



# ISAP2021 Report

Local Organizing Committee of ISAP2021  
December 23, 2021

Illustrated by Hiroko Uchida



# ISAP2021



Dates	May 14 – August 13, 2021
Venue	Virtual Platform
Official language	English
Web	<a href="https://isap2020-phycology.org/">https://isap2020-phycology.org/</a> *closed on the end of October, 2021.

## Organizer:

### ISAP2021 Local Organizing Committee



Algae Biomass and Energy System Research Unit(ABES), University of Tsukuba



Algae Industry Incubation Consortium (AIIC), Japan



# Program



- All recorded presentations will be available On-demand from May 14, 2021 to August 13, 2021.
- Q&A field for each On-demand presentation will be open.
- Each session will have a day for Open-Online-discussions.
- Panel Discussion and General assembly will be live streamed.

# LIVE SESSION TIME SCHEDULE

Month	Week		Day	Date	Session	Time (JST UTC+9 hours)	Time (UTC)	Notes
May	W1	[Welcome to ISAP2021 week.1]	Friday	14				
			Saturday	15				
			Sunday	16				
	W2	[Welcome to ISAP2021 week.2]	Monday	17				
			Tuesday	18	[Q&A] Opening Lecture	16:00-16:30	07:00-07:30	✓Confirmed
			Wednesday	19	Panel Discussion	17:00-19:00	08:00-10:00	✓Confirmed
			Thursday	20	[Q&A] Oroboros Instrument	18:00-18:30	09:00-09:30	✓Confirmed
					[Q&A] NIES	18:30-19:00	09:30-10:00	✓Confirmed
			Friday	21				
	W3	[Welcome to ISAP2021 week.3]	Saturday	22				
			Sunday	23				
			Monday	24				
			Tuesday	25	[Q&A] Plenary 1	16:00-17:00	07:00-08:00	✓Confirmed
			Wednesday	26	Special Session 1	17:00-18:00	08:00-09:00	✓Confirmed
			Thursday	27	[Q&A] Plenary 2	01:00-02:00 (next day)	16:00-17:00	✓Confirmed
June	W4	[Student & Young researcher week]	Friday	28				
			Saturday	29				
			Sunday	30				
			Monday	31				
			Tuesday	1	Springer Writing Seminar 1	17:00-19:00	08:00-10:00	✓Confirmed
					[Q&A] Career Forum 1	16:00-17:00	07:00-08:00	✓Confirmed
	Wednesday	2	[Q&A] Career Forum 2	00:00-01:00 (next day)	15:00-16:00	✓Confirmed		
			Springer Writing Seminar 2	01:00-02:00 (next day)	16:00-18:00	✓Confirmed		
	W5	[Special session 1]	Thursday	3				
			Friday	4				
			Saturday	5				
			Sunday	6				
			Monday	7				
			Tuesday	8	[Q&A] Special Session 3	22:00-23:00	13:00-14:00	✓Confirmed
	W6	[GA & Special session week]	Wednesday	9				
Thursday			10	[Q&A] Special Session 5	17:00-18:00	08:00-09:00	✓Confirmed	
				[Q&A] Special Session 4	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
Friday			11					
Saturday			12					
Sunday			13					
W7	[Special session week 2]	Monday	14					
		Tuesday	15	General Assembly	18:00-20:00	09:00-11:00	✓Confirmed	
		Wednesday	16	[Q&A] Special Session 2	17:00-18:00	08:00-09:00	✓Confirmed	
		Thursday	17	[Q&A] Special Session 6	17:00-18:00	08:00-09:00	✓Confirmed	
		Friday	18					
		Saturday	19					
W8	[Oral Session week.1]	Sunday	20					
		Monday	21					
		Tuesday	22	[Q&A] Special Session 7	04:00-05:00 (next day)	19:00-20:00	✓Confirmed	
		Wednesday	23	[Q&A] Special Session 9	17:00-18:00	08:00-09:00	✓Confirmed	
				[Q&A] Special Session 8	00:00-01:00 (next day)	15:00-16:00	✓Confirmed	
		Thursday	24					
W9	[Oral session week.2]	Friday	25					
		Saturday	26					
		Sunday	27					
		Monday	28					
		Tuesday	29	[Q&A] BIORÉA	01:00-01:30 (next day)	16:00-16:30	✓Confirmed	
		Wednesday	30	[Q&A] Oral Session 1-1	18:00-19:00	09:00-10:00	✓Confirmed	
W10	[Oral session week.3]	Thursday	1	[Q&A] Oral Session 1-2	19:00-20:00	10:00-11:00	✓Confirmed	
				[Q&A] Oral Session 4-1	18:00-19:00	09:00-10:00	✓Confirmed	
		Friday	2	[Q&A] Oral Session 1-3	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
		Saturday	3					
		Sunday	4					
		Monday	5					
W11	[Oral session week.4]	Tuesday	6	[Q&A] Varicon aqua	09:30-10:00	00:30-01:00	✓Confirmed	
		Wednesday	7	[Q&A] Oral Session 2-1	18:00-19:00	09:00-10:00	✓Confirmed	
				[Q&A] Oral Session 2-2	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
		Thursday	8	[Q&A] Oral Session 3-1	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
		Friday	9					
		Saturday	10					
W12	[Oral session week.5]	Sunday	11					
		Monday	12					
		Tuesday	13	[Q&A] DIC	09:30-10:00	00:30-01:00	✓Confirmed	
				[Q&A] AstaReal	15:00-15:30	06:00-06:30	✓Confirmed	
		Wednesday	14	[Q&A] Oral Session 7-1	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
				[Q&A] Oral Session 3-2	18:00-19:00	09:00-10:00	✓Confirmed	
W13	[Closing week]	Thursday	15	[Q&A] Oral Session 3-3	19:00-20:00	10:00-11:00	✓Confirmed	
				[Q&A] Oral Session 6-1	18:00-19:00	09:00-10:00	✓Confirmed	
		Friday	16	[Q&A] Oral Session 6-2	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
		Saturday	17					
		Sunday	18					
		Monday	19					
W14	[Closing week]	Tuesday	20	[Q&A] Oral Session 6-3	18:00-19:00	09:00-10:00	✓Confirmed	
		Wednesday	21	[Q&A] Oral Session 8-1	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
		Thursday	22	[Q&A] Oral Session 9-1	18:00-19:00	09:00-10:00	✓Confirmed	
				[Q&A] Oral Session 9-2	19:00-20:00	10:00-11:00	✓Confirmed	
		Friday	23					
		Saturday	24					
W15	[Closing week]	Sunday	25					
		Monday	26					
		Tuesday	27	[Q&A] Oral Session 10-1	18:00-19:00	09:00-10:00	✓Confirmed	
				[Q&A] Oral Session 10-2	01:00-02:00 (next day)	16:00-17:00	✓Confirmed	
		Wednesday	28	[Q&A] Oral Session 5-1	18:00-19:00	09:00-10:00	✓Confirmed	
		Thursday	29					
August	[Closing week]	Friday	30					
		Saturday	31					
		Sunday	1					
		Monday	2					
		Tuesday	3	Award Ceremony and Acknowledgement	18:00-19:30	09:00-10:30	✓Confirmed	
		Wednesday	4					
W16	[Closing week]	Thursday	5					
		Friday	6					
		Saturday	7					
		Sunday	8					
		Monday	9					
		Tuesday	10					
W17	[Closing week]	Wednesday	11					
		Thursday	12					
		Friday	13					





