American Journal of Public Health

Volume 100, Issue. 3(March 2010)

Letters

Limitations of opt-out hiv screening and mother–child hiv transmission
Reed A. C. Siemieniuk, Taj Jadavji, and Michael John Gill
Page: 388

Hughes et al. respond
Christine A. Hughes, Dalyce Zuk, Michelle Foisy, Joan Robinson, Ameeta E. Singh, and Stan Houston
Page: 389

Estimated autism risk, older reproductive age, and parameterization
Maureen S. Durkin, Matthew J. Maenner, and Craig J. Newschaffer
Page: 389

King et al. respond
Marissa D. King, Christine Fountain, Diana Dakhllallah, and Peter S. Bearman
Page: 390

Erratum
Page: 391

Erratum
Page: 393

Editor's choice

Gender, Sex, and Sexuality—Same, Different, or Equal?
Stewart Landers and Sofia Gruskin
Page: 397

On the other hand

Selling the Obama Plan: Mistakes, Misunderstandings, and Other Misdemeanors
Howard Waitzkin
Page: 398

Consequences of the Privatized Funding of Medical Care and of the Privatized Electoral Process
Vicente Navarro
Page: 399

Commentary
International Conference on Population and Development at 15 Years: Achieving Sexual and Reproductive Health and Rights for All?
Mindy Jane Roseman and Laura Reichenbach
Page: 403

Health policy and ethics

Privacy Versus Public Health: The Impact of Current Confidentiality Rules
Daniel Wartenberg and W. Douglas Thompson
Page: 407

Sexual Offender Laws and Prevention of Sexual Violence or Recidivism
Kelly K. Bonnar-Kidd
Page: 412

Voices from the past

City Life in Relation to Tuberculosis: A Plea for Better Surroundings for Factories and Better Homes for the Working Classes
Page: 420

Isaac Williams Brewer (1867–1928): An Unsung Hero
Elizabeth Fee and Liping Bu
Page: 423

Images of health

Communicating With Pictures: The Vision of Chinese Anti-Malaria Posters
Liping Bu and Elizabeth Fee
Page: 424

Framing health matters

Examining the Role of Gender in Career Advancement at the Centers for Disease Control and Prevention
Zhuo Chen, Kakoli Roy, and Carol A. Gotway Crawford
Page: 426

Rethinking Gender, Heterosexual Men, and Women's Vulnerability to HIV/AIDS
Jenny A. Higgins, Susie Hoffman, and Shari L. Dworkin
Page: 435

The California Stem Cell Initiative: Persuasion, Politics, and Public Science
Joel W. Adelson and Joanna K. Weinberg
Page: 446

Research and practice

The Impact of Institutional Discrimination on Psychiatric Disorders in Lesbian, Gay, and Bisexual Populations: A Prospective Study
Demonstrating the Importance and Feasibility of Including Sexual Orientation in Public Health Surveys: Health Disparities in the Pacific Northwest
Julia A. Dilley, Katrina Wynkoop Simmons, Michael J. Boysun, Barbara A. Pizacani, and Mike J. Stark
Page: 460

Dimensions of Sexual Orientation and the Prevalence of Mood and Anxiety Disorders in the United States
Wendy B. Bostwick, Carol J. Boyd, Tonda L. Hughes, and Sean Esteban McCabe
Page: 468

Gender Differences in Chronic Medical, Psychiatric, and Substance-Dependence Disorders Among Jail Inmates
Ingrid A. Binswanger, Joseph O. Merrill, Patrick M. Krueger, Mary C. White, Robert E. Booth, and Joann G. Elmore
Page: 476

Effect of Economic Assets on Sexual Risk-Taking Intentions Among Orphaned Adolescents in Uganda
Fred M. Ssewamala, Chang-Keun Han, Torsten B. Neilands, Leyla Ismayilova, and Elizabeth Sperber
Page: 483

Disparities in Health Insurance Coverage, Access, and Outcomes for Individuals in Same-Sex Versus Different-Sex Relationships, 2000–2007
Thomas Buchmueller and Christopher S. Carpenter
Page: 489

Perceived Determinants of Mental Health for Bisexual People: A Qualitative Examination
Lori E. Ross, Cheryl Dobinson, and Allison Eady
Page: 496

Sexual Partner Selection and HIV Risk Reduction Among Black and White Men Who Have Sex With Men
Lisa A. Eaton, Seth C. Kalichman, and Chauncey Cherry
Page: 503

Gender Differences in the Association Between Perceived Discrimination and Adolescent Smoking
Sarah E. Wiehe, Matthew C. Aalsma, Gilbert C. Liu, and J. Dennis Fortenberry
Page: 510

Like Father, Like Son: The Intergenerational Cycle of Adolescent Fatherhood
Heather Sipsma, Katie Brooks Biello, Heather Cole-Lewis, and Trace Kershaw
Page: 517
Glen or Glenda: Reported Gender of Sex Partners in Two Statewide HIV Databases
Elizabeth A. Torrone, James C. Thomas, Jay S. Kaufman, Audrey E. Pettifor, Peter A. Leone, and Lisa B. Hightow-Wiedman
Page: 525

A Multilevel Analysis of Individual, Household, and Neighborhood Correlates of Intimate Partner Violence Among Low-Income Pregnant Women in Jefferson County, Alabama
Qing Li, Russell S. Kirby, Robert T. Sigler, Sean-Shong Hwang, Mark E. LaGory, and Robert L. Goldenberg
Page: 531

Association Between Socioeconomic Status and the Development of Asthma: Analyses of Income Trajectories
Anita L. Kozyrskyj, Garth E. Kendall, Peter Jacoby, Peter D. Sly, and Stephen R. Zubrick
Page: 540

Individual, Social-Normative, and Policy Predictors of Smoking Cessation: A Multilevel Longitudinal Analysis
Lois Biener, William L. Hamilton, Michael Siegel, and Eileen M. Sullivan
Page: 547

Association Between Adolescent Viewership and Alcohol Advertising on Cable Television
Paul J. Chung, Craig F. Garfield, Marc N. Elliott, Joshua Ostroff, Craig Ross, David H. Jernigan, Katherine D. Vestal, and Mark A. Schuster
Page: 555

English Proficiency and Language Preference: Testing the Equivalence of Two Measures
Gilbert C. Gee, Katrina M. Walsemann, and David T. Takeuchi
Page: 563

Marketplace
Page: 570

Job opportunities
Page: 573
Contraception

Volume 81, Issue. 3(March 2010)

Editorial Board
Pages i-ii

Contents
Pages iii-iv

Editorial

Multipurpose prevention technologies for sexual and reproductive health: gaining momentum and promise
Bethany Young Holt, Maggie Kilbourne-Brook, Alan Stone, Polly Harrison, Wayne C. Shields
Pages 177-180

Commentary

Community-based health workers can safely and effectively administer injectable contraceptives: conclusions from a technical consultation
John Stanback, Jeff Spieler, Iqbal Shah, William R Finger and The Expanding Access to Injectable Contraceptives Technical Consultation Participants(see Acknowledgments)
Pages 181-184

Review Articles

Nonsteroidal anti-inflammatory drugs and hormonal contraceptives for pain relief from dysmenorrhea: a review
Hans-Peter Zahradnik, Aida Hanjalic-Beck, Klaus Groth
Pages 185-196

Sino-implant (II) — a levonorgestrel-releasing two-rod implant: systematic review of the randomized controlled trials
Markus J. Steiner, Laureen M. Lopez, David A. Grimes, Linan Cheng, Jim Shelton, James Trussell, Timothy M.M. Farley, Laneta Dorflinger
Pages 197-201

Original Research Articles

Epidemiological and clinical aspects of migraine in users of combined oral contraceptives
Rogério Bonassi Machado, Alice Pinheiro Pereira, Geórgia Perez Coelho, Larissa Neri, Larissa Martins, Daniele Luminoso
Pages 202-208

Effects of the contraceptive patch and the vaginal ring on bone metabolism and bone mineral density: a prospective, controlled, randomized study
Bleeding patterns and menstrual-related symptoms with the continuous use of a contraceptive combination of ethinylestradiol and drospirenone: a randomized study
Rogério Bonassi Machado, Nilson Roberto de Melo, Hugo Maia Jr.
Pages 215-222

Extended regimens of the contraceptive vaginal ring: evaluation of clinical aspects
Fernando Augusto Barreiros, Cristina Aparecida Falbo Guazzelli, Ricardo Barbosa, Francisco de Assis, Fábio Fernando de Araújo
Pages 223-225

A randomized prospective trial comparing the levonorgestrel-releasing intrauterine system with thermal balloon ablation for the treatment of heavy menstrual bleeding
Sérgio S. de Souza, Aroldo F. Camargos, Carolina P. de Rezende, Francisco A.N. Pereira, Cícero A.A. Araújo, Agnaldo L. Silva Filho
Pages 226-231

Results of a safety and feasibility study of the diaphragm used with ACIDFORM Gel or K-Y® Jelly
Claire E. von Mollendorf, Lut. Van Damme, Jocelyn A. Moyes, Vera Helen Rees, Marianne M. Callahan, Christine K. Mauck, Adrian J. Purey, Kathryn Tweedy, Doug Taylor
Pages 232-239

A comparison of transabdominal and transvaginal ultrasonography for determination of gestational age and clinical outcomes in women undergoing early medical abortion
Patricia A. Lohr, Matthew F. Reeves, Mitchell D. Creinin
Pages 240-244

Antimullerian hormone and obesity: insights in oral contraceptive users
Anne Z. Steiner, Frank Z. Stanczyk, Stan Patel, Alison Edelman
Pages 245-248

Perceived competence and contraceptive use during adolescence
Jennifer B. Hillman, Sonya Negriff, Lorah D. Dorn
Pages 249-253

Perceptions of the safety of oral contraceptives among a predominantly Latina population in Texas
Daniel Grossman, Leticia Fernández, Kristine Hopkins, Jon Amastae, Joseph E. Potter
Pages 254-260

In vitro Actinomyces israelii biofilm development on IUD copper surfaces
Mónica Carrillo, Benjamín Valdez, Lidia Vargas, Lydia Alvarez, Miguel Schorr, Roumen Zlatev, Margarita Stoytcheva
Pages 261-264

Letter to the Editor
Is there evidence for tripling the dose of 200 mg mifepristone for medical abortion?
Gilda Piaggio, Paul Van Look, Helena von Hertzen, Kristina Gemzell, Oskari Heikinheimo, Allan Templeton
Page: 265
Current science

Volume 98, Issue. 5(10 March 2010)

Editorial

Higher Education: Rocky Road to Reform
P. Balaram
Page: 595

Correspondence

What else the three science academies could have deliberated?
Adhikarla S. Rao
Page: 597

Why Darwin would hate mobile phones more than cancers?
Madhukar Shivajirao Dama and Rajender Singh
Page: 598

Climate change and its impact on the Himalayan glaciers
Hermann Achenbach; Response: Ravinder Kumar Chaujar
Page: 599

From ornamental to detrimental: plant invasion of Leucanthemum vulgare Lam. (Ox-eye Daisy) in Kashmir valley, India
Anzar A. Khuroo, Akhtar H. Malik, Zafar A. Reshi and G. H. Dar
Page: 600

Ensete superbum (Roxb.) Cheesman: a rare medicinal plant in urgent need of conservation
V. Saroj Kumar, R. Jaishanker, A. Annamalai and C. S. P. Iyer
Page: 602

Nectar robbery in bird pollinated mangroves!
B. Nagarajan, M. Krishnamoorthy, S. Padmini and A. Daniel
Page: 603

Effect of casuarina (Casuarina equisetifolia) plantation on the sand skink (Eutropis bibronii Gray 1839) population
J. Subramanean and M. Vikram Reddy
Page: 604

News

Awareness and capacity building programme on carbon capture and storage
Malti Goel
Page: 606

Ethnomedicines and traditional healers of biodiversity hotspots of northeast India
Commentary

Novel approaches for activity-based standardization of herbal drugs
Venil N. Sumantran
Page: 610

Explanation of genetic component of human height by recent genome-wide association studies
Vipin Gupta and M. P. Sachdeva
Page: 611

Scientific correspondence

Evaluation of speech processing schemes to improve perception of sensorineural hearing impaired
Mahesh T. Kolte and D. S. Chaudhari
Page: 613

DIVA-GIS approaches for diversity assessment of pod characteristics in black gram (Vigna mungo L. Hepper)
Babu Abraham, V. Kamala, N. Sivaraj, N. Sunil, S. R. Pandravada, M. Vanaja and K. S. Varaprasad
Page: 616

General articles

The latest (2008–09) eruption of Barren Island volcano, and some thoughts on its hazards, logistics and geotourism aspects
Hetu C. Sheth, Jyotiranjan S. Ray, Rajneesh Bhutani, Alok Kumar and Neeraj Awasthi
Page: 620

Gasifier stoves – science, technology and field outreach
Page: 627

Review article

Mechanisms of amyloid fibril formation by proteins
Santosh Kumar and Jayant B. Udgaonkar
Page: 639

Research articles

Forest cover change detection of Western Ghats of Maharashtra using satellite remote sensing based visual interpretation technique
Conservation implications of the channel changes in Sharda River on endangered swamp deer population and floodplain ecosystem in Kishanpur Wildlife Sanctuary, Uttar Pradesh, India
Neha Midha and Pradeep K. Mathur
Page: 665

Parental care strategies of grey-headed bulbul, Pycnonotus priocephalus in the Western Ghats, South India
P. Balakrishnan
Page: 673

Research communications

210Po radiation dose due to cigarette smoking
Wesley S. Godwin, Vincila R. Subha and Khan M. Feroz
Page: 681

Artificial seed production from encapsulated PLBs regenerated from leaf base of Vanda coerulea Griff. ex. Lindl. – an endangered orchid
Debojit Kumar Sarmah, M. Borthakur and P. K. Borua
Page: 686

Application of numerical modelling for morphological changes in a high-energy beach during the south-west monsoon
V. R. Shamji, T. S. Shahul Hameed, N. P. Kurian and K. V. Thomas
Page: 691

Geopathic stress: a study to understand its nature using Light Interference Technique
Page: 695

Polymetallic sulphide mineralization in Chiplakot crystallines, northeast Kumaun Himalaya
Rajesh Sharma, Dinesh S. Chauhan and D. Rameshwar Rao
Page: 698

