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To learn more and request a sample, visit www.neb.com/E7630

<table>
<thead>
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<th>Input</th>
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<th>H. influenzae</th>
<th>E. coli</th>
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With the NEBNext Library Quant Kit, optimal cluster density is achieved from quantitated libraries with a broad range of library size and GC content.

![Cluster density chart](chart)

Libraries of 310–963 bp from the indicated sources were quantitated using the NEBNext Library Quant Kit, then diluted to 6 pM and loaded onto a MiSeq® (v2 chemistry, MCT v2.4.1.3). Library concentrations ranged from 7–120 nM, and resulting raw cluster density for all libraries was 965–1300 k/mm² (ave. = 1199). Optimal cluster density was achieved using concentrations determined by the NEBNext Library Quant Kit for all library sizes.
The 18th Liliane Bettencourt Prize for Life Sciences was awarded to Scott Waddell, Professor of Neurobiology and Wellcome Trust Senior Research Fellow in the Centre for Neural Circuits and Behaviour at the University of Oxford. Scott leads a team studying memory, motivation and neural transposition. He is also a Senior Research Fellow of Pembroke College, Oxford, and Co-Director of the Oxford Martin School Programme on Mind and Machine.

The Liliane Bettencourt Prize for Life Sciences, worth € 250,000, has been awarded every year since 1997 to a European researcher under the age of 45, who is recognised within the scientific community for the quality of their international publications. In addition to their status as an author and leader in their own scientific field, the candidate must be leading a particularly promising research project and have the personal qualities for mobilising an entire team.

Established in 1987 as a public interest foundation, the Bettencourt Schueller Foundation was set up by Liliane, André Bettencourt and their daughter Françoise Bettencourt Meyers, in memory of Eugène Schueller, a renowned researcher and chemist. Its mission is to “take talent to the top”, in order to contribute to a stronger French society and boost France’s influence on the international stage. This mission is focused on three main areas: life sciences, the arts and the promotion of an inclusive society. Driven by strong convictions, the Foundation’s approach and actions serve the common good, thus demonstrating a firm commitment to social responsibility.

Scott Waddell is Professor of Neurobiology and Wellcome Trust Senior Research Fellow in the Centre for Neural Circuits and Behaviour at the University of Oxford. He is also a Senior Research Fellow at Pembroke College, Oxford, and co-director of the Oxford Martin School Programme on Mind and Machine.

He leads a team studying memory, motivation and neural transposition. Scott returned to the United Kingdom in 2011, after 5 years as a post doctoral fellow at Massachusetts Institute of Technology and 10 years leading a research group in the Department of Neurobiology at the University of Massachusetts Medical School (USA). His post doctoral discovery in the fruit fly mushroom bodies of DPM neurons, two large cells required for memory consolidation, revealed that fly learning mechanisms could be investigated at cellular resolution. Lately, his team has demonstrated that distinct subsets of dopaminergic neurons play different roles in controlling motivated behaviour and reward learning in the fly. These neurons, that also innervate the mushroom bodies, indicate a previously unforeseen similarity between fly and mammalian reinforcement systems. In addition, the Waddell team’s surprising discovery of jumping genes in the fly’s mushroom bodies has provided a means of understanding molecular mechanisms that contribute to making each brain unique.
The Keystone Symposia
2015–2016 Conference Series

Human Nutrition, Environment and Health (T1)
Organizers: Martin Kuussmann, Hannelore Daniel & Jacqueline Pontes Monteiro
Oct 14–18, 2015 | China World Hotel | Beijing | China
Deadlines: Discounted Registration: Sep 10, ’15

Diabetes: New Insights into Molecular Mechanisms and Therapeutic Strategies (T2)
Organizers: Takashi Kadowaki, Juleen R. Zierath, Nobuya Inagaki & Barbara B. Kahn
Oct 25–29, 2015 | Westin Miyako Kyoto | Kyoto | Japan
Deadlines: Discounted Registration: Aug 25, ’15

Systems Immunology: From Molecular Networks to Human Biology (A1)
Organizers: Ronald N. Germain, Aviv Regev, Nir Hacohen & Dana Pe'er
Jan 10–14, 2016 | Big Sky Resort | Big Sky, Montana | USA

