



Douglas F. Levinson, M.D.

Walter E. Nichols, M.D. Professor in the School of Medicine, Emeritus
Psychiatry and Behavioral Sciences

Bio

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly, Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- --, Bronx Psychiatric Center , Biological Psychiatry (1982)
- --, Albert Einstein Coll of Medicine , Child Psychiatry (1981)
- --, Mt. Sinai School of Medicine , General Psychiatry (1979)
- --, Albert Einstein Coll of Medicine , Pediatrics (1977)
- M.D., University of Pennsylvania , Medicine (1976)
- A.B., Harvard College , Social Relations (1970)

LINKS

- Program website: <http://depressiongenetics.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Levinson directs the Program on the Genetics of Brain Function in the Department of Psychiatry and Behavioral Sciences. The program investigates the genetic basis of psychiatric disorders (schizophrenia and major depressive disorder), using genetic association, linkage and resequencing methodologies. In collaboration with Dr. Alice Whittemore, we are also actively engaged in statistical methods testing and development for genetic research.

Publications

PUBLICATIONS

- **Machine learning reveals bilateral distribution of somatic L1 insertions in human neurons and glia.** *Nature neuroscience*
Zhu, X. n., Zhou, B. n., Pattni, R. n., Gleason, K. n., Tan, C. n., Kalinowski, A. n., Sloan, S. n., Fiston-Lavier, A. S., Mariani, J. n., Petrov, D. n., Barres, B. A., Duncan, L. n., Abyzov, et al
2021
- **Low C4 Copy Number of Total C4 Gene, C4B Gene and C4BL Gene in Children with Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)**

- Kalinowski, A., Lee, J., Hedlin, H., Pattini, R., Ollila, H., Mignot, E., Levinson, D., Swedo, S., Murphy, T., Chan, A., Thienemann, M., Urban, A., Frankovich, et al
WILEY.2020: 254–55
- **Minimal phenotyping yields genome-wide association signals of low specificity for major depression.** *Nature genetics*
Cai, N., Revez, J. A., Adams, M. J., Andlauer, T. F., Breen, G., Byrne, E. M., Clarke, T., Forstner, A. J., Grabe, H. J., Hamilton, S. P., Levinson, D. F., Lewis, C. M., Lewis, et al
2020
 - **Genome-wide gene-environment analyses of major depressive disorder and reported lifetime traumatic experiences in UK Biobank** *MOLECULAR PSYCHIATRY*
Coleman, J. R. I., Peyrot, W. J., Purves, K. L., Davis, K. A. S., Rayner, C., Choi, S., Hubel, C., Gaspar, H. A., Kan, C., Van der Auwera, S., Adams, M., Lyall, D. M., Choi, et al
2020
 - **Cohort profile: the Australian genetics of depression study.** *BMJ open*
