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A series of sliding clamps mediates initiation of mismatch repair  
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#### 499 MATERIALS SCIENCE

##### Polymers make charge flow easy

A strategy to fabricate unconventional optoelectronic devices  
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#### 500 EVOLUTION

##### Insect invasions and natural selection

Natural selection in action during a honeybee invasion  
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#### 502 MATERIALS SCIENCE

##### Flexible graphene strengthens friction

Simulations of graphene's frictional behaviour  
Astrid S de Wijn SEE LETTER P.541

#### 503 CELL BIOLOGY

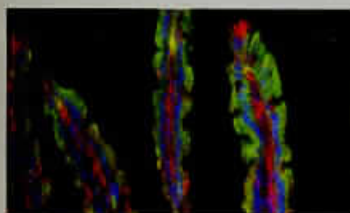
##### A mitochondrial brake on vascular repair

Fat1 protein inhibits the proliferation of smooth-muscle cells  
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#### 505 MATERIALS SCIENCE

##### Improving the image of nanoparticles

Hybrid nanoparticles that offer multiple modes for biological imaging  
Christopher S Wood & Molly M Stevens



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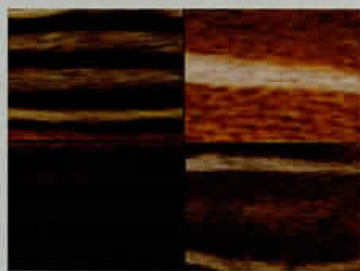
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Synthetic networks support formation of intestinal organoids. PAGE 565

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Transcription factor *Alx3* is a regulator of skin pattern in all rodents. PAGE 518



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##### A war over water when bacteria invade leaves

Bacteria promote plant hydration to facilitate their invasion of leaves  
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A Soumyanarayanan, N Reyren, A Fert & C Panagopoulos

### ARTICLES

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R Mallarino et al.

#### 524 PLANT SCIENCE Bacteria establish an aqueous living space in plants crucial for virulence

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#### 530 CELLULAR MICROBIOLOGY The mechanism of force transmission at bacterial focal adhesion complexes

L M Faure et al.

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#### 541 MATERIALS SCIENCE The evolving quality

#### of frictional contact with graphene

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#### 565 IMMUNOLOGY Different tissue phagocytes sample apoptotic cells to direct distinct homeostasis programs

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#### 570 IMMUNOLOGY Macrophages redirect phagocytosis by non-professional phagocytes and influence inflammation

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#### 575 CELL BIOLOGY Control of mitochondrial function and cell growth by the atypical cadherin Fat1

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#### 588 MOLECULAR BIOLOGY Genetic and mechanistic diversity of piRNA 3'-end formation

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