Book reviews

India in the World of Physics: Then and Now, Asoke N. Mitra (ed.)
reviewed by M. G. K. Menon
Page: 703

Remembering Sir J. C. Bose by D. P. Sen Gupta, M. H. Engineer and V. A. Shepherd
reviewed by M. S. Swaminathan
Page: 705
Disaster Management: Global Challenges and Local Solutions, Rajib Shaw and R. R. Krishnamurthy (eds)
reviewed by Harsh Gupta
Page: 706

Plant Taxonomy by O. P. Sharma
reviewed by R. R. Rao
Page: 707

Personal news

Vitaly L. Ginzburg (1916–2009)
Richa Malhotra
Page: 708

S. S. Sriramachari (1925–2009)
Indira Nath
Page: 709

Historical notes

Swami Vivekananda’s use of science to communicate spirituality
Geethanjali Monto
Page: 711
Editorial

Losing a Friend
P. Balaram
Page: 731

Correspondence

Rodenticides – are they safe?
Ch. Sadananda, Salam Dilip, Raseshowri Devi and L. B. Singha
Page: 733

Bt brinjal: premature approval for cultivation
Atul H. Chokshi
Page: 734

The neglect of productivity indicators in measuring digital preparedness
Jeffrey James
Page: 734

More coordinated education and management of haemophilia patients required in India
Sujata M. Jali, Dyanesh Kamble, M. B. Hiremath and Earl
Page: 736

On phylogenetic classification of fungi sensu lato: are we closing doors for morphotaxonomists?
N. D. Sharma
Page: 737

Salmonella enterica serovar Virchow in raw milk of buffalo in Bareilly
B. R. Singh
Page: 739

Lion-tailed macaques: on the verge of extinction
Gunjan Guha
Page: 739

News

Golden Jubilee of the Antarctic Treaty
Richa Malhotra
Page: 741

Integrating the -omics
Sumit G. Gandhi, Sunit K. Singh and Bharat B. Chattoo
Page: 742
Consensus on prior informed consent and conservation of biodiversity based traditional knowledge systems
Ranjay K. Singh and R. C. Srivastava
Page: 744

Engineering education in the 21st century
Geethanjali Monto
Page: 746

Hyperspectral remote sensing
S. Farooq
Page: 748

Research news

‘Oklo phenomenon’ of natural nuclear reactors – recent insights into its evolution and extinction
A. V. Sankaran
Page: 749

Commentary

The Copenhagen Accord
N. H. Ravindranath
Page: 751

Salinity rise in Indian mangroves – a looming danger for coastal biodiversity
S. Sandilyan, K. Thiyagesan, R. Nagarajan and Jayshree Vencatesan
Page: 754

Opinion

Lessons from Haiti: the Indian earthquake scenario
C. P. Rajendran
Page: 757

Technical Note

Angle-resolved photoemission spectroscopic facility for surface electronic structure characterization
S. K. Mahatha and Krishnakumar S. R. Menon
Page: 759

Scientific Correspondence

Dietary management of finger millet (Eleusine coracana L. Gaerth) controls diabetes
Adikant Pradhan, S. K. Nag and S. K. Patil
Page: 763
Laser ablation of semiconductor thin films – dependence of deposition rate on bandgap
Dwarka N. Bose
Page: 765

Hypothesis

Does haemocoelom exclude embryonic stem cells and asexual reproduction in invertebrates?
P. Murugesan, T. Balasubramanian and T. J. Pandian
Page: 768

General Article

Impact of recent discoveries on petroleum and natural gas exploration: emphasis on India
J. Marvin Herndon
Page: 772

Research Account

Ion beam for synthesis and modification of nanostructures
D. K. Avasthi and J. C. Pivin
Page: 780

Research Article

N–H×××O and C–H×××O interaction mimicry in the 1 : 1 molecular complexes of 5,5-diethylbarbituric acid with urea and acetamide
Tejender S. Thakur, Yasser Azim, Tothadi Srinu and Gautam R. Desiraju
Page: 793

Integrated geophysical study to decipher potential groundwater and zeolite-bearing zones in Deccan Traps
Dewashish Kumar, V. Ananda Rao, E. Nagaiah, P. Krishnam Raju, D. Mallesh, Mohd. Ahmeduddin and Shakeel Ahmed
Page: 803

Influence of anthropogenic activities on the existing environmental conditions of Kandla Creek (Gulf of Kutch)
P. V. Shirodkar, U. K. Pradhan, Dearlyn Fernandes, Sonali R. Haldankar and G. S. Rao
Page: 815

Research Communications

New technologies for strengthening damaged reinforced concrete structures
Razvan Giusca and Vladimir Corobceanu
Page: 829
Inhibitory effects of vermicompost produced from agro-waste of medicinal and aromatic plants on egg hatching in Meloidogyne incognita (Kofoid and White)
Chitwood
R. Pandey and A. Kalra
Page: 833

Microsatellite markers linked to drought resistance in rice (Oryza sativa L.)
P. Kanagaraj, K. Silvas Jebakumar Prince, J. Annie Sheeba, K. R. Biji, Sheetal Babu Paul, A. Senthil and R. Chandra Babu
Page: 836

Genetic diversity and relationships among some wild and cultivated species of Chenopodium L. (Amaranthaceae) using RAPD and DAMD methods
T. S. Rana, Diganta Narzary and Deepak Ohri
Page: 840

Spatio-temporal analysis of the Indus urbanization
Kavita Gangal, M. N. Vahia and R. Adhikari
Page: 846

Book Reviews

Annual Review of Biomedical Engineering, 2009
Martin L. Yarmush, James S. Duncan and Martha L. Gray (eds)
reviewed by G. K. Ananthasuresh
Page: 853

Journey of a Steel Man
P. L. Agrawal
reviewed by V. S. Arunachalam
Page: 854

Microbiology: An Application-based Approach
Michael J. Pelczar Jr, E. C. S. Chan and Noel R. Krieg
reviewed by Anjana J. Desai
Page: 855

Personal News

Narinder Singh Kapany – a pioneer in fibre optics
Dwarka N. Bose
Page: 857
Fertility and Sterility

Volume 93, Issue. 4(1 March 2010)

Modern trends

Sperm DNA fragmentation: mechanisms of origin, impact on reproductive outcome, and analysis
Denny Sakkas, Juan G. Alvarez
Pages 1027-1036

Editor's corner

Unique ethical and legal implications of fertility preservation research in the pediatric population
Barbara J. Stegmann
Pages 1037-1039

Adhesions

The extent of adhesion induction through electrocoagulation and suturing in an experimental rat study
Christian W. Wallwiener, Bernhard Kraemer, Markus Wallwiener, Christoph Brochhausen, Keith B. Isaacson, Taufiek K. Rajab
Pages 1040-1044

Evaluation of a fibrin preparation containing tranexamic acid (Adhexil) in a rabbit uterine horn model of adhesions with and without bleeding and in a model with two surgical loci
David M. Wiseman, Roberto Meidler, Yacov Lyahovetsky, Eran Kurman, Sara Horn, Israel Nur
Pages 1045-1051

Endometriosis

Up-regulation of endocrine gland-derived vascular endothelial growth factor but not vascular endothelial growth factor in human ectopic endometriotic tissue
Kai-Fai Lee, Yin-Lau Lee, Rachel W.S. Chan, Ana W.Y. Cheong, Ernest H.Y. Ng, Pak-Chung Ho, William S.B. Yeung
Pages 1052-1060

Genetics

Translocation chromosome karyotypes of the Robertsonian translocation carriers' embryos
Huang Jin, Liu Ping, Qiao Jie, Lian Ying, Chen Yongjian
Pages 1061-1065

Infertility
Perceptions of women's infertility: what do physicians see?
Rosario Ceballo, Antonia Abbey, Deborah Schooler
Pages 1066-1073

Characterizing the reproductive hormone milieu in infertile women with diminished ovarian reserve
Lubna Pal, Katie Zhang, Gohar Zeitlian, Nanette Santoro
Pages 1074-1079

In vitro fertilization

Attitudes and intention to donate oocytes for research
Satvinder Purewal, Olga van den Akker
Pages 1080-1087

Risk factors for psychiatric disorders in infertile women and men undergoing in vitro fertilization treatment
Helena Volgsten, Agneta Skoog Svanberg, Lisa Ekselius, Örjan Lundkvist, Inger Sundström Poromaa
Pages 1088-1096

Male factor

Does severe teratozoospermia affect blastocyst formation, live birth rate, and other clinical outcome parameters in ICSI cycles?
Dan B. French, Edmund S. Sabanegh, James Goldfarb, Nina Desai
Pages 1097-1103

Semen quality in fertile men in relation to psychosocial stress
Audra L. Gollenberg, Fan Liu, Charlene Brazil, Erma Z. Drobnis, David Guzick, James W. Overstreet, James B. Redmon, Amy Sparks, Christina Wang, Shanna H. Swan
Pages 1104-1111

PCSK4-null sperm display enhanced protein tyrosine phosphorylation and ADAM2 proteolytic processing during in vitro capacitation
Charles Gyamera-Acheampong, Julian Vasilescu, Daniel Figeys, Majambu Mbikay
Pages 1112-1123

Is the use of donor sperm associated with a higher incidence of preeclampsia in women who achieve pregnancy after intrauterine insemination?
Dimitra Kyrou, Efstratios M. Kolibianakis, Paul Devroey, Human Musavi Fatemi
Pages 1124-1127

A low intake of antioxidant nutrients is associated with poor semen quality in patients attending fertility clinics
Jaime Mendiola, Alberto M. Torres-Cantero, Jesús Vioque, José M. Moreno-Grau, Jorge Ten, Manuela Roca, Stella Moreno-Grau, Rafael Bernabeu
Pages 1128-1133
Expression of human oocyte-specific linker histone protein and its incorporation into sperm chromatin during fertilization
Yuri Mizusawa, Naoaki Kuji, Yudai Tanaka, Mamoru Tanaka, Eiji Ikeda, Setsuko Komatsu, Shingo Kato, Yasunori Yoshimura
Pages 1134-1141

Testicular spermatozoa have statistically significantly lower DNA damage compared with ejaculated spermatozoa in patients with unsuccessful oral antioxidant treatment
Sergey I. Moskovtsev, Keith Jarvi, J. Brendan M. Mullen, Kenneth I. Cadesky, Thomas Hannam, Kirk C. Lo
Pages 1142-1146

The effect of repeated freezing and thawing on human sperm DNA fragmentation
Laura Kelly Thomson, Steven Denis Fleming, Katrina Barone, Julie-Anne Zieschang, Anne Melton Clark
Pages 1147-1156

Ovulation Induction

Health of children born after ovulation induction
Reija Klemetti, Tiina Sevón, Mika Gissler, Elina Hemminki
pages 1157-1168

An investigation of the visual disturbances experienced by patients on clomiphene citrate
Lyne Racette, Peter R. Casson, Paul Claman, David H. Zackon, Evanne J. Casson
pages 1169-1172

Polycystic ovary syndrome

Heart rate recovery improves after weight loss in overweight and obese women with polycystic ovary syndrome
Rebecca L. Thomson, Jonathan D. Buckley, Manny Noakes, Peter M. Clifton, Robert J. Norman, Grant D. Brinkworth
Pages 1173-1178

Gonadotropin-releasing hormone antagonist use in controlled ovarian stimulation and intrauterine insemination cycles in women with polycystic ovary syndrome
Devrim Ertunc, Ekrem C. Tok, Aysun Savas, Ilay Ozturk, Saffet Dilek
Pages 1179-1184

Prevalence of polycystic ovary syndrome in young women who had idiopathic central precocious puberty
Roberto Franceschi, Rossella Gaudino, Alma Marcolongo, Maria Chiara Gallo, Luigi Rossi, Franco Antoniazzi, Luciano Tatò
Pages 1185-1191

In polycystic ovary syndrome, adrenal steroids are regulated differently in the morning versus in response to nutrient intake
Dumindra Gurusinghe, Sharan Gill, Rogelio U. Almario, Jennifer Lee, William F. Horn, Nancy L. Keim, Kyoungmi Kim, Sidika E. Karakas

Pages 1192-1199

**Plasma interleukin-18 levels are increased in the polycystic ovary syndrome: relationship of carotid intima-media wall thickness and cardiovascular risk factors**
Cemil Kaya, Recai Pabuccu, Bülent Berker, Hakan Satroğlu
Pages 1200-1207

**Calcitropic hormones, insulin resistance, and the polycystic ovary syndrome**
Touraj Mahmoudi, Hamid Gourabi, Mahnaz Ashrafi, Reza Salman Yazdi, Zahra Ezabadi
Pages 1208-1214

**Triggering ovulation with gonadotropin-releasing hormone agonist in in vitro fertilization patients with polycystic ovaries does not cause ovarian hyperstimulation syndrome despite very high estradiol levels**
Maria A. Manzanares, Jose Lui Gómez-Palomares, Elisabetta Ricciarelli, Eleuterio R. Hernández
Pages 1215-1219

**Hepatic steatosis in young lean insulin resistant women with polycystic ovary syndrome**
Athina Markou, Ioannis I. Androulakis, Christos Mournouris, Ageliki Tsikkini, Christianna Samara, Stavros Sougioulitzis, George Piaditis, Gregory Kaltsas
Pages 1220-1226

**Asymmetric dimethylarginine levels and carotid intima-media thickness in obese patients with polycystic ovary syndrome and their relationship to metabolic parameters**
Baris Onder Pamuk, Ayse Nur Torun, Mustafa Kulaksizoglu, Derun Ertugrul, Ozgur Ciftci, Sevsen Kulaksizoglu, Erkan Yildirim, Nilgun Guvener Demirag
Pages 1227-1233

**Recurrent pregnancy loss**

**Diagnostic factors identified in 1020 women with two versus three or more recurrent pregnancy losses**
Carolyn R. Jaslow, Judi L. Carney, William H. Kutteh
Pages 1234-1243

**Association study of vascular endothelial growth factor polymorphisms with the risk of recurrent spontaneous abortion**
Hyun Haing Lee, Seung Ho Hong, Seung Ju Shin, Jung Jae Ko, Doyeun Oh, Nam Keun Kim
Pages 1244-1247

