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Development of a research topic appropriate for this conference

Ann Bett1*, Rolf Kram2 and Luc Pert1

1 Division of Neurosurgery, University of California Los Angeles, USA
2 Heinrich Heine University, Freiburg, Germany

In this session, we will present two different tools enabling the interoperability of data from the database. Using a developed animal PET/MRI system we have shown excellent performance in both phantom and in vivo examinations (Figure 1), with spatial data like those generated by modern neuroimaging methods.
With the advent of high-resolution neuroimaging techniques, there are large amounts of three-dimensional data generated that provide new insights into structural and functional organization of the brain.
Achieving simultaneously high spatial and temporal resolution for studying spontaneous and event related brain activity will probably depend on the principled integration of information from different recording modalities [1], manipulation of 3D-structures, and organization of these structures in an ontological manner, compatible with the database. Hence it combines the utility of accurate spatial stereotaxic coordinates with the nomenclatorial diversity of entities
As such, the proposed model may play an important role in evaluating and comparing different analysis methods aiming at conversion.

Figure 1.

[1] Bett al. 2008. Nature 2006, 3,123-124

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Oral Presentation

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Ann Bett[1]*, **Rolf Kram**[2] and **Luc Pert**[1]

1 Division of Neurosurgery, University of California Los Angeles, USA
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References

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