Byrne, E. M., Kirk, K. M., Medland, S. E., McGrath, J. J., Colodro-Conde, L. n., Parker, R. n., Cross, S. n., Sullivan, L. n., Statham, D. J., Levinson, D. F., Licinio, J. n., Wray, N. R., Hickie, et al
2020; 10 (5): e032580
 - **Genomics of major depressive disorder** *PERSONALIZED PSYCHIATRY*
Levinson, D. F.
edited by Baune, B. T.
2020: 187–200
 - **Developmental and symptom profiles in early-onset psychosis.** *Schizophrenia research*
Giannitelli, M., Levinson, D. F., Cohen, D., Xavier, J., Molecular Genetics of Schizophrenia Collaboration (MGS), Laurent-Levinson, C.
2019
 - **MACHINE LEARNING REVEALS BILATERAL DISTRIBUTION OF SOMATIC L1 INSERTIONS IN HUMAN NEURONS AND GLIA**
Zhu, X., Zhou, B., Pattni, R., Gleason, K., Tan, C., Kalinowski, A., Sloan, S., Fiston-Lavier, A., Mariani, J., Vogel, H., Moran, J., Vaccarino, F., Tamminga, et al
ELSEVIER.2019: S68
 - **APPROACHES TO TRANSCRIPTOME ANALYSIS OF HUMAN INDUCED NEURONS IN CO-CULTURE WITH MURINE GLIA TO MODEL FUNCTIONAL SYNAPSES**
Purmann, C., Zhang, X., Pak, C., Huang, Y., Pattni, R., Grieder, S., Wernig, M., Levinson, D., Aronow, B., Sudhof, T., Urban, A.
ELSEVIER.2019: S172–S173
 - **Quantifying between-cohort and between-sex genetic heterogeneity in major depressive disorder** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
Trzaskowski, M., Mehta, D., Peyrot, W. J., Hawkes, D., Davies, D., Howard, D. M., Kemper, K. E., Sidorenko, J., Maier, R., Ripke, S., Mattheisen, M., Baune, B. T., Grabe, et al
2019; 180 (6): 439–47
 - **Classical Human Leukocyte Antigen Alleles and C4 Haplotypes Are Not Significantly Associated With Depression.** *Biological psychiatry*
Glanville, K. P., Coleman, J. R., Hanscombe, K. B., Euesden, J., Choi, S. W., Purves, K. L., Breen, G., Air, T. M., Andlauer, T. F., Baune, B. T., Binder, E. B., Blackwood, D. H., Boomsma, et al
2019
 - **Genome-wide Burden of Rare Short Deletions Is Enriched in Major Depressive Disorder in Four Cohorts** *BIOLOGICAL PSYCHIATRY*
Zhang, X., Abdellaoui, A., Rucker, J., de Jong, S., Potash, J. B., Weissman, M. M., Shi, J., Knowles, J. A., Pato, C., Pato, M., Sobell, J., Smit, J. H., Hottenga, et al
2019; 85 (12): 1065–73
 - **Integrated analysis of environmental and genetic influences on cord blood DNA methylation in new-borns** *NATURE COMMUNICATIONS*
Czamara, D., Eraslan, G., Page, C. M., Lahti, J., Lahti-Pulkkinen, M., Hamalainen, E., Kajantie, E., Laivuori, H., Villa, P. M., Reynolds, R. M., Nystad, W., Haberg, S. E., London, et al
2019; 10: 2548
 - **Assessment of Bidirectional Relationships Between Physical Activity and Depression Among Adults A 2-Sample Mendelian Randomization Study** *JAMA PSYCHIATRY*