**Reproductive endocrinology**

**Prediction of developing metabolic syndrome after gestational diabetes mellitus**
Baris Akinci, Aygul Celtik, Serkan Yener, Sena Yesil
Pages 1248-1254
Modulation of HOXA10 and other markers of endometrial receptivity by age and human chorionic gonadotropin in an endometrial explant model
Robin H. Fogle, Aimin Li, Richard J. Paulson
Pages 1255-1259

Markedly elevated plasma myeloperoxidase protein in patients with pelvic inflammatory disease who have A allele myeloperoxidase gene polymorphism
Shun-An Lee, Po-Hui Wang, Hui-Ling Chiou, Ming-Chin Chou, Hsiu-Ting Tsai, Shun-Fa Yang
Pages 1260-1266

Incidence of thrombophilia and venous thrombosis in transsexuals under cross-sex hormone therapy
Johannes Ott, Ulrike Kaufmann, Eva-Katrin Bentz, Johannes C. Huber, Clemens B. Tempfer
Pages 1267-1272

Bone morphogenetic protein 7 (BMP-7) increases the expression of follicle-stimulating hormone (FSH) receptor in human granulosa cells
Jia Shi, Osamu Yoshino, Yutaka Osuga, Osamu Nishii, Tetsu Yano, Yuji Taketani
Pages 1273-1279

Reproductive surgery

Creation of a neovagina in Rokitansky patients with a pelvic kidney: comparison of long-term results of the modified Vecchietti and McIndoe techniques
Luigi Fedele, Giada Frontino, Francesca Motta, Elisa Restelli, Massimo Candiani
Pages 1280-1285

Conservative surgical management of stage IA endometrial carcinoma for fertility preservation
Ivan Mazzon, Giacomo Corrado, Valeria Masciullo, Daniela Morricone, Gabriella Ferrandina, Giovanni Scambia
Pages 1286-1289

Uterine fibroids

The antifibrotic drug halofuginone inhibits proliferation and collagen production by human leiomyoma and myometrial smooth muscle cells
Meagan M. Grudzien, Philip Steven Low, Peter C. Manning, Melissa Arredondo, Robert J. Belton, Romana A. Nowak
Pages 1290-1298

Reproductive biology

Protective effects of telmisartan on ischemia/reperfusion injury of rat ovary: biochemical and histopathologic evaluation
Yakup Kumtepe, Fehmi Odabasoglu, Mehmet Karaca, Beyzagul Polat, Mesut Bünyamin Halıcı, Osman Nuri Keles, Zuhal Altunkaynak, Fatma Gocer
Pages 1299-1307
Progestogen treatments for cycle management in a sheep model of assisted conception affect the growth patterns, the expression of luteinizing hormone receptors, and the progesterone secretion of induced corpora lutea
Claudia Letelier, Rosa Ana García-Fernández, Ignacio Contreras-Solis, María Angeles Sanchez, Pilar García-Palencia, Belen Sanchez, Antonio Gonzalez-Bulnes, Juana María Flores
Pages 1308-1315

Effect of pentoxifylline on vascular endothelial growth factor C and flk-1 expression on endometrial implants in the rat endometriosis model
Nikos F. Vlahos, Odysseas Gregoriou, Aikaterini Deliveliotou, Despoina Perrea, Athanasios Vlachos, Yulian Zhao, Joseph Lai, George Creatsas
Pages 1316-1323

Images in reproductive medicine

Placental polyp with prominent neovascularization
Akihiro Takeda, Kazuyuki Koyama, Sanae Imoto, Masahiko Mori, Kotaro Sakai, Hiromi Nakamura
Pages 1324-1326

Techniques and instrumentation

The effects of carbon dioxide pneumoperitoneum on ovarian blood flow, oxidative stress markers, and morphology during laparoscopy: a rabbit model
Suleyman Guven, Efnan Muci, Mesut A. Unsal, Esin Yulug, Ahmet Alver, Mine Kadioglu Duman, Ahmet Mentese
Pages 1327-1332

Prospective cohort study of three- versus two-dimensional ultrasound for prediction of oocyte maturity
Doron Shmorgun, Edward Hughes, Patrick Mohide, Robin Roberts
Pages 1333-1337

Essure hysteroscopic tubal occlusion device for the treatment of hydrosalpinx prior to in vitro fertilization-embryo transfer in patients with a contraindication for laparoscopy
Velja Mijatovic, Sebastiaan Veersema, Mark Hans Emanuel, Roel Schats, Peter G.A. Hompes
Pages 1338-1342

Mock embryo transfer does not affect uterine contractility
Antoine Torre, Juliano Brum Scheffer, Luca Maria Schönauer, Nelly Frydman, Renato Fanchin
Pages 1343-1346

Case report summaries
Can intracytoplasmic morphologically selected sperm injection be used to select normal-sized sperm heads in infertile patients with macrocephalic sperm head syndrome?
Mohamed Hassen Chelli, Martine Albert, Pierre F. Ray, Bruno Guthauser, Vincent Izard, Ibrahim Hammoud, Jacqueline Selva, François Vialard
Pages 1347.e1-1347.e5

Intracytoplasmic sperm injection and pregnancy with decapitated sperm, 23 February 2009
Laura Gambera, Patrizia Falcone, Luca Mencaglia, Giulia Collodel, Francesca Serafini, Vincenzo De Leo, Paola Piomboni
Pages 1347.e7-1347.e12

Uterus-like mass in the left broad ligament misdiagnosed as a malformation of the uterus: A case report of a rare condition and review of the literature
Yuan-Jiao Liang, Qun Hao, Yuan-Zhe Wu, Bo Wu
Pages 1347.e13-1347.e16

Papillary serous carcinoma arising in abdominal wall endometriosis treated with neoadjuvant chemotherapy and surgery
Ramesh Omranipour, Massoome Najafi
Pages 1347.e17-1347.e18

Combined use of uterine artery embolization and local methotrexate injection in interstitial ectopic pregnancies with poor prognosis
Gemma Tamarit, Elena Lonjedo, Miguel González, Sílvia Tamarit, Santiago Domingo, Antonio Pellicer
Pages 1348.e1-1348.e4

Correspondence

Bridge-1 is expressed in human granulosa cells and is involved in the activin A signaling cascade
Constanze Banz, Birte Münchow, Klaus Diedrich
Pages 1349-1352

Outcomes of day-1, day-3, and blastocyst cryopreserved embryo transfers
Vasiliki A. Moragianni, Jerry D. Cohen, Scott E. Smith, Jay S. Schinfeld, Stephen G. Somkuti, Annette Lee, Larry I. Barmat
Pages 1353-1355

Longitudinal assessment of antimüllerian hormone during pregnancy—relationship with maternal adiposity, insulin, and adiponectin
Scott M. Nelson, Frances Stewart, Richard Fleming, Dilys J. Freeman
Pages 1356-1358

Reconstructive, organ-preserving microsurgery in tubal infertility: still an alternative to in vitro fertilization
Cordula Schippert, Christina Bassler, Philipp Soergel, Ursula Hille, Bettina Hollwitz, Guillermo-Jose Garcia-Rocha
Pages 1359-1361
Different phenotypes of polycystic ovary syndrome by Rotterdam criteria are differently steroidogenic but similarly insulin resistant
Yong Wang, JunWei Qu, XiaoKe Wu, LiHui Hou, Risto Erkkola, Yongyan Wang
Pages 1362-1365

Letters to the editor

The obstructed hemivagina, ipsilateral renal anomaly, uterus didelphys triad
Rebecca M.N. Kimble, Roy M. Kimble
Page e15

Reply of the Authors: The obstructed hemivagina, ipsilateral renal anomaly, uterus didelphys triad
Baxi Asha, Kaushal Manila
Page e16

Progesterone pharmacokinetic study
Larry S. Abrams, Brian M. Berger
Page e17
Fertility and Sterility

Volume 93, Issue. 5(15 March 2010)

Reproductive biology

Intrabursal injection of vascular endothelial growth factor trap in eCG-treated prepubertal rats inhibits proliferation and increases apoptosis of follicular cells involving the PI3K/AKT signaling pathway
Dalhia Abramovich, Griselda Irusta, Fernanda Parborell, Marta Tesone
Pages 1369-1377

The CB2 cannabinoid receptor regulates human sperm cell motility
Ekaitz Agirregoitia, Arkaitz Carracedo, Nerea Subirán, Asier Valdivia, Naiara Agirregoitia, Laura Peralta, Guillermo Velasco, Jon Irazusta
Pages 1378-1387

Preventive role of exogenous testosterone on cisplatin-induced gonadal toxicity: an experimental placebo-controlled prospective trial
Alireza Aminsharifi, Saeed Shakeri, Ali Ariafar, Behnam Moeinjahromi, Prikala V. Kumar, Saeed Karbalaeedooost
Pages 1388-1393

Brain-derived neurotrophic factor is a regulator of human oocyte maturation and early embryo development
Richard A. Anderson, Rosemary A.L. Bayne, John Gardner, Paul A. De Sousa
Pages 1394-1406

Testis atrophy and reduced sperm motility in transgenic mice overexpressing c-FLIPL
Fabrizio Antonangeli, Simonetta Petrungaro, Pierpaolo Coluccia, Antonio Filippini, Elio Ziparo, Claudia Giampietri
Pages 1407-1414

Changing P2X receptor localization on maturing sperm in the epididymides of mice, hamsters, rats, and humans: a preliminary study
Frederick C.L. Banks, Robert C. Calvert, Geoffrey Burnstock
Pages 1415-1420

Expression of the insulin-like growth factor and insulin systems in the luteinizing macaque ovarian follicle
Rebecca S. Brogan, Scott Mix, Muraly Puttabyatappa, Catherine A. VandeVoort, Charles L. Chaffin
Pages 1421-1429

The oocyte spindle is preserved by 1,2-propanediol during slow freezing
Ching-Chien Chang, Li-Ying Sung, Chih-Jen Lin, Hilton I. Kort, Xiangzhong Yang, X. Cindy Tian, Zsolt Peter Nagy
Pages 1430-1439

15-Epi-lipoxin A4 inhibits the progression of endometriosis in a murine model
Qiong-Hua Chen, Wei-Dong Zhou, De-Min Pu, Qian-Sheng Huang, Tian Li, Qing-Xi Chen
Pages 1440-1447

Change of proinflammatory cytokines follows certain patterns after induction of endometriosis in a mouse model
Qiong-Hua Chen, Wei-Dong Zhou, Zhi-Ying Su, Qian-Sheng Huang, Jin-Na Jiang, Qing-Xi Chen
Pages 1448-1454

Attenuation of ischemia–reperfusion injury with Marrubium cordatum treatment in ovarian torsion–detorsion model in rabbits
Yilmaz Cigremis, Asim Kart, Musa Karaman, Dincer Erdag
Pages 1455-1463

A differential cytokine expression profile is induced by highly purified human menopausal gonadotropin and recombinant follicle-stimulating hormone in a pre- and postovulatory mouse follicle culture model
Rebecca Foster, Ingrid Segers, David Smart, Tom Adriaenssens, Johan Smitz, Joan-Carles Arce, Marc Princivalle
Pages 1464-1476

Analysis of spindle characteristics and embryo quality in mice stimulated with letrozole using Polscope imaging
Ashalatha Ganesh, Ratna Chattopadhyay, K. Narendra Babu, Baidyanath Chakravarty, Koel Chaudhury
Pages 1477-1481

Acrosome formation-associated factor is involved in fertilization
Xiao-Qian Hu, Shao-Yang Ji, Yin-Chuan Li, Cui-Hong Fan, Huan Cai, Jun-Ling Yang, Chun-Ping Zhang, Min Chen, Zhi-Fang Pan, Zhao-Yuan Hu, Fei Gao, Yi-Xun Liu
Pages 1482-1492

Changes in circulating levels and ratios of angiopoietins during pregnancy but not during the menstrual cycle and controlled ovarian stimulation
Amanda K. Hurliman, Leon Speroff, Richard L. Stouffer, Phillip E. Patton, Annette Lee, Theodore A. Molskness
Pages 1493-1499

Myometrial cells undergo fibrotic transformation under the influence of transforming growth factor β-3
Doina S. Joseph, Minnie Malik, Sahadat Nurudeen, William H. Catherino
Pages 1500-1508

The effect of hyperstimulation on transforming growth factor β1 and β2 in the rat uterus: possible consequences for embryo implantation
Aleksandra Jovanović, Beverley Kramer
Pages 1509-1517

Mouse blastocyst previtrification interventions and DNA integrity
Amr Kader, Rakesh K. Sharma, Tommaso Falcone, Ashok Agarwal
The acrosomal protein Dickkopf-like 1 (DKKL1) is not essential for fertility
Kotaro J. Kaneko, Matthew J. Kohn, Chengyu Liu, Melvin L. DePamphilis
Pages 1526-1532

The acrosomal protein Dickkopf-like 1 (DKKL1) facilitates sperm penetration of the zona pellucida
Matthew J. Kohn, Jorge Sztein, Rieko Yagi, Melvin L. DePamphilis, Kotaro J. Kaneko
Pages 1533-1537

Expression and regulation of cholesterol sulfotransferase (SULT2B1b) in human endometrium
Minako Koizumi, Mikio Momoeda, Hisahiko Hiroi, Yumi Hosokawa, Ryo Tsutsumi, Yutaka Osuga, Tetsu Yano, Yuji Taketani
Pages 1538-1544

Effect of melatonin on epididymal sperm quality after testicular ischemia/reperfusion in rats
Zehra Kurcer, Askin Hekimoglu, Faruk Aral, Fusun Baba, Engin Sahna
Pages 1545-1549

Changes in the distribution of mitochondria before and after in vitro maturation of human oocytes and the effect of in vitro maturation on mitochondria distribution
Shan Liu, Yuan Li, Xuan Gao, Jun-Hao Yan, Zi-Jiang Chen
Pages 1550-1555

Immunization with a DNA vaccine of testis-specific sodium-hydrogen exchanger by oral feeding or nasal instillation reduces fertility in female mice
Tao Liu, Jun-Cheng Huang, Cui-Ling Lu, Jun-Ling Yang, Zhao-Yuan Hu, Fei Gao, Yi-Xun Liu
Pages 1556-1566

