73521-Answering Reviewers

The authors would like to thank the reviewers of our manuscript for their comments. Please find hereunder a point-by-point response to each of the issues raised in the peer review report and within editorial's office comments.

Reviewer's comments	Answer/Changes
However, two revisions needed regarding their	The test used was a Chi2, the error has been
conclusions. Authors used ITT analysis, but	corrected across the manuscript; methods (2.7);
the % of responders are not correct. They	results (3.3); figure 3; supplementary figure 1.
reported %Responders in probiotic (n=101,	
45.1%) and placebo (n=74, 33.9%) with p=0.017,	The authors confirm the percentage of
fisher's test (which is not appropriate, should	responders are correct, the denominators are
use Chi). No denominators for these calculations	the number of subjects with available data. The
were given in the text. If II I denominators are	denominators are now given in results section
used (Fig 1), these results differ: % responders	3.3.
In problotic (n=101/230, 43.9%) and placebo	
(n=74/226, 33.2%, With p=0.02 from chi	
Squarea).	Deviciens have been made agrees the
reported as "A more important but	manuscript: abstract: rosults (2, 2)
nonsignificant difference in AUC for "How can	manuscript. abstract, results (5.2)
this result he MORE important when it is NOT	
significant $(n=0,10)$. Authors should revise this	
as a non-sianificant difference findina.	
Another significant finding was the	Estimated differences have been included in the
improvement in overall quality of life score (Fig	text.
4), but it would be helpful to provide the raw	
data in the sentence in the text, not just giving a	
p-value and showing it in a Figure. Provide	
overall means in text please.	
Safety data. This is an important outcome of	Table 2 has been added to provide the number
any RCT and you need to provide the actual	of subjects with at least one adverse event for
number of patients developing at least one AE	each term of severity and for adverse events
by group in the text, not just a p value. It would	whose relationship with the study product or
be helpful to also provide a table with the	with the research was "not excluded".
description of the types of AEs that developed in	Congless enternately 2 has been added to
Supplementary data.	Supplementary table 3 has been added to
	body system
Delete Figure 5. Not informative	Figure 5 provides IRS-Ool scores in abdominal
Delete Figure 5. Not injormative.	nain responders in comparison with
	ponresponders. This analysis was performed to
	provide a more accurate understanding of the
	overall impact of diet supplementation with this
	probiotic on daily function of responders. The
	authors believe this Figure is important to
	illustrate results presented in paragraph 3.4.
Also, please remove findings from your	Findings have been removed from the headings.
headings.	
Consider revising your title (last word should be	Title has been revised accordingly.

trial not study).	
In INtroduction section (paragraph 3), you cite	For more clarity, the 3 references of RCTs and
four references when describing 3 RCTs done for	the reference of the meta-analysis are now
I-3856 & IBS. Remove #21 as Cayzeele-Deh. is a	cited separately.
meta-analysis and NOT a RCT. You will need to	
renumber your references.	
Why did you not include the RCT by Al Helo	This RCT has not been published in a peer-
2019?	reviewed scientific article and we therefore
	have decided not to consider this study which
	does not provide additional information to the
	literature on S. cerevisiae CNCM I-3856.

Editorial Office's comments	Answer/Changes
Science	e editor
However, there are concerns regarding the	Comments from reviewer 1 have been
statistical methods used and the correct	answered (please see above).
interpretation of the results (please see	
comments from reviewer 1) as also	Inconsistencies with prior clinical trials findings
inconsistencies with prior clinical trials findings	have been addressed in the discussion
on the beneficial effect of probiotics on the	paragraph (The effect of S. cerevisiae CNCM I-
gastrointestinal symptoms (such as bowel	3856 on gastrointestinal symptoms).
movements, bloating) that can be addressed in	
the discussion paragraph. The explanation	The explanation based on high placebo rates is
based on high placebo rates in previous studies	related with the patient population
may not be the best one. Rather, patient	characteristics (and particularly the more
population characteristics (more severe	severe abdominal pain at baseline), the
abdominal pain at the baseline) may be	corresponding part of the discussion has been
entertained.	further refined to provide clearer explanation:
	"In contrast with previous findings, no
	significant between-group differences were
	observed in the AUC for gastrointestinal
	symptoms. Although the clinical studies
	conducted on S. cerevisiae CNCM I-3856 in IBS
	present consistent designs, a significant change
	here is the use of Rome IV criteria to select the
	participants. A worldwide comparison of IBS
	prevalence by Rome IV and Rome III diagnostic
	criteria demonstrated that individuals
	diagnosed by Rome IV criteria exhibit higher IBS
	severity. Consistently, a higher level of
	abdominal pain was reported at baseline in this
	study than in previous clinical trials conducted
	on S. cerevisiae CNCM I-3856. Among factors
	associated with response to placebo in IBS-C,
	higher baseline symptom severity was reported
	as an important predictor of placebo
	response. ^[40] Differences in the studied
	population could therefore have contributed to
	the lower between-group size effect reported in
	this study."
Additional information on adverse events	Additional information on adverse events have