Cytokine JAK-STAT Signaling in Immunity and Disease (A2)
Organizers: Curt M. Horvath, John J. O’Shea & Stephanie S. Wawcho
Jan 10–14, 2016 | Sheraton Steamboat Resort | Steamboat Springs, Colorado | USA

Molecular and Cellular Basis of Growth and Regeneration (A3)
Organizers: Alejandro Sánchez Alvarado, Dujoo D.J. Pan & Valentina Greco
Jan 10–14, 2016 | Beaver Run Resort | Breckenridge, Colorado | USA

Nuclear Receptors: Full Throttle (J1)
Organizers: Carol A. Lange, Jennifer K. Richer & Karen E. Knudsen
joint with Metabolism, Transcription and Disease (J2)
Organizers: Peter Verrijzer, Katherine A. Jones & Paolo Sassone-Corsi
Jan 10–14, 2016 | Snowbird Resort | Snowbird, Utah | USA

Biology of Down Syndrome: Impacts Across the Biomedical Spectrum (A4)
Organizers: Victor Tybulewicz, Elizabeth Fisher, Thomas Blumenthal & Jeanne Lawrence
Jan 24–27, 2016 | Hilton Santa Fe Historic Plaza Hotel | Santa Fe, New Mexico | USA

Traumatic Brain Injury: Clinical, Pathological and Translational Mechanisms (J3)
Organizers: Ann C. McKee, Ramon Diaz-Arrastia & Lee E. Goldstein
joint with Axons: From Cell Biology to Pathology (J4)
Organizers: Giampietro Schiavo, Bruce D. Carter and Rejji Kuruvilla
Jan 24–27, 2016 | Eldorado Hotel & Spa | Santa Fe, New Mexico | USA

Drug Discovery for Parasitic Diseases (A5)
Organizers: Leann M. Tilley, Philip J. Rosenthal & Kelly Chibale
Jan 24–28, 2016 | Granlibakken Resort | Tahoe City, California | USA

Small RNA Silencing: Little Guides, Big Biology (A6)
Organizers: Phillip D. Zamore, Yukihide Tomari & Mihaela Zavolan
Jan 24–28, 2016 | Keystone Resort | Keystone, Colorado | USA

Purinergic Signaling (J5)
Organizers: Joel Linden, Mark J. Smyth, Simon C. Robson & Kenneth A. Jacobson
joint with Cancer Immunotherapy:
Immunity and Immunosuppression Meet Targeted Therapies (J6)
Organizers: Barbara Seliger, Jerome Galon & Francesco M. Marincola
Jan 24–28, 2016 | Fairmont Hotel Vancouver | Vancouver, British Columbia | Canada

Neurological Disorders of Intracellular Trafficking (A7)
Organizers: Dennis Drayna & Bettina Winckler
Jan 31–Feb 4, 2016 | Keystone Resort | Keystone, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Sep 30, ’15; Abstract: Nov 2, ’15; Discounted Registration: Dec 1, ’15

Cell Biology and Immunology of Persistent Infection (A8)
Organizers: Herbert (Skip) W. Virgin, E. John Wherry, Anne O’Garra & Andrea Lynn Cox
Jan 31–Feb 4, 2016 | Fairmont Banff Springs | Banff, Alberta | Canada
Deadlines: Discounted Abstract/Scholarship: Oct 1, ’15; Abstract: Nov 3, ’15; Discounted Registration: Dec 1, ’15

The Cancer Genome (Q1)
Organizers: Elaine R. Mardis, Sohrab Shah & Ben J. Raphael
joint with Genomics and Personalized Medicine (Q2)
Organizers: Michael Snyder, Leroy E. Hood & Heidi L. Rehm
Feb 7–11, 2016 | Fairmont Banff Springs | Banff, Alberta | Canada

Fibrosis: From Basic Mechanisms to Targeted Therapies (Q3)
Organizers: Robert Lafayatis, Paolo G.V. Martini, Dean Sheppard & Lucie Peduto
joint with Stromal Cells in Immunity (Q4)
Organizers: Shannon J. Turley, Burkhard Ludewig & Melody A. Swartz
Feb 7–11, 2016 | Keystone Resort | Keystone, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Oct 8, ’15; Abstract: Nov 10, ’15; Discounted Registration: Dec 8, ’15