Damaging effect of cumulus denudation on rabbit oocytes
Jin-Hua Lu, Jun-Zuo Wang, Hui-Li Wang, Hong-Shu Sui, Yong Liu, Jing-Jing Li, Bo Liang, Jing-He Tan
Pages 1567-1573

Glucose-regulated protein 78 (Grp78/BiP) is secreted by human oviduct epithelial cells and the recombinant protein modulates sperm–zona pellucida binding
Clara I. Marín-Briggiler, María F. González-Echeverría, Maríj J. Munuce, Sergio Ghersevich, Adriana M. Caille, Ulf Hellman, Valerie M. Corrigall, Mónica H. Vazquez-Levin
Pages 1574-1584

Imprinting: RNA expression for homocysteine recycling in the human oocyte
Moncef Benkhelifa, Debbie Montjean, Paul Cohen-Bacrie, Yves Ménézo
Pages 1585-1590
Effects of in vitro maturation and age on oocyte quality in the rhesus macaque Macaca mulatta
Stephanie M. Nichols, Lynette Gierbolini, Janis A. Gonzalez-Martinez, Barry D. Bavister
Pages 1591-1600

Expression of angiotensin II type 1 (AT1) and angiotensin II type 2 (AT2) receptors in human granulosa-lutein (GL) cells: correlation with infertility diagnoses
Óscar Peña, Angela Palumbo, Rebeca González-Fernández, Jairo Hernández, Frederick Naftolin, Julio Ávila
Pages 1601-1608

Prevention of paclitaxel and cisplatin induced ovarian damage in rats by a gonadotropin-releasing hormone agonist
Bulent Ozcelik, Cagdas Turkyilmaz, Mahmut Tuncay Ozgun, Ibrahim Serdar Serin, Cem Batukan, Saim Ozdamar, Ahmet Ozturk
Pages 1609-1614

Aberrant gene expression profile in a mouse model of endometriosis mirrors that observed in women
Katherine E. Pelch, Amy L. Schroder, Paul A. Kimball, Kathy L. Sharpe-Timms, J. Wade Davis, Susan C. Nagel
Pages 1615-1627.e18

Changes in histone methylation during human oocyte maturation and IVF- or ICSI-derived embryo development
Jie Qiao, Yuan Chen, Li-Ying Yan, Jie Yan, Ping Liu, Qing-Yuan Sun
Pages 1628-1636

Increased cell proliferation in experimentally induced endometriosis in rabbits
Julio Cesar Rosa-e-Silva, Sergio Britto Garcia, Ana Carolina Japur de Sá Rosa-e-Silva, Francisco José Candido-dos-Reis, Omero Benedicto Poli-Neto, Rui Alberto Ferriani, Antonio Alberto Nogueira
Pages 1637-1642

Effects of metoclopramide-induced hyperprolactinemia on the prolactin receptor of murine endometrium
Alexandre Guilherme Zabeu Rossi, Regina Célia Teixeira Gomes, Manuel de Jesus Simões, Ricardo dos Santos Simões, Patrícia B. Oliveira, José Maria Soares, Edmund C. Baracat
Pages 1643-1649

Effect of gonadotropins on oocyte maturation in vitro: an animal model
Wei Sha, Bao-Zeng Xu, Mo Li, Di Liu, Huai L. Feng, Qing-Yuan Sun
Pages 1650-1661

Effects of follicular phase and oocyte–cumulus complexes quality on the protein profile and in vitro oocyte meiosis competence in Cebus apella
Sheyla F.S. Domingues, Maria C. Caldas-Bussiere, Marilvia D. Petretski, Otávio M. Ohashi, Julianne S. Lima, Regiane R. Santos, Marcela S. Cordeiro, Paulo H. Gomes de Castro
Pages 1662-1667
The mechanism responsible for the supraphysiologic gonadotropin surge in females treated with gonadotropin-releasing hormone (GnRH) agonist and primed with GnRH antagonist
Pages 1668-1675

Both host and graft vessels contribute to revascularization of xenografted human ovarian tissue in a murine model
Anne-Sophie Van Eyck, Caroline Bouzin, Olivier Feron, Lydia Romeu, Anne Van Langendonckt, Jacques Donnez, Marie-Madeleine Dolmans
Pages 1676-1685

Coadministration of dextromethorphan during pregnancy and throughout lactation prevents morphine-induced hyperprolactinemia in female rats
Ling-Yi Wu, Eagle Yi-Kung Huang, Pao-Luh Tao
Pages 1686-1694

Effects of fetal exposure to carbon nanoparticles on reproductive function in male offspring
Seiichi Yoshida, Kyoko Hiyoshi, Shigeru Oshio, Hirohisa Takano, Ken Takeda, Takamichi Ichinose
Pages 1695-1699

Adoptive transfer of mFas ligand into dendritic cells influences the spontaneous resorption rate in the CBA/J × DBA/2 mouse model
Aimin Zhao, Miao Xiong, Yu Zhang, Shimin Bao, Jian Zhang, Lihua Qiu, Qide Lin
Pages 1700-1705

Correspondence

Evaluating the antifertility potential of an aqueous extract from Cassia fistula seeds in male rats
Alka Chauhan, Meera Agarwal
Pages 1706-1710

Superior ovarian nerve (SON) transection leads to stunted follicular maturation: a histomorphologic and morphometric analysis in the rat model
Melike Doganay, Adnan Simsek, Omer L. Tapisiz, Baris S. Mulazimoglu, Nihat Yumusak, Tayfun Gungor
Pages 1711-1714

Involvement of connexin 43 in the acupuncture effect of improving rat blastocyst implantation
Guang Ying Huang, Cui Hong Zheng, Yun Xia Wu, Wei Wang
Pages 1715-1717

Increased fetal cell trafficking in murine lung following complete pregnancy loss from exposure to lipopolysaccharide
Exposure to industrially polluted water resulted in regressed endometriotic lesions and enhanced adhesion formation in a rat endometriosis model: a preliminary study
Narter Yesildaglar, Gazi Yildirim, Rukset Attar, Ates Karateke, Cem Ficicioglu, Bayram Yilmaz
Pages 1722-1724
Health Care Management Science

Volume 13, Issue. 1(March 2010)

Contents

How different are hospitals’ responses to a financial reform? The impact on efficiency of activity-based financing
Erik Biørn, Terje P. Hagen, Tor Iversen and Jon Magnussen
Page: 1-16

Reducing access times for an endoscopy department by an iterative combination of computer simulation and Linear Programming
P. E. Joustra, J. de Wit, V. M. D. Struben, B. J. H. Overbeek, P. Fockens and S. G. Elkhuisen
Page: 17-26

Environmental factors and productivity on Dutch hospitals: a semi-parametric approach
Jos L. T. Blank and Vivian G. Valdmanis
Page: 27-34

Automating the self-scheduling process of nurses in Swedish healthcare: a pilot study
Elina Rönnberg and Torbjörn Larsson
Page: 35-53

Pricing strategies for combination pediatric vaccines and their impact on revenue: Pediarix® or Pentacel®?
Matthew J. Robbins, Sheldon H. Jacobson and Edward C. Sewell
Page: 54-64

Adjusting case mix payment amounts for inaccurately reported comorbidity data
Jason M. Sutherland, Jeremy Hamm and Jeff Hatcher
Page: 65-73

Reporting trends in a regional medication error data-sharing system
James G. Anderson, Rangaraj Ramanujam, Devon J. Hensel and Carl A. Sirio
Page: 74-83

The impact of CON regulation on hospital efficiency
Gary D. Ferrier, Hervé Leleu and Vivian G. Valdmanis
Page: 84
Indian Practitioner

Volume 63, Issue. 3(March 2010)

Editorial

Diet and Depression: Direct Connection
Srinivasan S
Page: 139

Original Articles

Delivery after one caesarean section in a tertiary hospital: a one year retrospective study
Dhar T, Abraham M
Page: 141

Morbidity patterns amongst rural pregnant women of Shindolli, Karnataka-A longitudinal study
Metgud, C S, Katti, S M Mallapur M D
Page: 146

Isolation of Shigella species from cases of Dysentery and their antimicrobial susceptibility pattern in a tertiary care hospital
De A Mathur M, Lanjewar M
Page: 150

Accuracy of clinical examination of the Knee joint evaluated by Arthroscopy-Prospective study
Ahmad S, Iraqi A A, M.quamar Azam M, Khan A
154

Every day therapy of polycystic Ovarian syndrome
Chhabra S, Raman S
Page: 159

Pictorial CME

Leimyosarcoma of the small gut
Vibhuti, Kalia V
Page: 166

Reviews

Renal injuries-Diagnosis and current management
Lt.Col.Jaiswal S S, Brig, Chaudhary R
Page: 167

Case Reports
Cisplatin induced acute renal failure with symptomatic Hypomagnesaemia and Hypokalaemia in a case of Endometrial Carcinoma
Chavan S, Shrivastava M S, Palkar A V, Redkar N, Vaidya M, Moulick N D
Page: 172

Pseudo joint due to Charcot Arthropathy-An extremely rare complication of Spinal Anaesthesia
Srivastava S, Goyal S, Singh S, Goyal R
Page: 175

Tall tented ‘T’waves in a case of Lindane poisoning
Maheshwari m, Baroopal A
Page: 179

Ecthyma Gangrenosum over scalp-Atypical presentation
Page: 181

Wellness

Spiritual wellness
Page: 183

Clinician’s Kaleidoscope
Page: 187
Gandhi as a Human Ecologist
John S. Moolakkattu
151-158

Bio-motor Performance of the Meitei Boys of Manipur
L. Dibamani Singh
159-164

Diet and Nutritional Status of Women in India
K. Mallikharjuna Rao, N. Balakrishna, N. Arlappa, A. Laxmaiah and G.N.V. Brahman
165-170

Rural Transportation and the Distribution of Public Facilities in Nigeria: A Case of Edu Local Government Area of Kwara State
A.J. Aderamo and S.A. Magaji
171-179

Determinants of Agricultural Exports
E.O. Abolagba, N.C Onyekwere, B.N. Agbonkpolor and H.Y Umar
181-184

Association of Obesity Indices with Type 2 Diabetes Mellitus and Coronary Artery Disease
Harsimran Kaur, Sharda Sidhu and Vasudha Sambyal
185-190

Contribution of NTFPs in the Livelihood of Mangrove Forest Dwellers of Sundarban
Anshu Singh, Prodyut Bhattacharya, Pradeep Vyas and Sarvashish Roy
191-200

Tertiary Institutions’ Student Fitness Aspirants and Recreation Enthusiasts’ Perceived Influence of Sleep Deprivation on Their Lifestyles
A. O. Okunbor, E.O. Agwubike and N. O. Emelike
201-207

Factors Determining the Closed Birth Interval in Rural Manipur
Laishram Hemochandra, Naorem Sharat Singh and Ak. Ashakumar Singh
209-213

Index
215-216
Journal of Nutrition

Volume 140, Issue. 3(March 2010)

Critical Reviews

Maternal Micronutrient Deficiency, Fetal Development, and the Risk of Chronic Disease
Parul Christian and Christine P. Stewart
Page: 437

Laboratory, Epidemiological, and Human Intervention Studies Show That Tea (Camellia sinensis) May Be Useful in the Prevention of Obesity
Kimberly A. Grove and Joshua D. Lambert
Page: 446

Biochemical, Molecular, and Genetic Mechanisms

Cholecalciferol Supplementation throughout Winter Does Not Affect Markers of Bone Turnover in Healthy Young and Elderly Adults
Page: 454

Early Weaning Reduces Small Intestinal Alkaline Phosphatase Expression in Pigs
Dale Lackeyram, Chengbo Yang, Tania Archbold, Kendall C. Swanson, and Ming Z. Fan
Page: 461

Nutrient Physiology, Metabolism, and Nutrient-Nutrient Interactions

Predicted Apparent Digestion of Energy-Yielding Nutrients Differs between the Upper and Lower Digestive Tracts in Rats and Humans
Leah T. Coles, Paul J. Moughan, Ajay Awati, Alison J. Darragh, and Maggie L. Zou
Page: 469

Dietary Phosphate Restriction Decreases Stem Cell Proliferation and Subsequent Growth Potential in Neonatal Pigs
Lindsey S. Alexander, Avanika Mahajan, Jack Odle, Kyle L. Flann, Robert P. Rhoads, and Chad H. Stahl
Page: 477

Dietary Supplementation with Lactobacilli and Bifidobacteria Is Well Tolerated and Not Associated with Adverse Events during Late Pregnancy and Early Infancy
Page: 483

Multidrug Resistance Proteins Restrain the Intestinal Absorption of trans-Resveratrol in Rats
Isoleucine Prevents the Accumulation of Tissue Triglycerides and Upregulates the Expression of PPAR and Uncoupling Protein in Diet-Induced Obese Mice
Junko Nishimura, Takayuki Masaki, Mie Arakawa, Masataka Seike, and Hironobu Yoshimatsu
Page: 496

Elevated Circulating LDL Phenol Levels in Men Who Consumed Virgin Rather Than Refined Olive Oil Are Associated with Less Oxidation of Plasma LDL
Page: 501

Changes in Intestinal Bifidobacteria Levels Are Associated with the Inflammatory Response in Magnesium-Deficient Mice
Page: 509

Nutritional Immunology

Conjugated Linoleic Acid Ameliorates Inflammation-Induced Colorectal Cancer in Mice through Activation of PPAR
Nicholas P. Evans, Sarah A. Misyak, Eva M. Schmelz, Amir J. Guri, Raquel Hontecillas, and Josep Bassaganya-Riera
Page: 515

Methodology and Mathematical Modeling

Analytical Recovery of Folate and Its Degradation Products in Human Serum Stored at –25°C for up to 29 Years
Rita Hannisdal, Randi E. Gislefoss, Tom K. Grimsrud, Steinar Hustad, Lars Mørkrid, and Per Magne Ueland
Page: 522

Nutrition and Disease

Dietary Anthocyanin-Rich Bilberry Extract Ameliorates Hyperglycemia and Insulin Sensitivity via Activation of AMP-Activated Protein Kinase in Diabetic Mice
Masahito Takikawa, Seiya Inoue, Fumihiko Horio, and Takanori Tsuda
Page: 527

Constipation Is Relieved More by Rye Bread Than Wheat Bread or Laxatives without Increased Adverse Gastrointestinal Effects
Reetta Holma, Sanna-Maria Hongisto, Maija Saxelin, and Riitta Korpela
Nutrient Requirements and Optimal Nutrition

