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- 1** **Exceptional**
F1000 Factor **9.9**

Determining the architectures of macromolecular assemblies.
Alber F, Dokudovskaya S, ..., Rout MP, Sali A
Nature 2007 Nov 29 **450**(7170):683-94 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

New Finding
 Tech Advance

Selected by | Petra Fromme / Peter Schuck / Narayanaswamy Srinivasan **NEW**
First evaluation 18 Dec 2007 | Latest evaluation 20 Dec 2007
- 2** **Exceptional**
F1000 Factor **9.8**

The molecular architecture of the nuclear pore complex.
Alber F, Dokudovskaya S, ..., Sali A, Rout MP
Nature 2007 Nov 29 **450**(7170):695-701 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

Hypothesis
 New Finding
 Tech Advance

Selected by | Petra Fromme / Tom Misteli / Paul Clarke **NEW**
First evaluation 18 Dec 2007 | Latest evaluation 21 Dec 2007
- 3** **Exceptional**
F1000 Factor **9.6**

A 3-hydroxypropionate/4-hydroxybutyrate autotrophic carbon dioxide assimilation pathway in Archaea.
Berg IA, Kockelkorn D, Buckel W, Fuchs G
Science 2007 Dec 14 **318**(5857):1782-6 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

New Finding

Selected by | Bill Martin **NEW** / Anna-Louise Reysenbach **NEW**
First evaluation 19 Dec 2007 | Latest evaluation 20 Dec 2007
- 4** **Exceptional**
F1000 Factor **8.3**

Control of Plant Organ Size by KLUH/CYP78A5-Dependent Intercellular Signaling.
Anastasiou E, Kenz S, ..., Fleck C, Lenhard M
Dev Cell 2007 Dec **13**(6):843-56 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

Hypothesis
 New Finding

Selected by | Kay Schneitz / Christian Hardtke / Mark Running **NEW** / Jiri Friml **NEW**
First evaluation 13 Dec 2007 | Latest evaluation 20 Dec 2007
- 5** **Exceptional**
F1000 Factor **8.1**

Switching from Repression to Activation: MicroRNAs Can Up-Regulate Translation.
Vasudevan S, Tong Y, Steitz JA
Science 2007 Nov 29 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)]

New Finding

Selected by | Oliver Hobert / Rivka Dikstein **NEW** / Lynne Maquat **NEW**
First evaluation 12 Dec 2007 | Latest evaluation 21 Dec 2007
- 6** **Exceptional**
F1000 Factor **8.0**

Reconstitution of a microtubule plus-end tracking system in vitro.
Bieling P, Laan L, ..., Brunner D, Surrey T
Nature 2007 Dec 13 **450**(7172):1100-5 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

Confirmation
 Hypothesis
 New Finding
 Tech Advance

Selected by | Linda Wordeman / Stefan Westermann
Evaluated 18 Dec 2007
- 7** **Exceptional**
F1000 Factor **8.0**

A Nonapoptotic Cell Death Process, Entosis, that Occurs by Cell-in-Cell Invasion.
Overholtzer M, Mailleux AA, ..., Cibas ES, Brugge JS
Cell 2007 Nov 30 **131**(5):966-79 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

Confirmation
 New Finding

Selected by | Sharad Kumar / Andrew Lumsden
First evaluation 3 Dec 2007 | Latest evaluation 11 Dec 2007
- 8** **Must Read**
F1000 Factor **6.6**

Fibroblast-led collective invasion of carcinoma cells with differing roles for RhoGTPases in leading and following cells.
Gaggioli C, Hooper S, ..., Harrington K, Sahai E
Nat Cell Biol 2007 Dec **9**(12):1392-400 [[abstract on PubMed](#)] [[related articles](#)] [[full text](#)] [[order article](#)]

Hypothesis
 New Finding

Selected by | Martin A. Schwartz / Filippo Giancotti / Carol Otey **NEW**
First evaluation 17 Dec 2007 | Latest evaluation 19 Dec 2007
- 9** **Must Read**
F1000 Factor **6.5**

Integrating Patterning Signals: Wnt/GSK3 Regulates the Duration of the BMP/Smad1 Signal.
Fuentelba LC, Eivers E, ..., Pera EM, De Robertis EM