

William L Lowe Jr

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

4,687
citations

117625

34
h-index

118850

62
g-index

68
all docs

68
docs citations

68
times ranked

8195
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Genome-wide associations for birth weight and correlations with adult disease. <i>Nature</i> , 2016, 538, 248-252. | 27.8 | 406 |
| 2 | Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. <i>Nature Genetics</i> , 2019, 51, 804-814. | 21.4 | 402 |
| 3 | Association of Gestational Diabetes With Maternal Disorders of Glucose Metabolism and Childhood Adiposity. <i>JAMA - Journal of the American Medical Association</i> , 2018, 320, 1005. | 7.4 | 362 |
| 4 | Hyperglycemia and Adverse Pregnancy Outcome Follow-up Study (HAPO FUS): Maternal Gestational Diabetes Mellitus and Childhood Glucose Metabolism. <i>Diabetes Care</i> , 2019, 42, 372-380. | 8.6 | 313 |
| 5 | Genetic Evidence for Causal Relationships Between Maternal Obesity-Related Traits and Birth Weight. <i>JAMA - Journal of the American Medical Association</i> , 2016, 315, 1129. | 7.4 | 220 |
| 6 | Meta-Analysis of Genome-Wide Association Studies in African Americans Provides Insights into the Genetic Architecture of Type 2 Diabetes. <i>PLoS Genetics</i> , 2014, 10, e1004517. | 3.5 | 191 |
| 7 | Hyperglycemia and Adverse Pregnancy Outcome Follow-up Study (HAPO FUS): Maternal Glycemia and Childhood Glucose Metabolism. <i>Diabetes Care</i> , 2019, 42, 381-392. | 8.6 | 169 |
| 8 | Maternal glucose levels during pregnancy and childhood adiposity in the Hyperglycemia and Adverse Pregnancy Outcome Follow-up Study. <i>Diabetologia</i> , 2019, 62, 598-610. | 6.3 | 161 |
| 9 | Genome-wide association study of offspring birth weight in 86,577 women identifies five novel loci and highlights maternal genetic effects that are independent of fetal genetics. <i>Human Molecular Genetics</i> , 2018, 27, 742-756. | 2.9 | 156 |
| 10 | Identification of <i>HKDC1</i> and <i>BACE2</i> as Genes Influencing Glycemic Traits During Pregnancy Through Genome-Wide Association Studies. <i>Diabetes</i> , 2013, 62, 3282-3291. | 0.6 | 119 |
| 11 | New Insights Into Gestational Glucose Metabolism: Lessons Learned From 21st Century Approaches. <i>Diabetes</i> , 2015, 64, 327-334. | 0.6 | 114 |
| 12 | A novel common variant in <i>DCST2</i> is associated with length in early life and height in adulthood. <i>Human Molecular Genetics</i> , 2015, 24, 1155-1168. | 2.9 | 109 |
| 13 | Metabolomics Reveals Broad-Scale Metabolic Perturbations in Hyperglycemic Mothers During Pregnancy. <i>Diabetes Care</i> , 2014, 37, 158-166. | 8.6 | 103 |
| 14 | Characterization of Large Structural Genetic Mosaicism in Human Autosomes. <i>American Journal of Human Genetics</i> , 2015, 96, 487-497. | 6.2 | 101 |
| 15 | Massively parallel quantification of the regulatory effects of noncoding genetic variation in a human cohort. <i>Genome Research</i> , 2015, 25, 1206-1214. | 5.5 | 100 |
| 16 | Hyperglycemia and Adverse Pregnancy Outcome (HAPO) Study: Common Genetic Variants in <i>GCK</i> and <i>TCF7L2</i> Are Associated With Fasting and Postchallenge Glucose Levels in Pregnancy and With the New Consensus Definition of Gestational Diabetes Mellitus From the International Association of Diabetes and Pregnancy Study Groups. <i>Diabetes</i> , 2010, 59, 2682-2689. | 0.6 | 95 |
| 17 | Accumulation of cadmium in insulin-producing β^2 cells. <i>Islets</i> , 2012, 4, 405-416. | 1.8 | 93 |
| 18 | Coordinated regulatory variation associated with gestational hyperglycaemia regulates expression of the novel hexokinase <i>HKDC1</i> . <i>Nature Communications</i> , 2015, 6, 6069. | 12.8 | 83 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Transversions have larger regulatory effects than transitions. <i>BMC Genomics</i> , 2017, 18, 394. | 2.8 | 83 |
| 20 | Genomic approaches for understanding the genetics of complex disease. <i>Genome Research</i> , 2015, 25, 1432-1441. | 5.5 | 75 |