Plant Epigenetics: From Genotype to Phenotype (B1)
Organizers: Scott D. Michaels, Doris Wagner & Nathan M. Springer
Feb 15–19, 2016 | Sagebrush Inn & Suites | Taos, New Mexico | USA

Obesity and Adipose Tissue Biology (B2)
Organizers: Yu-Hua Tseng, Philipp E. Scherer & Deborah Clegg
Feb 15–19, 2016 | Fairmont Banff Springs | Banff, Alberta | Canada

Noncoding RNAs in Health and Disease (Q5)
Organizers: Ramin Shiekhattar & Roberto Bonasio
joint with Enhancer Misfunction in Cancer (Q6)
Organizers: Ali Shilatifard & Dale Dorsett
Feb 21–24, 2016 | Santa Fe Community Convention Center | Santa Fe, New Mexico | USA
Deadlines: Discounted Abstract/Scholarship: Oct 20, ’15; Abstract: Nov 18, ’15; Discounted Registration: Dec 18, ’15

G Protein-Coupled Receptors: Structure, Signaling and Drug Discovery (B3)
Organizers: Arthur Christopoulos, Laura M. Bohn & Dominic P. Behan
Feb 21–25, 2016 | Keystone Resort | Keystone, Colorado | USA

New Frontiers in Understanding Tumor Metabolism (Q7)
Organizers: Chi Van Dang, Katharine Yen & Navdeep S. Chandel
joint with Immunometabolism in Immune Function and Inflammatory Disease (Q8)
Organizers: Jeffrey C. Rathmell, Jonathan D. Powell & Amira Klip
Feb 21–25, 2016 | Fairmont Banff Springs | Banff, Alberta | Canada

T Follicular Helper Cells and Germinal Centers (B4)
Organizers: Shane Crotty & Carola G. Vinuesa
Feb 26–Mar 1, 2016 | Hyatt Regency Monterey | Monterey, California | USA
Deadlines: Discounted Abstract/Scholarship: Oct 27, ’15; Abstract: Nov 30, ’15; Discounted Registration: Jan 5, ’16

Immunity in Skin Development, Homeostasis and Disease (B5)
Feb 28–Mar 2, 2016 | Granlibakken Resort | Tahoe City, California | USA
Deadlines: Discounted Abstract/Scholarship: Oct 28, ’15; Abstract: Dec 1, ’15; Discounted Registration: Jan 5, ’16

Tuberculosis Co-Morbidities and Immunopathogenesis (B6)
Organizers: Hardy Kornfeld, Sarah M. Fortune & Thomas R. Hawn
Feb 28–Mar 3, 2016 | Keystone Resort | Keystone, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Oct 29, ’15; Abstract: Dec 1, ’15; Discounted Registration: Jan 5, ’16
Stem Cells and Cancer (C1)
Organizers: Austin Gurney, Connie J. Eaves & Jane E. Visvader
Mar 6–10, 2016 | Beaver Run Resort | Breckenridge, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Nov 4, ‘15; Abstract: Dec 7, ‘15; Discounted Registration: Jan 6, ‘16

Cancer Vaccines: Targeting Cancer Genes for Immunotherapy (X1)
Organizers: A. Karolina Palucka, Hyam I. Levitsky & Laurence Zitvogel
joint with Antibodies as Drugs (X2)
Organizers: Peter D. Senter, Anna M. Wu, Alan J. Korman & Karl Dane Wittrup
Mar 6–10, 2016 | Fairmont Chateau Whistler | Whistler, British Columbia | Canada
Deadlines: Discounted Abstract/Scholarship: Nov 5, ‘15; Abstract: Dec 8, ‘15; Discounted Registration: Jan 7, ‘16

Ubiquitin Signaling (X3)
Organizers: Philip Cohen, Michael Rape & Titàa K. SIXma
joint with NF-kB and MAP Kinase Signaling in Inflammation (X4)
Organizers: Steven C. Ley, Zhijian James Chen & Jenny P. Y. Ting
Mar 13–17, 2016 | Whistler Conference Centre | Whistler, British Columbia | Canada
Deadlines: Discounted Abstract/Scholarship: Nov 11, ‘15; Abstract: Dec 14, ‘15; Discounted Registration: Jan 13, ‘16

