RESEARCH & PUBLICATIONS

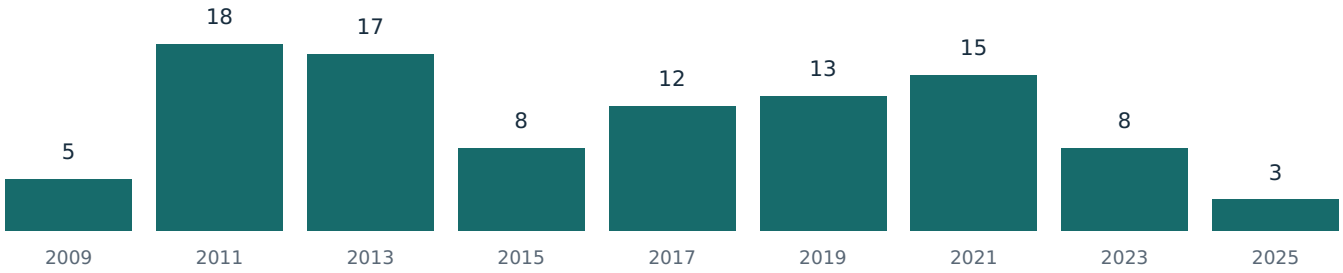
Jane F. Ferguson

A publication record at a glance

99	37,623	44
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

Heart Disease and Stroke Statistics—2019 Update: A Report From the American Heart Association — 8,045

2019 Circulation

Heart Disease and Stroke Statistics—2020 Update: A Report From the American Heart Association — 7,465

2020 Circulation

Heart Disease and Stroke Statistics—2018 Update: A Report From the American Heart Association — 6,081

2018 Circulation

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Ordered by publication year, newest first

2026

01 The Response of Alpha-Aminoadipic Acid (2-AAA) to Short Term Lysine Ingestion in Healthy Individuals

0 citations

Endocrinology, Diabetes and Metabolism · 9, e70168

https://exaly.com/article/210726287

02 Dietary Sodium Intake and Risk of Incident Heart Failure in the Southern Community Cohort Study.

0 citations

JACC: Advances · 5, 102651

https://exaly.com/article/211581157

2025

03 The Primacy of Adipose Tissue Gene Expression and Plasma Lipidome in Cardiometabolic Disease in Persons With HIV

7 citations

Journal of Infectious Diseases · 231, e407-e418

https://exaly.com/article/195519817

2024

04 Identification of Clinical Drivers of Left Atrial Enlargement Through Genomics of Left Atrial Size

7 citations

Circulation: Heart Failure · 17, e010557

https://exaly.com/article/174131063

05 Branched-Chain Amino Acids and Type 2 Diabetes: A Bidirectional Mendelian Randomization Analysis

20 citations

Obesity · 32, 423-435

https://exaly.com/article/175634970

06 Genotype-Based “Virtual” Metabolomics in a Clinical Biobank Identifies Novel Metabolite-Disease Associations

4 citations

Frontiers in Genetics · 15, 1392622

https://exaly.com/article/185612910

07 Characterization of the Plasma Metabolome and Lipidome in Response to Sleeve Gastrectomy and Gastric Bypass Surgeries Reveals Molecular Patterns of Surgical Weight Loss

15 citations

Metabolism: Clinical and Experimental · 158, 155955

https://exaly.com/article/186983049

Ordered by publication year, newest first

2023

08 **Sex Differences in Fatty Acid Metabolism and Blood Pressure Response to Dietary Salt in Humans**
5 citations
Neurology International · 13, 33-46
https://exaly.com/article/161310306

09 **Gut Microbiota and Microbial Metabolism in Early Risk of Cardiometabolic Disease**
48 citations
Circulation Research · 132, 1674-1691
https://exaly.com/article/163693518

10 **Genetics of Pulmonary Pressure and Right Ventricle Stress Identify Diabetes as a Causal Risk Factor**
10 citations
Journal of the American Heart Association · 12, e029190
https://exaly.com/article/166841489

11 **Association of Alpha-Aminoadipic Acid With Cardiometabolic Risk Factors in Healthy and High-Risk Individuals**
20 citations
Frontiers in Endocrinology · 14, 1122391
https://exaly.com/article/169647420

