

# Edwin C M Mariman

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,997  
citations

257450

24  
h-index

254184

43  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3748  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Adipocyte extracellular matrix composition, dynamics and role in obesity. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 1277-1292.   | 5.4  | 416       |
| 2  | Ultrafiltration combined with size exclusion chromatography efficiently isolates extracellular vesicles from cell culture media for compositional and functional studies. <i>Scientific Reports</i> , 2017, 7, 15297.  | 3.3  | 193       |
| 3  | Mechanisms of weight regain after weight loss – the role of adipose tissue. <i>Nature Reviews Endocrinology</i> , 2019, 15, 274-287.   | 9.6  | 107       |
| 4  | The effect of rate of weight loss on long-term weight regain in adults with overweight and obesity. <i>Obesity</i> , 2016, 24, 321-327.  | 3.0  | 92        |
| 5  | A combination of protein profiling and isotopomer analysis using matrix-assisted laser desorption/ionization-time of flight mass spectrometry reveals an active metabolism of the extracellular matrix of 3T3-L1 adipocytes. <i>Proteomics</i> , 2004, 4, 3855-3863.                                     | 2.2  | 52        |
| 6  | Identification of Novel Human Adipocyte Secreted Proteins by Using SGBS Cells. <i>Journal of Proteome Research</i> , 2010, 9, 5389-5401.   | 3.7  | 52        |
| 7  | The Physiologic Effects of Caloric Restriction Are Reflected in the in Vivo Adipocyte-Enriched Proteome of Overweight/Obese Subjects. <i>Journal of Proteome Research</i> , 2009, 8, 5532-5540.  | 3.7  | 48        |
| 8  | Relation of weight maintenance and dietary restraint to peroxisome proliferator-activated receptor $\beta$ , glucocorticoid receptor, and ciliary neurotrophic factor polymorphisms. <i>American Journal of Clinical Nutrition</i> , 2005, 82, 740-746.  | 4.7  | 46        |
| 9  | Nutrigenomics and nutrigenetics: the “omics” revolution in nutritional science. <i>Biotechnology and Applied Biochemistry</i> , 2006, 44, 119.   | 3.1  | 45        |
| 10 | Rutin protects against H <sub>2</sub> O <sub>2</sub> -triggered impaired relaxation of placental arterioles and induces Nrf2-mediated adaptation in Human Umbilical Vein Endothelial Cells exposed to oxidative stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1177-1189. | 2.4  | 38        |
| 11 | Differential protein expression of hippocampal cells associated with heavy metals (Pb, As, and MeHg) neurotoxicity: Deepening into the molecular mechanism of neurodegenerative diseases. <i>Journal of Proteomics</i> , 2018, 187, 106-125.   | 2.4  | 38        |
| 12 | Blood Profile of Proteins and Steroid Hormones Predicts Weight Change after Weight Loss with Interactions of Dietary Protein Level and Glycemic Index. <i>PLoS ONE</i> , 2011, 6, e16773.  | 2.5  | 38        |
| 13 | Relationship between perilipin gene polymorphisms and body weight and body composition during weight loss and weight maintenance. <i>Physiology and Behavior</i> , 2009, 96, 723-728.  | 2.1  | 37        |
| 14 | Human Biology of Weight Maintenance after Weight Loss. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2012, 5, 13-25.   | 1.3  | 37        |
| 15 | The cilium: a cellular antenna with an influence on obesity risk. <i>British Journal of Nutrition</i> , 2016, 116, 576-592.  | 2.3  | 37        |
| 16 | Proteomic analysis reveals procoagulant properties of cigarette smoke-induced extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1585163.   | 12.2 | 33        |
| 17 | Resveratrol-Induced Changes of the Human Adipocyte Secretion Profile. <i>Journal of Proteome Research</i> , 2012, 11, 4733-4743.   | 3.7  | 32        |
| 18 | Dietary Strategies for Weight Loss Maintenance. <i>Nutrients</i> , 2019, 11, 1916.   | 4.1  | 32        |