Vitamin D Intake Needed to Maintain Target Serum 25-Hydroxyvitamin D Concentrations in Participants with Low Sun Exposure and Dark Skin Pigmentation Is Substantially Higher Than Current Recommendations
Laura M. Hall, Michael G. Kimlin, Pavel A. Aronov, Bruce D. Hammock, James R. Slusser, Leslie R. Woodhouse, and Charles B. Stephensen
Page: 542

Vitamin D Supplement Consumption Is Required to Achieve a Minimal Target 25-Hydroxyvitamin D Concentration of 75 nmol/L in Older People
Roula Baraké, Hope Weiler, Hélène Payette, and Katherine Gray-Donald
Page: 551

Maternal Folate and Cobalamin Status Predicts Vitamin Status in Newborns and 6-Month-Old Infants
Gry Hay, Torun Clausen, Andrew Whitelaw, Kerstin Trygg, Carole Johnston, Tore Henriksen, and Helga Refsum
Page: 557

Nutritional Epidemiology

Dietary Protein Intake throughout Childhood Is Associated with the Timing of Puberty
Anke L. B. Günther, Nadina Karaolis-Danckert, Anja Kroke, Thomas Remer, and Anette E. Buyken
Page: 565

Infant Birth Size Is Not Associated with Maternal Intake and Status of Folate during the Second Trimester in Norwegian Pregnant Women
Roy M. Nilsen, Stein Emil Vollset, Anne Lise B. Monsen, Arve Ulvik, Margaretha Haugen, Helle Margrete Meltzer, Per Magnus, and Per Magne Ueland
Page: 572

Soy Product and Isoflavone Intakes Are Associated with a Lower Risk of Type 2 Diabetes in Overweight Japanese Women
Akiko Nanri, Tetsuya Mizoue, Yoshihiko Takahashi, Kyoko Kirii, Manami Inoue, Mitsuhiko Noda, and Shoichiro Tsugane
Page: 580

Whole and Refined Grain Intakes Are Related to Inflammatory Protein Concentrations in Human Plasma
Rachel C. Masters, Angela D. Liese, Steven M. Haffner, Lynne E. Wagenknecht, and Anthony J. Hanley
Page: 587

Three-Phase Model Harmonizes Estimates of the Maximal Suppression of Parathyroid Hormone by 25-Hydroxyvitamin D in Persons 65 Years of Age and Older
Dietary Flavonol Intake May Lower Stroke Risk in Men and Women
Peter C. H. Hollman, Anouk Geelen, and Daan Kromhout
Page: 600

Community and International Nutrition

Organoleptic Properties, Ease of Use, and Perceived Health Effects Are Determinants of Acceptability of Micronutrient Supplements among Poor Mexican Women
Sera L. Young, Ilian Blanco, Sonia Hernandez-Cordero, Gretel H. Pelto, and Lynnette M. Neufeld
Page: 605

Cash and In-Kind Transfers in Poor Rural Communities in Mexico Increase Household Fruit, Vegetable, and Micronutrient Consumption but Also Lead to Excess Energy Consumption
Jef L. Leroy, Paola Gadsden, Sonia Rodríguez-Ramírez, and Teresa González de Cossío
Page: 612

Maternal Multiple Micronutrient Supplementation Has Limited Impact on Micronutrient Status of Bangladeshi Infants Compared with Standard Iron and Folic Acid Supplementation
Hanna Eneroth, Shams el Arifeen, Lars-Åke Persson, Bo Lönnerdal, Mohammad Bakhtiar Hossain, Charles B. Stephensen, and Eva-Charlotte Ekström
Page: 618

Active Malaria Morbidity Management Has Limited Impact on Height Status of Preschool Senegalese Children
Florie Fillol, Amandine Cournil, Cécile Cames, Cheikh Sokhna, and Kirsten Bork Simondon
Page: 625

Zinc Supplementation for Four Months Does Not Affect Growth in Young North Indian Children
Sunita Taneja, Tor A. Strand, Halvor Sommerfelt, Rajiv Bahl, and Nita Bhandari
Page: 630

In a Randomized Controlled Trial of Iron Fortification, Anthelmintic Treatment, and Intermittent Preventive Treatment of Malaria for Anemia Control in Ivorian Children, only Anthelmintic Treatment Shows Modest Benefit
Fabian Rohner, Michael B. Zimmermann, Renaude J. Amon, Penelope Vounatsou, Andreas B. Tschanne, Eliézer K. N'Goran, Charlemagne Nindjin, Marie-Chantal Cacou, Marguerite D. Té-Bonlé, Hortense Aka, Daniel E. Sess, Jürg Utzinger, and Richard F. Hurrell
Page: 635

Ingestive Behavior and Neurosciences
Perinatal Nutritional Iron Deficiency Impairs Noradrenergic-Mediated Synaptic Efficacy in the CA1 Area of Rat Hippocampus
Matthew D. McEchron, Cezar J. Goletiani, and Danielle N. Alexander
Page: 642

Symposium: Nutritional Experiences in Early Life as Determinants of the Adult Metabolic Phenotype

The Developmental Origins, Mechanisms, and Implications of Metabolic Syndrome
Kimberley D. Bruce and Mark A. Hanson
Page: 648

Role of Early Hormonal and Nutritional Experiences in Shaping Feeding Behavior and Hypothalamic Development
Sebastien G. Bouret
Page: 653

Metabolic Programming Due to Alterations in Nutrition in the Immediate Postnatal Period
Mulchand S. Patel and Malathi Srinivasan
Page: 658

Mechanisms Linking Suboptimal Early Nutrition and Increased Risk of Type 2 Diabetes and Obesity
Malgorzata S. Martin-Gronert and Susan E. Ozanne
Page: 662

Errata
Page: 667

Announcements
Page: 668

Supplement: Guidance for Assessing Probiotics Beneficial Effects—How to Fill the GAP
Page: 669S
Lancet

Volume 375, Issue. 9716(Feb 27-Mar 5 2010)

Editorial

State of the heart in the USA
Page: 697

Moving towards a world without cluster bombs
Page: 698

How would you spend £1 million to tackle ageing?
Page: 698

Comment

Giving the ischaemic heart a shot in the arm
Michel Ovize, Eric Bonnefoy
Page: 699

Balancing the benefits of statins versus a new risk—diabetes
Christopher P Cannon
Page: 700

Closed-loop insulin delivery: is the holy grail near?
Eric Renard
Page: 702

Time for fair trade in research data
Elizabeth Pisani, James Whitworth, Basia Zaba, Carla Abou-Zahr
Page: 703

Dialysis dose in acute kidney injury and chronic dialysis
Andrew Davenport, Ken Farrington
Page: 705

Respiratory administration of measles vaccine
Saad B Omer, Girish S Hiremath, Neal A Halsey
Page: 706

Rare diseases and legislation in China
Jing-Bo Wang, Jeff J Guo, Li Yang, Yan-De Zhang, Zhao-Qi Sun, Yan-Jun Zhang
Page: 708

Offline: History lessons
Richard Horton
Page: 710

World Report
China boosts medical research
Lin Guo
Page: 711

Reforms on the horizon for Australia’s health system
Greta McLachlan
Page: 712

Institute to investigate cancer hotspot in Czech Republic
Ed Holt
Page: 714

Perspectives

Heart histories
Bill Bynum
Page: 715

A memoir of lost love
Danielle Ofri
Page: 716

Terje Pedersen: a pioneer trialist in preventive cardiology
Kelly Morris
Page: 717

Atherosclerosis and diet in ancient Egypt
A Rosalie David, Amie Kershaw, Anthony Heagerty
Page: 718

Obituary

Eli Sercarz
Caroline Richmond
Page: 720

Correspondence

Low-level laser therapy for neck pain
Arianne P Verhagen, Jasper M Schellingerhout
Page: 721

Effectiveness of intensive autism programmes
Michelle Dawson, Morton Ann Gernsbacher and others
Page: 722

Nutt damage
William Cullerne Bown and others
Page: 723
Drug development for neglected diseases
George Alleyne and others
Page: 725

China's irrational medical pricing scheme
Heng Zhang
Page: 726

Articles
Remote ischaemic conditioning before hospital admission, as a complement to angioplasty, and effect on myocardial salvage in patients with acute myocardial infarction: a randomised trial
Hans Erik Bøtøker, Rajesh Kharbanda, Michael R Schmidt, Morten Bøtøcher, Anne K Kaltoft, Christian J Terkelsen, Kim Munk, Niels H Andersen, Troels M Hansen, Sven Trautner, Jens Flensted Lassen, Evald Høj Christiansen, Lars R Krusell, Steen D Kristensen, Leif Thuesen, Søren S Nielsen, Michael Rehling, Henrik Toft Sørensen, Andrew N Redington, Torsten T Nielsen
Page: 727

Statins and risk of incident diabetes: a collaborative meta-analysis of randomised statin trials
Page: 735

Manual closed-loop insulin delivery in children and adolescents with type 1 diabetes: a phase 2 randomised crossover trial
Roman Hovorka, Janet M Allen, Daniela Elleri, Ludovic J Chassin, Julie Harris, Dongyuan Xing, Craig Kollman, Tomas Hovorka, Anne Mette F Larsen, Marianna Nodale, Alessandra De Palma, Malgorzata E Wilinska, Carlo L Acerini, David B Dunger
Page: 743

Seminar
Dilated cardiomyopathy
John Lynn Jefferies, Jeffrey A Towbin
Page: 752

Review
Management of stable coronary artery disease
Matthias E Pfisterer, Michael J Zellweger, Bernard J Gersh
Page: 763
Hypothesis

Systemic infection and delirium: when cytokines and acetylcholine collide
Willem A van Gool, Diederik van de Beek, Piet Eikelenboom
Page: 773

Case Report

Horner's syndrome—not to be sneezed at
Farid Bazari, Matthew Hind, Yee Ean Ong
Page: 776
Lancet

Volume 375, Issue. 9718 (13-19 March 2010)

Editorial

The Global Fund: replenishment and redefinition in 2010
Page: 865

The price of foodborne illness in the USA
Page: 866

A 10-year plan to reduce road-traffic accidents
Page: 866

Comment

Stroke and blood-pressure variation: new permutations on an old theme
Bo Carlberg, Lars Hjalmar Lindholm
Page: 867

CBT for low-back pain in primary care
Laxmaiah Manchikanti
Page: 869

Diarrhoea: why children are still dying and what can be done
Tessa Wardlaw, Peter Salama, Clarissa Brocklehurst, Mickey Chopra, Elizabeth Mason
Page: 870

Medical complicity, torture, and the war on terror
Abigail Seltzer
Page: 872

New WHO HIV treatment and prevention guidelines
Siobhan Crowley, Nigel Rollins, Nathan Shaffer, Teguest Guerma, Marco Vitoria, Ying-ru Lo
Page: 874

Expression of concern—Probiotic prophylaxis in predicted severe acute pancreatitis: a randomised, double-blind, placebo-controlled trial
The Editors of The Lancet
Page: 875

Surgery—call for papers
William Summerskill
Page: 877

Offline: The facts on the ground
Richard Horton
Page: 878
World Report

Obama attempts to push through health reform bill
Nellie Bristol
Page: 879

Sri Lanka struggles with mental health burden
Nayanah Siva
Page: 880

Mothers and infants to get free health care in Sierra Leone
Wairagala Wakabi
Page: 882

Perspectives

Back to the asylum
Sonia Shah
Page: 883

Posting the right message
Tamara Barrett
Page: 884

Magic is acceptable
Jeremy Laurance
Page: 885

Lord Nigel Crisp
Nellie Bristol
Page: 885

Music, medicine, and embodiment
HM Evans
Page: 886

Obituary

Charles Houston
Anne Harding
Page: 888

Correspondence

Variant or sporadic Creutzfeldt-Jakob disease?
J-P Brandel, D Galanaud, L Freeman, JL Laplanche, S Haik and others
Page: 889

Humanitarian disaster response
Jeremy Shoham, Fiona Watson, Marie McGrath and others
Page: 891

**Ethical standards in Cambodia: is silent witnessing sufficient?**
Bebe Loff, Cheryl Overs
Page: 892

**Donors’ commitments to neglected tropical diseases: not all bad**
Kayako Sakisaka, Jiro Nakamura and others
Page: 892

**Health and human rights education: time to act**
Peter Hall and others
Page: 894

**Department of Error**
Page: 894

**Articles**

**Prognostic significance of visit-to-visit variability, maximum systolic blood pressure, and episodic hypertension**
Peter M Rothwell, Sally C Howard, Eamon Dolan, Eoin O'Brien, Joanna E Dobson, Bjorn Dahlöf, Peter S Sever, Neil R Poulter
Page: 895

**Effects of antihypertensive-drug class on interindividual variation in blood pressure and risk of stroke: a systematic review and meta-analysis**
Alastair JS Webb, Urs Fischer, Ziyah Mehta, Peter M Rothwell
Page: 906

**Group cognitive behavioural treatment for low-back pain in primary care: a randomised controlled trial and cost-effectiveness analysis**
Sarah E Lamb, Zara Hansen, Ranjit Lall, Emanuela Castelnuovo, Emma J Withers, Vivien Nichols, Rachel Potter, Martin R Underwood, on behalf of the Back Skills Training Trial investigators
Page: 916

**Seminar**

**Porphyrias**
Hervé Puy, Laurent Gouya, Jean-Charles Deybach
Page: 924

**Review**

**Limitations of the usual blood-pressure hypothesis and importance of variability, instability, and episodic hypertension**
Peter M Rothwell
Page: 938
Viewpoint

The role of academic health science systems in the transformation of medicine
Victor J Dzau, D Clay Ackerly, Pamela Sutton-Wallace, Michael H Merson, R Sanders Williams, K Ranga Krishnan, Robert C Taber, Robert M Califf
Page: 949

Case Report

Hiccups, nausea, and vomiting: water channels under attack!
Joanne Riphagen, Piet Modderman, Aad Verrips
Page: 954
Editorial

DFID: a report card and a reappraisal
Page: 955

Another step towards preventing artemisinin resistance
Page: 956

Caesarean section—the first cut isn’t the deepest
The Lancet
Page: 956

Comment

Carotid stenting: more risky than endarterectomy and often no better than medical treatment alone
Peter M Rothwell
Page: 957