| 21 | Maternal BMI and Glycemia Impact the Fetal Metabolome. <i>Diabetes Care</i> , 2017, 40, 902-910. | 8.6 | 74 |
| 22 | Associations of maternal BMI and insulin resistance with the maternal metabolome and newborn outcomes. <i>Diabetologia</i> , 2017, 60, 518-530. | 6.3 | 71 |
| 23 | Genetics of Gestational Diabetes Mellitus and Maternal Metabolism. <i>Current Diabetes Reports</i> , 2016, 16, 15. | 4.2 | 70 |
| 24 | Associations of Maternal Cardiovascular Health in Pregnancy With Offspring Cardiovascular Health in Early Adolescence. <i>JAMA - Journal of the American Medical Association</i> , 2021, 325, 658. | 7.4 | 62 |
| 25 | HKDC1 Is a Novel Hexokinase Involved in Whole-Body Glucose Use. <i>Endocrinology</i> , 2016, 157, 3452-3461. | 2.8 | 58 |
| 26 | The short-chain fatty acid receptor, FFA2, contributes to gestational glucose homeostasis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E840-E851. | 3.5 | 57 |
| 27 | Trans-ethnic Meta-analysis and Functional Annotation Illuminates the Genetic Architecture of Fasting Glucose and Insulin. <i>American Journal of Human Genetics</i> , 2016, 99, 56-75. | 6.2 | 55 |
| 28 | Body Composition Measurements from Birth through 5 Years: Challenges, Gaps, and Existing & Emerging Technologies—A National Institutes of Health workshop. <i>Obesity Reviews</i> , 2020, 21, e13033. | 6.5 | 51 |
| 29 | Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth. <i>Diabetes</i> , 2016, 65, 2039-2050. | 0.6 | 49 |
| 30 | Variants in the fetal genome near pro-inflammatory cytokine genes on 2q13 associate with gestational duration. <i>Nature Communications</i> , 2019, 10, 3927. | 12.8 | 49 |
| 31 | Estrogen Stimulates Delayed Mitogen-Activated Protein Kinase Activity in Human Endothelial Cells via an Autocrine Loop That Involves Basic Fibroblast Growth Factor. <i>Circulation</i> , 1998, 98, 413-421. | 1.6 | 43 |
| 32 | Maternal metabolites during pregnancy are associated with newborn outcomes and hyperinsulinaemia across ancestries. <i>Diabetologia</i> , 2019, 62, 473-484. | 6.3 | 43 |
| 33 | Targeted Metabolomics Demonstrates Distinct and Overlapping Maternal Metabolites Associated With BMI, Glucose, and Insulin Sensitivity During Pregnancy Across Four Ancestry Groups. <i>Diabetes Care</i> , 2017, 40, 911-919. | 8.6 | 38 |
| 34 | Fetal Genotype and Maternal Glucose Have Independent and Additive Effects on Birth Weight. <i>Diabetes</i> , 2018, 67, 1024-1029. | 0.6 | 38 |
| 35 | Mixture model normalization for non-targeted gas chromatography/mass spectrometry metabolomics data. <i>BMC Bioinformatics</i> , 2017, 18, 84. | 2.6 | 37 |
| 36 | G Protein Coupled Receptors in Embryonic Stem Cells: A Role for Gs-Alpha Signaling. <i>PLoS ONE</i> , 2010, 5, e9105. | 2.5 | 37 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | The chromosome 3q25 genomic region is associated with measures of adiposity in newborns in a multi-ethnic genome-wide association study. <i>Human Molecular Genetics</i> , 2013, 22, 3583-3596. | 2.9 | 35 |
| 38 | The Joint Associations of Maternal BMI and Glycemia with Childhood Adiposity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 2177-2188. | 3.6 | 35 |
| 39 | Pandemic-related barriers to the success of women in research: a framework for action. <i>Nature Medicine</i> , 2022, 28, 436-438. | 30.7 | 35 |
| 40 | Newborn Adiposity and Cord Blood C-Peptide as Mediators of the Maternal Metabolic Environment and Childhood Adiposity. <i>Diabetes Care</i> , 2021, 44, 1194-1202. | 8.6 | 33 |
| 41 | Genetic Determinants of Glycemic Traits and the Risk of Gestational Diabetes Mellitus. <i>Diabetes</i> , 2018, 67, 2703-2709. | 0.6 | 30 |
| 42 | Cord Blood Metabolomics: Association With Newborn Anthropometrics and C-Peptide Across Ancestries. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 4459-4472. | 3.6 | 30 |
| 43 | Associations of gestational cardiovascular health with pregnancy outcomes: the Hyperglycemia and Adverse Pregnancy Outcome study. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 224, 210.e1-210.e17. | 1.3 | 23 |
