Editorials
Truth in numbers p1
What it takes to make an impact p1

News
US ponders unlocking the gates to prisoner research p3
Emily Waltz

South Korean scandal rocks stem cell community p4
David Cyranoski

New rules propose greater scrutiny for NIH grant recipients p5
Alan Dove

Reshuffle at infectious disease center ruffles many feathers p5
Emma Marris

Scientists, activists sue South Africa's AIDS 'denialists' p6
James Watson

Low morale at US agency revives dormant scientist group p6
George S. Mack

News In Brief p7

News Feature: Hormone in the hot seat pp8 - 9
Apoorva Mandavilli

Profile: Janet Rowley p10
Kris Novak

Book Review
Microbes fight back p11doi:10.1038/nm0106-11
News and Views
Decoy receptor springs to life and eases fibrosis pp13 - 14
Thomas T MacDonald

Breaking the rules of cancer pp14 - 15
David R Shaffer & Pier Paolo Pandolfo
Vessel tone and remodeling pp16 - 17
Geoffrey Burnstock

A channel to neurodegeneration pp17 - 18
Ariel Y Deutch & Danny G Winder

Envoys of metastasis p18
Allison Alcivar
One enzyme inactivates two antibiotics pp19 - 20
Keith P Klugman & Bruce R Levin

Research Highlights p21

Special Feature: Introduction
Metabolic syndrome p26

Special Feature: News
Rimonabant adds appetizing choice to slim obesity market p27
Meredith Wadman

Inbred Israeli families aid research on rare diseases p28
Luba Vikhanski

Growing safety concerns stir caution on gastric bypass surgery p28
Meredith Wadman

People to watch p29

Special Feature: News and Views
RBP4, an unexpected adipokine pp30 - 31
Yoshikazu Tamori, Hiroshi Sakaue & Masato Kasuga

Are all fats created equal? pp32 - 33
Kevin G Murphy & Stephen R Bloom

The tangled path to glucose production pp33 - 34
Michihiro Matsumoto & Domenico Accili

Sirt1: a metabolic master switch that modulates lifespan pp34 - 36
Ingo B Leibiger & Per-Olof Berggren

MicroRNAs: 'ribo-regulators' of glucose homeostasis pp36 - 38
Benoit R Gauthier & Claes B Wollheim

Fossa2, a novel transcriptional regulator of insulin sensitivity pp38 - 39
Pere Puigserver & Joseph T Rodgers

ARNT misbehavin' in diabetic beta cells pp39 - 40
Michael P Czech

Stressed out about obesity and insulin resistance pp41 - 42
Carl de Luca & Jerrold M Olefsky

The humoral side of insulin resistance pp43 - 44
Mitchell A Lazar

Improving metabolism by increasing energy expenditure pp44 - 45
Johan Auwerx
Fast predators or fast food, the fit still survive pp46 - 47
Carlos Bernal-Mizrachi & Clay F Semenkovich

How diabetes went to our heads pp47 - 49
Randy J Seeley & Matthias Tschöp

Did a muscle fuel gauge conquer the brain? pp50 - 51
Alessandro Pocai, Evan David Muse & Luciano Rossetti

Developmental programming of the hypothalamus: a matter of fat pp52 - 53
Tamas L Horvath & Jens C Bruning

When the Clock stops ticking, metabolic syndrome explodes pp54 - 55
Bart Staels

Klotho-induced insulin resistance: a blessing in disguise? pp56 - 57
Roger H Unger

Special Feature: Tables
Notable metabolism papers 2003-2005 pp58 - 61

Special Feature: Commentary
Epidemiologic and economic consequences of the global epidemics of obesity and diabetes pp62 - 66
Derek Yach, David Stuckler & Kelly D Brownell

NIH research on obesity and type 2 diabetes: providing the scientific evidence base for actions to improve health pp67 - 69
Allen M Spiegel & Elizabeth G Nabel

Diabetes research investment in the European Union pp70 - 72
Philippe A Halban, Ele Ferrannini & Jørn Nerup

Combating diabetes and obesity in Japan pp73 - 74
Yoshio Yazaki & Takashi Kadowaki

Special Feature: Market Analysis
Diabetes and obesity: the twin epidemics pp75 - 80
Simon Smyth & Andrew Heron

Articles
Fluoroquinolone-modifying enzyme: a new adaptation of a common aminoglycoside acetyltransferase pp83 - 88
Ari Robicsek, Jacob Strahilevitz, George A Jacoby, Mark Macielag, Darren Abbanat, Chi Hye Park, Karen Bush & David C Hooper

Glycogen synthase kinase-3 is an in vivo regulator of hematopoietic stem cell repopulation pp89 - 98
Jennifer J Trowbridge, Anargyros Xenocostas, Randall T Moon & Mickie Bhatia
IL-13 signaling through the IL-13alpha2 receptor is involved in induction of TGF-beta1 production and fibrosis pp99 - 106
Stefan Fichtner-Feigl, Warren Strober, Koji Kawakami, Raj K Puri & Atsushi Kitani

TFE3 transcriptionally activates hepatic IRS-2, participates in insulin signaling and ameliorates diabetes pp107 - 113
Yoshimi Nakagawa, Hitoshi Shimano, Tomohiro Yoshikawa, Tomohiro Ide, Mariko Tamura, Mika Furusawa, Takashi Yamamoto, Noriyuki Inoue, Takashi Matsuzaka, Akimitsu Takahashi, Alyssa H Hasty, Hiroaki Suzuki, Hirohito Sone, Hideo Toyoshima, Naoya Yahagi & Nobuhiro Yamada

A role for the scaffolding adapter GAB2 in breast cancer pp114 - 121
Mohamed Bentires-Alj, Susana G Gil, Richard Chan, Zhigang C Wang, Yongping Wang, Naoko Imanaka, Lyndsay N Harris, Andrea Richardson, Benjamin G Neel & Haihua Gu

Letters
Hypoxia-inducible factor determines sensitivity to inhibitors of mTOR in kidney cancer pp122 - 127
George V Thomas, Chris Tran, Ingo K Mellinghoff, Derek S Welsbie, Emily Chan, Barbara Fueger, Johannes Czernin & Charles L Sawyers

A crucial role of mitochondrial Hsp40 in preventing dilated cardiomyopathy pp128 - 132
Masaaki Hayashi, Kyoko Imanaka-Yoshida, Toshimichi Yoshida, Malcolm Wood, Colleen Fearns, Revati J Tatake & Jiing-Dwan Lee

Impaired flow-dependent control of vascular tone and remodeling in P2X4-deficient mice pp133 - 137

Technical Reports
Lipid microarrays identify key mediators of autoimmune brain inflammation pp138 - 143
Jennifer L Kanter, Sirisha Narayana, Peggy P Ho, Ingrid Catz, Kenneth G Warren, Raymond A Sobel, Lawrence Steinman & William H Robinson

In vivo imaging of islet transplantation pp144 - 148
Natalia V Evgenov, Zdravka Medarova, Guangping Dai, Susan Bonner-Weir & Anna Moore