

The 10th year of the *Journal of Cachexia, Sarcopenia and Muscle*

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The *Journal of Cachexia, Sarcopenia and Muscle* (JCSM) is an open access peer-reviewed journal that was founded 10 years ago in 2010. It is published by Wiley and in association with the non-profit organization ‘Society on Sarcopenia, Cachexia, and Wasting Disorders (SCWD)¹’. Currently, the journal is published six times per year. JCSM attracts research from many different countries such as the USA, Germany, England, Italy, Netherlands, Australia, France, Canada, China, and Switzerland (top 10 countries where submissions originated from in 2019). Editor-in-chief is Prof. Stefan Anker (Berlin, Germany), Co-Editor-in-Chief is Prof. Stephan von Haehling (Göttingen, Germany), and Senior Consulting Editor is Prof. Andrew Coats (Rome, Italy). The editorial office is led by Monika Diek and Corinna Denecke, without whom this journal could not be published in time. This year JCSM has received 642 submissions so far (until October 2020). Certainly, it is only possible to evaluate such a large amount of submissions together with a great team of associate editors and reviewers. All these researchers work closely together with the goal to publish excellent new original papers, reviews, and editorials in the field of wasting diseases.

JCSM’s main areas of interest include the loss of body weight with regard to cachexia, malnourishment, anorexia, and lipolysis, as well as loss of muscle mass in sarcopenia and muscle wasting. Most original articles focus on preclinical investigations with regard to a better mechanistic understanding of the underlying pathophysiology; clinical investigations and biomarker assessment in patients with different wasting diseases; and epidemiological questions regarding the general burden of wasting diseases and its impact on other co-morbidities. Since cachexia and sarcopenia often occur in the setting of other chronic diseases, many different

illnesses are thematized in the journal, including cancer, heart failure, and other cardiovascular diseases, chronic kidney disease, chronic obstructive pulmonary disease, neurological diseases, and many others. There is also great interest in clinical studies, presenting the results of randomized, placebo controlled trials. Another field of interest includes age-related changes of body composition and its impact on patients’ quality of life, endurance, morbidity, and mortality. JCSM targets the entire scientific community including biologists, pharmacologists, physicists, biochemists, physicians, clinicians, trialists, dieticians, nurses, students, and basic scientists.

In 2019, Web of Science ranked JCSM number 2/51 in the section ‘Geriatrics & Gerontology’ and number 9/165 in the section ‘Medicine, General & Internal’ in 2019.² One of the most important measures for any research journal is the Thomson Scientific journal impact. The 2019 Thomson Scientific journal impact factor for JCSM was calculated by counting all citations in 2019 to papers published in JCSM in 2017 (987 citations) and 2018 (699 citations) and dividing it by the number of citable items published in JCSM in 2017 ($n = 82$) and 2018 ($n = 90$). Hence, the 2019 Thomson Scientific journal impact factor for JCSM was 9.802 (1686/172). The number of total citations towards JCSM is increasing each year [2013: 516 citations, 2014: 713 citations (38%), 2015: 901 citations (26%), 2016: 1310 (+45%), 2017: 2207 citations (+68%), 2018: 2799 citations (+27%), 2019: 3553 citations (+27%)].² Some papers in the past have been heavily cited: the most cited paper ever published in JCSM was an editorial by von Haehling *et al.*³ published in 2010 about ‘facts and numbers’ with regard to cachexia. So far this paper has already been cited 521 times. With regard to the top 10 cited papers ever published in JCSM (Table 1), these

Table 1 JCSM top 10 cited articles of all time

Rank	First author	Title	Article type	Times cited
1	von Haehling, S ³	Cachexia as a major underestimated and unmet medical need: facts and numbers	Editorial Material	521
2	Morley, JE ⁴	Prevalence, incidence, and clinical impact of sarcopenia: facts, numbers, and epidemiology—update 2014	Editorial Material	192
3	Dalton, JT ⁵	The selective androgen receptor modulator GTx-024 (enobosarm) improves lean body mass and physical function in healthy elderly men and postmenopausal women: results of a double-blind, placebo-controlled phase II trial	Article	184
4	Malmstrom, TK ⁶	SARC-F: a symptom score to predict persons with sarcopenia at risk for poor functional outcomes	Article	166
5	Fanzani, A ⁷	Molecular and cellular mechanisms of skeletal muscle atrophy: an update	Review	145
6	Cesari, M ⁸	Biomarkers of sarcopenia in clinical trials—recommendations from the International Working Group on Sarcopenia	Article	140
7	Wakabayashi, H ⁹	Rehabilitation nutrition for sarcopenia with disability: a combination of both rehabilitation and nutrition care management	Review	138
8	Lenk, K ¹⁰	Skeletal muscle wasting in cachexia and sarcopenia: molecular pathophysiology and impact of exercise training	Review	136
9	Anker, SD ¹¹	Welcome to the ICD-10 code for sarcopenia	Editorial Material	135
10	Elkina, Y ¹²	The role of myostatin in muscle wasting: an overview	Review	134

