

Survey on GCIRC and its website

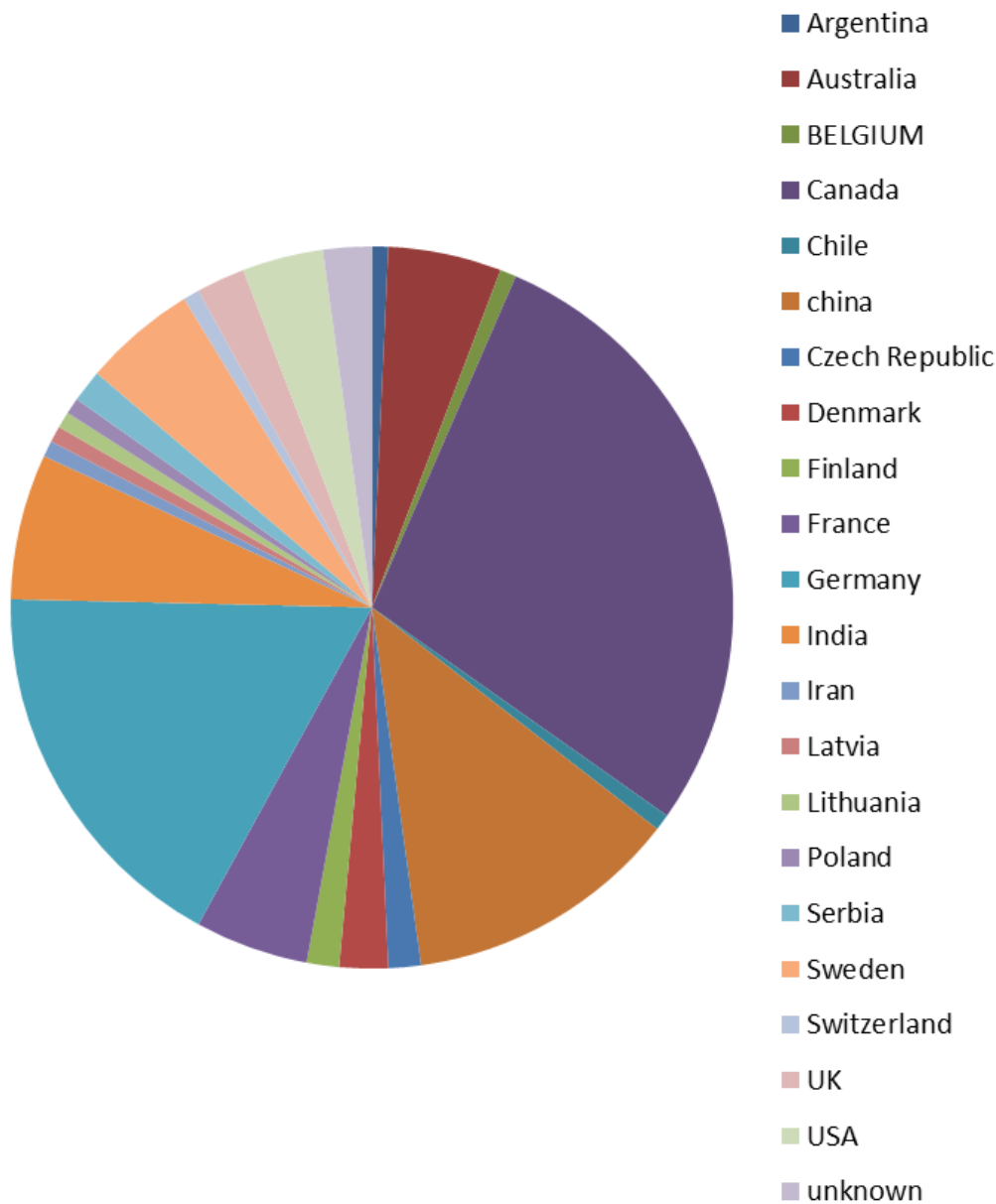
March 30th, 2018



2 questionnaires for Members and non members

- 33 answers from members (on 84 available e.mail addresses) → 39,3%
- 105 answers from non members (on 837 available e.mail addresses) → 12,5%