2022

12 **Heart Disease and Stroke Statistics—2022 Update: A Report From the American Heart Association**
5,110 citations
Circulation · 145, e153-e639
https://exaly.com/article/124985747

13 **Obesity Influences Composition of Salivary and Fecal Microbiota and Impacts the Interactions Between Bacterial Taxa**
43 citations
Physiological Reports · 10, e15254
https://exaly.com/article/135009925

14 **Genetic Architecture of Plasma Alpha-Aminoadipic Acid Reveals a Relationship With High-Density Lipoprotein Cholesterol**
17 citations
Journal of the American Heart Association · 11, e024388
https://exaly.com/article/146200115

15 **Microbiome-Associated Human Genetic Variants Impact Phenome-Wide Disease Risk**
21 citations
Proceedings of the National Academy of Sciences of the United States of America · 119, e2200551119
https://exaly.com/article/148471022

16 **Individuality and Ethnicity Eclipse a Short-Term Dietary Intervention in Shaping Microbiomes and Viromes**
22 citations
PLoS Biology · 20, e3001758
https://exaly.com/article/150293374

Ordered by publication year, newest first

2021

17 **Heart Disease and Stroke Statistics—2021 Update**
Circulation · 143, e254-e743
https://exaly.com/article/79083744
5,343 citations

18 **Hepatic Steatosis and Ectopic Fat Are Associated With Differences in Subcutaneous Adipose Tissue Gene Expression in People With HIV**
Hepatology Communications · 5, 1224
https://exaly.com/article/79191596
13 citations

19 **Gut Microbiota-Derived Short-Chain Fatty Acids Facilitate Microbiota:Host Cross Talk and Modulate Obesity and Hypertension**
Current Hypertension Reports · 23, 1-10
https://exaly.com/article/79308602
142 citations

20 **Genome-Wide Analysis Identifies Novel Susceptibility Loci for Myocardial Infarction**
European Heart Journal · 42, 919-933
https://exaly.com/article/79315096
227 citations

21 **Genetic Thyrotropin Regulation of Atrial Fibrillation Risk Is Mediated Through an Effect on Height.**
Journal of Clinical Endocrinology and Metabolism · 106, 2124-2132
https://exaly.com/article/79909941
12 citations

22 **A Metabolome and Microbiome Wide Association Study of Healthy Eating Index Points to the Mechanisms Linking Dietary Pattern and Metabolic Status**
European Journal of Nutrition · 60, 4413-4427
https://exaly.com/article/80603562
15 citations

23 **New-Onset Vegetarian Diet Shows Differences in Fatty Acid Metabolites in European American and African American Women**
Nutrition, Metabolism and Cardiovascular Diseases · 31, 2436-2448
https://exaly.com/article/81341771
9 citations

24 **Knock-Out of DHTKD1 Alters Mitochondrial Respiration and Function, and May Represent a Novel Pathway in Cardiometabolic Disease Risk**
Frontiers in Endocrinology · 12, 710698
https://exaly.com/article/81802052
17 citations

25 **The Genetic Architecture of Plasma Kynurenine Includes Cardiometabolic Disease Mechanisms Associated With the SH2B3 Gene**
Scientific Reports · 11, 1-10
https://exaly.com/article/81956921
7 citations

Ordered by publication year, newest first

2021 / continued

26 **A Microbial Metabolite Linked to Fat Accumulation** — 0 citations

Nature Metabolism · 3, 1594-1595

https://exaly.com/article/135337079

2020

27 **The Gut Microbiome, Inflammation, and Salt-Sensitive Hypertension** — 84 citations

Current Hypertension Reports · 22, 1-5

https://exaly.com/article/76129887

28 **Soy Food Intake Associates With Changes in the Metabolome and Reduced Blood Pressure in a Gut Microbiota Dependent Manner** — 28 citations