The 7<sup>th</sup> Conference of  
the International Society  
For Applied Phycology

# ISAP 2021

May 14, 2021 to August 13, 2021

Virtual Platform

# ISAP2021 Conference Results

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# The Number of Participants



<b>Participants</b>	362
Ordinary/Student	250/112
Corporation/Academic & Government	93/269
<b>Countries</b>	46
<b>Platform Access (14 May – 13 August)</b>	9595
<b>Live Session Participants (44 sessions)</b>	994
<b>SNS Followers</b>	
Twitter	161
Facebook	423
Instagram	234

# The Number of Presentations



Opening Ceremony	8
Plenary Talks	10
Panel Discussion	1
Special Session (6 sessions)	46
Oral Session (10 sessions)	100
Poster Session (6 sessions)	75
Exhibition Booth	11
Career Forum	5
Virtual Tour	3
B2B Meeting	15
Closing Ceremony	4
<b>Total</b>	<b>278</b>

# Settlement



Income	JPY (Unit in JPY 1,000)	memo
Registration fee	9,626	286 registrations
Sponsorship fee	5,700	
Exhibition booth	219	
Invitation / Donation	2,309	
Cancel fee (20%)	876	
Supporting from AIIIC	6,876	
<b>Total</b>	<b>25,607</b>	

Expense	JPY (Unit in JPY 1,000)	memo
PCO: Convention Linkage	14,342	
Others	1,136	
Personnel at secretariat of ISAP2021	7,785	
ISAP membership fee	2,343	Ordinary 60€@222 Student 45€@106
<b>Total</b>	<b>25,607</b>	





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## After ISAP2021 Conference Questionnaire

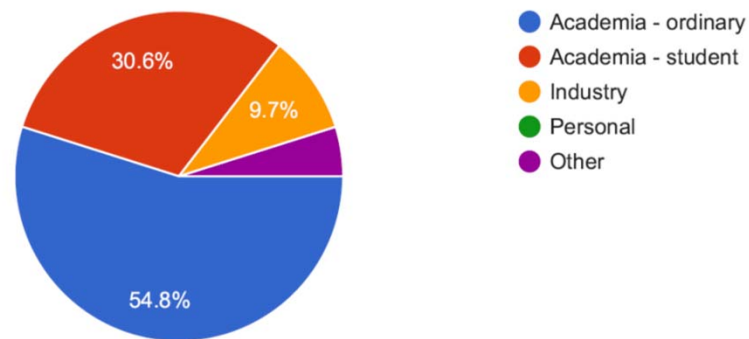
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# Survey Results (1)