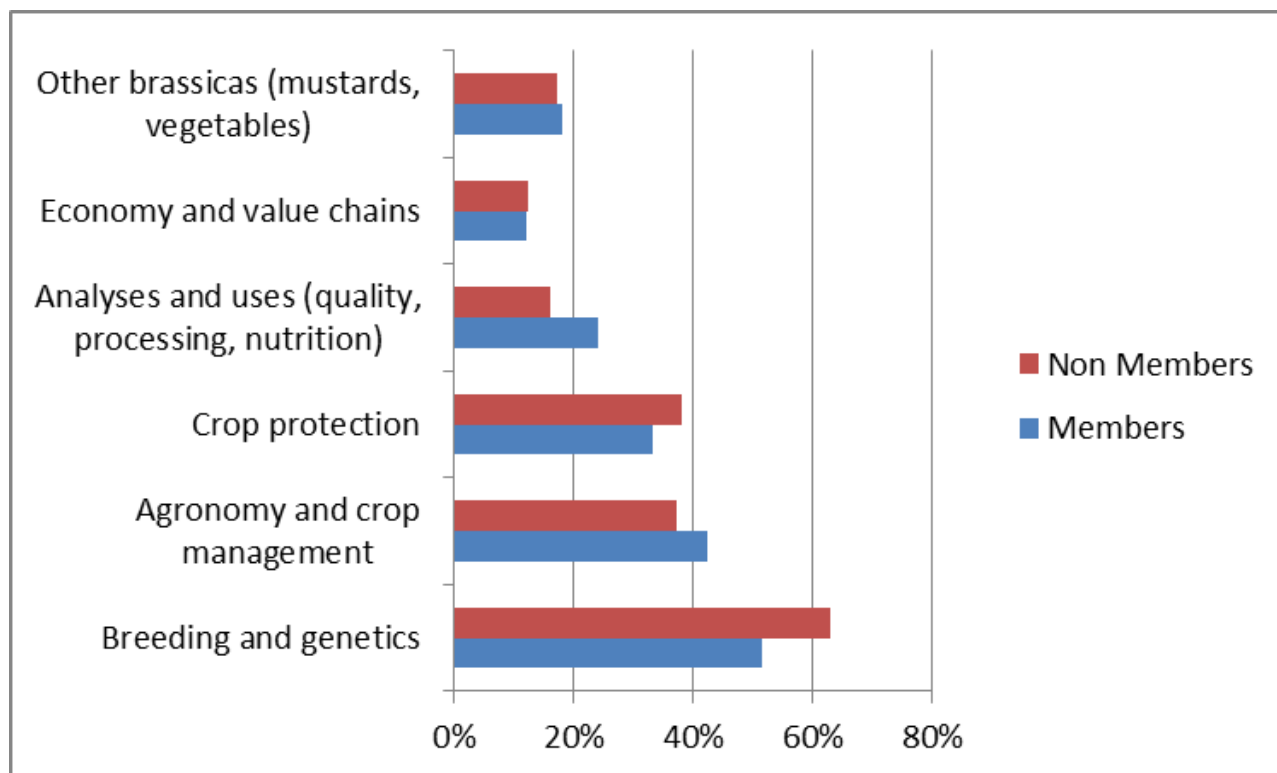
Countries



Country	Member s	Member s	TOTAL
Argentina	0	1	1
Australia	4	3	7
BELGIUM	1	0	1
Canada	6	33	39
Chile	0	1	1
china	2	15	17
Czech Republic	1	1	2
Denmark	3	0	3
Finland	1	1	2
France	3	4	7
Germany	4	20	24
India	2	7	9
Iran	0	1	1
Latvia	0	1	1
Lithuania	0	1	1
Poland	1	0	1
Serbia	0	2	2
Sweden	1	6	7
Switzerland	1	0	1
UK	2	1	3
USA	0	5	5
unknown	1	2	3
	33	105	138