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|----|--|-----|-----------|
| 19 | Extreme obesity is associated with variation in genes related to the circadian rhythm of food intake and hypothalamic signaling. <i>Physiological Genomics</i> , 2015, 47, 225-231.                                      | 2.3 | 31        |
| 20 | Adipose tissue autophagy related gene expression is associated with glucometabolic status in human obesity. <i>Adipocyte</i> , 2018, 7, 12-19.   | 2.8 | 31        |
| 21 | Identification and Characterization of Cardiac Troponin T Fragments in Serum of Patients Suffering from Acute Myocardial Infarction. <i>Clinical Chemistry</i> , 2017, 63, 563-572.                                      | 3.2 | 29        |
| 22 | Arginine deficiency in preconfluent intestinal Caco-2 cells modulates expression of proteins involved in proliferation, apoptosis, and heat shock response. <i>Proteomics</i> , 2007, 7, 565-577.                        | 2.2 | 28        |
| 23 | Development of a targeted selected ion monitoring assay for the elucidation of protease induced structural changes in cardiac troponin T. <i>Journal of Proteomics</i> , 2016, 136, 123-132.                             | 2.4 | 26        |
| 24 | Dietary weight loss-induced changes in <scp>RBP</scp>4, <scp>FFA</scp>, and <scp>ACE</scp> predict weight regain in people with overweight and obesity. <i>Physiological Reports</i> , 2017, 5, e13450.                  | 1.7 | 26        |
| 25 | Genetic predisposition, dietary restraint and disinhibition in relation to short and long-term weight loss. <i>Physiology and Behavior</i> , 2014, 128, 247-251.   | 2.1 | 25        |
| 26 | Dietary Inflammatory Index Score and Its Association with Body Weight, Blood Pressure, Lipid Profile, and Leptin in Indonesian Adults. <i>Nutrients</i> , 2019, 11, 148.   | 4.1 | 24        |
| 27 | Metabolic syndrome, circulating RBP4, testosterone, and SHBG predict weight regain at 6 months after weight loss in men. <i>Obesity</i> , 2013, 21, 1997-2006.   | 3.0 | 23        |
| 28 | Blood profiling of proteins and steroids during weight maintenance with manipulation of dietary protein level and glycaemic index. <i>British Journal of Nutrition</i> , 2012, 107, 106-119.                             | 2.3 | 22        |
| 29 | Application of proteomics technology in adipocyte biology. <i>Molecular BioSystems</i> , 2013, 9, 1076.  | 2.9 | 21        |
| 30 | Increased $\dot{V}O_2$ -oxidation with improved glucose uptake capacity in adipose tissue from obese after weight loss and maintenance. <i>Obesity</i> , 2014, 22, 819-827.  | 3.0 | 21        |
| 31 | Calorie restriction-induced changes in the secretome of human adipocytes, comparison with resveratrol-induced secretome effects. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1511-1522. | 2.3 | 20        |
| 32 | Olfactory receptor genes cooperate with protocadherin genes in human extreme obesity. <i>Genes and Nutrition</i> , 2015, 10, 465.  | 2.5 | 20        |
| 33 | Estimating real cell size distribution from cross-section microscopy imaging. <i>Bioinformatics</i> , 2016, 32, i396-i404.   | 4.1 | 20        |
| 34 | Physiological Response of Adipocytes to Weight Loss and Maintenance. <i>PLoS ONE</i> , 2013, 8, e58011.  | 2.5 | 20        |
| 35 | The Role of Catechol-O-Methyl Transferase Val(108/158)Met Polymorphism (rs4680) in the Effect of Green Tea on Resting Energy Expenditure and Fat Oxidation: A Pilot Study. <i>PLoS ONE</i> , 2014, 9, e106220.           | 2.5 | 19        |
| 36 | Variation in extracellular matrix genes is associated with weight regain after weight loss in a sex-specific manner. <i>Genes and Nutrition</i> , 2015, 10, 56.  | 2.5 | 19        |