Antisense technology to lower LDL cholesterol
R Dermot G Neely, Margaret F Bassendine
Page: 959

Increasing HIV prevention and care for injecting drug users
Don C Des Jarlais, Kamyar Arasteh, Marya Gwadz
Page: 961

Gardasil: from bench, to bedside, to blunder
Peter B Bach
Page: 963

A tale of two-component generalised HIV epidemics
James D Shelton
Page: 964

Cardiology—a call for papers
Stuart Spencer
Page: 966

The health-related MDGs—an urgent call for papers
Pam Das, Richard Horton
Page: 967

Offline: Life in the senior common room
Richard Horton
Page: 968
World Report

European nations agree to improve environmental health
Robert Walgate
Page: 969

Experts concerned about vaccination backlash
Priya Shetty
Page: 970

Poland's nurses warn of crisis in profession
Ed Holt
Page: 972

Perspectives

Responding to HIV/AIDS: beyond science and statistics
Brian Eley
Page: 973

Finding our resilience
Lauren Hill
Page: 974

Degeneration
Christopher Lawrence
Page: 975

Sunetra Gupta
Page: 975

Poetry, medicine, and the International Hippocrates Prize
Donald RJ Singer, Michael Hulse
Page: 976

Obituary

Ernest Donald Acheson
Geoff Watts
Page: 978

Correspondence

DART and laboratory monitoring of HIV treatment
Trevor Peter, Duncan Blair, Mike Reid, Jessica Justman and others
Page: 979

Mexico's conditional cash transfer programme
Orazio Attanasio, Costats Meghir, Norbert Schady and others
Diabetes in Asia
Yasuaki Hayashino, Shunichi Fukuhara and others
Page: 981

Health-care needs of people affected by conflict
Kebede Deribe
Page: 982

Registering observational research: second thoughts
Jan P Vandenbroucke
Page: 982

Scaling up financing for health
Sania Nishtar
Page: 983

Adjustment of dosing of antimicrobial agents for bodyweight in adults
Els Mehuys, Egide Kayitare, Chris Vervaet, Jean-Paul Remon
Page: 983

Online journals: paying or delaying?
Tim S Nawrot, Pim van der Harst, Jan A Staessen
Page: 984

Department of Error
Page: 984

Articles

Carotid artery stenting compared with endarterectomy in patients with symptomatic carotid stenosis (International Carotid Stenting Study): an interim analysis of a randomised controlled trial
International Carotid Stenting Study investigators
Page: 985

Mipomersen, an apolipoprotein B synthesis inhibitor, for lowering of LDL cholesterol concentrations in patients with homozygous familial hypercholesterolaemia: a randomised, double-blind, placebo-controlled trial
Frederick J Raal, Raul D Santos, Dirk J Blom, A David Marais, Min-Ji Charng, William C Cromwell, Robin H Lachmann, Daniel Gaudet, Ju L Tan, Scott Chasan-Taber, Diane L Tribble, JoAnn D Flaim, Stanley T Crooke
Page: 998

Comparative demographics of the European cystic fibrosis population: a cross-sectional database analysis
Jonathan McCormick, Gita Mehta, Hanne V Olesen, Laura Viviani, Milan Macek, Anil Mehta, on behalf of the European Registry Working Group
Page: 1007
HIV prevention, treatment, and care services for people who inject drugs: a systematic review of global, regional, and national coverage
Bradley M Mathers, Louisa Degenhardt, Hammad Ali, Lucas Wiessing, Matthew Hickman, Richard P Mattick, Bronwyn Myers, Atul Ambekar, Steffanie A Strathdee, for the 2009 Reference Group to the UN on HIV and Injecting Drug Use
Page: 1014

Clinical Picture

A retrocaval ureter
Yang Yong, Huan Yi, Ji Gang
Page: 1029

Seminar

Colorectal cancer
David Cunningham, Wendy Atkin, Heinz-Josef Lenz, Henry T Lynch, Bruce Minsky, Bernard Nordlinger, Naureen Starling
Page: 1030

Viewpoint

Wiring a nation: putting knowledge into action
Magne Nylenna, Øystein Eiring, Grete Strand, John-Arne Røttingen
Page: 1048

Case Report

Nosocomial transmission of necrotising fasciitis
Frédérique Sablier, Tayeb Slaouti, Pierre-Alexandre Drèze, Pierre Emmanuel El Fouly, Daniel Allemersch, Laurence Van Melderen, Pierre R Smeesters
Page: 1052
Nature

Volume 464, Issue. 7285(4 March 2010)

Editorials

Do scientists really need a PhD?
Page: 7

The ratings game
Page: 7

The bigger picture
Page: 8

Research Highlights

Biology: Secret code
Page: 10

Genetics: Gene guards
Page: 10

Nanotechnology: Light DNA machine
Page: 10

Electronics: Caught on film
Page: 10

Biology: Stayin' alive
Page: 10

Astrophysics: Old stars call out
Page: 10

Chemical biology: With added sugar
Page: 11

Applied physics: Sound lasers hum along
Page: 11

Wildlife biology: Lizard back burden
Page: 11

Neuroscience: Use it or lose it
Page: 11

Journal Club

Journal club


**News**

**News briefing: 4 March 2010**  
Page: 12

**Model response to Chile quake?**  
Page: 14

**Unmanned planes take wing for science**  
Jeff Tollefson  
Page: 14

**University rankings smarten up**  
Declan Butler  
Page: 16

**Fat rats skew research results**  
Daniel Cressey  
Page: 19

**The labours of Fotis Kafatos**  
Natasha Gilbert  
Page: 20

**Weapons labs to thrive as Obama trims nukes**  
Jeff Tollefson  
Page: 21

**News Features**

**Chinese bioscience: The sequence factory**  
David Cyranoski  
Page: 22

**Non-proliferation: Borderline detection**  
Sharon Weinberger  
Page: 26

**Column**

**World view: Curing climate backlash**  
Daniel Sarewitz  
Page: 28

**Correspondence**

**South Africa: telescopes raise the nation's sights**
South Africa: aiming to be premier global astronomy hub
Rob Adam
Page: 30

South Africa: big science should stay on the agenda
Steven L. Chown
Page: 30

Myth-busting about first mass-produced human cell line
Leonard Hayflick
Page: 30

Spring awakening planned for Mars rover Spirit
Steve Squyres
Page: 31

Esaki diode is still a radio star, half a century on
Leo Esaki, Yasuhiko Arakawa & Masatoshi Kitamura
Page: 31

Foundations could allocate money more productively
Ingrid Eisenstadter
Page: 31

Opinion

Stop laser uranium enrichment
Francis Slakey & Linda R. Cohen
Page: 32

Books and Arts

The Eerie Silence: Renewing Our Search for Alien Intelligence/Are We Alone In The Universe? By Paul Davies
Chris McKay
Page: 34

The Perfect Swarm: The Science of Complexity in Everyday Life by Len Fisher
Mark Buchanan
Page: 35

Temple Grandin Directed by Mick Jackson
Wes Jamison & Clive Wynne
Page: 36

Q&A: Joanna Cole on writing science books for kids
News and Views

Behavioural neurobiology: The treacherous scent of a human
Walter S. Leal
Page: p37

Microscopy: When mica and water meet
Joost W. M. Frenken & Tjerk H. Oosterkamp
Page: 38

Materials science: Hydrocarbon superconductors
Matthew J. Rosseinsky & Kosmas Prassides
Page: 39

Clinical immunology: Culprits with evolutionary ties
Carolyn S. Calfee & Michael A. Matthay
Page: 41

Materials science: Mind the helical crack
Markus J. Buehler & Zhiping Xu
Page: 42

Developmental genetics: Time for teeth
Sadaf Shadan
Page: 43

C. Thomas Caskey
Page: 44

Review

Quantum computers
Page: 45

Articles

Remarkably ancient balanced polymorphisms in a multi-locus gene network
Chris Todd Hittinger, Paula Gonçalves, José Paulo Sampaio, Jim Dover, Mark Johnston & Antonis Rokas
Page: 54

A human gut microbial gene catalogue established by metagenomic sequencing
Junjie Qin, Ruiqiang Li, Jeroen Raes, Manimozhiyan Arumugam, Kristoffer Solvsten Burgdorf, Chaysavanh Manichanh, Trine Nielsen, Nicolas Pons, Florence Levenez, Takuji Yamada, Daniel R. Mende, Junhua Li, Junming Xu, Shaochuan Li, Dongfang Li, Jianjun Cao, Bo Wang, Huiqing Liang, Huisong Zheng, Yinlong Xie, Julien Tap, Patricia Lepage,
Odorant reception in the malaria mosquito Anopheles gambiae
Allison F. Carey, Guirong Wang, Chih-Ying Su, Laurence J. Zwiebel & John R. Carlson
Page: 59

Letters

Linking dwarf galaxies to halo building blocks with the most metal-poor star in Sculptor
Anna Frebel, Evan N. Kirby & Joshua D. Simon
Page: 72

Superconductivity in alkali-metal-doped picene
Ryoji Mitsuhashi, Yuta Suzuki, Yusuke Yamanari, Hiroki Mitamura, Takashi Kambe, Naoshi Ikeda, Hideki Okamoto, Akihiko Fujiwara, Minoru Yamaji, Naoko Kawasaki, Yutaka Maniwa & Yoshihiro Kubozono
Page: 76

Reinventing germanium avalanche photodetector for nanophotonic on-chip optical interconnects
Solomon Assefa, Fengnian Xia & Yurii A. Vlasov
Page: 80

Helical crack-front instability in mixed-mode fracture
Antonio J. Pons & Alain Karma
Page: 85

Metabolic streamlining in an open-ocean nitrogen-fixing cyanobacterium
H. James Tripp, Shellie R. Bench, Kendra A. Turk, Rachel A. Foster, Brian A. Desany, Faheem Niazi, Jason P. Affourtit & Jonathan P. Zehr
Page: 90

Ecologically distinct dinosaurian sister group shows early diversification of Ornithodira
Page: 95

Changes in Hox genes’ structure and function during the evolution of the squamate body plan
Nicolas Di-Poï, Juan I. Montoya-Burgos, Hilary Miller, Olivier Pourquié, Michel C. Milinkovitch & Denis Duboule
Page: 99
Circulating mitochondrial DAMPs cause inflammatory responses to injury
Qin Zhang, Mustafa Raoof, Yu Chen, Yuka Sumi, Tolga Sursal, Wolfgang Junger, Karim Brohi, Kiyoshi Itagaki & Carl J. Hauser
Page: 104

Haematopoietic stem cells derive directly from aortic endothelium during development
Julien Y. Bertrand, Neil C. Chi, Buyung Santoso, Shutian Teng, Didier Y. R. Stainier & David Traver
Page: 108

Blood stem cells emerge from aortic endothelium by a novel type of cell transition
Karima Kissa & Philippe Herbomel
Page: 112

In vivo imaging of haematopoietic cells emerging from the mouse aortic endothelium
Jean-Charles Boisset, Wiggert van Cappellen, Charlotte Andrieu-Soler, Niels Galjart, Elaine Dzierzak & Catherine Robin
Page: 116

SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation
Page: 121

Corrigendum

Opposing microRNA families regulate self-renewal in mouse embryonic stem cells
Collin Melton, Robert L. Judson & Robert Blelloch
Page: 126

Naturejobs

Careers and Recruitment Cultivating new talent
Virginia Gewin
Page: 128

Futures

Transitions
Dan Erlanson
Page: 132
Nature

Volume 464, Issue. 7287(11 March 2010)

Editorials

Climate of fear
Page: 141

Scientific glasnost
Page: 141

Europe's research future
Page: 142

Research Highlights

Palaeontology: The long and the short
Page: 144

Metabolism: Warm milk
Page: 144

Chemistry: Cellulose busters
Page: 144

Neuroscience: Nerve cell talk
Page: 144

Biomaterials: Squishy particles
Page: 144

Cancer biology: Arsenic activation
Page: 144

Physics: Photon storage for telecoms
Page: 145

Cancer genomics: Melanoma's mutations
Page: 145

Nanotechnology: Harvesting heat
Page: 145

Evolution: Creating cooperation
Page: 145

Journal Club

Journal club
News

News briefing: 11 March 2010
Page: 146

Outcry over scientists’ dismissal
Rex Dalton
Page: 148

Climate e-mail rerun
Jeff Tollefson
Page: 149

Old rocks drown dry Moon theory
Eric Hand
Page: 150

Biology thinks big to stay cuts
Alison Abbott
Page: 151

Science survives Canadian budget
Nicola Jones
Page: 153

Plant biologists fear for cress project
Heidi Ledford
Page: 154

Graphic detail: Securing UK science
Richard Van Noorden
Page: 155

A rescue plan for UK physics funding
Geoff Brumfiel
Page: 155

News Features

Nuclear weapons physics: Welcome to the Atomic Weapons Establishment
Page: 156

Bioengineering: What to make with DNA origami
Page: 158

Correspondence
Science and Mexico are the losers in institute politics
Harold W. Kroto, Pulikel M. Ajayan, Anthony K. Cheetham, Mildred S. Dresselhaus, Morinobu Endo, Alan L. Mackay & Ljubisa R. Radovic
Page: 160

Colour-coded targets would help clarify biodiversity priorities
Anne Larigauderie, Georgina M. Mace & Harold A. Mooney
Page: 160

Barriers to carbon capture and storage may not be obvious
Frances Bowen
Page: 160

Opinion

Accelerating HIV vaccine development
Wayne C. Koff
Page: 161

Books and Arts

Reinventing the Automobile: Personal Urban Mobility for the 21st Century by William J. Mitchell, Christopher E. Borroni-Bird & Lawrence D. Burns
Daniel Sperling
Page: 163

The Edge of Physics: A Journey to Earth's Extremes to Unlock the Secrets of the Universe/Dispatches from the Frontiers of Cosmology by Anil Ananthaswamy
Joanne Baker
Page: 164

Perfect Rigor: A Genius and the Mathematical Breakthrough of the Century by Masha Gessen
George Szpiro
Page: 165

Q&A: Peter Hessler on urbanization in China
Page: 166

News and Views

Structural biology: When four become one
Robert Craigie
Page: 167

Atmospheric chemistry: Wider role for airborne chlorine
Roland von Glasow
Page: 168

