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- Cell signalling & trafficking structures
- Experimental biophysical methods
- Macromolecular assemblies & machines
- Membrane proteins & energy transduction
- Protein folding
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- Structure: transcription & translation
- Theory & simulation

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- Biocatalysis
- Protein chemistry & proteomics

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1



Exceptional

F1000 Factor **9.6**

Confirmation



New Finding

**Reconstitution, activities, and structure of the eukaryotic RNA exosome.**

Liu Q, Greimann JC, Lima CD

*Cell* 2006 Dec 15 **127**(6):1223-37[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)[\[order article\]](#)

YALE &gt; LINKS

Selected by | Elena Conti **NEW** /

Megerditch Kiledjian

First evaluation 22 Dec 2006 | Latest

evaluation 10 Jan 2007

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2



Exceptional

F1000 Factor **8.4**

Confirmation



New Finding

**Synthesis-mediated release of a small RNA inhibitor of RNA polymerase.**

Wassarman KM, Saecker RM

*Science* 2006 Dec 8 **314**(5805):1601-3[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)[\[order article\]](#)

YALE &gt; LINKS

Selected by | Pamela Geyer /

Jim Maher / Hiroji Aiba / Craig Pikaard

First evaluation 20 Dec 2006 | Latest



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3



**Exceptional**  
F1000 Factor **8.0**

-  Hypothesis
-  New Finding

### The conserved KMN network constitutes the core microtubule-binding site of the kinetochore.

Cheeseman IM, Chappie JS, Wilson-Kubalek EM, Desai A

*Cell* 2006 Dec 1 **127**(5):983-97

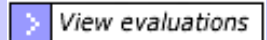
[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)

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**Selected by** | Bruce McEwen / Kevin

G. Hardwick




First evaluation 18 Dec 2006 | Latest evaluation 3 Jan 2007



4



**Must Read**  
F1000 Factor **6.7**

- Confirmation
-  Hypothesis
-  New Finding
-  Tech Advance

### Kinetochore microtubule dynamics and attachment stability are regulated by Hec1.

DeLuca JG, Gall WE, ..., Musacchio A, Salmon ED

*Cell* 2006 Dec 1 **127**(5):969-82

[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)

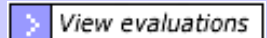
[\[order article\]](#) 

**Selected by** | Bruce McEwen / Kevin

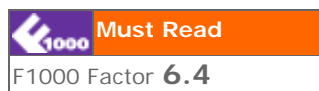
G. Hardwick / Claire Walczak /

Jonathan Scholey

First evaluation 15 Dec 2006 | Latest evaluation 3 Jan 2007



5



**Must Read**  
F1000 Factor **6.4**

-  New Finding

### Structural basis for the histone chaperone activity of Asf1.

English CM, Adkins MW, Carson JJ, Churchill ME, Tyler JK

*Cell* 2006 Nov 3 **127**(3):495-508

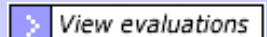
[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)

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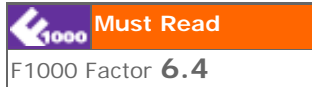
**Selected by** |

Stephen Jackson **NEW** / Karolin Luger



First evaluation 14 Nov 2006 | Latest evaluation 11 Jan 2007



6



**Must Read**  
F1000 Factor **6.4**

-  Hypothesis
-  New Finding

### Relating three-dimensional structures to protein networks provides evolutionary insights.

Kim PM, Lu LJ, Xia Y, Gerstein MB

*Science* 2006 Dec 22 **314**(5807):1938-41

[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)

[\[order article\]](#)

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**Selected by** | Walter Chazin **NEW** /

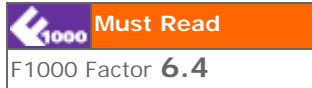
Carlos Ibanez **NEW**

First evaluation 8 Jan 2007 | Latest



evaluation 11 Jan 2007

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7



**Must Read**  
F1000 Factor **6.4**

- Confirmation
-  Hypothesis
-  New Finding

### Structural basis for ribosome recruitment and manipulation by a viral IRES RNA.

Pfingsten JS, Costantino DA, Kieft JS

*Science* 2006 Dec 1 **314**(5804):1450-4

[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)

[\[order article\]](#)

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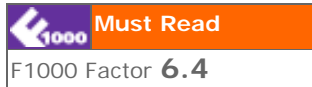
Robert Batey

First evaluation 1 Dec 2006 | Latest




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8



**Must Read**  
F1000 Factor **6.4**

-  Hypothesis
-  New Finding
-  Controversial

### Lipid-protein cargo transfer: A mode of direct cell-to-cell communication for lipids and their associated proteins.

Laffafian I, Hallett MB

*J Cell Physiol* 2007 Feb **210**(2):336-42

[\[abstract on PubMed\]](#) [\[related articles\]](#) [\[full text\]](#)

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**Selected by** | Vivian Tang /

Barbara Imperiali

First evaluation 7 Dec 2006 | Latest

evaluation 11 Dec 2006

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9



F1000 Factor **4.8**

- Confirmation
- Hypothesis
- New Finding

### Structure of dual function iron regulatory protein 1 complexed with ferritin IRE-RNA.

Walden WE, Selezneva AI, ..., Theil EC, Volz K  
*Science* 2006 Dec 22 **314**(5807):1903-8

[[abstract on PubMed](#)] [[related articles](#)] [[full text](#)]

[[order article](#)]



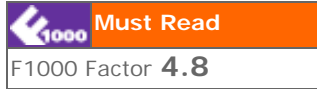
**Selected by** | Walter Chazin **NEW** /

Barry Stoddard **NEW**

Evaluated 11 Jan 2007

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10



F1000 Factor **4.8**

- Hypothesis
- New Finding

### Movement of 'gating charge' is coupled to ligand binding in a G-protein-coupled receptor.

Ben-Chaim Y, Chanda B, ..., Parnas I, Parnas H  
*Nature* 2006 Nov 2 **444**(7115):106-9

[[abstract on PubMed](#)] [[related articles](#)] [[full text](#)]

[[order article](#)]



**Selected by** | Hugues Abriel /

Marcos Milla

First evaluation 19 Dec 2006 | Latest  
evaluation 22 Dec 2006

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