1381 How cancers mimic blood vessels

NEWS

IN BRIEF
1372 News at a glance

IN DEPTH
1374 LIGO DETECTS ANOTHER BLACK HOLE CRASH
Second gravitational-wave detection augurs bumper crop of sightings
By A. Cho

1375 EXPERTS FEAR ZIKA'S EFFECTS MAY BE EVEN WORSE THAN THOUGHT
Doctors and researchers are scrambling to define “Zika congenital syndrome”
By G. Vogel

1376 BREXIT CASTS PALL ON FUSION
ITER backers nervously await vote that could undermine U.K. research ties with continental Europe
By D. Clery

1377 SEA ICE RETREAT SAID TO ACCELERATE GREENLAND MELTING
New claim intensifies “Arctic amplification” debate
By E. Kintisch

1378 EXPANDING OUR MENTAL MAPS
Grid cells that represent physical space in the human brain may also organize more conceptual forms of knowledge
By E. Underwood

1379 A PEAK AT PEER REVIEW HELPS YOUNG SCIENTISTS
Service on NIH study sections boosts success rates on grants but not diversity
By J. Mervis

1380 HOW TO ATTACK THE ISLAMIC STATE ONLINE
Study of social media sites suggests women are key recruiters for terrorist group
By J. Bohannon

FEATURES
1381 TUMORS' DO-IT-YOURSELF BLOOD VESSELS
The unusual supply lines built by cancer cells may explain why some treatments fail and offer new targets for drugs
By M. Leslie

INSIGHTS

PERSPECTIVES
1388 PERSISTENT POLLUTANTS, PERSISTENT THREATS
Polychlorinated biphenyls remain a major threat to marine apex predators such as orcas
By P. D. Jepson and R. J. Law

1390 SINGLE-CELL VARIABILITY GUIDED BY MICRONAS
Variability in miRNA activity, and therefore gene networks, may define cell state
By S. Garg and P. A. Sharp

1391 SEEING TRANSLATION
Monitoring individual messenger RNAs as they make protein reveals the tricks of translation
By S. Iwasaki and N. T. Ingolia

1394 DESIGNING A ROBUST SINGLE-MOLECULE SWITCH
A single-molecule switch works at room temperature
By C. D. Frisbie

1395 TUNING ORGANIC BAND STRUCTURES WITH COULOMB INTERACTIONS
The smooth change of band gaps in blends of organic semiconductors arises from long-range electronic interactions
By N. Ueno

1396 THE RESURGENCE OF NAD+
Restoring a mitochondrial metabolite slows stem cell loss and aging
By L. Guarante

1384 ANCIENT DNA DIVIDE
While Europe forges ahead on a transformative technique, U.S. researchers struggle for funding
By A. Gibbons

ON THE COVER
Artist's interpretation of RNA activity (the train represents a ribosome). RNA serves many biological purposes:
It carries genetic information, regulates gene expression, and functions as a structural component of cells' molecular building machinery. RNA is replete with signals that control its activity, and its pivotal role in the cell has made it an attractive candidate for development as a therapeutic agent. For more on these topics, see the special section beginning on page 1406.
Illustration: Charles Williams/madeup.org