Main Fields of Interest

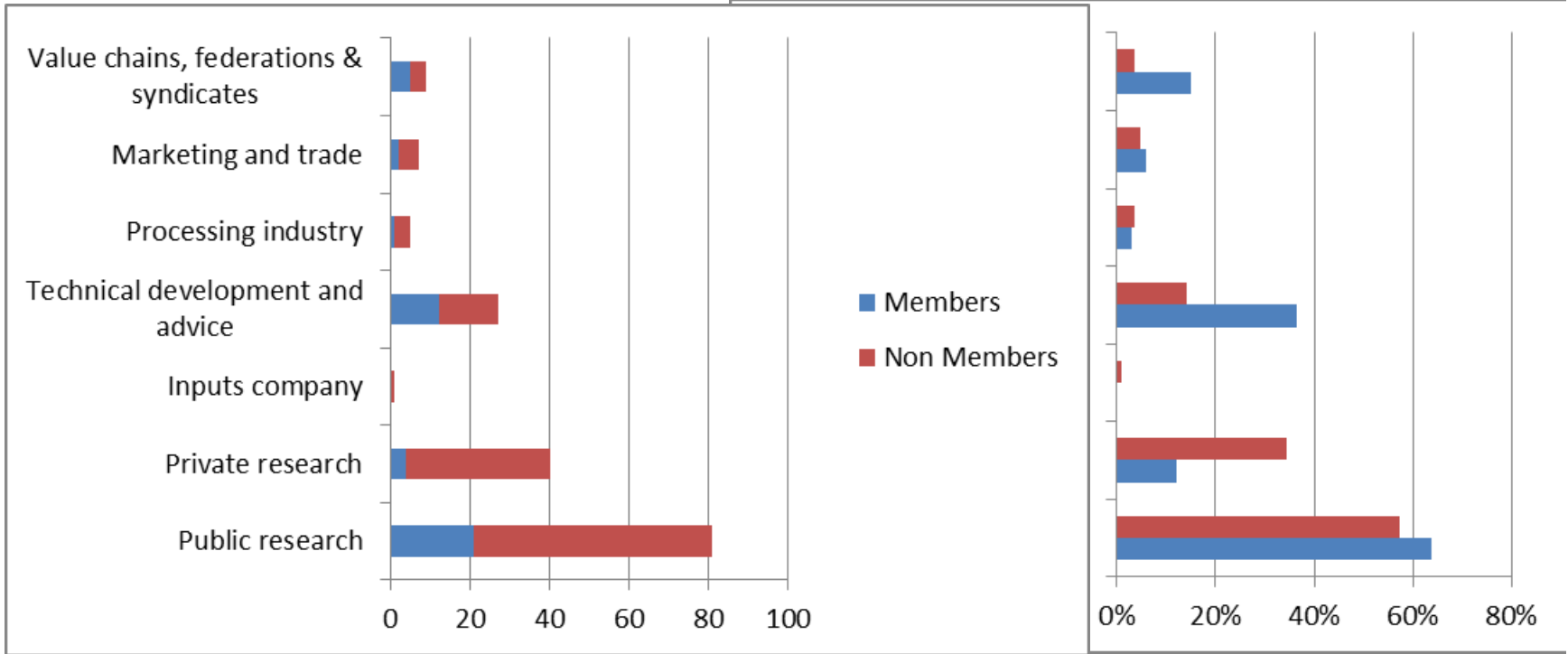
In % of participants
(several choices
Possible.
Average: 1,82 choices
per participant



Main field of interest	Members	Non Members	TOTAL
Breeding and genetics	17	66	83
Agronomy and crop management	14	39	53
Crop protection	11	40	51
Analyses and uses (quality, processing, nutrition)	8	17	25
Economy and value chains	4	13	17
Other brassicas (mustards, vegetables)	6	18	24

