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Zhengzheng Li, Jinfei D. Ni, Jia Huang, Craig Montell

PLOS Genetics: published 25 Sep 2014 | info:doi/10.1371/journal.pgen.1004600

Abstract • Author Summary • Figures

Altered Behavioral Performance and Live Imaging of Circuit-Specific Neural Deficiencies in a Zebrafish Model for Psychomotor Retardation

David Zada, Adi Tovin, Tali Lerer-Goldshtein, Gad David Vatine, Lior Appelbaum

PLOS Genetics: published 25 Sep 2014 | info:doi/10.1371/journal.pgen.1004615

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Evidence for Widespread Positive and Negative Selection in Coding and Conserved Noncoding Regions of *Capsella grandiflora*

Robert J. Williamson, Emily B. Josephs, Adrian E. Platts, Khaled M. Hazzouri, Annabelle Haudry, Mathieu Blanchette, Stephen I. Wright

PLOS Genetics: published 25 Sep 2014 | info:doi/10.1371/journal.pgen.1004622

Abstract • Author Summary • Figures

Regulation of p53 and Rb Links the Alternative NF-κB Pathway to EZH2 Expression and Cell Senescence

Alessio Iannetti, Adeline C. Ledoux, Susan J. Tudhope, Hélène Sellier, Bo Zhao, Sophia Mowla, Adam Moore, Holger Hummerich, Benjamin E. Gewurz, Simon J. Cockell, Parmjit S. Jat, Elaine Willmore, Neil D. Perkins

PLOS Genetics: published 25 Sep 2014 | info:doi/10.1371/journal.pgen.1004642

Abstract • Author Summary • Figures

GLD-4-Mediated Translational Activation Regulates the Size of the Proliferative Germ Cell Pool in the Adult *C. elegans* Germ Line

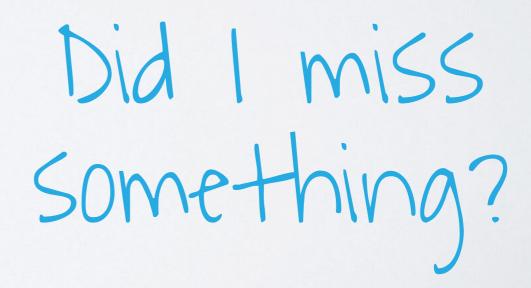Sophia Millonigg, Ryuji Minasaki, Marco Nousch, Christian R. Eckmann

PLOS Genetics: published 25 Sep 2014 | info:doi/10.1371/journal.pgen.1004647

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1: Taranu I, Gras M, Pistol GC, Motiu M, Marin DE, Lefter N, Ropota M, Habeanu M. ω-3 PUFA Rich Camelina Oil By-Products Improve the Systemic Metabolism and Spleen Cell Functions in Fattening Pigs. PLoS One. 2014 Oct 10;9(10):e110186. doi: 10.1371/journal.pone.0110186. eCollection 2014. PubMed PMID: 25303320.

2: Nicoletti NF, Rodrigues-Junior V, Santos AA Jr, Leite CE, Dias AC, Batista EL Jr, Basso LA, Campos MM, Santos DS, Souto AA. Protective Effects of Resveratrol on Hepatotoxicity Induced by Isoniazid and Rifampicin via SIRT1 Modulation. J Nat Prod. 2014 Oct 10. [Epub ahead of print] PubMed PMID: 25302422.

3: Reynolds CM, Li M, Gray C, Vickers MH. Early-life growth hormone treatment to offspring of undernourished mothers alters metabolic parameters in primary adipocytes in adulthood. Growth Factors. 2014 Feb;32(1):34-40. doi: 10.3109/08977194.2013.870169. Epub 2014 Jan 7. PubMed PMID: 24392751.

4: Guerrero CA, Paula Pardo VR, Rafael Guerrero OA. Inhibition of rotavirus ECwt infection in ICR suckling mice by N-acetylcysteine, peroxisome proliferator-activated receptor gamma agonists and cyclooxygenase-2 inhibitors. Mem Inst Oswaldo Cruz. 2013 Sep;108(6):741-54. doi: 10.1590/0074-0276108062013011. PubMed PMID: 24037197; PubMed Central PMCID: PMC3970679.

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Association of a neurokinin 3 receptor polymorphism with the anterior basal forebrain.