Islet Biology: From Cell Birth to Death (X5)
Organizers: Klaus H. Kaestner, Christopher J. Rhodes & Yuval Dor
joint with Stem Cells and Regeneration in the Digestive Organs (X6)
Organizers: Linheng Li, Martin G. Martin, James M. Wells & Markus Grompe
Mar 13–17, 2016 | Keystone Resort | Keystone, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Nov 12, ‘15; Abstract: Dec 15, ‘15; Discounted Registration: Jan 14, ‘16

Chromatin and Epigenetics (C2)
Organizers: Luciano Di Croce & Yang Shi
Mar 20–24, 2016 | Whistler Conference Centre | Whistler, British Columbia | Canada
Deadlines: Discounted Abstract/Scholarship: Nov 18, ‘15; Abstract: Dec 16, ‘15; Discounted Registration: Jan 20, ‘16

HIV Persistence: Pathogenesis and Eradication (X7)
Organizers: David M. Margolis, Satya Dandeker & Susana T. Valente
joint with HIV Vaccines (X8)
Organizers: David C. Montefiori & Mario Roederer
Mar 20–24, 2016 | Resort at Squaw Creek | Olympic Valley, California | USA
Deadlines: Discounted Abstract/Scholarship: Nov 19, ‘15; Abstract: Dec 17, ‘15; Discounted Registration: Jan 21, ‘16

Cancer Pathophysiology: Integrating the Host and Tumor Environments (C3)
Organizers: Sheila A. Stewart, Sandra S. McAllister & Lisa M. Coussens
Mar 28–Apr 1, 2016 | Beaver Run Resort | Breckenridge, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Nov 15, ‘15; Abstract: Dec 15, ‘15; Discounted Registration: Jan 21, ‘16

Modern Phenotypic Drug Discovery: Defining the Path Forward (D1)
Organizers: Jonathan A. Lee, Ellen L. Berg & Eugene C. Butcher
Apr 2–6, 2016 | Big Sky Resort | Big Sky, Montana | USA
Deadlines: Discounted Abstract/Scholarship: Dec 2, ‘15; Abstract: Jan 5, ‘16; Discounted Registration: Feb 2, ‘16

Mitochondrial Dynamics (D2)
Organizers: Richard J. Youle & Gia K. Voeltz
Apr 3–7, 2016 | Sheraton Steamboat Resort | Steamboat Springs, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Dec 2, ‘15; Abstract: Jan 6, ‘16; Discounted Registration: Feb 3, ‘16

Heart Failure: Genetics, Genomics and Epigenetics (Z1)
Organizers: Stuart A. Cook, Christine E. Seidman & Yigal M. Pinto
joint with Cardiac Development, Regeneration and Repair (Z2)
Organizers: Christine L. Mummery, Joseph C. Wu & Jonathan A. Epstein
Apr 3–7, 2016 | Snowbird Resort | Snowbird, Utah | USA

Myeloid Cells (D3)
Organizers: Arturo Zychlinsky, Judith E. Allen, Eicke Latz & Kate A. Fitzgerald
Apr 10–14, 2016 | INEC – Ireland’s National Events & Conference Centre | Killarney, County Kerry | Ireland
Deadlines: Discounted Abstract/Scholarship: Dec 10, ‘15; Abstract: Jan 11, ‘16; Discounted Registration: Feb 10, ‘16

New Therapeutics for Diabetes and Obesity (G1)
Organizers: Richard D. Dmarchi, Matthias H. Tschöp & Nancy A. Thornberry
April 17–20, 2016 | Estancia La Jolla Hotel & Spa | La Jolla, California | USA

Gut Microbiota, Metabolic Disorders and Beyond (D4)
Organizers: Rémy G. Burcelin, Sven Petterson & Tak W. Mak
Apr 17–21, 2016 | Hyatt Regency Newport | Newport, Rhode Island | USA
Deadlines: Discounted Abstract/Scholarship: Dec 17, ‘15; Abstract: Jan 20, ‘16; Discounted Registration: Feb 17, ‘16

