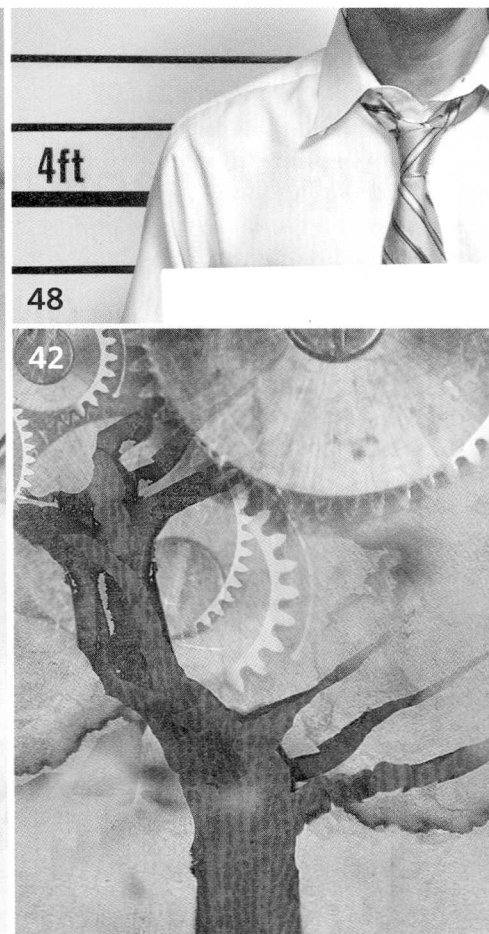


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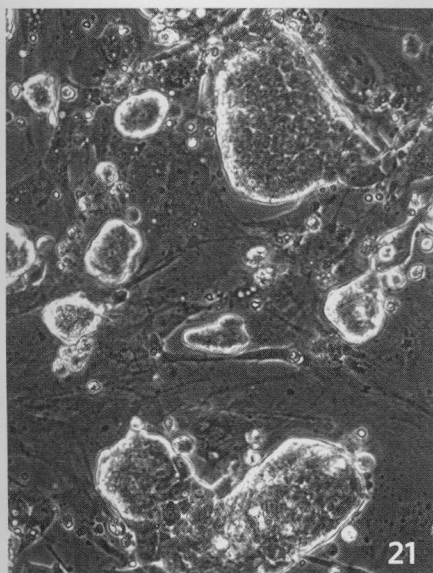
- 34** **Disappearing Before Dawn**
COVER STORY » Gene expression studies are lending support to a new, somewhat counterintuitive hypothesis for why every animal sleeps. **KELLY RAE CHI** visits the University of Wisconsin–Madison, where scientists are gathering evidence suggesting that we need sleep to prune back synapses, which tend to increase in strength throughout the day.

- 42** **The Gears of the Sleep Clock**
When people have trouble sleeping—such as, in extreme cases, shift workers—those problems are not always rooted in disturbances in circadian rhythm, argues the University of Pennsylvania's **ALLAN PACK**. Instead, his studies of sleep have shown that the master clock is only one player in the molecular control of sleep.

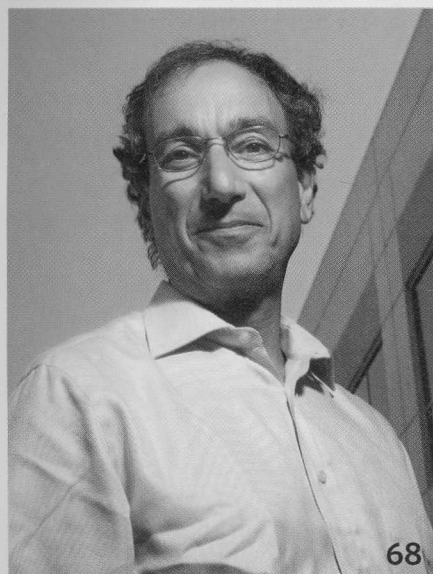
- 48** **Biotech's Baddies**
More than 60 individuals have been blackballed by the FDA for forging clinical trial data, passing off a prescription-only product as a botanical, and bilking investors out of millions—and that's just a few of the offenses. **BOB GRANT** introduces us to some of the worst offenders.

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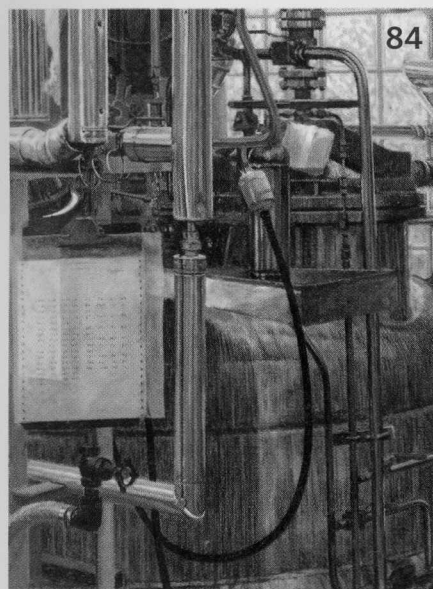
Photograph © Roger Wright



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