Table 2 Top 20 cited articles published in 2019

Rank	First author	Title	Article type	Times cited
1	Cederholm, T ¹³	GLIM criteria for the diagnosis of malnutrition—a consensus report from the global clinical nutrition community	Article	36
2	Bauer, J ¹⁴	Sarcopenia: a time for action. An SCWD position paper	Article	35
3	Yeung, SSY ¹⁵	Sarcopenia and its association with falls and fractures in older adults: a systematic review and meta-analysis	Review	25
4	Pin, F ¹⁶	Cachexia induced by cancer and chemotherapy yield distinct perturbations to energy metabolism	Article	21
5	Dolan, RD ¹⁷	The relationship between computed tomography-derived body composition, systemic inflammatory response, and survival in patients undergoing surgery for colorectal cancer	Article	20
6	Evans, WJ ¹⁸	D ₃ -Creatine dilution and the importance of accuracy in the assessment of skeletal muscle mass	Review	19
7	Li, ZH ¹⁹	LncLRS1 controls muscle atrophy via sponging miR-15 family to activate IGF1-PI3K/AKT pathway	Article	17
8	Okugawa, Y ²⁰	Circulating miR-203 derived from metastatic tissues promotes myopenia in colorectal cancer patients	Article	14
9	Qazi, TH ²¹	Cell therapy to improve regeneration of skeletal muscle injuries	Review	14
10	Ramirez-Velez, R ²²	Reference values for handgrip strength and their association with intrinsic capacity domains among older adults	Article	13
11	Dijksterhuis, WPM ²³	Association between body composition, survival, and toxicity in advanced esophagogastric cancer patients receiving palliative chemotherapy	Article	13
12	Rodriguez-Manas, L ²⁴	Effectiveness of a multimodal intervention in functionally impaired older people with type 2 diabetes mellitus	Article	12
13	Oost, LJ ²⁵	Fibroblast growth factor 21 controls mitophagy and muscle mass	Article	12
14	ten Haaf, DSM ²⁶	Protein supplementation improves lean body mass in physically active older adults: a randomized placebo-controlled trial	Article	12
15	Naito, T ²⁷	Feasibility of early multimodal interventions for elderly patients with advanced pancreatic and non-small-cell lung cancer	Article	12
16	Lee, J ²⁸	Muscle radiodensity loss during cancer therapy is predictive for poor survival in advanced endometrial cancer	Article	10
17	Hong, Y ²⁹	Amelioration of muscle wasting by glucagon-like peptide-1 receptor agonist in muscle atrophy	Article	9
18	Hughes, MC ³⁰	Early myopathy in Duchenne muscular dystrophy is associated with elevated mitochondrial H ₂ O ₂ emission during impaired oxidative phosphorylation	Article	9
19	Zhu, XX ³¹	MyD88 signalling is critical in the development of pancreatic cancer cachexia	Article	9
20	Koppe, L ³²	Kidney cachexia or protein-energy wasting in chronic kidney disease: facts and numbers	Editorial Material	8

Table 3 Top 20 cited articles published in 2018

Rank	First author	Title	Article type	Times cited
1	Buckinx, F ³³	Pitfalls in the measurement of muscle mass: a need for a reference standard	Article	113
2	Tieland, M ³⁴	Skeletal muscle performance and ageing	Review	95
3	Daly, LE ³⁵	Loss of skeletal muscle during systemic chemotherapy is prognostic of poor survival in patients with foregut cancer	Article	45
4	Zhang, ZK ³⁶	A newly identified lncRNA MAR1 acts as a miR-487b sponge to promote skeletal muscle differentiation and regeneration	Article	34
5	Mucke, M ³⁷	Systematic review and meta-analysis of cannabinoids in palliative medicine	Review	32
6	Choi, MH ³⁸	Sarcopenia is negatively associated with long-term outcomes in locally advanced rectal cancer	Article	29
7	Mayr, R ³⁹	Sarcopenia as a comorbidity-independent predictor of survival following radical cystectomy for bladder cancer	Article	28
8	Zhang, AQ ⁴⁰	miRNA-23a/27a attenuates muscle atrophy and renal fibrosis through muscle-kidney crosstalk	Article	26
9	Ebadie, M ⁴¹	Poor performance of psoas muscle index for identification of patients with higher waitlist mortality risk in cirrhosis	Article	25
10	Choi, MH ⁴²	Preoperative sarcopenia and post-operative accelerated muscle loss negatively impact survival after resection of pancreatic cancer	Article	25
11	Rhee, CM ⁴³	Low-protein diet for conservative management of chronic kidney disease: a systematic review and meta-analysis of controlled trials	Review	25
12	Brown, JC ⁴⁴	The evolution of body composition in oncology-epidemiology, clinical trials, and the future of patient care: facts and numbers	Editorial Material	24
13	Brzeszczynska, J ⁴⁵	Alterations in the in vitro and in vivo regulation of muscle regeneration in healthy ageing and the influence of sarcopenia	Article	22
14	Siracusa, J ⁴⁶	Circulating myomiRs: a new class of biomarkers to monitor skeletal muscle in physiology and medicine	Review	22
15	Nissinen, TA ⁴⁷	Treating cachexia using soluble ACVR2B improves survival, alters mTOR localization, and attenuates liver and spleen responses	Article	21
16	Connolly, M ⁴⁸	miR-424-5p reduces ribosomal RNA and protein synthesis in muscle wasting	Article	21
17	Grimm, A ⁴⁹	Repeatability of Dixon magnetic resonance imaging and magnetic resonance spectroscopy for quantitative muscle fat assessments in the thigh	Article	20
18	Brown, JC ⁵⁰	The deterioration of muscle mass and radiodensity is prognostic of poor survival in stage I–III colorectal cancer: a population-based cohort study (C-SCANS)	Article	20
19	Kays, JK ⁵¹	Three cachexia phenotypes and the impact of fat-only loss on survival in FOLFIRINOX therapy for pancreatic cancer	Article	20
20	Xiao, JJ ⁵²	Associations of pre-existing co-morbidities with skeletal muscle mass and radiodensity in patients with non-metastatic colorectal cancer	Article	20