Nutrition, Metabolism and Cardiovascular Diseases · 30, 1500-1511

https://exaly.com/article/76813703

29 **Inflammation and Circulating Natriuretic Peptide Levels** — 98 citations

Circulation: Heart Failure · 13, e006570

https://exaly.com/article/76867556

30 **Maternal Microbial Molecules Affect Offspring Health** — 21 citations

Science · 367, 978-979

https://exaly.com/article/77244456

31 **Heart Disease and Stroke Statistics—2020 Update: A Report From the American Heart Association** — 7,465 citations

Circulation · 141, e139-e596

https://exaly.com/article/77423910

32 **Metabolomics Reveals the Impact of Type 2 Diabetes on Local Muscle and Vascular Responses to Ischemic Stress** — 12 citations

Clinical Science · 134, 2369-2379

https://exaly.com/article/84880778

2019

33 **Metabolite Profiles of Incident Diabetes and Heterogeneity of Treatment Effect in the Diabetes Prevention Program** — 26 citations

Diabetes · 68, 2337-2349

https://exaly.com/article/72411122

34 **Gut Microbiome and Response to Cardiovascular Drugs** — 111 citations

Circulation Genomic and Precision Medicine · 12, 421-429

https://exaly.com/article/72621916

Ordered by publication year, newest first

2019 / continued

35 Heart Disease and Stroke Statistics—2019 Update: A Report From the American Heart Association
8,045 citations
Circulation · 139, e56-e528
https://exaly.com/article/72851417

36 Multi-Omic Analysis of the Microbiome and Metabolome in Healthy Subjects Reveals Microbiome-Dependent Relationships Between Diet and Metabolites
129 citations
Frontiers in Genetics · 10, 451177
https://exaly.com/article/73200450

37 Accelerating Biomarker Discovery Through Electronic Health Records, Automated Biobanking, and Proteomics
52 citations
Journal of the American College of Cardiology · 73, 2195-2205
https://exaly.com/article/73314166

38 Omega-3 Polyunsaturated Fatty Acids Attenuate Inflammatory Activation and Alter Differentiation in Human Adipocytes
45 citations
Journal of Nutritional Biochemistry · 64, 45-49
https://exaly.com/article/74742415

39 High Dietary Salt–Induced DC Activation Underlies Microbial Dysbiosis-Associated Hypertension
176 citations
JCI Insight
https://exaly.com/article/86343135

2018

40 Heart Disease and Stroke Statistics—2018 Update: A Report From the American Heart Association
6,081 citations
Circulation · 137, e67-e492
https://exaly.com/article/69062785

41 Tissue-Specific Differential Expression of Novel Genes and Long Intergenic Noncoding RNAs in Humans With Extreme Response to Evoked Endotoxemia
6 citations
Circulation Genomic and Precision Medicine · 11, e001907
https://exaly.com/article/70485305

42 Development of the Gut Microbiome in Children, and Lifetime Implications for Obesity and Cardiometabolic Disease
75 citations
Children · 5, 160
https://exaly.com/article/70586566

43 Probing the Virtual Proteome to Identify Novel Disease Biomarkers
47 citations
Circulation · 138, 2469-2481
https://exaly.com/article/70748552

Ordered by publication year, newest first

2018 / continued

44 Interdisciplinary Models for Research and Clinical Endeavors in Genomic Medicine: A Scientific Statement From the American Heart Association — 14 citations

Circulation Genomic and Precision Medicine · 11, e000046

https://exaly.com/article/70803491

45 Relationship Between Very Low Low-Density Lipoprotein Cholesterol Concentrations Not Due to Statin Therapy and Risk of Type 2 Diabetes: A US-Based Cross-Sectional Observational Study Using Electronic Health Records — 37 citations

PLoS Medicine · 15, e1002642

https://exaly.com/article/70975430

46 Acute Effects of Insulin on Circulating Natriuretic Peptide Levels in Humans — 14 citations

PLoS ONE · 13, e0196869

https://exaly.com/article/71632711

47 Interrogation of Nonconserved Human Adipose lincRNAs Identifies a Regulatory Role of Linc-ADAL in Adipocyte Metabolism — 56 citations

Science Translational Medicine

https://exaly.com/article/71774447

2017

48 De Novo RNA Sequence Assembly During in Vivo Inflammatory Stress Reveals Hundreds of Unannotated lincRNAs in Human Blood CD14+ Monocytes and in Adipose Tissue — 10 citations