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|----|---|-----|-----------|
| 37 | Dietary Intake after Weight Loss and the Risk of Weight Regain: Macronutrient Composition and Inflammatory Properties of the Diet. <i>Nutrients</i> , 2017, 9, 1205.  | 4.1 | 15        |
| 38 | Paternal Exposure to Environmental Chemical Stress Affects Male Offspring's Hepatic Mitochondria. <i>Toxicological Sciences</i> , 2018, 162, 241-250.   | 3.1 | 15        |
| 39 | Gender-specific genetic associations of polymorphisms in ACE, AKR1C2, FTO and MMP2 with weight gain over a 10-year period. <i>Genes and Nutrition</i> , 2014, 9, 434.   | 2.5 | 13        |
| 40 | Weight loss-induced stress in subcutaneous adipose tissue is related to weight regain. <i>British Journal of Nutrition</i> , 2016, 115, 913-920.  | 2.3 | 13        |
| 41 | Exploring the cellular network of metabolic flexibility in the adipose tissue. <i>Genes and Nutrition</i> , 2018, 13, 17.   | 2.5 | 12        |
| 42 | High frequency of rare variants with a moderate-to-high predicted biological effect in protocadherin genes of extremely obese. <i>Genes and Nutrition</i> , 2014, 9, 399.   | 2.5 | 11        |
| 43 | Combined Analysis of Stress- and ECM-Related Genes in Their Effect on Weight Regain. <i>Obesity</i> , 2018, 26, 492-498.  | 3.0 | 11        |
| 44 | A computational model of postprandial adipose tissue lipid metabolism derived using human arteriovenous stable isotope tracer data. <i>PLoS Computational Biology</i> , 2019, 15, e1007400.                                     | 3.2 | 11        |
| 45 | Weight loss-induced changes in adipose tissue proteins associated with fatty acid and glucose metabolism correlate with adaptations in energy expenditure. <i>Nutrition and Metabolism</i> , 2015, 12, 37.                      | 3.0 | 9         |
| 46 | Adipose Tissue Meal-Derived Fatty Acid Uptake Before and After Diet-Induced Weight Loss in Adults with Overweight and Obesity. <i>Obesity</i> , 2017, 25, 1391-1399.  | 3.0 | 9         |
| 47 | Glucose Restriction Plus Refeeding in Vitro Induce Changes of the Human Adipocyte Secretome with an Impact on Complement Factors and Cathepsins. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4055.           | 4.1 | 9         |
| 48 | Plasma levels of triglycerides and IL6 are associated with weight regain and fat mass expansion. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, , .  | 3.6 | 9         |
| 49 | Genetic Predictors of ~5% Weight Loss by Multidisciplinary Advice to Severely Obese Subjects. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2017, 10, 32-42.  | 1.3 | 8         |
| 50 | Stratifying cellular metabolism during weight loss: an interplay of metabolism, metabolic flexibility and inflammation. <i>Scientific Reports</i> , 2020, 10, 1651.   | 3.3 | 8         |
| 51 | An in vitro model for hypertrophic adipocytes: Time-dependent adipocyte proteome and secretome changes under high glucose and high insulin conditions. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8662-8673. | 3.6 | 7         |
| 52 | Cathepsin gene expression in abdominal subcutaneous adipose tissue of obese/overweight humans. <i>Adipocyte</i> , 2020, 9, 246-252.   | 2.8 | 6         |
| 53 | Integrated visualization of a multi-omics study of starvation in mouse intestine. <i>Journal of Integrative Bioinformatics</i> , 2014, 11, 235.   | 1.5 | 6         |
| 54 | Adipocyte abundances of CES1, CRYAB, ENO1 and GANAB are modified in-vitro by glucose restriction and are associated with cellular remodelling during weight regain. <i>Adipocyte</i> , 2019, 8, 190-200.                        | 2.8 | 5         |

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|----|--|-----|-----------|
| 55 | Validation, optimisation, and application data in support of the development of a targeted selected ion monitoring assay for degraded cardiac troponin T. <i>Data in Brief</i> , 2016, 7, 397-405.   | 1.0 | 4         |
| 56 | Mass Spectrometric Identification of Cardiac Troponin T in Urine of Patients Suffering from Acute Myocardial Infarction. <i>Journal of Applied Laboratory Medicine</i> , 2018, 2, 857-867.   | 1.3 | 4         |
| 57 | Profiling Cellular Processes in Adipose Tissue during Weight Loss Using Time Series Gene Expression. <i>Genes</i> , 2018, 9, 525.  | 2.4 | 4         |
| 58 | Future Nutrigenetics: In Search of the Missing Genetic Variation. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2009, 2, 257-262.  | 1.3 | 3         |
| 59 | Molecular adaptation in adipose tissue in response to overfeeding with a high-fat diet under sedentary conditions in South Asian and Caucasian men. <i>British Journal of Nutrition</i> , 2019, 122, 241-251.  | 2.3 | 2         |
| 60 | Diet Composition, Glucose Homeostasis, and Weight Regain in the YoYo Study. <i>Nutrients</i> , 2021, 13, 2257.   | 4.1 | 2         |
| 61 | The Effects of Mild Intermittent Hypoxia Exposure on the Abdominal Subcutaneous Adipose Tissue Proteome in Overweight and Obese Men: A First-in-Human Randomized, Single-Blind, and Cross-Over Study. <i>Frontiers in Physiology</i> , 2021, 12, 791588. | 2.8 | 2         |
| 62 | Association of FTO and ADRB2 gene variation with energy restriction induced adaptations in resting energy expenditure and physical activity. <i>Gene: X</i> , 2019, 3, 100019.   | 2.3 | 1         |
| 63 | PS1 - 4. Adipose tissue blood flow (ATBF) changes in overweight and obese subjects following rapid and slow weight loss. <i>Nederlands Tijdschrift Voor Diabetologie</i> , 2013, 11, 135-135.  | 0.0 | 0         |
| 64 | Protein kinase D increases maximal Ca <sup>2+</sup> activated tension of cardiomyocyte contraction by selective phosphorylation of cMyBP <sub>2</sub> -Ser315. <i>FASEB Journal</i> , 2011, 25, .  | 0.5 | 0         |