Supramolecular chemistry: Sticking to sugars
Sex determination: An avian sexual revolution
Lindsey A. Barske & Blanche Capel
Page: 171

Applied ecology: Grass and the X factor
Tim Lincoln
p172

Cosmology: Gravity tested on cosmic scales
J. Anthony Tyson
Page: 172

Exotic matter

Exotic matter
Dan Csontos
Page: 175

The enigma of supersolidity
Sebastien Balibar
Page: 176

Superconductivity gets an iron boost
Igor I. Mazin
Page: 183

Non-Abelian states of matter
Ady Stern
Page: 187

The birth of topological insulators
Joel E. Moore
Page: 194

Spin liquids in frustrated magnets
Leon Balents
Page: 199

Electron liquids and solids in one dimension
Vikram V. Deshpande, Marc Bockrath, Leonid I. Glazman & Amir Yacoby
Page: 209

Review

Targeting early infection to prevent HIV-1 mucosal transmission
Ashley T. Haase
Page: 217
Perspectives

Immunology and the elusive AIDS vaccine
Herbert W. Virgin & Bruce D. Walker
Page: 224

Articles

Retroviral intasome assembly and inhibition of DNA strand transfer
Stephen Hare, Saumya Shree Gupta, Eugene Valkov, Alan Engelman & Peter Cherepanov
Page: 232

Somatic sex identity is cell autonomous in the chicken
D. Zhao, D. McBride, S. Nandi, H. A. McQueen, M. J. McGrew, P. M. Hocking, P. D. Lewis, H. M. Sang & M. Clinton
Page: 237

Systems survey of endocytosis by multiparametric image analysis
Claudio Collinet, Martin Stöter, Charles R. Bradshaw, Nikolay Samusik, Jochen C. Rink, Denise Kenski, Bianca Habermann, Frank Buchholz, Robert Henschel, Matthias S. Mueller, Wolfgang E. Nagel, Eugenio Fava, Yannis Kalaidzidis & Marino Zerial
Page: 243

The primary transcriptome of the major human pathogen Helicobacter pylori
Cynthia M. Sharma, Steve Hoffmann, Fabien Darfeuille, Jérémy Reignier, Sven Findeiß, Alexandra Sittka, Sandrine Chabas, Kristin Reiche, Jörg Hackermüller, Richard Reinhardt, Peter F. Stadler & Jörg Vogel
Page: 250

Letters

Confirmation of general relativity on large scales from weak lensing and galaxy velocities
Reinabelle Reyes, Rachel Mandelbaum, Uros Seljak, Tobias Baldauf, James E. Gunn, Lucas Lombriser & Robert E. Smith
Page: 256

Deviations from a uniform period spacing of gravity modes in a massive star
Pieter Degroote, Conny Aerts, Annie Baglin, Andrea Miglio, Maryline Briquet, Arlette Noels, Ewa Niemczura, Josefina Montalban, Steven Bloemen, Raquel Oreiro, Maja Vučković, Kristof Smolders, Michel Auvergne, Frederic Baudin, Claude Catala & Eric Michel
Page: 259

Transmission of electrical signals by spin-wave interconversion in a magnetic insulator
Page: 262
Tunable polymer multi-shape memory effect
Tao Xie
Page: 267

A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry
Page: 271

Antagonistic coevolution accelerates molecular evolution
Steve Paterson, Tom Vogwill, Angus Buckling, Rebecca Benmayor, Andrew J. Spiers, Nicholas R. Thomson, Mike Quail, Frances Smith, Danielle Walker, Ben Libberton, Andrew Fenton, Neil Hall & Michael A. Brockhurst
Page: 275

Compensatory evolution in mitochondrial tRNAs navigates valleys of low fitness
Margarita V. Meer, Alexey S. Kondrashov, Yael Artzy-Randrup & Fyodor A. Kondrashov
Page: 279

Sister chromosome pairing maintains heterozygosity in parthenogenetic lizards
Aracely A. Lutes, William B. Neaves, Diana P. Baumann, Winfried Wiegraebe & Peter Baumann
Page: 283

Systematic genetic analysis of muscle morphogenesis and function in Drosophila
Frank Schnorrer, Cornelia Schönbauer, Christoph C. H. Langer, Georg Dietzl, Maria Novatchkova, Katharina Schernhuber, Michaela Fellner, Anna Azaryan, Martin Radolf, Alexander Stark, Krystyna Keleman & Barry J. Dickson
Page: 287

Telomere elongation in induced pluripotent stem cells from dyskeratosis congenita patients
Suneet Agarwal, Yuin-Han Loh, Erin M. McLoughlin, Junjiu Huang, In-Hyun Park, Justine D. Miller, Hongguang Huo, Maja Okuka, Rosana Maria dos Reis, Sabine Loewer, Huck-Hui Ng, David L. Keefe, Frederick D. Goldman, Aloysius J. Klingelhoft, Lin Liu & George Q. Daley
Page: 292

The cells and peripheral representation of sodium taste in mice
Jayaram Chandrashekar, Christina Kuhn, Yuki Oka, David A. Yarmolinsky, Edith Hummler, Nicholas J. P. Ryba & Charles S. Zuker
Page: 297

B-cell-derived lymphotoxin promotes castration-resistant prostate cancer
Massimo Ammirante, Jun-Li Luo, Sergei Grivennikov, Sergei Nedospasov & Michael Karin
Page: 302
JARID2 regulates binding of the Polycomb repressive complex 2 to target genes in ES cells
Diego Pasini, Paul A. C. Cloos, Julian Walfridsson, Linda Olsson, John-Paul Bukowski, Jens V. Johansen, Mads Bak, Niels Tommerup, Juri Rappsilber & Kristian Helin
Page: 306

Naturejobs

Prospects Speak up
Peter Fiske
Page: 312

Q&A Lidia Brito on science policy at UNESCO
Virginia Gewin
Page: 313

In Brief

Better prospects
Page: 313

Salary freeze
Page: 313

Wellcome translation
Page: 313

Futures

The Omniplus Ultra
Paul Di Filippo
Page: 316
Nature


Editorials

Science in court
Page: 325

Handle with care
Page: 325

Setting the bar
Page: 326

Research Highlights

Geoscience: Wind-blown ice
Page: 328

Materials science: Ultrathin fibres heat up
Page: 328

Palaeontology: Egg-stracting DNA
Page: 328

Neuroscience: Rats on the wagon
Page: 328

Virology: Infectious inheritance
Page: 328

Conservation: Heavy metal history
Page: 329

Archaeology: Adoption or migration?
Page: 329

Neuroscience: Memory reading
Page: 329

Genomics: We are family
Page: 329

Journal Club

Journal club
Eran Segal
Page: 329
News

News briefing: 18 March 2010
Page: 330

Wildlife service plans for a warmer world
Janet Fang
Page: 332

Sex bias blights drug studies
Erika Check Hayden
Page: 332

Hunt for the sterile neutrino heats up
Eric Hand
Page: 334

Hobbit origins pushed back
Rex Dalton
Page: 335

China debates university reform
David Cyranoski
Page: 336

Cash crisis looms for vaccine drive
Declan Butler
Page: 338

News Features

Science in court: Head case
Page: 340

Science in court: The fine print
Page: 344

Science in court: DNA's identity crisis
Page: 347

Column

World view: What can little Europe do?
Colin Macilwain
Page: 349

Correspondence

Tsunami: unexpected blow foils flawless warning system
Dale Dominey-Howes & James Goff
Tsunami: time for models to be tested in warning centres
Delilah H. A. Al Khudhairy & Alessandro Annunziato
Page: 350

Researchers' petition aims to simplify European funding
Olivier Küttel & Sabine Herlitschka
Page: 350

Smoking out the big tobacco-users — and they're not in China
Jie-Yu Chuang
Page: 350

Waterfall is the clue to a case of mistaken identity
William R. Dickinson
Page: 350

Opinion

Making forensic science more scientific
Peter Neufeld & Barry Scheck
Page: 351

Books and Arts

Our Choice: A Plan to Solve the Climate Crisis by Al Gore and Storms of My Grandchildren: The Truth About the Coming Climate Catastrophe and Our Last Chance to Save Humanity by James Hansen and Science as a Contact Sport: Inside the Battle to Save Earth's Climate by Stephen H. Schneider and The Economics and Politics of Climate Change Edited by Dieter Helm & Cameron Hepburn
Roger Pielke, Jr reviews
Page: 352

What Darwin Got Wrong by Jerry A. Fodor & Massimo Piattelli-Palmarini
Massimo Pigliucci reviews
Page: 353

Giant Molecules: From Nylon to Nanotubes by Walter Gratzer
Richard Jones reviews
354

Q&A: Hervé This on flavour and perception
Michael White
Page: 355

News and Views

Spectroscopy: Expanding versatility
Martin Moskovits
Drug discovery: Inhibitors that activate
Karen Cichowski & Pasi A. Jänne
Page: 358

Astrophysics: First generation of quasars
Giulia Stratta
Page: 359

Multiple sclerosis: Closing in on an oral treatment
Roland Martin
Page: 360

Solid-state physics: Golden ratio seen in a magnet
Ian Affleck
Page: 362

Cancer: A lower bar for senescence
Manuel Serrano
Page: 363

Evolutionary biology: Pregnant fathers in charge
Anders Berglund
Page: 364

Cell biology: Actin filaments up against a wall
Cécile Sykes & Julie Plastino
Page: 365

Inorganic chemistry: Pores off the peg
Neil Withers
Page: 366

Articles

Comparative genomics reveals mobile pathogenicity chromosomes in Fusarium
Li-Jun Ma, H.et al.
Page: 367

Skp2 targeting suppresses tumorigenesis by Arf-p53-independent cellular senescence
Hui-Kuan Lin, Zhenbang Chen, Guocan Wang, Caterina Nardella, Szu-Wei Lee, Chan-Hsin Chan, Wei-Lei Yang, Jing Wang, Ainara Egia, Keiichi I. Nakayama, Carlos Cordon-Cardo, Julie Teruya-Feldstein & Pier Paolo Pandolfo
Page: 374

Letter

Dust-free quasars in the early Universe
A transiting giant planet with a temperature between 250 K and 430 K
H. J. Deeg et al.
Page: 380

A trapped single ion inside a Bose–Einstein condensate
Christoph Zöpkes, Stefan Palzer, Carlo Sias & Michael Köhl
Page: 388

Shell-isolated nanoparticle-enhanced Raman spectroscopy
Jian Feng Li, Yi Fan Huang, Yong Ding, Zhi Lin Yang, Song Bo Li, Xiao Shun Zhou, Feng Ru Fan, Wei Zhang, Zhi You Zhou, De Yin Wu, Bin Ren, Zhong Lin Wang & Zhong Qun Tian
Page: 392

Isotope fractionation in silicate melts by thermal diffusion
F. Huang, P. Chakraborty, C. C. Lundstrøm, C. Holmden, J. J. G. Glessner, S. W. Kieffer & C. E. Lesher
Page: 396

Post-copulatory sexual selection and sexual conflict in the evolution of male pregnancy
Kimberly A. Paczolt & Adam G. Jones
Page: 401

ITPA gene variants protect against anaemia in patients treated for chronic hepatitis C
Jacques Fellay, Alexander J. Thompson, Dongliang Ge, Curtis E. Gumbs, Thomas J. Urban, Kevin V. Shianna, Latasha D. Little, Ping Qiu, Arthur H. Bertelsen, Mark Watson, Amelia Warner, Andrew J. Muir, Clifford Brass, Janice Albrecht, Mark Sulkowski, John G. McHutchison & David B. Goldstein
Page: 405

Targeted deletion of the 9p21 non-coding coronary artery disease risk interval in mice
Page: 409

An intrinsic vasopressin system in the olfactory bulb is involved in social recognition
Vicky A. Tobin, Hirofumi Hashimoto, Douglas W. Wacker, Yuki Takayanagi, Kristina Langnaese, Celine Caquineau, Julia Noack, Rainer Landgraf, Tatsushi Onaka, Gareth Leng, Simone L. Meddle, Mario Engelmann & Mike Ludwig
Page: 413

Differential innate immune signalling via Ca2+ sensor protein kinases
Marie Boudsocq, Matthew R. Willmann, Matthew McCormack, Horim Lee, Libo Shan, Ping He, Jennifer Bush, Shu-Hua Cheng & Jen Sheen
Control of Arabidopsis apical–basal embryo polarity by antagonistic transcription factors
Zachery R. Smith & Jeff A. Long
Page: 423

RAF inhibitors transactivate RAF dimers and ERK signalling in cells with wild-type BRAF
Poulilos I. Poulikakos, Chao Zhang, Gideon Bollag, Kevan M. Shokat & Neal Rosen
Page: 427

RAF inhibitors prime wild-type RAF to activate the MAPK pathway and enhance growth
Georgia Hatzivassiliou, Kyung Song, Ivana Yen, Barbara J. Brandhuber, Daniel J. Anderson,
Ryan Alvarado, Mary J. C. Ludlam, David Stokoe, Susan L. Gloor, Guy Vigers, Tony Morales,
Ignacio Aliagas, Bonnie Liu, Steve Sideris, Klaus P. Hoeflich, Bijay S. Jaiswal,
Somasekar Seshagiri, Hartmut Koeppen, Marcia Belvin, Lori S. Friedman & Shiva Malek
Page: 431

Mad2-induced chromosome instability leads to lung tumour relapse after oncogene withdrawal
Rocio Sotillo, Juan-Manuel Schwartzman, Nicholas D. Socci & Robert Benezra
Page: 436

Encoding multiple unnatural amino acids via evolution of a quadruplet-decoding ribosome
Heinz Neumann, Kaihang Wang, Lloyd Davis, Maria Garcia-Alai & Jason W. Chin
Page: 441

Structural basis for receptor recognition of vitamin-B12–intrinsic factor complexes
Christian Brix Folsted Andersen, Mette Madsen, Tina Storm, Søren K. Moestrup & Gregers R. Andersen
Page: 445

Naturejobs

Careers Q&A Mara Mather
Virginia Gewin
Page: 451

In Brief

Institute forges ahead
Page: 451

EU students stay static
Page: 451

Academics take salary hit
Beauty contest
Alaina Levine
Page: 452

Futures

Expectancy theory
Ananyo Bhattacharya
Page: 456
Nature

Volume 464, Issue 7288 (25 March 2010)