Physiological Genomics · 49, 287-305

https://exaly.com/article/66170400

49 Loss of Cardioprotective Effects at the ADAMTS7 Locus as a Result of Gene-Smoking Interactions — 53 citations

Circulation · 135, 2336-2353

https://exaly.com/article/66292742

50 Synergistic Modulation of Inflammatory but Not Metabolic Effects of High-Fat Feeding by CCR2 and CX3CR1 — 10 citations

Obesity · 25, 1410-1420

https://exaly.com/article/67490046

51 Expression of Calgranulin Genes S100A8, S100A9 and S100A12 Is Modulated by n-3 PUFA During Inflammation in Adipose Tissue and Mononuclear Cells — 27 citations

PLoS ONE · 12, e0169614

https://exaly.com/article/68456790

Ordered by publication year, newest first

2016

52 **Adipose Tissue RNASeq Reveals Novel Gene–Nutrient Interactions Following n-3 PUFA Supplementation and Evoked Inflammation in Humans**

26 citations

Journal of Nutritional Biochemistry · 30, 126-132

https://exaly.com/article/64061018

53 **Nutrigenomics, the Microbiome, and Gene-Environment Interactions: New Directions in Cardiovascular Disease Research, Prevention, and Treatment**

125 citations

Circulation: Cardiovascular Genetics · 9, 291-313

https://exaly.com/article/64091010

54 **Sedentary Behavior and Cardiovascular Morbidity and Mortality: A Science Advisory From the American Heart Association**

644 citations

Circulation · 134, e262-79

https://exaly.com/article/64504086

55 **Branched-Chain Amino Acids and Cardiovascular Disease: Does Diet Matter?**

20 citations

Clinical Chemistry · 62, 545-547

https://exaly.com/article/65595828

2015

56 **Activation of Innate Immunity Modulates Insulin Sensitivity, Glucose Effectiveness and Pancreatic β-Cell Function in Both African Ancestry and European Ancestry Healthy Humans**

14 citations

Metabolism: Clinical and Experimental · 64, 513-520

https://exaly.com/article/62143397

57 **Human Experimental Endotoxemia in Modeling the Pathophysiology, Genomics, and Therapeutics of Innate Immunity in Complex Cardiometabolic Diseases**

49 citations

Arteriosclerosis, Thrombosis, and Vascular Biology · 35, 525-34

https://exaly.com/article/62252910

58 **Bioactive Products Formed in Humans From Fish oils1**

102 citations

Journal of Lipid Research · 56, 1808-1820

https://exaly.com/article/62493364

59 **Integrative Genomics Identifies 7p11.2 as a Novel Locus for Fever and Clinical Stress Response in Humans.**

18 citations

Human Molecular Genetics · 24, 1801-12

https://exaly.com/article/62507580

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2014

60 **Tissue-Specific RNA-Seq in Human Evoked Inflammation Identifies Blood and Adipose LincRNA Signatures of Cardiometabolic Diseases**
68 citations
Arteriosclerosis, Thrombosis, and Vascular Biology · 34, 902-12
https://exaly.com/article/57780377

61 **A Functional Synonymous Coding Variant in the IL1RN Gene Is Associated With Survival in Septic Shock**
49 citations
American Journal of Respiratory and Critical Care Medicine · 190, 656-64
https://exaly.com/article/57789940

62 **PennSeq: Accurate Isoform-Specific Gene Expression Quantification in RNA-Seq by Modeling Non-Uniform Read Distribution.**
35 citations
Nucleic Acids Research · 42, e20
https://exaly.com/article/58450123

63 **PCSK9 Is a Critical Regulator of the Innate Immune Response and Septic Shock Outcome**
337 citations
Science Translational Medicine · 6, 258ra143
https://exaly.com/article/58496989

64 **Impact of Geographical Region on Urinary Metabolomic and Plasma Fatty Acid Profiles in Subjects With the Metabolic Syndrome Across Europe: The LIPGENE Study**
20 citations
British Journal of Nutrition · 111, 424-431
https://exaly.com/article/58514726