- Choi, K. W., Chen, C., Stein, M. B., Klimentidis, Y. C., Wang, M., Koenen, K. C., Smoller, J. W., Wray, N. R., Ripke, S., Mattheisen, M., Trzaskowski, M., Byrne, E. M., Abdellaoui, et al
2019; 76 (4): 399–408
- **Gene expression imputation across multiple brain regions provides insights into schizophrenia risk** *NATURE GENETICS*
Huckins, L. M., Dobbyn, A., Ruderfer, D. M., Hoffman, G., Wang, W., Pardinas, A. F., Rajagopal, V. M., Als, T. D., Nguyen, H. T., Girdhar, K., Boocock, J., Roussos, P., Fromer, et al
2019; 51 (4): 659–+
 - **Genome-wide Burden of Rare Short Deletions Is Enriched in Major Depressive Disorder in Four Cohorts.** *Biological psychiatry*
Zhang, X., Abdellaoui, A., Rucker, J., de Jong, S., Potash, J. B., Weissman, M. M., Shi, J., Knowles, J. A., Pato, C., Pato, M., Sobell, J., Smit, J. H., Hottenga, et al
2019
 - **Identification of common genetic risk variants for autism spectrum disorder** *NATURE GENETICS*
Grove, J., Ripke, S., Als, T. D., Mattheisen, M., Walters, R. K., Won, H., Pallesen, J., Agerbo, E., Andreassen, O. A., Anney, R., Awashti, S., Belliveau, R., Bettella, et al
2019; 51 (3): 431–+
 - **Genome-wide by environment interaction studies of depressive symptoms and psychosocial stress in UK Biobank and Generation Scotland** *TRANSLATIONAL PSYCHIATRY*
Arnau-Soler, A., Macdonald-Dunlop, E., Adams, M. J., Clarke, T., MacIntyre, D. J., Milburn, K., Navrady, L., Hayward, C., McIntosh, A. M., Thomson, P. A., Wray, N. R., Ripke, S., Mattheisen, et al
2019; 9: 14
 - **Quantifying between-cohort and between-sex genetic heterogeneity in major depressive disorder.** *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics*
Trzaskowski, M., Mehta, D., Peyrot, W. J., Hawkes, D., Davies, D., Howard, D. M., Kemper, K. E., Sidorenko, J., Maier, R., Ripke, S., Mattheisen, M., Baune, B. T., Grabe, et al
2019
 - **Genome-wide association analyses of risk tolerance and risky behaviors in over 1 million individuals identify hundreds of loci and shared genetic influences** *NATURE GENETICS*
Linner, R., Biroli, P., Kong, E., Meddens, F. W., Wedow, R., Fontana, M., Lebreton, M., Tino, S. P., Abdellaoui, A., Hammerschlag, A. R., Nivard, M. G., Okbay, A., Rietveld, et al
2019; 51 (2): 245–+
 - **GWAS of Suicide Attempt in Psychiatric Disorders and Association With Major Depression Polygenic Risk Scores.** *The American journal of psychiatry*
Mullins, N. n., Bigdeli, T. B., Børglum, A. D., Coleman, J. R., Demontis, D. n., Mehta, D. n., Power, R. A., Ripke, S. n., Stahl, E. A., Starnawska, A. n., Anjorin, A. n., Corvin, A. n., Sanders, et al
2019: appiajp201918080957
 - **MACHINE LEARNING ANALYSIS OF ULTRA-DEEP WHOLE-GENOME SEQUENCING IN HUMAN BRAIN REVEALS SOMATIC GENOMIC RETROTRANSPOSITION IN GLIA AS WELL AS IN NEURONS**
Urban, A., Zhu, X., Zhou, B., Sloan, S., Pattni, R., Fiston-Lavier, A., Snyder, M., Petrov, D., Abyzov, A., Vaccarino, F., Barres, B., Vogel, H., Tamminga, et al
ELSEVIER.2019: 1240
 - **TRANSETHNIC ANALYSIS OF HIGH-RESOLUTION HLA ALLELES AND COMPLEMENT 4 STRUCTURAL POLYMORPHISMS IN SCHIZOPHRENIA**
Ollila, H., Li, M., Mindrinos, M., Wang, C., Fernandez-Vina, M., Kuehn, R., Krishnakumar, S., Wilhelmy, J., Tsuang, M. T., Glatt, S. J., Mignot, E., Levinson, D. F.
ELSEVIER SCIENCE BV.2019: S937
 - **Evidence for increased genetic risk load for major depression in patients assigned to electroconvulsive therapy** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
Foo, J. C., Streit, F., Frank, J., Witt, S. H., Treutlein, J., Baune, B. T., Moebus, S., Joeckel, K., Forstner, A. J., Nothen, M. M., Rietschel, M., Sartorius, A., Kranaster, et al
2019; 180 (1): 35–45
 - **Genetic Correlation Profile of Schizophrenia Mirrors Epidemiological Results and Suggests Link Between Polygenic and Rare Variant (22q11.2) Cases of Schizophrenia** *SCHIZOPHRENIA BULLETIN*

