E-BioSci
a platform for e-publishing and information integration in the life sciences

Les Grivell
European Molecular Biology Organization
Exponential database growth (EMBL database)
The many facets of genomics

- Genes
- Proteins
- RNAs
- Interactions
- Regulator
- Disease
- Evolution
- Populations
- Signalling
- Diversity
Molecules in motion
Viewing the world of the living cell
Paper is becoming an inadequate medium…

• Some data (types) require more space than is available
• Some data (3-D structures, movies) cannot be printed
• The reader may wish to have the data in computer-readable form

The paper publication is becoming simply a summary pointer to the electronic version
Retrieving information in an ideal world...

- Interconnect
- Search/navigate/explore
- Access information
- Extract/manipulate
- Analyze
- Integrate and visualise
Hurdles to information exchange

- Heterogeneous nature of biological information
- Absence of a uniform, scalable and generally-implementable means of database linking
- Varying degrees of access to full text information
E-BioSci

- Distributed network of information resources
- Europe-based; world-wide role
- Multiple entry points; different language formats
- Access to abstracts, full text, factual databases, multi-media
- Effective linkages between databases and literature
- Host and archive for peer-reviewed e-publications
Why insist on peer-review?

• Authors rely on the perceived quality of their publications as support for funding applications and career advancement

• Readers want guarantees that technical standards have been met, that the conclusions are adequately supported by the experimental data and that the presentation meets acceptable standards of clarity
E-BioSci differs from PubMed Central

- **Will NOT** insist on transfer of information
- **WILL** work in cooperation with content owners
- **Will NOT** contain material that is not refereed or that does not meet its criteria of scientific quality
- **WILL** permit e-publication on multiple sites
E-BioSci’s goals

• To encourage standard protocols for access rights verification
• To promote wider use of structured documents
• To strive for increased connectivity of digital objects
• To aid development of full-text search tools
• To stimulate provision of free access to information
• To encourage conversion of back literature to digital form
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