65 **Differential Associations of Oral Glucose Tolerance Test–Derived Measures of Insulin Sensitivity and Pancreatic β-Cell Function With Coronary Artery Calcification and Microalbuminuria in Type 2 Diabetes**
18 citations
Diabetes Care · 37, 124-133
https://exaly.com/article/59245468

66 **Omega-3 PUFA Supplementation and the Response to Evoked Endotoxemia in Healthy Volunteers**
45 citations
Molecular Nutrition and Food Research · 58, 601-613
https://exaly.com/article/59327983

67 **Very Low Density Lipoprotein Cholesterol Associates With Coronary Artery Calcification in Type 2 Diabetes Beyond Circulating Levels of Triglycerides**
53 citations
Atherosclerosis · 236, 244-250
https://exaly.com/article/59352119

Ordered by publication year, newest first

2014 / continued

68 **Insulin Sensitivity Index in Type 1 Diabetes and Following Human Islet Transplantation: Comparison of the Minimal Model to Euglycemic Clamp Measures**
15 citations
American Journal of Physiology - Endocrinology and Metabolism · 306, E1217-24
https://exaly.com/article/59405161

69 **Dietary Isoflavone Intake Is Associated With Evoked Responses to Inflammatory Cardiometabolic Stimuli and Improved Glucose Homeostasis in Healthy Volunteers**
31 citations
Nutrition, Metabolism and Cardiovascular Diseases · 24, 996-1003
https://exaly.com/article/59626028

2013

70 **Race and Gender Variation in Response to Evoked Inflammation**
100 citations
Journal of Translational Medicine · 11, 1-9
https://exaly.com/article/54755663

71 **Improvement in Insulin Sensitivity After Human Islet Transplantation for Type 1 Diabetes.**
31 citations
Journal of Clinical Endocrinology and Metabolism · 98, E1780-5
https://exaly.com/article/55086482

72 **Genetics of Coronary Artery Calcification Among African Americans, a Meta-Analysis**
75 citations
BMC Medical Genetics · 14, 1-13
https://exaly.com/article/55217106

73 **Candidate Gene Association Study of Coronary Artery Calcification in Chronic Kidney Disease: Findings From the CRIC Study (Chronic Renal Insufficiency Cohort)**
47 citations
Journal of the American College of Cardiology · 62, 789-798
https://exaly.com/article/55561012

74 **Meat-Loving Microbes**
7 citations
Circulation: Cardiovascular Genetics · 6, 308-9
https://exaly.com/article/56436258

75 **Mixed Modeling of Meta-Analysis P-Values (MixMAP) Suggests Multiple Novel Gene Loci for Low Density Lipoprotein Cholesterol**
8 citations
PLoS ONE · 8, e54812
https://exaly.com/article/57192849

76 **Evaluating the Impact of Sequencing Depth on Transcriptome Profiling in Human Adipose**
63 citations
PLoS ONE · 8, e66883
https://exaly.com/article/57198937

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2012

77 **Omics Gets Personal** — 4 citations
Circulation: Cardiovascular Genetics · 5, 381-2
https://exaly.com/article/52378794

78 **Peroxisome Proliferator–Activated Receptor-α Agonism With Fenofibrate Does Not Suppress Inflammatory Responses to Evoked Endotoxemia** — 13 citations
Journal of the American Heart Association · 1, e002923
https://exaly.com/article/52419555

79 **Increasing Power** — 0 citations
Circulation: Cardiovascular Genetics · 5, 595-6
https://exaly.com/article/52737124

80 **A Human Model of Inflammatory Cardio-Metabolic Dysfunction; A Double Blind Placebo-Controlled Crossover Trial** — 41 citations
Journal of Translational Medicine · 10, 1-10
https://exaly.com/article/53154716

81 **Genetic Determinants of the Ankle-Brachial Index: A Meta-Analysis of a Cardiovascular Candidate Gene 50K SNP Panel in the Candidate Gene Association Resource (CARe) Consortium** — 36 citations
Atherosclerosis · 222, 138-147
https://exaly.com/article/53234829

82 **Differential Relations of Baseline and Endotoxin-Induced Serum Amyloid a Levels in Humans** — 0 citations
Journal of the American College of Cardiology · 59, E1780
https://exaly.com/article/53327853