Teipel SJ, Grothe MJ, Wittfeld K, Hoffmann W, Hegenscheid K, ... **Grabe HJ** all

⌄ **Abstract**

HIGHLIGHTS: **ON** | OFF   ☑ Gene (2) ☑ Disease (1) ☑ Anatomy (3) ☑ Chemical (5) ☑ Process (2) ☑ Technique (1)

The neuropeptide neurokinin 3 (NK3) and its receptor modulate cholinergic activity of the basal forebrain (BF) and are implicated in learning and memory. In Alzheimer's disease, the rs2765 single-nucleotide polymorphism (SNP) of the NK3 receptor-coding gene TACR3 was correlated with the right hippocampus volume. Here, we studied the association of the rs2765 SNP with magnetic resonance imaging-based volumes of the BF and hippocampus in a population-based sample of 1967 participants between 21 and 90 years of age. The rs2765 SNP was significantly associated with the most anterior BF volume corresponding to the medial septum/diagonal band, and with a significantly steeper age-related volume decline. The rs2765 SNP was not associated with other BF subvolumes or hippocampus volumes. Apolipoprotein E ε4 showed no correlation with any brain volume or global cognition. Our findings in a large population-based sample suggest an association of an NK3 receptor SNP with age-related decline of rostral cholinergic BF volume.

Read full article: Neurobiol Aging ↗   PubMed: 25976010

Synonyms

EGFR (human) ⓘ   = EGFR, HER1, ERBB1, ERBB, 'epidermal growth factor receptor'

Hierarchies

Leukocytes ⓘ   - white blood cells

B-cells   Neutrophils

T-cells   Monocytes   …

alzheimer

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Alzheimer Disease ⓘ ✕

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Parkinson Disease - 617
Memory Disorders - 406
Death - 340

gene

APP (human) - 2897
APOE (human) - 516
Psen1 (mouse) - 427
App (mouse) - 351
PSEN1 (human) - 342
App (rat) - 340
BACE1 (human) - 232
ACHE (human) - 133
TNF (human) - 131
Mapt (mouse) - 110

anatomy

Brain - 5388
Cells - 2322
Neurons - 1731
Hippocampus - 1471
Tissues - 924
Cerebrospinal Fluid - 778
Neurofibrillary Tangles - 727
Blood - 594
Plasma - 542
Central Nervous System - 209

species

17 May 2015

🐦 2

Association of a neurokinin 3 receptor polymorphism with the anterior basal forebrain.

Teipel SJ, Grothe MJ, Wittfeld K, Hoffmann W, Hegenscheid K, ... **Grabe HJ** all

Neurobiol Aging ⊕

> Abstract

APOE (human) ⊕   TACR3 (human) ⊕   Alzheimer Disease ⊕   Basal Forebrain ⊕   Hippocampus ⊕   Brain ⊕   Apolipoproteins E ⊕   Neuropeptides ⊕
Receptors, Cholinergic ⊕   Receptors, Neurokinin-3 ⊕   Cholinergic Agents ⊕   Polymorphism, Single Nucleotide ⊕   Genes ⊕
Magnetic Resonance Imaging ⊕

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16 May 2015

Power spectral density and coherence analysis of Alzheimer's EEG.

Wang R, Wang J, Yu H, Wei X, Yang C, **Deng B**

Cogn Neurodyn ⊕

∨ Abstract

HIGHLIGHTS: **ON** | OFF

☑ Disease (1) ☑ Anatomy (2) ☑ Technique (2)

In this paper, we investigate the abnormalities of electroencephalograph (EEG) signals in the Alzheimer's disease (AD) by analyzing 16-scalp electrodes EEG signals and make a comparison with the normal controls. The power spectral density (PSD) which represents the power distribution of EEG series in the frequency domain is used to evaluate the abnormalities of AD brain. Spectrum analysis based on autoregressive Burg method shows that the relative PSD of AD group is increased in the theta frequency band while significantly reduced in the alpha2 frequency bands, particularly in parietal, temporal, and occipital areas. Furthermore, the coherence of two EEG series among different electrodes is analyzed in the alpha2 frequency band. It is demonstrated that the pair-wise coherence between different brain areas in AD group are remarkably decreased. Interestingly, this decrease of pair-wise electrodes is much more significant in inter-hemispheric areas than that in intra-hemispheric areas. Moreover, the linear cortico-cortical functional connectivity can be extracted based on coherence matrix, from which it is shown

Alzheimer Disease ⓘ ✕   [Follow]

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anatomy

Brain - 5388
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Cerebrospinal Fluid - 778
Neurofibrillary Tangles - 727
Blood - 594
Plasma - 542
Central Nervous System - 209

species

Homo sapiens - 4443
Mus musculus - 2807

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11 May 2015   🐦 40

Biomarkers of Alzheimer Disease, Insulin Resistance, and Obesity in Childhood.