1. Are you from academia or industry?

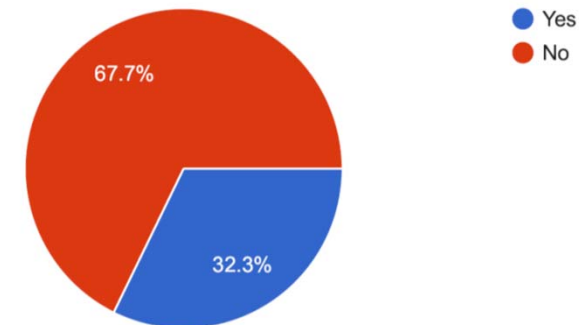
62 件の回答



survey results

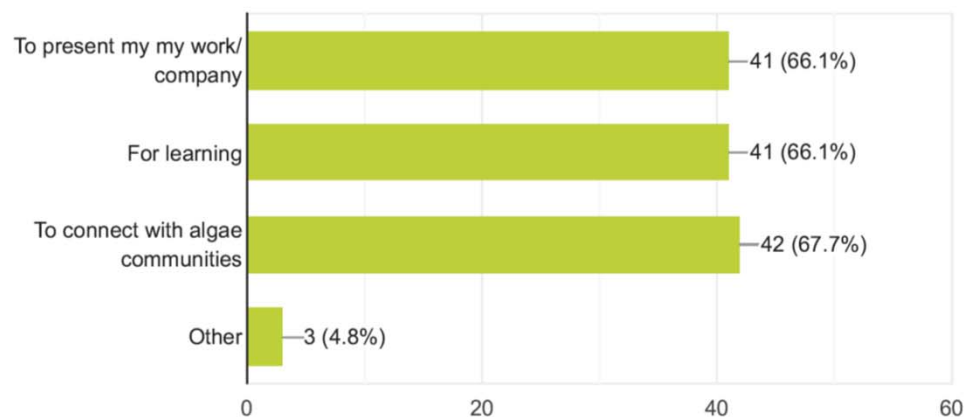
2. Have you attended previous ISAP conference(s)?

62 件の回答



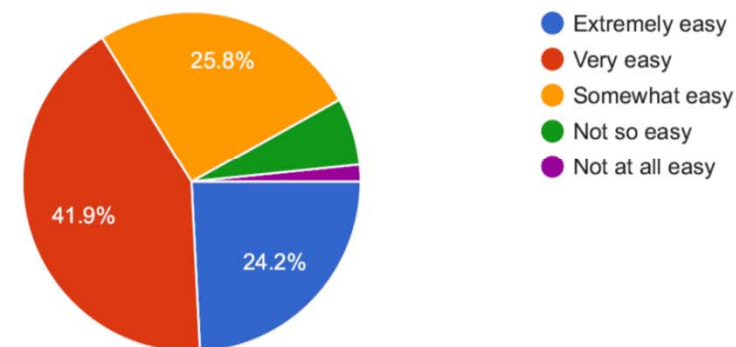
Q3. What was your motivation to attend the ISAP2021?

62 件の回答



Q4. How easy was it to register on our website?

62 件の回答



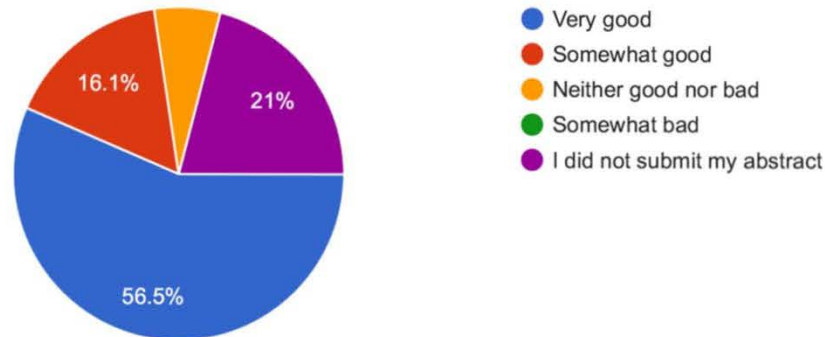


# Survey Results (2)



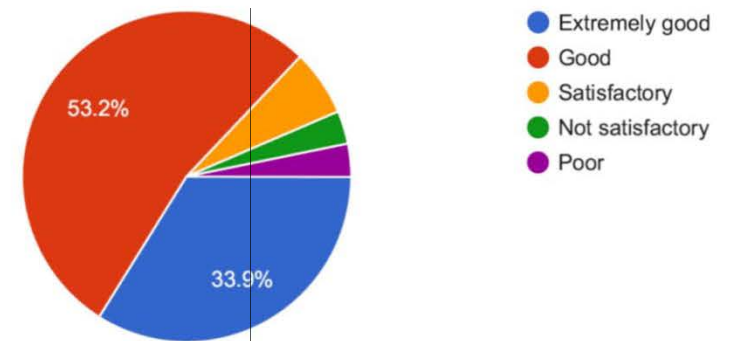
## 5. How was the abstract submission system?

