Human	Yes	No
BAF480	Human	Yes	No
BAF490	Human	Yes	No
BAF500	Human	Yes	No
BAF510	Human	Yes	No
BAF520	Human	Yes	No
BAF530	Human	Yes	No
BAF540	Human	Yes	No
BAF550	Human	Yes	No
BAF560	Human	Yes	No
BAF570	Human	Yes	No
BAF580	Human	Yes	No
BAF590	Human	Yes	No
BAF600	Human	Yes	No
BAF610	Human	Yes	No
BAF620	Human	Yes	No
BAF630	Human	Yes	No
BAF640	Human	Yes	No
BAF650	Human	Yes	No
BAF660	Human	Yes	No
BAF670	Human	Yes	No
BAF680	Human	Yes	No
BAF690	Human	Yes	No
BAF700	Human	Yes	No
BAF710	Human	Yes	No
BAF720	Human	Yes	No
BAF730	Human	Yes	No
BAF740	Human	Yes	No
BAF750	Human	Yes	No
BAF760	Human	Yes	No
BAF770	Human	Yes	No
BAF780	Human	Yes	No
BAF790	Human	Yes	No
BAF800	Human	Yes	No
BAF810	Human	Yes	No
BAF820	Human	Yes	No
BAF830	Human	Yes	No
BAF840	Human	Yes	No
BAF850	Human	Yes	No
BAF860	Human	Yes	No
BAF870	Human	Yes	No
BAF880	Human	Yes	No
BAF890	Human	Yes	No
BAF900	Human	Yes	No
BAF910	Human	Yes	No
BAF920	Human	Yes	No
BAF930	Human	Yes	No
BAF940	Human	Yes	No
BAF950	Human	Yes	No
BAF960	Human	Yes	No
BAF970	Human	Yes	No
BAF980	Human	Yes	No
BAF990	Human	Yes	No

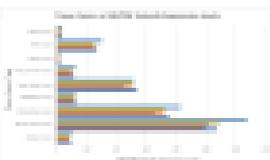
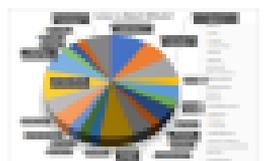
Heatmap showing the subunit composition of the SWI/SNF complex across different species. The y-axis lists subunits and the x-axis lists species. The color scale represents the presence or absence of subunits.

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Data Analysis



Conclusions

KEY FINDINGS

- We have identified a set of subunits that are conserved across all species and a set of subunits that are specific to certain species.
- We have identified a set of subunits that are conserved across all species but are not present in all organisms.
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FINAL RESEARCH

- The subunit composition of the SWI/SNF complex is highly conserved across all species and a set of subunits that are specific to certain species.
- The subunit composition of the SWI/SNF complex is highly conserved across all species but are not present in all organisms.
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