- Duncan, L. E., Shen, H., Ballon, J. S., Hardy, K. V., Noordsy, D. L., Levinson, D. F.
2018; 44 (6): 1350–61
- **Genome-wide association study of seasonal affective disorder** *TRANSLATIONAL PSYCHIATRY*
Ho, K., Han, S., Nielsen, J. V., Jancic, D., Hing, B., Fiedorowicz, J., Weissman, M. M., Levinson, D. F., Potash, J. B.
2018; 8: 190
 - **1q21.1 microduplication: large verbal-nonverbal performance discrepancy and ddPCR assays of HYDIN/HYDIN2 copy number** *NPJ GENOMIC MEDICINE*
Xavier, J., Zhou, B., Bilan, F., Zhang, X., Gilbert-Dussardier, B., Viaux-Savelon, S., Pattni, R., Ho, S. S., Cohen, D., Levinson, D. F., Urbana, A. E., Laurent-Levinson, C.
2018; 3: 24
 - **Gene discovery and polygenic prediction from a genome-wide association study of educational attainment in 1.1 million individuals** *NATURE GENETICS*
Lee, J. J., Wedow, R., Okbay, A., Kong, E., Maghziyan, O., Zacher, M., Tuan Anh Nguyen-Viet, Bowers, P., Sidorenko, J., Linner, R., Fontana, M., Kundu, T., Lee, C., et al
2018; 50 (8): 1112-+
 - **Does Childhood Trauma Moderate Polygenic Risk for Depression? A Meta-analysis of 5765 Subjects From the Psychiatric Genomics Consortium** *BIOLOGICAL PSYCHIATRY*
Peyrot, W. J., Van der Auwera, S., Milaneschi, Y., Dolan, C. V., Madden, P. A. F., Sullivan, P. F., Strohmaier, J., Ripke, S., Rietschel, M., Nivard, M. G., Mullins, N., Montgomery, G. W., Henders, et al
2018; 84 (2): 138–47
 - **Catatonia in Children and Adolescents: A High Rate of Genetic Conditions** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*
Raffin, M., Consoli, A., Giannitelli, M., Philippe, A., Keren, B., Bodeau, N., Levinson, D. F., Cohen, D., Laurent-Levinson, C.
2018; 57 (7): 518-+
 - **Transdifferentiation of human adult peripheral blood T cells into neurons** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Tanabe, K., Ang, C., Chanda, S., Olmos, V., Haag, D., Levinson, D. F., Sudhof, T. C., Wernig, M.
2018; 115 (25): 6470–75
 - **Transdifferentiation of human adult peripheral blood T cells into neurons.** *Proceedings of the National Academy of Sciences of the United States of America*
Tanabe, K., Ang, C. E., Chanda, S., Olmos, V. H., Haag, D., Levinson, D. F., Sudhof, T. C., Wernig, M.
2018
 - **BUILDING A HIGH RESOLUTION HAPLOTYPE DATABASE FOR 11 HUMAN LEUKOCYTE ANTIGEN LOCI FROM FAMILY TRIOS**
Kountouris, E., Levinson, D., Fernandez-Vina, M. A., Ollila, H., Mignot, E., Tsuang, M., Glatt, S., Li, M., Mindrinos, M.
WILEY.2018: 435–36
 - **Genome-wide association analyses identify 44 risk variants and refine the genetic architecture of major depression** *NATURE GENETICS*
Wray, N. R., Ripke, S., Mattheisen, M., Trzaskowski, M., Byrne, E. M., Abdellaoui, A., Adams, M. J., Agerbo, E., Air, T. M., Andlauer, T. M. F., Bacanu, S., Baekvad-Hansen, M., Beekman, et al
2018; 50 (5): 668-+
 - **Genome-wide gene-environment interaction in depression: A systematic evaluation of candidate genes: The childhood trauma working-group of PGC-MDD** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
Van der Auwera, S., Peyrot, W. J., Milaneschi, Y., Hertel, J., Baune, B., Breen, G., Byrne, E., Dunn, E. C., Fisher, H., Homuth, G., Levinson, D., Lewis, C., Mills, et al
2018; 177 (1): 40–49
 - **Applying polygenic risk scoring for psychiatric disorders to a large family with bipolar disorder and major depressive disorder** *COMMUNICATIONS BIOLOGY*
de Jong, S., Abdalla Diniz, M., Saloma, A., Gadelha, A., Santoro, M. L., Ota, V. K., Noto, C., Curtis, C., Newhouse, S. J., Patel, H., Hall, L. S., O'Reilly, P. F., Belanger, et al
2018; 1: 163
 - **Polygenic Scores for Major Depressive Disorder and Risk of Alcohol Dependence** *JAMA PSYCHIATRY*

