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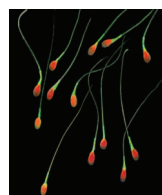
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ON THE COVER Laser scanning confocal micrograph of human sperm. Semen analysis is essential for evaluating male infertility. Besides sperm concentration, motility and morphology are important indicators of sperm quality. Nevertheless, rapid and complete assessment of these measures presents considerable difficulty and involves a range of complex issues. In this issue of *Clinical Chemistry*, researchers from the National Taiwan University Hospital describe a microfluidic device capable of quantifying a range of properties of human sperm via the resistive pulse technique. In principle, this device could serve as an alternative to quantify complete details related to sperm motion at low cost and with relative ease. Of course, the fabrication and use of microfluidic devices come with unique challenges, as eloquently discussed in an accompanying editorial. (See pages 457 and 493.) ©David Becker, Getty Images. Reproduced with permission.



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