| 44 | Metabomxtr: an R package for mixture-model analysis of non-targeted metabolomics data. <i>Bioinformatics</i> , 2014, 30, 3287-3288. | 4.1 | 21 |
| 45 | Metabolomic and genetic associations with insulin resistance in pregnancy. <i>Diabetologia</i> , 2020, 63, 1783-1795. | 6.3 | 21 |
| 46 | The Role of Inflammatory Pathway Genetic Variation on Maternal Metabolic Phenotypes during Pregnancy. <i>PLoS ONE</i> , 2012, 7, e32958. | 2.5 | 20 |
| 47 | Genetic Risk Score for Prediction of Newborn Adiposity and Large-for-Gestational-Age Birth. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E2377-E2386. | 3.6 | 19 |
| 48 | “Prediction Is Very Hard, Especially About the Future”: New Biomarkers for Type 2 Diabetes?. <i>Diabetes</i> , 2013, 62, 1384-1385. | 0.6 | 17 |
| 49 | Maternal Metabolites Associated With Gestational Diabetes Mellitus and a Postpartum Disorder of Glucose Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 3283-3294. | 3.6 | 15 |
| 50 | Hyperglycemia and Adverse Pregnancy Outcome Follow-Up Study: newborn anthropometrics and childhood glucose metabolism. <i>Diabetologia</i> , 2021, 64, 561-570. | 6.3 | 11 |
| 51 | Genetic determinants of adiponectin regulation revealed by pregnancy. <i>Obesity</i> , 2017, 25, 935-944. | 3.0 | 10 |
| 52 | Genetic Loci and Physiologic Pathways Involved in Gestational Diabetes Mellitus Implicated Through Clustering. <i>Diabetes</i> , 2021, 70, 268-281. | 0.6 | 10 |
| 53 | Higher maternal adiposity reduces offspring birthweight if associated with a metabolically favourable profile. <i>Diabetologia</i> , 2021, 64, 2790-2802. | 6.3 | 9 |
| 54 | Maternal and Neonatal 3-epi-25-hydroxyvitamin D Concentration and Factors Influencing Their Concentrations. <i>Journal of the Endocrine Society</i> , 2022, 6, bvab170. | 0.2 | 6 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | “The Matrix Unloaded” Implications for Cytokine Signaling in Islets?. <i>Endocrinology</i> , 2003, 144, 4262-4263. | 2.8 | 4 |
| 56 | SAT-124 Hyperglycemia and Adverse Pregnancy Outcome Follow-Up Study (HAPO FUS): Newborn Anthropometrics and Childhood Glucose Metabolism. <i>Journal of the Endocrine Society</i> , 2019, 3, . | 0.2 | 4 |
| 57 | Associations of glycemia and lipid levels in pregnancy with dyslipidemia 10–14 years later: The HAPO follow-up study. <i>Diabetes Research and Clinical Practice</i> , 2022, 185, 109790. | 2.8 | 3 |
| 58 | Association of glucose metabolism and blood pressure during pregnancy with subsequent maternal blood pressure. <i>Journal of Human Hypertension</i> , 2021, , . | 2.2 | 2 |
| 59 | All thresholds of maternal hyperglycaemia from the WHO 2013 criteria for gestational diabetes identify women with a higher genetic risk for type 2 diabetes. <i>Wellcome Open Research</i> , 2020, 5, 175. | 1.8 | 2 |
| 60 | Path-level interpretation of Gaussian graphical models using the pair-path subscore. <i>BMC Bioinformatics</i> , 2022, 23, 12. | 2.6 | 2 |
| 61 | All thresholds of maternal hyperglycaemia from the WHO 2013 criteria for gestational diabetes identify women with a higher genetic risk for type 2 diabetes. <i>Wellcome Open Research</i> , 2020, 5, 175. | 1.8 | 1 |
| 62 | Vitamin D Levels During Pregnancy Are Associated With Offspring Telomere Length: A Longitudinal Mother-Child Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e3901-e3909. | 3.6 | 1 |
| 63 | Network Approaches to Integrate Analyses of Genetics and Metabolomics Data with Applications to Fetal Programming Studies. <i>Metabolites</i> , 2022, 12, 512. | 2.9 | 1 |
| 64 | Gestational Diabetes and Childhood Obesity—Reply. <i>JAMA - Journal of the American Medical Association</i> , 2019, 321, 708. | 7.4 | 0 |
| 65 | Bayesian estimation of genetic regulatory effects in high-throughput reporter assays. <i>Bioinformatics</i> , 2020, 36, 331-338. | 4.1 | 0 |
| 66 | All thresholds of maternal hyperglycaemia from the WHO 2013 criteria for gestational diabetes identify women with a higher genetic risk for type 2 diabetes. <i>Wellcome Open Research</i> , 0, 5, 175. | 1.8 | 0 |