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Spatio-temporal framework for integrative analysis of zebrafish development studies

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Citation

Belmamoune, M. (2009, November 17). *Spatio-temporal framework for integrative analysis of zebrafish development studies*. Retrieved from <https://hdl.handle.net/1887/14433>

Version: Corrected Publisher's Version

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Note: To cite this publication please use the final published version (if applicable).

Stellingen behorend bij het proefschrift:
Spatio-Temporal Framework for Integrative Analysis of Zebrafish Developmental Studies
Te verdedigen op 17 november 2009 om 15.00 uur te Leiden
door
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1. The use of ontologies improves the versatility of data management, integration and therewith data interpretation. [This thesis, Chapter 2]
2. The most important concept to learn regarding ontologies is that they are never complete; knowledge progresses continuously and often, new concepts and relations help to grasp knowledge in a better way. [This thesis, Chapter 2]
3. Holistic 3D visualisation of anatomical structures is critical in the understanding of development and function of different organs and tissues in space and over time. [This thesis, Chapter 3]
4. 3D reconstruction from physical serial sections is considered by many as a laborious methodology to generate 3D models. However, these models must be considered extremely valuable and provide 3D standardized models to developmental biology; this justifies the efforts involved in their production. [This thesis, Chapter 3]
5. Besides the temporal aspect of a gene expression pattern, the spatial aspect of the expression domain is important in developmental studies. In transcriptome analysis this is often neglected [This thesis, Chapter 4]
6. There are many efficient mining algorithms to find association rules. A major issue remains finding the correct algorithm to meet the requirement of specific domain data such as spatio-temporal gene expression data. [This thesis, Chapter 6]
7. "That's what I always say; if you wish a thing to be well done, you must do it yourself, you must not leave it to others!" (The Courtship of Miles Standish by Henry Wadsworth Longfellow-1807-1882-)
8. Voor moeders is promoveren net als een bevalling. Het is geen makkelijke klus; maar zodra het resultaat van alle dat hard werken op je buik ligt, vergeet je meteen alle moeilijke momenten en inspanningen.
9. Integratie is geen assimilatie! Bij integratie gaat het om het handelen van de ander te begrijpen en te respecteren zonder de eigen identiteit kwijt te raken.
10. Als je een probleem in één zin kunt formuleren betekent dat je het probleem begrepen hebt.