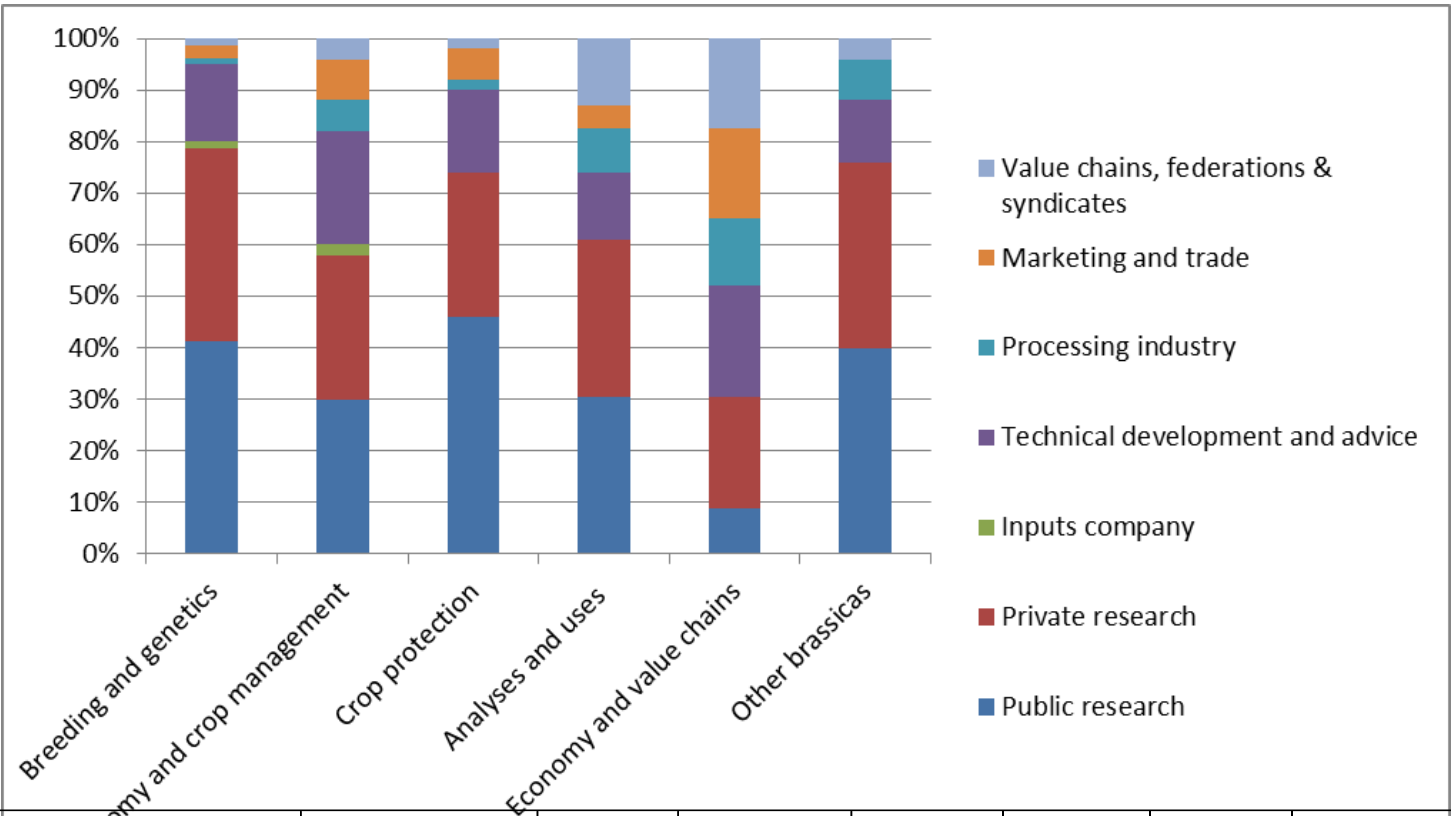
Main field of interest	Members	Non Members
Breeding and genetics	52%	63%
Agronomy and crop management	42%	37%
Crop protection	33%	38%
Analyses and uses (quality, processing, nutrition)	24%	16%
Economy and value chains	12%	12%
Other brassicas (mustards, vegetables)	18%	17%