Epigenetic and Metabolic Regulation of Aging and Aging-Related Diseases (E1)
Organizers: Anne Brunet, David M. Sabatini & Shelley L. Berger
May 1–5, 2016 | Hilton Santa Fe Historic Plaza Hotel | Santa Fe, New Mexico | USA
Deadlines: Discounted Abstract/Scholarship: Jan 5, ‘16; Abstract: Feb 2, ‘16; Discounted Registration: Mar 1, ‘16

Positive-Strand RNA Viruses (N1)
Organizers: Raul Andino & Peter D. Nagy
May 1–5, 2016 | Hyatt Regency Austin | Austin, Texas | USA
Deadlines: Discounted Abstract/Scholarship: Jan 6, ‘16; Abstract: Feb 3, ‘16; Discounted Registration: Mar 2, ‘16

Nucleic Acid Sensing Pathways: Innate Immunity, Immunobiology and Therapeutics (E2)
Organizers: Thomas Tsucl, Veit Hornung & Karl-Peter Hopfner
May 8–12, 2016 | Martinim Hotel & Conference Center | Dresden | Germany
Deadlines: Discounted Abstract/Scholarship: Jan 7, ‘16; Abstract: Feb 9, ‘16; Discounted Registration: Mar 8, ‘16

State of the Brain 2016 (R1)
Organizers: Terrence J. Sejnowski & Sten Grillner
May 22–26, 2016 | Alpbach Congress Centrum | Alpbach | Austria

New Approaches to Vaccines for Human and Veterinary Tropical Diseases (M1)
Organizers: Vith Nene, Vishva M. Dixit, Rafi Ahmed & Yasmine Belkaid
May 22–26, 2016 | Southern Sun Cape Sun | Cape Town | South Africa

B Cells at the Intersection of Innate and Adaptive Immunity (E3)
Organizers: Mikael C. I. Karlsson, Claudia Mauri, Eric Mefre & Andrea Cerutti
May 29–Jun 2, 2016 | Clarion Hotel Sign | Stockholm | Sweden

Understanding the Function of Human Genetic Variation (K1)
Organizers: Kerstin Lindblad-Toh & Xavier Estivill
May 31–Jun 4, 2016 | Uppsala Konsert & Kongress | Uppsala | Sweden
Deadlines: Discounted Abstract/Scholarship: Feb 1, ‘16; Abstract: Mar 1, ‘16; Discounted Registration: Mar 31, ‘16

Autophagy: Molecular and Physiological Mechanisms (V1)
Organizers: Sharon A. Tootse, Ana Maria Cuervo & Noboru Mizumura
Jun 5–9, 2016 | Whistler Conference Centre | Whistler, British Columbia | Canada
Deadlines: Discounted Abstract/Scholarship: Feb 4, ‘16; Abstract: Mar 8, ‘16; Discounted Registration: Apr 5, ‘16

Common Mechanisms of Neurodegeneration (Z3)
Organizers: Bradley T. Hyman, Adriano M. Aguzzi & Ricardo E. Dolmetsch
joint with Microglia in the Brain (Z4)
Organizers: Beth Stevens & Richard M. Ransohoff
Jun 12–16, 2016 | Keystone Resort | Keystone, Colorado | USA

Exosomes/Microvesicles: Novel Mechanisms of Cell-Cell Communication (E4)
Organizers: Richard A. Cerione & Xandra O. Breakefield
Jun 19–22, 2016 | Keystone Resort | Keystone, Colorado | USA
Deadlines: Discounted Abstract/Scholarship: Feb 18, ‘16; Abstract: Mar 17, ‘16; Discounted Registration: Apr 19, ‘16

Abstracts submitted by the abstract deadline will be considered for short talks. Scholarships are for students/postdoctoral fellows. 2015-2016 conferences typically begin with afternoon registration and an evening welcome mixer on the first advertised day and conclude with an evening plenary session followed by food and entertainment on the last advertised day. However, some program formats vary. Please view up-to-date program details for each conference at www.keystonesymposia.org and then / and the alpha-numeric program code (e.g., www.keystonesymposia/16A1).
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