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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Dermatology

ESPS manuscript NO: 33543

Title: Atopic eczema treatment now and in the future: Targeting the skin barrier and key immune mechanisms in human skin

Reviewer's code: 00646537

Reviewer's country: Saudi Arabia

Science editor: Fang-Fang Ji

Date sent for review: 2017-02-15 19:07

Date reviewed: 2017-02-15 19:27

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Interesting review and quite well written - The author seems to be essentially talking about atopic dermatitis, but in some sections seems to be alluding to 'eczema' as a general concept. This probably needs to be clarified better as 'eczema' per se has a large number of types and the points mentioned may not be applicable to many of these types - Would suggest focusing more on what is new related to the immunopathology (the second half of the paper - dealing in detail with the skin barrier/ filaggrin mutation and immune dysfunction). The first part could probably be made more concise. - A table could summarize the therapeutic implications of the newer concepts - summarizing the drug groups and mechanism of action



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Dermatology

ESPS manuscript NO: 33543

Title: Atopic eczema treatment now and in the future: Targeting the skin barrier and key immune mechanisms in human skin

Reviewer's code: 00646494

Reviewer's country: Italy

Science editor: Fang-Fang Ji

Date sent for review: 2017-02-15 19:07

Date reviewed: 2017-02-17 00:17

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

an interesting and well written review



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Dermatology

ESPS manuscript NO: 33543

Title: Atopic eczema treatment now and in the future: Targeting the skin barrier and key immune mechanisms in human skin

Reviewer's code: 00646503

Reviewer's country: Italy

Science editor: Fang-Fang Ji

Date sent for review: 2017-02-15 19:07

Date reviewed: 2017-02-22 18:55

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

A good and comprehensive review, very clear to readers and with a full bibliography. In order to increase the comprehensiveness of the paper, I suggest to add a figure relative to the paragraph "Immune dysfunction plays a key role in eczema pathogenesis".



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Dermatology

ESPS manuscript NO: 33543

Title: Atopic eczema treatment now and in the future: Targeting the skin barrier and key immune mechanisms in human skin

Reviewer's code: 00646519

Reviewer's country: Mexico

Science editor: Fang-Fang Ji

Date sent for review: 2017-02-15 19:07

Date reviewed: 2017-02-28 04:51

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

In general the manuscript represents an interesting review, authors should include a couple of phrases stating the diseases associated with filaggrin mutations and add a table with the current treatments.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Dermatology

ESPS manuscript NO: 33543

Title: Atopic eczema treatment now and in the future: Targeting the skin barrier and key immune mechanisms in human skin

Reviewer's code: 00646561

Reviewer's country: Spain

Science editor: Fang-Fang Ji

Date sent for review: 2017-02-15 19:07

Date reviewed: 2017-03-01 18:44

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input checked="" type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This a basic and very elementary review regarding the pathogenetic mechanism of atopic eczema and possible target treatments. It's clear and well-written. The following paragraph should be remove as includes trade mark products and adds poor value: "The knowledge of a central role for dry skin in eczema has stimulated interest in the development of bespoke emollients as treatment for xerosis.⁷⁰ In one study a standard emollient, Aquamol? cream (the control) was compared to Balnuem? cream, an emollient containing 5% urea, a skin ceramide N-stearoyl phytosphingosine (NP) and lactate.⁷⁰ When skin that had previously been treated with Balneum? was changed to Aquamol? there was an increase in TEWL from 11.58 to 11.94 g/m²/h; this suggested that skin barrier function was improved more by using Balneum? than Aquamol?.⁷⁰ However this improvement between the creams may be due to the sodium lauryl sulfate in Aquamol? having an emulsifying effect and increasing barrier damage.⁷⁰ When hydration was also considered, the application of Balneum? showed greater hydration compared to the Aquamol?, suggesting improvement of the stratum corneum barrier.⁷⁰ There is the possibility of damage if Balneum? is used with eczema as it increases



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pH slightly and further work is needed to define the optimal emollient treatment for eczema."