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Tens of thousands of books appear in this photograph of the interior of the sculpture Idiom, by Matej Krén. On page 176, Michel et al. describe an even larger collection: a 5.2-million-book corpus containing 4% of all books ever published. Statistical analysis of this corpus makes it possible to study cultural trends quantitatively.

Original sculpture (Municipal Library of Prague): Matej Krén/Photograph: Zdeněk Urbánek

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195 Solvent-Free Oxidation of Primary Carbon-Hydrogen Bonds in Toluene Using Au-Pd Alloy Nanoparticles
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Transgenic birds expressing a short hairpin RNA that blocks viral polymerase hinder influenza transmission.

226 Human Tears Contain a Chemosignal
S. Gelstein et al.
Merely sniffing women’s negative emotional tears reduces sexual arousal in men.
Proteome Half-Life Dynamics in Living Human Cells
E. Eden et al.
In times of stress, long-lived proteins increase their durability.
10.1126/science.1199784

Aberrant Overexpression of Satellite Repeats in Pancreatic and Other Epithelial Cancers
D. I. Ting et al.
Noncoding RNAs transcribed from DNA repeats in heterochromatin are expressed at surprisingly high levels in tumors.
10.1126/science.1200801

KOI-126: A Triply Eclipsing Hierarchical Triple with Two Low-Mass Stars
J. A. Carter et al.
The Kepler telescope detected a triple stellar system and reveals details of the structure of low-mass stars.
10.1126/science.1201274

2500 Years of European Climate Variability and Human Susceptibility
U. Büntgen et al.
Variability of central European temperature and precipitation shows correlations with some major historical changes.
10.1126/science.1197175

Hubble Confirms Nature of Mysterious Green Blob
‘Manny’s Voorwerp’ has been an enigma since its discovery in 2007.
http://sciencemag.org/ha3RAV

Rising Seas Look Inevitable
Effects of global warming will persist, even if we stop emitting greenhouse gases.
http://sciencemag.org/fw98J3

Measures to Save Ozone Stemmed a Lot More Global Warming
1980s spray-can clampdown prevented even larger temperature increase, modeling shows.
http://sciencemag.org/hlo11u

RESEARCH ARTICLE: Carrier Testing for Severe Childhood Recessive Diseases by Next-Generation Sequencing
C. J. Bell et al.
>> News story p. 130

PERSEPECTIVE: Molecular Technologies
Open New Clinical Genetic Vistas
L. Jackson and R. E. Pyeritz
PODCAST
L. Jackson and O. Smith
New genome-sequencing technologies may enable expansion of carrier and prenatal genetic testing.
www.sciencemag.org/multimedia/podcast
Free Weekly Show
Download the 14 January Science Podcast to hear about genetically modifying chickens to curb the spread of influenza, reducing testing anxiety through writing, the science of loneliness, and more.

RESEARCH ARTICLE: Activation State of the M3 Muscarinic Acetylcholine Receptor Modulates Mammalian Odorant Receptor Signaling
Y. R. Li and H. Matsunami

PERSEPECTIVE: Autonomic Modulation of Olfactory Signaling
R. A. Hall
Crosstalk between neurotransmitter signaling and odorant signaling may enhance the sense of smell.

MEETING REPORT: Cilia 2010—The Surprise Organelle of the Decade
E. F. Smith and R. Rohatgi
Scientists discussed advances in cilia biology and the role of cilia in development and disease.

TEACHING RESOURCE: Signaling by Neuronal Swelling
R. D. Fields
Physical changes associated with the electrical activity of neurons mediate intercellular signaling.

SCIENCECAREERS
Free Career Resources for Scientists
www.sciencecareers.org/career_magazine
A Veterinary Scientist’s Unique Career Path
S. Webb
D.V.M.-Ph.D. Laura Richman’s discovery of a novel elephant herpesvirus led to a career in human translational medicine.
http://sciencemag.org/fty4p5p

Discovering Unsung African-American Chemists
S. Weininger and L. Gortler
The two Knox brothers had distinguished careers in chemistry at a time when that was very difficult for African Americans.
http://sciencemag.org/ha7Vtc

THE GONZO SCIENTIST: The Science Hall of Fame
The frequency with which names appear in books has been used to create a pantheon of the most famous scientists of the past two centuries (with video).
>> News story p. 135; Research Article p. 176