Luciano R, Barraco GM, Muraca M, Ottino S, Spreghini MR, ... **Manco M** all   Pediatrics ⊕

› **Abstract**

PSEN1 (human) ⊕ APP (human) ⊕ Insulin Resistance ⊕ Disease Resistance ⊕ Alzheimer Disease ⊕ Dementia ⊕ Pediatric Obesity ⊕ Overweight ⊕
Serum ⊕ Cells ⊕ Amyloidogenic Proteins ⊕ Presenilin-1 ⊕ Proteins ⊕ Biological Markers ⊕ Homeostasis ⊕ Blotting, Western ⊕ Risk ⊕

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20 Apr 2015   🐦 35

Effect of Cognitive Reserve on Age-Related Changes in Cerebrospinal Fluid Biomarkers of Alzheimer Disease.

Almeida RP, Schultz SA, Austin BP, Boots EA, Dowling NM, ... **Okonkwo OC** all   JAMA Neurol ⊕

› **Abstract**

Alzheimer Disease ⊕ Cerebrospinal Fluid ⊕ Biological Markers ⊕ Regression Analysis ⊕ Spinal Puncture ⊕ Risk Factors ⊕ Risk ⊕ Registries ⊕

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27 Apr 2015   🐦 26

Prevalence and prognosis of Alzheimer's disease at the mild cognitive impairment stage.

Alzheimer Disease ⓘ ✕   APOE (human) ⓘ ✕

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diseases/disorders

Dementia - 100
Mild Cognitive Impairment - 58
Neurodegenerative Diseases - 54
Plaque, Amyloid - 40
Atrophy - 20
Inflammation - 14
Disease Progression - 9
Genetic Predisposition to Disease - 8
Cerebral Amyloid Angiopathy - 8

gene

APP (human) - 188
Apoe (mouse) - 78
PSEN1 (human) - 30
CLU (human) - 24
PICALM (human) - 18
TOMM40 (human) - 17
BIN1 (human) - 15
PSEN2 (human) - 13
CR1 (human) - 11

anatomy

Brain - 195
Plasma - 48
Cells - 45
Hippocampus - 44
Cerebrospinal Fluid - 43

17 May 2015
🐦 2

Association of a neurokinin 3 receptor polymorphism with the anterior basal forebrain.

Teipel SJ, Grothe MJ, Wittfeld K, Hoffmann W, Hegenscheid K, ... **Grabe HJ** all

Neurobiol Aging ⊕

› Abstract

APOE (human) ⊕   TACR3 (human) ⊕   Alzheimer Disease ⊕   Basal Forebrain ⊕   Hippocampus ⊕   Brain ⊕   Apolipoproteins E ⊕   Neuropeptides ⊕   Receptors, Cholinergic ⊕   Receptors, Neurokinin-3 ⊕   Cholinergic Agents ⊕   Polymorphism, Single Nucleotide ⊕   Genes ⊕   Magnetic Resonance Imaging ⊕

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16 May 2015
🐦 1

Butyrylcholinesterase K Variant and Alzheimer's Disease Risk: A Meta-Analysis.

Wang Z, Jiang Y, Wang X, Du Y, Xiao D, Deng Y, **Wang J**

Med Sci Monit ⊕

› Abstract

BCHE (human) ⊕   APOE (human) ⊕   Alzheimer Disease ⊕   Apolipoproteins E ⊕   Butyrylcholinesterase ⊕   Odds Ratio ⊕   Confidence Intervals ⊕   Risk ⊕

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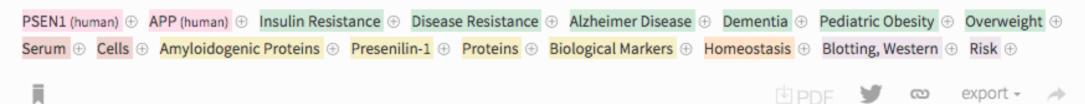Email settings ⚙