Andersen, A. M., Pietrzak, R. H., Kranzler, H. R., Ma, L., Zhou, H., Liu, X., Kramer, J., Kuperman, S., Edenberg, H. J., Nurnberger, J. I., Rice, J. P., Tischfield, J. A., Goate, et al
2017; 74 (11): 1153–60

● **AIM 6-LARGE SCALE WGS OF MULTIPLY AFFECTED PEDIGREES**

Gill, M., Corvin, A., Daly, M., Sullivan, P., Levinson, D.
ELSEVIER SCIENCE BV.2017: S414–S415

● **CLINICALLY RELEVANT GENETIC VARIANTS: MODELS FOR UNDERSTANDING SCHIZOPHRENIA AND OTHER NEUROPSYCHIATRIC DISORDERS DUPLICATIONS AT 15Q11-Q13 IN SCHIZOPHRENIA AND NEURODEVELOPMENTAL DISORDERS**

Kirov, G., Isles, A., Ingason, A., Lowther, C., Walters, J., Bassett, A., Costain, G., Levinson, D., Gawlick, M., Degenhardt, F., Aleksic, B., Ahn, J., Ogilvie, et al
ELSEVIER SCIENCE BV.2017: S277

● **THE SCIENCE OF THE PSYCHIATRIC GENOMICS CONSORTIUM (PART 1)**

Sullivan, P., Levinson, D., Gill, M.
ELSEVIER SCIENCE BV.2017: S359

● **THE SCIENCE OF THE PSYCHIATRIC GENOMICS CONSORTIUM (PART 2)**

Sullivan, P., Smoller, J., Levinson, D.
ELSEVIER SCIENCE BV.2017: S414

● **BRIEF ASSESSMENT OF MAJOR DEPRESSION FOR GENETIC STUDIES: VALIDATION OF CIDI-SF SCREENING WITH SCID INTERVIEWS**

Levinson, D., Potash, J., Mostafavi, S., Battle, A., Zhu, X., Weissman, M.
ELSEVIER SCIENCE BV.2017: S448

● **GENETICS OF MAJOR DEPRESSION: PROBLEMS, HYPOTHESES, SOLUTIONS**

Levinson, D., Lewis, C.
ELSEVIER SCIENCE BV.2017: S118–S119

● **META-ANALYSIS OF WHOLE BLOOD GENE EXPRESSION IN MAJOR DEPRESSION: IDENTIFYING COHERENT GENE NETWORKS**

Mostafavi, S., Jansen, R., Battle, A., Zhu, X., Shi, J., Montgomery, S., Urban, A., Weissman, M., Potash, J., van Grootheest, G., Smit, J., Sullivan, P., Levinson, et al
ELSEVIER SCIENCE BV.2017: S288–S289

● **INSIGHTS INTO THE GENETIC ARCHITECTURE AND MOLECULAR MARKERS OF MAJOR DEPRESSION FROM THE CONVERGE PROJECT**

Kendler, K., Edwards, A., Levinson, D.
ELSEVIER SCIENCE BV.2017: S114

● **An Analysis of Two Genome-wide Association Meta-analyses Identifies a New Locus for Broad Depression Phenotype *BIOLOGICAL PSYCHIATRY***

Direk, N., Williams, S., Smith, J. A., Ripke, S., Air, T., Amare, A. T., Amin, N., Baune, B. T., Bennett, D. A., Blackwood, D. H. R., Boomsma, D., Breen, G., Buttenschon, et al
2017; 82 (5): 322–29

● **Allele-specific expression reveals interactions between genetic variation and environment. *Nature methods***

Knowles, D. A., Davis, J. R., Edgington, H., Raj, A., Favé, M., Zhu, X., Potash, J. B., Weissman, M. M., Shi, J., Levinson, D. F., Awadalla, P., Mostafavi, S., Montgomery, et al
2017

● **An overview of medical risk factors for childhood psychosis: Implications for research and treatment. *Schizophrenia research***