62 件の回答



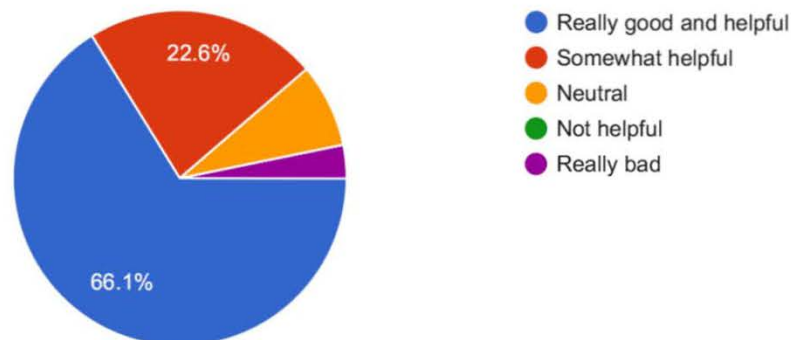
## 6. Overall impression of the website

62 件の回答



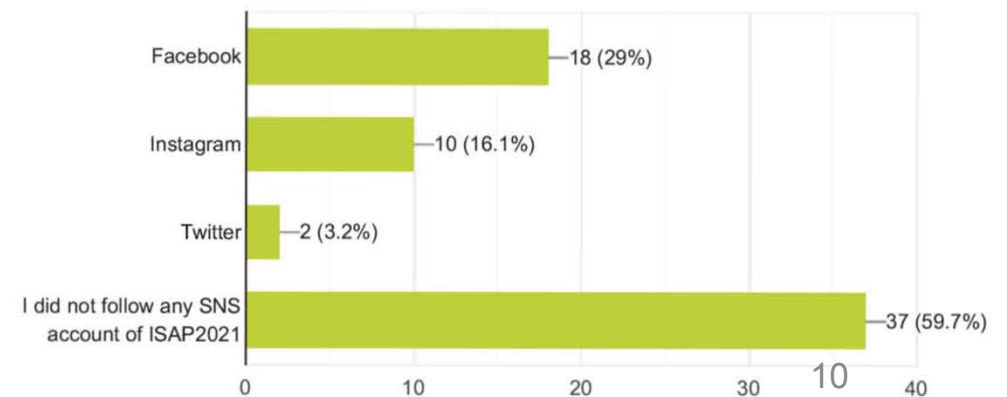
## 7. How do you find email communication of the organizer?

62 件の回答



## 8. Did you follow ISAP2021 account on any SNS?

62 件の回答

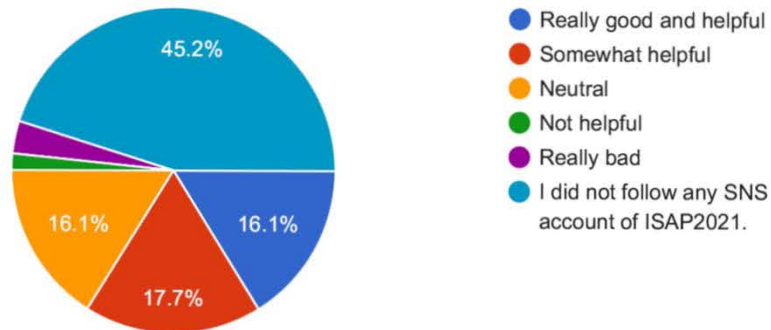


# Survey Results (3)



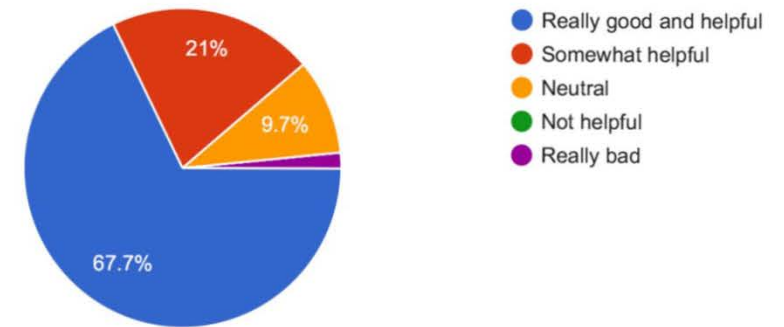
9. Did you find SNS communication useful?

62 件の回答



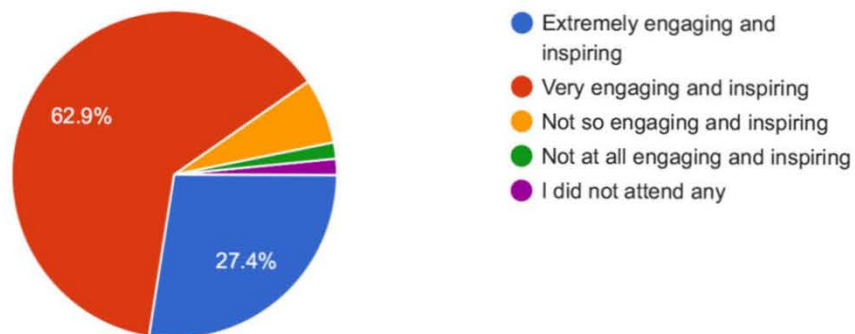
10. How was the help at the administrative secretariat?

62 件の回答



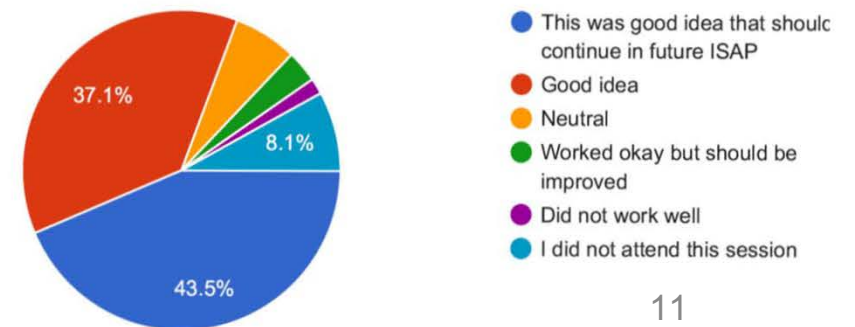
11. How engaging and inspiring were the plenary speakers at the event?