publications on average received 189 citations (as of September 2020), and they were all published between 2010 and 2016. Interestingly, these top 10 cited papers included a variation of different publications with four reviews, three editorials, and three original articles. Such diversity is also found when looking at the top 20 cited papers published in 2017–19 (*Tables 2–4*) with 11 reviews, 5 editorials, and 44 original articles—even though most citations are towards original articles. The three best cited papers from each year (2017–19; nine papers) mainly addressed the following research areas: cachexia and malnourishment (three papers); sarcopenia, muscle function and mass (seven papers); and adipose tissue (one paper). This demonstrates that nowadays not only research into the field of cachexia and malnourishment is of great interest to the scientific

community but also research into sarcopenia, muscle function and mass.

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The authors of this manuscript certify that they comply with the ethical guidelines for authorship and publishing in the *Journal of Cachexia, Sarcopenia and Muscle*.⁷³

Conflict of interest

None declared.

Table 4 Top 20 cited articles published in 2017

Rank	First author	Title	Article type	Times cited
1	Kalafateli, M ⁵³	Malnutrition and sarcopenia predict post-liver transplantation outcomes independently of the Model for End-stage Liver Disease score	Article	84
2	Solheim, TS ⁵⁴	A randomized phase II feasibility trial of a multimodal intervention for the management of cachexia in lung and pancreatic cancer	Article	74
3	Boengler, K ⁵⁵	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue	Review	69
4	van Dijk, DPJ ⁵⁶	Low skeletal muscle radiation attenuation and visceral adiposity are associated with overall survival and surgical site infections in patients with pancreatic cancer	Article	64
5	Nijholt, W ⁵⁷	The reliability and validity of ultrasound to quantify muscles in older adults: a systematic review	Review	62
6	van Vugt, JLA ⁵⁸	A comparative study of software programmes for cross-sectional skeletal muscle and adipose tissue measurements on abdominal computed tomography scans of rectal cancer patients	Article	62
7	Rutten, IJG ⁵⁹	Psoas muscle area is not representative of total skeletal muscle area in the assessment of sarcopenia in ovarian cancer	Article	59
8	Martone, AM ⁶⁰	The incidence of sarcopenia among hospitalized older patients: results from the Glisten study	Article	58
9	Holecek, M ⁶¹	Beta-hydroxy-beta-methylbutyrate supplementation and skeletal muscle in healthy and muscle-wasting conditions	Review	57
10	Snijders, T ⁶²	Muscle fibre capillarization is a critical factor in muscle fibre hypertrophy during resistance exercise training in older men	Article	52
11	Nishikawa, H ⁶³	Elevated serum myostatin level is associated with worse survival in patients with liver cirrhosis	Article	47
12	Brown, JL ⁶⁴	Mitochondrial degeneration precedes the development of muscle atrophy in progression of cancer cachexia in tumour-bearing mice	Article	46
13	Morley, JE ⁶⁵	Anorexia of ageing: a key component in the pathogenesis of both sarcopenia and cachexia	Editorial Material	45
14	Bye, A ⁶⁶	Muscle mass and association to quality of life in non-small cell lung cancer patients	Article	43
15	St-Jean-Pelletier, F ⁶⁷	The impact of ageing, physical activity, and pre-frailty on skeletal muscle phenotype, mitochondrial content, and intramyocellular lipids in men	Article	43
16	Baracos, VE ⁶⁸	Psoas as a sentinel muscle for sarcopenia: a flawed premise	Editorial Material	42
17	Gonzalez, MC ⁶⁹	Bioelectrical impedance analysis for diagnosing sarcopenia and cachexia: what are we really estimating?	Editorial Material	42
18	Mochamat Cuhls, H ⁷⁰	A systematic review on the role of vitamins, minerals, proteins, and other supplements for the treatment of cachexia in cancer: a European Palliative Care Research Centre cachexia project	Review	40
19	Tournadre, A ⁷¹	Changes in body composition and metabolic profile during interleukin 6 inhibition in rheumatoid arthritis	Article	39
20	dos Santos, L ⁷²	Sarcopenia and physical independence in older adults: the independent and synergic role of muscle mass and muscle function	Article	38

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