Giannitelli, M., Consoli, A., Raffin, M., Jardri, R., Levinson, D. F., Cohen, D., Laurent-Levinson, C.
2017

● **Genetic effects influencing risk for major depressive disorder in China and Europe *TRANSLATIONAL PSYCHIATRY***

Bigdeli, T. B., Ripke, S., Peterson, R. E., Trzaskowski, M., Bacanu, S., Abdellaoui, A., Andlauer, T. F., Beekman, A. T., Berger, K., Blackwood, D. H., Boomsma, D. I., Breen, G., Buttenschon, et al
2017; 7

● **Genome-wide Association for Major Depression Through Age at Onset Stratification: Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium *BIOLOGICAL PSYCHIATRY***

- Power, R. A., Tansey, K. E., Buttenschon, H. N., Cohen-Woods, S., Bigdeli, T., Hall, L. S., Kutalik, Z., Lee, S. H., Ripke, S., Steinberg, S., Teumer, A., Viktorin, A., Wray, et al
2017; 81 (4): 325-335
- **Contribution of copy number variants to schizophrenia from a genome-wide study of 41,321 subjects** *NATURE GENETICS*
Marshall, C. R., Marshall, C. R., Howrigan, D. P., Merico, D., Thiruvahindrapuram, B., Wu, W., Greer, D. S., Antaki, D., Shetty, A., Holmans, P. A., Pinto, D., Gujral, M., Brandler, et al
2017; 49 (1): 27-35
 - **Genetic Correlation Profile of Schizophrenia Mirrors Epidemiological Results and Suggests Link Between Polygenic and Rare Variant (22q11.2) Cases of Schizophrenia.** *Schizophrenia bulletin*
Duncan, L. E., Shen, H. n., Ballon, J. S., Hardy, K. V., Noordsy, D. L., Levinson, D. F.
2017
 - **Winner's Curse Correction and Variable Thresholding Improve Performance of Polygenic Risk Modeling Based on Genome-Wide Association Study Summary-Level Data** *PLOS GENETICS*
Shi, J., Park, J., Duan, J., Berndt, S. T., Moy, W., Yu, K., Song, L., Wheeler, W., Hua, X., Silverman, D., Garcia-Closas, M., Hsiung, C. A., Figueroa, et al
2016; 12 (12)
 - **Impact of the X Chromosome and sex on regulatory variation** *GENOME RESEARCH*
Kukurba, K. R., Parsana, P., Balliu, B., Smith, K. S., Zappala, Z., Knowles, D. A., Fave, M., Davis, J. R., Li, X., Zhu, X., Potash, J. B., Weissman, M. M., Shi, et al
2016; 26 (6): 768-777
 - **Genome-wide association study identifies 74 loci associated with educational attainment** *NATURE*
Okbay, A., Beauchamp, J. P., Fontana, M. A., Lee, J. J., Pers, T. H., Rietveld, C. A., Turley, P., Chen, G., Emilsson, V., Meddens, S. F., Oskarsson, S., Pickrell, J. K., Thom, et al
2016; 533 (7604): 539-?
 - **Genome-wide Association for Major Depression Through Age at Onset Stratification: Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium.** *Biological psychiatry*
Power, R. A., Tansey, K. E., Buttenschøn, H. N., Cohen-Woods, S., Bigdeli, T., Hall, L. S., Kutalik, Z., Lee, S. H., Ripke, S., Steinberg, S., Teumer, A., Viktorin, A., Wray, et al
2016
 - **Parental Origin of Interstitial Duplications at 15q11.2-q13.3 in Schizophrenia and Neurodevelopmental Disorders** *PLOS GENETICS*
Isles, A. R., Ingason, A., Lowther, C., Walters, J., Gawlick, M., Stoeber, G., Rees, E., Martin, J., Little, R. B., Potter, H., Georgieva, L., Pizzo, L., Ozaki, et al
2016; 12 (5)
 - **NEXT GENERATION SEQUENCING REVEALS HLA GENOMIC AND HAPLOTYPE DIVERSITY IN AN US POPULATION OF NORTHERN EUROPEAN ANCESTRY**
Creary, L. E., Krishnakumar, S., Wang, C., Li, M., Sanchez-Mazas, A., Nunes, J. M., Levinson, D., Mindrinos, M. N., Fernandez-Vina, M. A.
WILEY-BLACKWELL.2016: 298
 - **AN ACCURATE GENOTYPING METHOD FOR HUMAN LEUKOCYTE ANTIGEN BASED ON NEXT GENERATION SEQUENCING TECHNOLOGY**
Li, M., Mindrinos, M., Wang, C., Sargsyan, O., Thorstenson, Y., Babrzaeh, F., Mignot, E., Ollila, H., Vina, M., Levinson, D.
WILEY-BLACKWELL.2016: 280-81
 - **FEASIBILITY OF GENETIC ASSOCIATION STUDIES WITH THE HIGH THROUGHPUT MIA FORA NGS ASSAY**
Wang, C., Li, M., Krishnakumar, S., Sargsyan, O., Gaule, A., Thorstenson, Y., Simonovich, J., Munoz, A., Draina, E., Fukushima, M., Babrzadeh, F., Kuehn, R., Abraham, et al
WILEY-BLACKWELL.2016: 284-85
 - **Polygenic interactions with environmental adversity in the aetiology of major depressive disorder.** *Psychological medicine*
Mullins, N., Power, R. A., Fisher, H. L., Hanscombe, K. B., Euesden, J., Iniesta, R., Levinson, D. F., Weissman, M. M., Potash, J. B., Shi, J., Uher, R., Cohen-Woods, S., Rivera, et al
2016; 46 (4): 759-770