62 件の回答



12. How did the panel discussion work?

62 件の回答



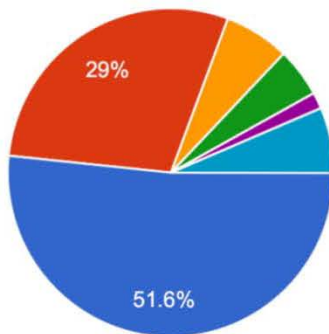


# Survey Results (4)



## 13. How did the Special Session work?

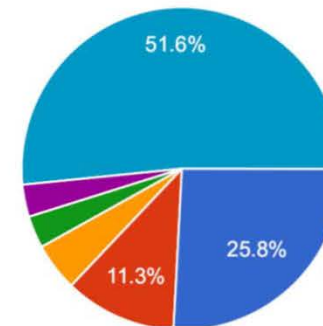
62 件の回答



- This was good idea that should continue in future ISAP
- Good idea
- Neutral
- Worked okay but should be improved
- Did not work well
- I did not attend this session

## 14. How did the Career Forum work?

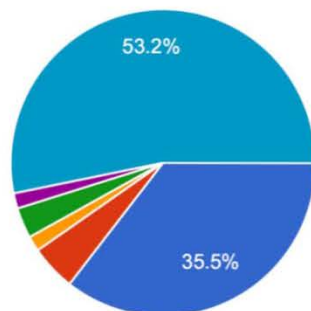
62 件の回答



- This was good idea that should continue in future ISAP
- Good idea
- Neutral
- Worked okay but should be improved
- Did not work well
- I did not attend this session

## 15. How did the Springer Writing Seminar work?

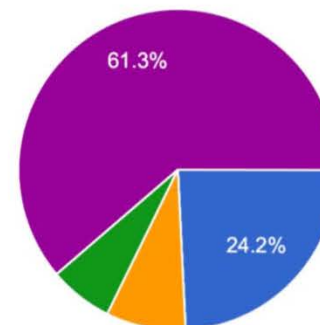
62 件の回答



- This was good idea that should continue in future ISAP
- Good idea
- Neutral
- Worked okay but should be improved
- Did not work well
- I did not attend this session

## 16. How did the B2B Meeting work?

62 件の回答



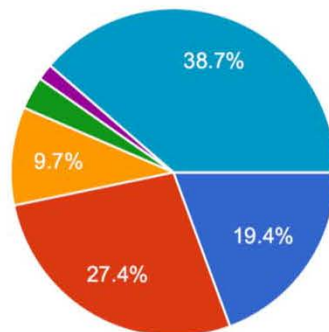
- Really good and would be good to continue in future ISAP
- I (My company) got new contact(s)
- Interested to be part of, but I did not participate actively
- This was not worth the time
- I did not attend this event

# Survey Results (5)



17. How did the Exhibition Booth work?

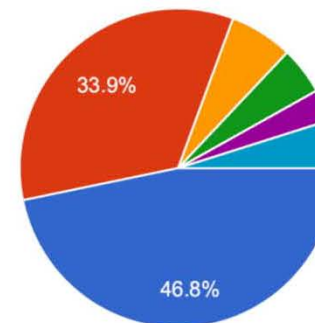
62 件の回答



- This was good idea that should continue in future ISAP
- Good idea
- Neutral
- Worked okay but should be improved
- Did not work well
- I did not attend this session

18. How did the LIVE sessions overall work?

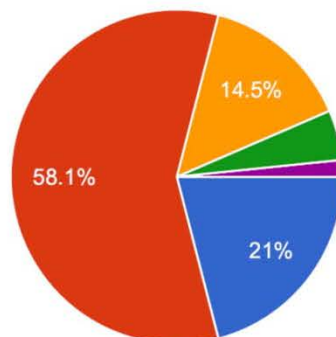
62 件の回答



- This was good idea that should continue in future ISAP
- Good idea
- Neutral
- Worked okay but should be improved
- Did not work well
- I did not attend this session

19. How easy was it to use the virtual platform?

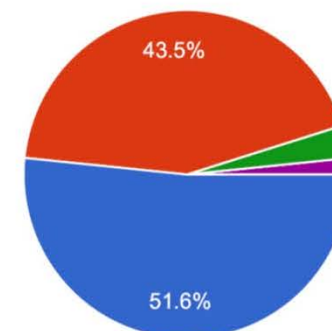
62 件の回答



- Extremely easy
- Very easy
- Somewhat easy
- Not so easy
- Not at all easy

20. Overall impression of the ISAP2021-virtual

62 件の回答



- Very good
- Good
- Bad
- Very bad
- Other

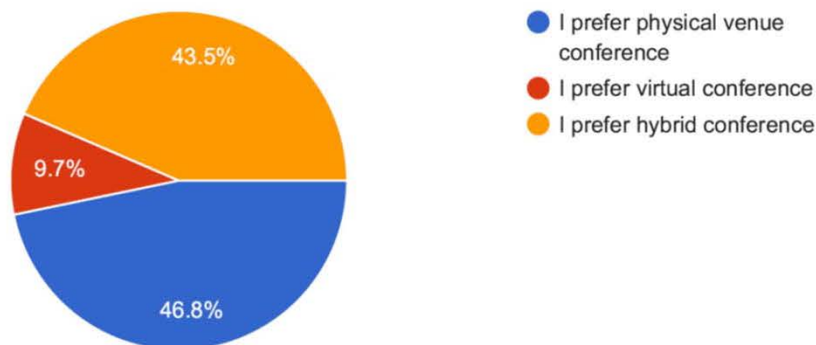


# Survey Results (6)



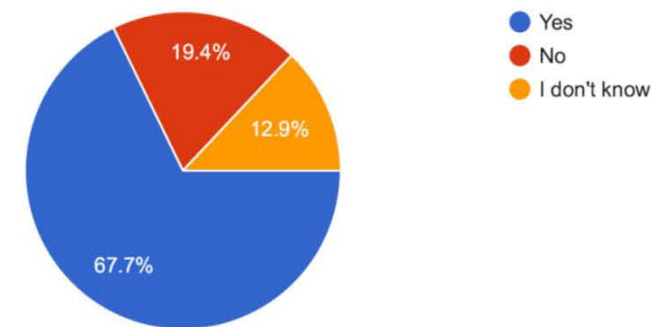
21. Which is your opinion on the virtual version of congresses?