Editorials

Tough love
Page: 465

Buyer beware
Page: 465

Content rules
Page: 466

Research Highlights

Biology: A jewel's true colours
Page: 468

Regenerative biology: Pregnancy boosts repair
Page: 468

Chemistry: Water splitting
Page: 468

Imaging: A view to a kill
Page: 468

Evolutionary biology: Lend a helping claw
Page: 468

Geoscience: Marine malaise
Page: 469

Genetics: Cross out crossovers
Page: 469

Neuroscience: Live-action brain cells
Page: 469

Atmospheric science: Paparazzi pollution
Page: 469

Journal Club

Journal club Mutual understanding
Michael Brockhurst
Page: 469
News

News briefing: 25 March 2010
The week in science
Page: 470

Fossil finger points to new human species
Rex Dalton
Page: 472

Teams set for first taste of Antarctic lakes
Quirin Schiermeier
Page: 472

Fixing a grant system in crisis
Richard Van Noorden & Geoff Brumfiel
Page: 474

China boosts African research links
David Cyranoski
Page: 477

Turkish law could cripple bioscience
Alison Abbott
Page: 478

US health bill promises changes for biomedical researchers
Meredith Wadman
Page: 479

News Features

Ageing: Much ado about ageing
Heidi Ledford
Page: 480

Physics: The Large Human Collider
Zeeya Merali
Page: 482

Correspondence

Industry in academia: ethical frameworks would clarify links
Annalee Yassi, Shafik Dharamsi & Jerry Spiegel
Page: 486

Industry in academia: transparency alone is not enough
Theodore Lawry
Page: 486
Structural changes to aid science in developing countries
Mauricio Terrones
Page: 486

European routes to reinventing Internet technology
Jon Crowcroft & Eiko Yoneki
Page: 486

Issues raised by use of ethnic-group names in genome study
Carina Schlebusch
Page: 487

Questions over the scientific basis of epigenome project
Mark Ptashne, Oliver Hobert & Eric Davidson
Page: 487

Opinion

Let's make science metrics more scientific
Julia Lane
Page: 488

How do morals change?
Paul Bloom
Page: 490

Books and Arts

Eternity Soup: Inside the Quest to End Aging by Greg Critser
S. Jay Olshansky reviews
Page: 491

Natural Experiments of History Edited by Jared Diamond & James A. Robinson
Jon Christensen reviews
Page: 492

Matisse: Radical Invention, 1913–1917
Josie Glausiusz reviews
Page: 493

Life From an RNA World: The Ancestor Within by Michael Yarus
Josie Glausiusz reviews
Page: 494

Books in brief
Joanne Baker
Page: 494

News and Views
Plant science: The hidden cost of transpiration
David J. Beerling & Peter J. Franks
Page: 495

Materials science: Reconfigurable colloids
Michael J. Solomon
Page: 496

Surface science: Liquid marbles
Andrew Mitchinson
Page: 497

Developmental biology: Plumbing the heart
Paul Riley
Page: 498

Carbon cycle: A warm response by soils
Pete Smith & Changming Fang
Page: 499

Biogeochemistry: NO connection with methane
Ronald S. Oremland
Page: 500

Donald T. Farley
Page: 502

Insight: Ageing

The genetics of ageing
Cynthia J. Kenyon
Page: 504

Lessons on longevity from budding yeast
Matt Kaeberlein
Page: 513

Linking functional decline of telomeres, mitochondria and stem cells during ageing
Ergün Sahin & Ronald A. DePinho
Page: 520

Neural mechanisms of ageing and cognitive decline
Nicholas A. Bishop, Tao Lu & Bruce A. Yankner
Page: 529

Biodemography of human ageing
James W. Vaupel
Page: 536

Articles
Nitrite-driven anaerobic methane oxidation by oxygenic bacteria
Page: 543

Coronary arteries form by developmental reprogramming of venous cells
Kristy Red-Horse, Hiroo Ueno, Irving L. Weissman & Mark A. Krasnow
Page: 549

Neurogenic radial glia in the outer subventricular zone of human neocortex
David V. Hansen, Jan H. Lui, Philip R. L. Parker & Arnold R. Kriegstein
Page: 554

Letters

Escape of about five per cent of Lyman-α photons from high-redshift star-forming galaxies
Matthew Hayes, Göran Östlin, Daniel Schauer, J. Miguel Mas-Hesse, Claus Leitherer, Hakim Atek, Daniel Kunth, Anne Verhamme, Stéphane de Barros & Jens Melinder
Page: 562

Anomalous structure in the single particle spectrum of the fractional quantum Hall effect
O. E. Dial, R. C. Ashoori, L. N. Pfeiffer & K. W. West
Page: 566

Atom-by-atom structural and chemical analysis by annular dark-field electron microscopy
Ondrej L. Krivanek, Matthew F. Chisholm, Valeria Nicolosi, Timothy J. Pennycook, George J. Corbin, Niklas Dellby, Matthew F. Murfitt, Christopher S. Own, Zoltan S. Szilagyi, Mark P. Oxley, Sokrates T. Pantelides & Stephen J. Pennycook
Page: 571

Lock and key colloids
S. Sacanna, W. T. M. Irvine, P. M. Chaikin & D. J. Pine
Page: 575

Temperature-associated increases in the global soil respiration record
Ben Bond-Lamberty & Allison Thomson
Page: 579

A computational model of teeth and the developmental origins of morphological variation
Isaac Salazar-Ciudad & Jukka Jernvall
Page: 583
Whole-genome resequencing reveals loci under selection during chicken domestication
Page: 587

The dynamic genome of Hydra
Jarrod A. Chapman et.al.
Page: 592

Analysis of Drosophila TRPA1 reveals an ancient origin for human chemical nociception
Page: 597

Primary contribution to zebrafish heart regeneration by gata4+ cardiomyocytes
Kazu Kikuchi, Jennifer E. Holdway, Andreas A. Werdich, Ryan M. Anderson, Yi Fang, Gregory F. Egnaczyk, Todd Evans, Calum A. MacRae, Didier Y. R. Stainier & Kenneth D. Poss
Page: 601

Zebrafish heart regeneration occurs by cardiomyocyte dedifferentiation and proliferation
Chris Jopling, Eduard Sleep, Marina Raya, Mercè Martí, Angel Raya & Juan Carlos Izpisúa Belmonte
Page: 606

Heteroplasmic mitochondrial DNA mutations in normal and tumour cells
Yiping He, Jian Wu, Devin C. Dressman, Christine Iacobuzio-Donahue, Sanford D. Markowitz, Victor E. Velculescu, Luis A. Diaz Jr, Kenneth W. Kinzler, Bert Vogelstein & Nickolas Papadopoulos
Page: 610

Haploid plants produced by centromere-mediated genome elimination
Maruthachalam Ravi & Simon W. L. Chan
Page: 615

Transcriptional control of preadipocyte determination by Zfp423
Rana K. Gupta, Zoltan Arany, Patrick Seale, Rina J. Mepani, Li Ye, Heather M. Conroe, Yang A. Roby, Heather Kulaga, Randall R. Reed & Bruce M. Spiegelman
Page: 619

Transcription-independent ARF regulation in oncogenic stress-mediated p53 responses
Delin Chen, Jing Shan, Wei-Guo Zhu, Jun Qin & Wei Gu
Page: 624

Control of female gamete formation by a small RNA pathway in Arabidopsis
Naturejobs

Careers Q&A Cheng-An Lin
Virginia Gewin
Page: 635

In Brief

Postdoc pay uncertain
Page: 635

UK science enrolment up
Page: 635

Tax threat for postdocs
Page: 635

Golden opportunity
Karen Kaplan
Page: 636

Futures

The drained world
Ian Watson
Page: 640
New England Journal of Medicine

Volume 362, Issue. 9 (4 March 2010)

Perspective

Recovering from Disaster — Partners in Health and the Haitian Earthquake
T. Kidder
Page: 769

Medicare's Opportunity to Encourage Innovation in Health Care Delivery
R. Mechanic and S. Altman
Page: 772

Weighing Risks and Benefits of Liraglutide — The FDA's Review of a New Antidiabetic Therapy
M. Parks and C. Rosebraugh
Page: 774

Protecting the Children of Haiti
S. Balsari, J. Lemery, T. P. Williams, and B. D. Nelson
Page: e25

Original Articles

Comparison of Dopamine and Norepinephrine in the Treatment of Shock
D. De Backer and Others
Page: 779

Ethosuximide, Valproic Acid, and Lamotrigine in Childhood Absence Epilepsy
T. A. Glauser and Others
Page: 790

Glycated Hemoglobin, Diabetes, and Cardiovascular Risk in Nondiabetic Adults
E. Selvin and Others
Page: 800

A Trial of a 7-Valent Pneumococcal Conjugate Vaccine in HIV-Infected Adults
N. French and Others
Page: 812

Review Article

Current Concepts: Management of Varices and Variceal Hemorrhage in Cirrhosis
G. Garcia-Tsao and J. Bosch
Page: 823

Images in Clinical Medicine

Congenital Cytomegalovirus Infection
Neuropathic Ulceration
S. Teelucksingh and V. Naraynsingh
Page: e26

Clinical Problem-Solving

Stalking the Diagnosis
B. Chamarthi and Others
Page: 834

Editorials

Treating Shock — Old Drugs, New Ideas
J. H. Levy
Page: 841

Ethosuximide in Childhood Absence Epilepsy — Older and Better
E. P.G. Vining
Page: 843

Sounding Board

Collection of Data on Patients' Race and Ethnic Group by Physician Practices
M. K. Wynia, S. L. Ivey, and R. Hasnain-Wynia
Page: 846

Correspondence

On-Pump versus Off-Pump CABG
Page: 851

A Controlled Trial of Initial Antiviral Regimens for HIV-1 Infection
Page: 851

Effects of Obesity and Smoking on U.S. Life Expectancy
Page: 851

Repair of Mitral-Valve Prolapse
Page: 851

A Crisis in Late Pregnancy
Page: 851

Capecitabine and Oxaliplatin for Advanced Esophagogastric Cancer
Page: 851

Surveys of Physicians and Electronic Health Information
Studies in Family Planning

Volume 41, Issue 1 (March 2010)

Articles

Men's Multiple Sexual Partnerships in 15 Sub-Saharan African Countries: Sociodemographic Patterns and Implications
Jeffrey B. Bingenheimer
Page: 1-17

Determinants of Condom Use in Zambia: A Multilevel Analysis
Kofi D. Benefo
Page: 19-30

Effects of Rural-Urban Return Migration on Women's Family Planning and Reproductive Health Attitudes and Behavior in Rural China
Jiajian Chen, Hongyan Liu, Zhenming Xie
Page: 31-44

The Time Dynamics of Individual Fertility Preferences Among Rural Ghanaian Women
Ivy A. Kodzi, John B. Casterline, Peter Aglobitse
Page: 45-54

A Randomized Community Trial of Enhanced Family Planning Outreach in Rakai, Uganda
Tom Lutalo, Godfrey Kigozi, Edward Kimera, David Serwadda, Maria J. Wawer, Laurie Schwab Zabin, Ronald H. Gray
Page: 55-60

Data

Jordan 2007: Results from the Population and Family Health Survey
Page: 61-66

Liberia 2007: Results from the Demographic and Health Survey
Page: 67-72

Book review
Page: 73-74
University news

Volume 48, Issue. 09 (1-7 March 2010)

Articles

Higher education in India at cross roads
Page: 1

Training needs analysis of newly inducted lectures in higher education institutes
Page: 6

Indicators on gender equality and empowerment
Page: 9

Convocation

Indian Law Institute, New Delhi
Page: 24

Campus News
Page: 27

Theses of the Month (Social Sciences)
Page: 33

Advertisements
Page: 38
University news

Volume 48, Issue. 10 (8-14 March 2010)

Articles

Time management by teachers in the university system
Page: 1

Well being: An emerging issue in Indian higher education sector
Page: 6

Growth and development of engineering education: An overview of Indian scenario
Page: 12

Teacher’s training programme of Academic Staff College, Gauhati University: An appraisal
Page: 22

Campus News
Page: 29

Theses of the Month (Humanities)
Page: 34

Advertisements
Page: 38
University news

Volume 48, Issue. 11(15-21 March 2010)

Articles

New challenges of higher education in India
Page: 1

Higher education in India: Grassroots reality and challenges
Page: 4

Six sigma in higher education
Page: 8

Challenges ahead: Implementing DM through teacher training and teacher education curriculum
Page: 15

Convocation
Page: 21

Campus News
Page: 23

Theses of the Month (Science & Technology)
Page: 30

Advertisement
Page: 35
University news

Volume 48, Issue. 12(22-28 March 2010)

Articles

An assessment of the growth and grants of higher education in India
Page: 1

Emerging trends of higher education in Russia
Page: 6

Using blogs for extending library services
Page: 16

Convocation

Sant Gadge Baba Amravati University, Amravati
Page: 18

Campus News
Page: 20

Book Review
Page: 25

Theses of the Month (Science & Technology)
Page: 27

Advertisements
Page: 32
Yoga and Total Health

Volume 55, Issue. 8(March 2010)

News
A N desai
Page: 2

Letters to the Editor
Page: 4

Miracles
Shri Yogendraji
Page: 5

Must a Yogi perform miracle?
J Y
Page: 6

Yoga and Art
Smt. Hansaji
Page: 8

Constant prayer
R Butera
Page: 9

The ways of the great
Page: 11

Stories that stir….two sides of a coin Ahimsa
Patanjali J Yogendra
Page: 12

The Yoga Sutras of Patanjali
Smt. Hansaji
Page: 13

Seeds of Yoga in the Vedas
J Casares
Page: 14

Those with God on their side
S Modi
Page: 15

The Bhavas-a reflection
H Sequeira
Page: 16
A trip to Gondavale
S Waghmare
Page: 17

Diet for all seasons
Page: 19

Book Review
N D’Counha
Page: 20

Yoga and Buddhism seeing in ourselves, understanding in others
J Kimbrough
Page: 22

Beautiful Journey
S N Desai
Page: 23

Ahara
Page: 23

Thoughts of Gita
Smt. Hansaji
Page: 24