- **NEXT GENERATION SEQUENCING REVEALS HLA GENOMIC AND HAPLOTYPE DIVERSITY IN US POPULATIONS OF EUROPEAN AND AFRICAN ANCESTRY**
Creary, L. E., Krishnakumar, S., Wang, C., Li, M., Sanchez-Mazas, A., Nunes, J. M., Levinson, D. F., Mindrinos, M. N., Fernandez-Vina, M. A.
ELSEVIER SCIENCE INC.2016: 70
- **VALIDATION OF GENOTYPING METHOD FOR HUMAN LEUKOCYTE ANTIGEN BASED ON NEXT GENERATION SEQUENCING TECHNOLOGY**
Li, M., Mindrinos, M., Wang, C., Drainas, E., Babrzadeh, F., Vina, M., Mignot, E., Ollila, H., Levinson, D.
ELSEVIER SCIENCE INC.2016: 118
- **The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study.** *PLoS genetics*
Winkler, T. W., Justice, A. E., Graff, M., Barata, L., Feitosa, M. F., Chu, S., Czajkowski, J., Esko, T., Fall, T., Kilpeläinen, T. O., Lu, Y., Mägi, R., Mihailov, et al
2015; 11 (10)
- **EIF3G is associated with narcolepsy across ethnicities** *EUROPEAN JOURNAL OF HUMAN GENETICS*
Holm, A., Lin, L., Faraco, J., Mostafavi, S., Battle, A., Zhu, X., Levinson, D. F., Han, F., Gammeltoft, S., Jennum, P., Mignot, E., Kornum, B. R.
2015; 23 (11): 1573-1580
- **The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study** *PLOS GENETICS*
Winkler, T. W., Justice, A. E., Graff, M., Barata, L., Feitosa, M. F., Chu, S., Czajkowski, J., Esko, T., Fall, T., Kilpeläinen, T. O., Lu, Y., Magi, R., Mihailov, et al
2015; 11 (10)
- **Genetic Differences in the Immediate Transcriptome Response to Stress Predict Risk-Related Brain Function and Psychiatric Disorders** *NEURON*
Arlath, J., Bogdan, R., Weber, P., Frishman, G., Menke, A., Wagner, K. V., Balsevich, G., Schmidt, M. V., Karbalai, N., Czamara, D., Altmann, A., Truembach, D., Wurst, et al
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