62 件の回答



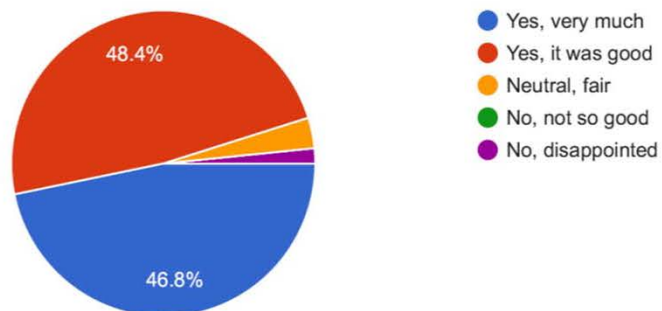
22. Should the next ISAP Congresses be organized in a dual way (in presence and virtual)?

62 件の回答



23. Generally speaking, do you think that the Congress was useful and inspiring for you?

62 件の回答



24. Do you have any suggestions or ideas for future ISAP conference, then please comment

16 件の回答

I hope for improvement

it was a very good conference, please keep it up

Let's continue to share our results to the scientific community and implement for the good of the industry.

Everything is fine and well executed!! Congratulations!! I hope the organizer can provide as a certificate for individual paper presentation.

Thank you very much to the organizers and Secretariat of ISAP 2021 for your excellent management under difficult COVID-19 pandemic situation!

# Survey Results (7) Other Comments

A great model of an on-line conference. Extremely well run and the extended format is a great idea. The hybrid timing also helps reduce the problems of time zones.

The hybrid conference will allow students to participate more.

A hybrid conference will provide opportunities for participants who have limited funding (e.g., students) to participate and be involved in ISAP sessions.

I hope we could quickly go back to Congresses in presence

The virtual form gave good opportunities to follow the conferences on-demand. But it is also more difficult to allocate time for it, compared to being on site for a fixed time period.

And above all, I really missed the interactions with other attendees, which is one of the main reasons for me to attend conferences

Live sessions were distributed among several weeks and months, it was not easy to stay tuned for each session of interest.

Might be interesting to have this type of sessions, even in a live conference

I prefer virtual conference because sometimes travelling is very difficult for me.

Physical venue conference help me to get one to one interaction with experts and help to visit foreian countries





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## AWARDS



Springer



# Distinguished Applied Phycologists



- **Prof. Eugenia Olguin**



- **Prof. Michael Guiry**



- **Prof. Yongding Liu**



# Outstanding Contributions to the ISAP



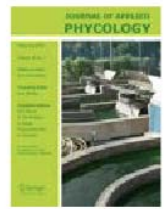
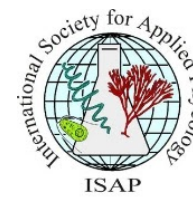
- **Prof. Michael Guiry**



- **Dr. Valeria Montalescot**



# Best Student Oral Presentation Awards – Seaweed



## 1. **Shareen A Abdul Malik**

University of South Brittany, France

CINVESTAV, Mexico

Untargeted metabolomic fingerprinting of *Halymenia floresii* secondary metabolites to investigate its defence on surface.



## 2. **Mathilde Fournière**

University of South Brittany, France

Production of Poly- and Oligosaccharidic Fractions from Macroalga *Ulva* sp.: Regulation of Extracellular Matrix Renewal in Human Skin Fibroblasts.



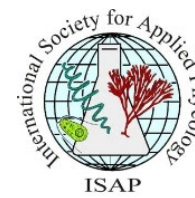
## 3. **Deepak Pandey**

Nord University, Norway

Seasonal impacts on the chemical composition and in-vitro rumen fermentation characteristics of various seaweed species.



# Best Student Poster Presentation Awards – Seaweed



1. **Claudia L. Cara Ortega**

National University of Ireland Galway, Ireland

Biochemical changes upon seaweed-microbiome interaction.



2. **Jee Grace B. Suyo**

University of Philippines Visayas, Philippines

What are the sustainability issues in the Philippine seaweed industry?

– Insights from stakeholders

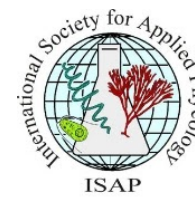


3. **Nora Salland**

Marine Biological Association & University of Southampton, UK

Climate change responses of NE Atlantic kelps. *Saccorhiza polyschides* as an ocean warming "winner" in the UK?

# Best Student Oral Presentation Awards – Microalgae



## 1. Ben Leyland

Ben-Gurion University of the Negev, Israel

The lipid droplet proteome of the oleaginous model pennate diatom, *Phaeodactylum tricornutum*.