related to the use of S cerevisiae CNCM I-3856	been included.	
are important to decide their utilization in		
clinical practice.		
Company editor-in-chief		
Patient population: It is important to well define	The characteristics of the study population are	
the study population . The conclusions of the	defined in paragraph 2.1 Study population. The	
clinical trial can be influence by the patient	authors do not identify which additional	
population, inclusion and exclusion criteria	information could be expected in this	
and/or randomization. For example, I would like	paragraph.	
to know how the clinical settings were decided		
(if any criteria) and which ones are they. This is		
important when changes to clinical practice are		
implemented, as these findings may only fit a		
specific population.		
With regards to the statistical analysis, there	Comments from reviewer 1 have been	
are many questions on statistical methods used.	answered (please see above).	
For example, why Fisher test (usually used for		
small sample size) and not chi square ?. As		
pointed by the reviewer 1		
Results: As the authors mentioned there is a	Possible explanation of the higher level of	
high placebo response in this clinical trial, that is	abdominal pain at baseline in comparison with	
indeed seen with functional disorder, but also	patients included in previous studies is given in	
associated with a certain anxiety related to	the discussion: "although the clinical studies	
interpretation of these results. It is important	conducted on S. cerevisiae CNCM I-3856 in IBS	
therefore, to include more details about the	present consistent designs, a significant change	
patient population including a possible	here is the use of Rome IV criteria to select the	
explanation of the higher level of abdominal	participants. A worldwide comparison of IBS	
pain tat the baseline than patients included in	prevalence by Rome IV and Rome III diagnostic	
other studies.	criteria demonstrated that individuals	
	diagnosed by Rome IV criteria exhibit higher IBS	
	severity."	
Furthermore, in the discussion paragraph, the	This is not the hypothesis raised by the authors.	
authors invokes the high placebo effect noted	Higher baseline symptom severity was reported	
on prior clinical trials using probiotics as an	as an important predictor of placebo response.	
explanation of the positive effect on	Therefore, the higher level of abdominal pain	
gastrointestinal symptoms and lack of effect in	observed at baseline in the present study may	
the current trial. In fact, if that will be the case,	lead to a higher placebo effect which could	
we will see contrary results.	have contributed to the lower size effect	
	reported in our study.	
Safety: needs a detailed table with side effects.	Additional information on adverse events have	
	been included.	

73521-Answering Reviewers_Round 2

The authors would like to thank the reviewers of our manuscript for their comments. Please find hereunder a point-by-point response to each of the issues raised in the peer review report.

Reviewer's comments	Answer/Changes
1. In section 3.4 on Quality of Life (and throughout text). Please define the risk measure (not just giving the p value and CI), because the readers need to know of this is SMD, OR, etc.	The manuscript has been revised accordingly. Standardized Mean Deviation have been added to section 3.4, supplementary table 1 and supplementary table 2.
2. Please provide the QoL score FOR EACH GROUP by week 8 in the text and not just in Figure. Probiotic QoL score by week 8 (\sim 78 +/- std dev) vs placebo (\sim 76 =/- std dev) with p=0.047.	The QoL score for each group by week 8 has been added.
3. For safety data, your numbers in two table not match. For example, Supple Table 3 provides "any AE" for probiotic (109/230, 47%) vs. placebo (87/226, 38.5%), but from Table 2 adding AE (mild to severe) gives us a total of 138/230, 60%) for probiotic and 108/226, 47.8% in placebo. These two totals should match, but they do not. Explain or correct.	Table 2 provides the number of subjects with at least one adverse event for each term of severity. A subject may have experienced several adverse events and it is therefore normal that the sum of the number of subjects with at least one adverse event for each severity does not match the number of subjects presenting at least one adverse event given in Supplementary table 3.
4. In Table 2 the first two rows are not clear "relationship not excluded" What does this mean? please add clarification to Methods (section 2.7) and in Table 2 footnote.	A causality assessment has been performed for each adverse events in compliance with the ICH Guideline for Clinical Safety Data Management. There is currently no standard international nomenclature to describe the degree of causality (attributability) between an investigational product and an event. The causality of all cases judged by the investigator as
	or the research procedure (act, method, etc.) were evaluated as "not excluded".
	The term "relationship" has been used as synonym of "causality". The term "relationship" has been replaced by "causality" in table 2 and in Methods (section 2.7 Safety analyses).
Please re-provide the original figure	The original figures with editable text and with
documents. All submitted figures,	coordinate of each points has been provided using
including the text contained within the	Powerpoint.
figures, must be editable. Please provide	
the text in your figure(s) in text boxes;	
For line drawings that were automatically	

generated with software, please provide	
the labels/values of the ordinate and	
abscissa in text boxes; Please prepare	
and arrange the figures using PowerPoint	
to ensure that all graphs or arrows or text	
portions can be reprocessed by the editor.	
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authors themselves.	shared.
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3. Please reprovide the CONSORT 2010statement and Clinical trial registration	shared. The consort 2010 statement and the clinical trial registration statement have been filled and shared.