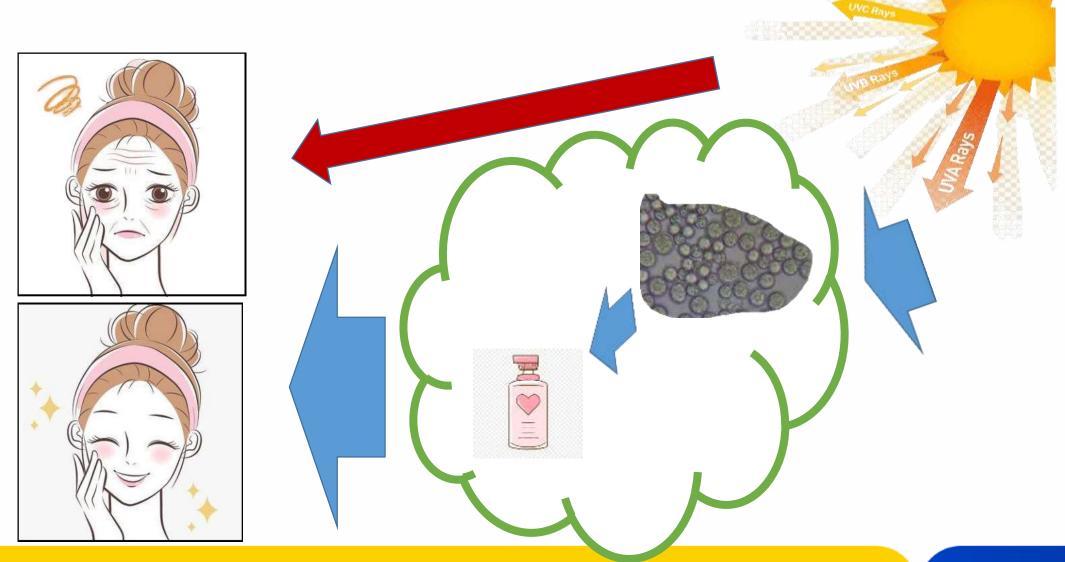


ANTI-AGING ACTIVITY OF MICROALGAE *Aurantiochytrium* sp. EXTRACT

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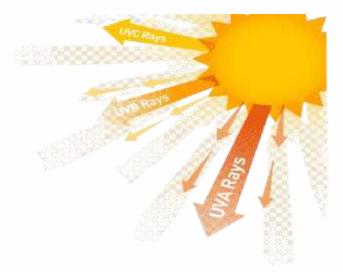
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Background



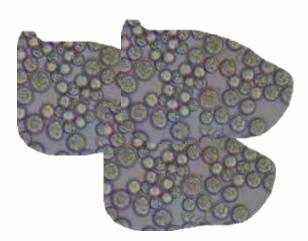






This research was conducted to determine

The anti-aging activity of the Microalgae *Aurantiochytrium* sp. extract on the skin of mice exposed to UV-B light.







Methode

30 test animals had their backs shaved Divided into 6 groups

normal		positive control		egative ontrol	tes	st group 1		test	group 2		te	st group 3
not given an treatment	У	applied w carrier o containin 1% vitami	il ng	applied carrier		applied w carrier c containin extracts w concentra ns of 0.5	oil ng vith atio	n e	applied v carrier o containi extracts v concentra ns of 2.5	oil ng vith atio		applied with carrier oil containing extracts with concentrations ns of 12.5%

Evaluation



Result

Wrinkle assessment

Group	0 day	14 <u>day</u>		
normal	0,91 ± 0,49	0,91 ± 0,27		
positive control,	0,50±0,62	0,50±0,27		
negative control	0,33±0,23*	2,00± 0,52*ª		
Test 1	0,91±0,49	1,00±0,23		
Test 2	0,83±0,37	0,75±0,27		
test 3	0,75 ± 027	0,66±0,23		

*) p< 0,05

Skin pigmentation

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	Group	0 day	14 <u>day</u>		
	normal	2,25 ± 0,59	2,67 ± 0,23		
	positive control	1,25±0,68*	0,75±0,50*		
	negative control	1,83 ± 0,37	1,75±0,27		
	Test 1	1,67±0,37	1,08±0,36		
	Test 2	2,16±0,76	0,83±0,37		
	test 3	1,41 ± 0,92	0,58±0,27		
	*) p< 0,05				
	test 3		, ,		

Skin moisture

Group	0 day	14 <u>day</u>
normal	1,00 ± 0,00	1,00 ± 0,00
positive control	1,25±0,43	2,60±1,47
negative control	1,00±0,00	1,25±0,43
Test 1	1,00±0,00	1,75±0,82
Test 2	1,00±0,00	2,00 ± 0,70
test 3	1,00± 0,00	3,00 ± 0,70

The value of oil content

Group	0 day	14 <u>day</u>		
normal	1,00 ± 0,00	1,00 ± 0,00		
positive control,	1,25±0,43	2,80±1,500		
negative control	1,00 ± 0,00	1,25±0,43		
Test 1	$1,00 \pm 0,00$	2,25±1,63		
Test 2	1,00 ± 0,00	2,25±1,63		
test 3	$1,00 \pm 0,00$	3,75 ± 1,63		

The skin smoothness value

Group	0 day	14 <u>day</u>
normal	$1,00 \pm 0,00$	1,00 ± 0,00
positive control,	1,25±0,43	3,00±1,50
negative control	1,00 ± 0,00	1,25±0,43
Test 1	1,00 ± 0,00	2,00±1,22
Test 2	1,00 ± 0,00	2,00±1,22
test 3	1,00 ± 0,00	3,25±1,29

Conclusion

The group of 0.5%, 2.5%, 12.5% microalgae *Aurantiochytrium* sp. extract and positive control test did not experience a significant increase in wrinkles and hyperpigmentation (p>0.05) in contrast the negative control experienced a considerable increase (p<0.05).

Thank you

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