## 2. Mariana Ribeiro Carneiro

University of Porto, Portugal

Growth and PSII performance of *Nannochloropsis oceanica* grown in three different pilot-scale cultivation systems outdoors.

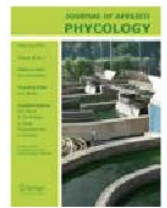
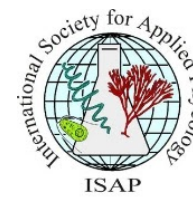


## 3. Hajar Shayesteh

Murdoch University, Australia

CO<sub>2</sub> effect on microalgal growth in abattoir effluent.

# Best Student Poster Presentation Awards – Microalgae



## 1. Chihiro Yoshida

Meiji University, Japan

Development of organic acid production from *Cyanidioschyzon merolae*.



## 2. Kyoko Tamura

University of Tsukuba, Japan

Hydrothermal Liquefaction of polycultured microalgae: Yield and properties of biocrude.



## 3. Damaristelma de Jesús Campos

University of Sonora, Mexico

Nitrogen deficiency modifies the chemical profile and expression levels of the NRT2 and DGAT2 genes in marine diatom *Chaetoceros muelleri*.





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# Acknowledgements

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# Sponsors

## Platinum Sponsors



## Gold Sponsors



## Silver Sponsors



## Grant Sponsors



EUROPEAN ALGAE BIOMASS ASSOCIATION



Algae Industry Incubation Consortium JAPAN

## Award Sponsor





# Speakers (1)



## Opening Ceremony

Céline Rebours  
Makoto M Watanabe  
Joerg Schnackenberg  
Marco Lizzul  
Katja Thoma  
Kameswaraw Natakusumah

## Plenary Talks

Osamu Inoue  
Mitsuru Izumo  
Michele Suzanne Stanley  
John Beardall  
Danxiang Han  
Anna Amtmann  
Gabriel Acién Fernández  
Christine Edwards  
Alan T. Critchley  
Pi Nyvall Collén  
Jean-Paul Cadoret  
Michele Barbier

## Panel Discussion

Amha Belay  
Vitor Verdelho Vieira  
Kengo Suzuki

## Special Session

Weiwen Zhang  
Ohta Hiroyuki  
Yandu Lu  
Elodie Billey  
Inna Khozin-Goldberg  
Giuseppe Torzillo  
John Beardall  
Michael A. Borowitzka  
Joseph Weissman  
Avraham Ben Shelg  
Keiji Numata  
Midori Yamashiro  
Hongyi Gan  
Lieve Laurens  
Aga Pinowska  
John R. Benemann  
Jake Nalley  
Dan Fishman  
Rebecca White  
Navid Moheimani,  
Dominique Grizeau  
Masashi Kijima  
Hirofumi Matsui  
Qi ZhiZhong  
Tao Liu  
Cicilia KAMBEY  
Melba Bondad-Reantaso  
Tryg Lyndquist

## Special Session

F. Gabriel Acien Fernandez  
Rupert Craggs  
Sonia Chamizo  
Miriam Munoz-Rochas  
Vincent J.M.N.L. Felde  
Alessandra Adessi  
Lisa Campbell  
Michael Brosnahan  
Katrina Campbell  
Vitor Vascoceles

## Career Forum

Michele Barbier,  
Vitor Verdelho  
Kengo Suzuki  
Leila Hayashi  
Alan T. Critchley  
Céline Rebours

## Exhibition Booth

Euglena  
MoBiol Technology  
DENSO  
MITSUBISHI KAKOKI  
AstaReal  
DIC Corporation  
AIIC, Japan  
NIES, Japan

## Exhibition Booth

Oroboros Instruments  
Varicon  
Aqua Solution  
Biorea

## B2B Meeting

Makoto M. Watanabe  
Navidreza Moheimani  
Alan T. Critchley  
Michele Barbier  
Tsuyoshi Takeshita  
Su Chern Foo  
Dagon M Ribeiro  
Solomon M Birhanu  
Jaap W. Van Hal  
Eldrin DLR. Arguelles  
YI AN LIM  
Shareen A Abdul Malik  
Mais Ahed Sweiss  
Joerg Schnackenberg  
Marco Lizzul





## Speakers (2)

### Oral Presentation

Lara Elisabeth Stuthmann	Miguel Olaizola
Ryuta Terada	Todd W Lane
Sukunya Oaew	Imke Lang
Thomas Kiran Marella	Iona Campbell
Touria Bounnit	Kricelle M. Deamici
Ben Leyland	Noppathonthan Aowtrakool
Georgia Papapanagiotou	Wahidatul Husna Zuldin
Hirono Suzuki	Sol Han
Hugo Pliego-Cortés	Christian Kleinert
Inna Khozin-Goldberg	Christine N Campbell
Maria Huete-Ortega	Emeka G Nwoba
Erich Gnaiger	Ibrahim Ahmed Mohammed
Mariana R. Carneiro	Peter S. Schmedes
Shareen A Abdul Malik	Celine Laroche
Tiphane Andrade Figueira	Emily T Kostas
Yanan Xu	Frédérica Feuzing
Asilah Al-Has	Jie Chen
Md. Nazrul Islam	Emilio Molina Grima
Rema C. Sibonga	Ronan Pierre
Vishal Vasudeo Patil	Keelan C. Lawlor
Z-Z. A. Aguinaldo	Zhenyu Zhao
Andre V. F. Faria	Jessica Adams
Fernanda Bouvie	Yixing Sui
Julia A Mackin-McLaughlin	F. Delrue
Julie Seveno	Jian Li
Michael Marty-Rivera	Céline Rebours
Younes Boundir	Valeria Montalescot
Celine Laroche	Renu Geetha Bai
Dagon M Ribeiro	Thiruchenduran
Leila Hayashi	Somasundaram
	Majid Khan Majahar Ali