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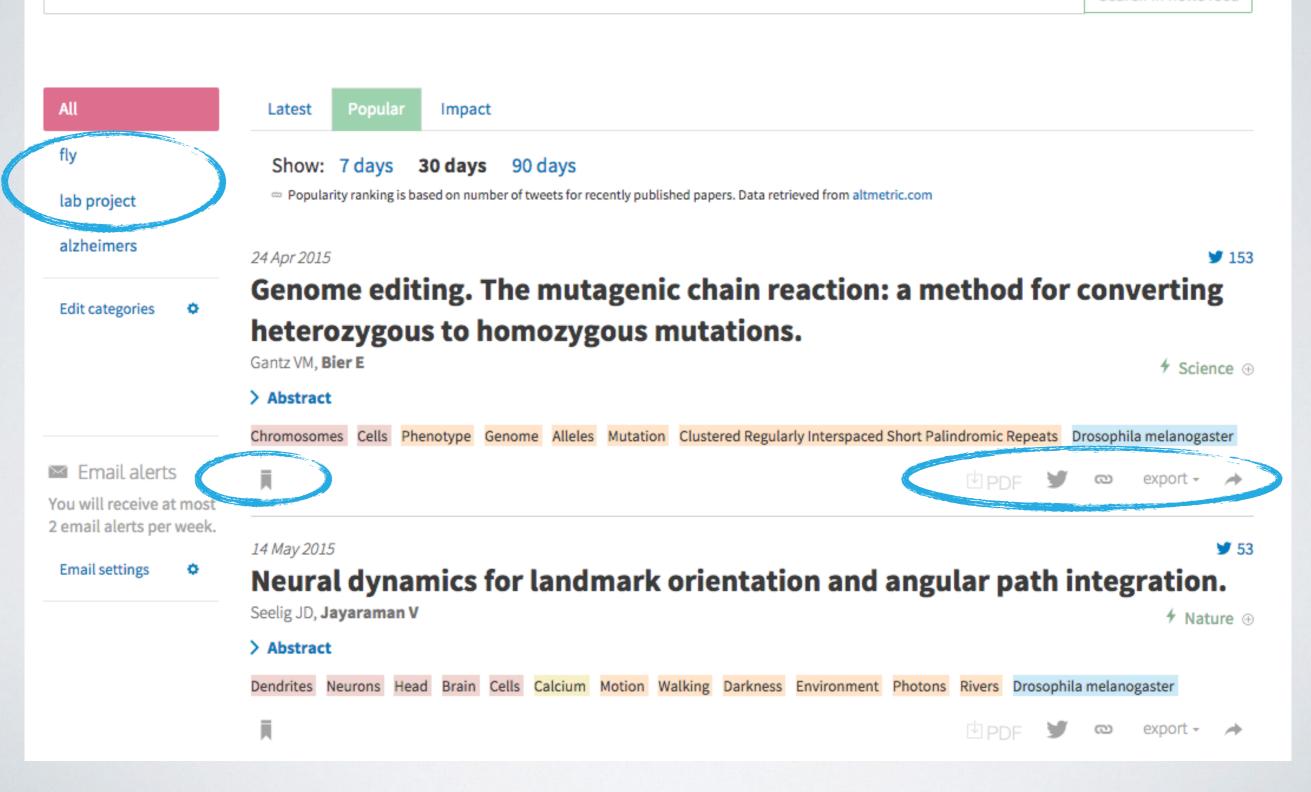
24 Apr 2015   🐦 153

Genome editing. The mutagenic chain reaction: a method for converting heterozygous to homozygous mutations.

Gantz VM, **Bier E**

⚡ Science ⊕

❯ **Abstract**

Chromosomes | Cells | Phenotype | Genome | Alleles | Mutation | Clustered Regularly Interspaced Short Palindromic Repeats | Drosophila melanogaster

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14 May 2015   🐦 53

Neural dynamics for landmark orientation and angular path integration.

Seelig JD, **Jayaraman V**

⚡ Nature ⊕

❯ **Abstract**

Dendrites | Neurons | Head | Brain | Cells | Calcium | Motion | Walking | Darkness | Environment | Photons | Rivers | Drosophila melanogaster

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