83 **Translational Studies of Lipoprotein-Associated Phospholipase A2 in Inflammation and Atherosclerosis.** — 51 citations
Journal of the American College of Cardiology · 59, 764-72
https://exaly.com/article/53799470

84 **Docosahexaenoic Acid Attenuates Macrophage-Induced Inflammation and Improves Insulin Sensitivity in Adipocytes-Specific Differential Effects Between LC n-3 PUFA** — 129 citations
Journal of Nutritional Biochemistry · 23, 1192-1200
https://exaly.com/article/53872260

85 **A Genome-Wide Association Study for Coronary Artery Disease Identifies a Novel Susceptibility Locus in the Major Histocompatibility Complex** — 112 citations
Circulation: Cardiovascular Genetics · 5, 217-25
https://exaly.com/article/54310336

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2012 / continued

86 **Top Advances in Functional Genomics and Translational Biology for 2011**
Circulation: Cardiovascular Genetics · 5, 143-5
https://exaly.com/article/54348828
0 citations

87 **Large-Scale Gene-Centric Meta-Analysis Across 39 Studies Identifies Type 2 Diabetes Loci**
American Journal of Human Genetics · 90, 410-425
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245 citations

2011

88 **Fractalkine Is a Novel Human Adipochemokine Associated With Type 2 Diabetes**
Diabetes · 60, 1512-1518
https://exaly.com/article/49883440
161 citations

89 **Calpain-10 Interacts With Plasma Saturated Fatty Acid Concentrations to Influence Insulin Resistance in Individuals With the Metabolic Syndrome.**
American Journal of Clinical Nutrition · 93, 1136-41
https://exaly.com/article/50140057
27 citations

90 **Genetic Variations at the Lipoprotein Lipase Gene Influence Plasma Lipid Concentrations and Interact With Plasma n-6 Polyunsaturated Fatty Acids to Modulate Lipid Metabolism**
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30 citations

91 **Identification of ADAMTS7 as a Novel Locus for Coronary Atherosclerosis and Association of ABO With Myocardial Infarction in the Presence of Coronary Atherosclerosis: Two Genome-Wide Association Studies**
Lancet, The · 377, 383-392
https://exaly.com/article/50454050
505 citations

92 **The Complexity of ABO in Coronary Heart Disease – Authors' Reply**
Lancet, The · 377, 1493-1494
https://exaly.com/article/50454735
0 citations

93 **Ridge Regression for Longitudinal Biomarker Data**
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https://exaly.com/article/50852583
19 citations

94 **The Novel Atherosclerosis Locus at 10q11 Regulates Plasma CXCL12 Levels.**
European Heart Journal · 32, 963-71
https://exaly.com/article/52045509
72 citations

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2010

95 **Gene-Nutrient Interactions in the Metabolic Syndrome: Single Nucleotide Polymorphisms in ADIPOQ and ADIPOR1 Interact With Plasma Saturated Fatty Acids to Modulate Insulin Resistance.**

82 citations

American Journal of Clinical Nutrition · 91, 794-801

https://exaly.com/article/48752613

96 **Association of the Vitamin D Metabolism Gene CYP24A1 With Coronary Artery Calcification**

72 citations

Arteriosclerosis, Thrombosis, and Vascular Biology · 30, 2648-54

https://exaly.com/article/48871272

97 **Additive Effect of Polymorphisms in the IL-6, LTA, and TNF-α Genes and Plasma Fatty Acid Level Modulate Risk for the Metabolic Syndrome and Its Components**

53 citations

Journal of Clinical Endocrinology and Metabolism · 95, 1386-1394

https://exaly.com/article/49258423

98 **NOS3 Gene Polymorphisms Are Associated With Risk Markers of Cardiovascular Disease, and Interact With Omega-3 Polyunsaturated Fatty Acids**

53 citations

Atherosclerosis · 211, 539-544

https://exaly.com/article/49629088

2009

99 **Complement Component 3 Polymorphisms Interact With Polyunsaturated Fatty Acids to Modulate Risk of Metabolic Syndrome.**

62 citations

American Journal of Clinical Nutrition · 90, 1665-73

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