### Poster Presentation

Tomoyo Katayama	Jacob Andrew Searle	Florian Delrue
Miyabi Murakami	Tsuyoshi Takeshita	Janet B Garcia Martinez
Fernando Gaspar Dellatorre	Kyoko Tamura	Yoko Ide
Chun Hung Man	Sosaku Ichikawa	Carola Griehl
Tianjing Yang	HirotaKa Kakita	Toru Aramaki
Toshihisa Nomura	Lidia Martin-Gordillo	Itsuki Aramaki
Mustapha Mohamed-Benkada	Aleksandra I. Golubeva	Nives Novosel
Aldo Borjas	Thierry Jauffrais	Supenya Chittapun
Khaoula Yahyaoui	Hyein Song	Céline Rebours
Andres F Barajas-Solano	Ioannis Tzovenis	Satoko Komatsu
Thomas M. Hauser	Amel ISMAIL	Ayaka Nakashima
Md Musa Howlader	Nora Went	Tatsufumi Okino
Imen Hmani	Deepak Sethi	Thierry Jauffrais
Andres F Barajas-Solano	Noreen Khattak	Rebeca Andre
HirotaKa Kakita	Madalena Mendes	Leila Ktari
Miki T. Takada	Nestor A Urbina-suarez	Ioannis Tzovenis
Gabrielle Zammit	Kolos Makay	Claudia B Grewe
Nora Salland	Claudia L. Cara	Leila Hayashi
Ross Mark Coppin	Kolos Makay	Raman Kumar
Susan L Holdt	Maria Robles	Jee Grace B. Suyo
Chihiro Yoshida	Damaristelma de. Jesús-Susan L Holdt	
Fleuriane Fernandes	Campos	
Sakura Nakagawa	Anicia Q. Hurtado	
J. P. Lovio-Fragoso	Jonalyn P. Mateo	
Carola Griehl	Jonalyn P. Mateo	
Gabriel Acien	Joseph P. Faisan, Jr.	
Emilio Molina-Grima	HirotaKa Kakita	

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## Chairs

### Opening Lecture

Céline Rebours  
Makoto M Watanabe

### Plenary Talks

Qiang Hu  
Valeria Montalescot  
Céline Rebours  
Roberto De Philippis

### Panel Discussion

Qiang Hu  
Makoto M Watanabe

### Special Session

Jian Xu  
Avigad Vonshak  
Masatoshi Iji  
Philip T. Pienkos  
Jack Legrand  
Elizabeth COTTIER-COOK  
Phaik Eem LIM  
John R. Benemann  
Roberto De Philippis  
Linda Medlin

### Career Forum

Leila Katri  
Chihana Toyokawa

### Springer Writing Seminar

Alexandrine Cheronet

### Oral Session

Ryuta Terada  
Thomas Kiran Marella  
Hugo Pliego-Cortés  
Inna Khozin-Goldberg  
Erich Gnaiger  
Md. Nazrul Islam  
Rema C. Sibonga  
Fernanda Bouvie  
Younes Boundir  
Leila Hayashi  
Miguel Olaizola  
Iona Campbell  
Kricelle M. Deamici  
Christine N Campbell  
Peter S. Schmedes  
Celine Laroche

### Oral Session

Emily T Kostas  
Ronan Pierre  
Keelan C. Lawlor  
Antonio Gavalas Olea  
Céline Rebours  
Damien Stringer  
Yuta Okamoto  
Eugenia J. Olguin  
Jaap W. van Hal  
Jessica Knoop  
Tiphane Figueira  
Andreas Isdepsky  
Andrew James Ward  
Navid R Moheimani  
Michael A. Borowitzka  
Xuefeng Lu  
Hywel D Griffiths  
Pierrick Stévant

## Student's reviewers



### Students' reviewers (Oral)

Ryuta Terada	Celine Laroche
Thomas Kiran Marella	Ronan Pierre
Hugo Pliego-Cortés	Valeria Montalescot
Inna Khozin-Goldberg	Antonio Gavalas Olea
Qiang Hu	Damien Stringer
Md. Nazrul Islam	Eugenia J. Olguin
Rema C. Sibonga	Jaap W. van Hal
Leila Ktari	Jessica Knoop
Roberto De Philippis	EonSeon Jin
Leila Hayashi	Andrew James Ward
Celine Rebours	Andreas Isdepsky
Iona Campbell	Navid R Moheimani
Christine Campbell	Michael A. Borowitzka
Sammy Boussiba	Xuefeng Lu
Emily Kostas	

### Students' reviewers (Poster)

Kinya Atsumi  
Misako Kato  
Keiichi Mochida  
Tatsufumi Okino  
Masakazu Aoki  
Makoto M. Watanabe



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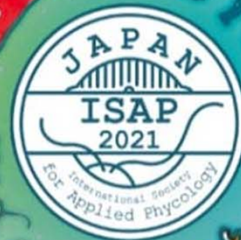
**Tatsufumi Okino** (Hokkaido University)

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Thank you



Illustrated by Hiroko Uchida