Your field of work



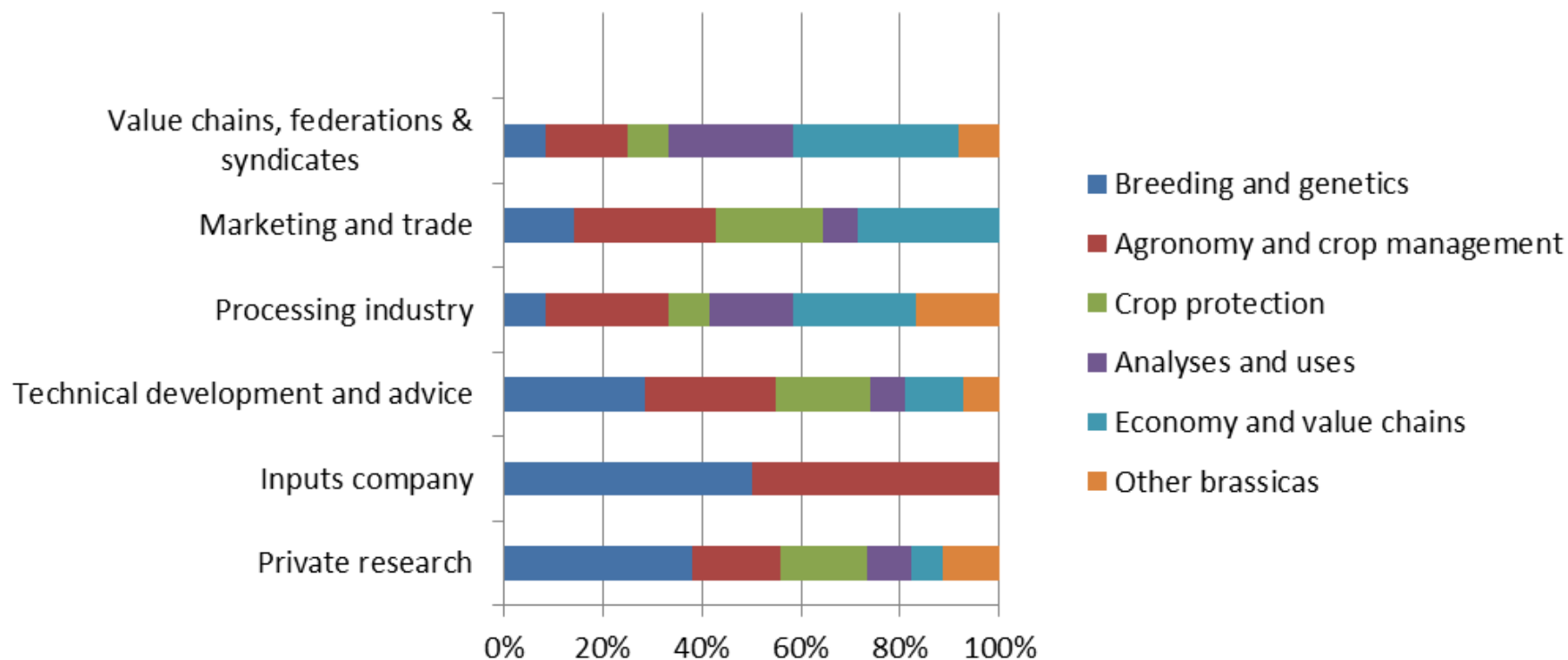
Your field of work	Members	Non Members
Public research	21	60
Private research	4	36
Inputs company	0	1
Technical development and advice	12	15
Processing industry	1	4
Marketing and trade	2	5
Value chains, federations & syndicates	5	4
	45	125

Who is interested in?
(non members)



105 answers	Public research	Private research	Inputs company	Technical developme nt and advice	Processing industry	Marketing and trade	Value chains, federations & syndicates
Breeding and genetics	33	30	1	12	1	2	1
	41,25%	37,50%	1,25%	15%	1,25%	2,50%	1,25%
Agronomy and crop management	15	14	1	11	3	4	2
	30%	28%	2%	22%	6%	8%	4%
Crop protection	23	14	0	8	1	3	1
	46%	28%	0%	16%	2%	6%	2%
Analyses and uses (quality, processing,	7	7	0	3	2	1	3
	30,43%	30,43%	0%	13,04%	8,70%	4,35%	13,04%
Economy and value chains	2	5	0	5	3	4	4
	8,70%	21,74%	0%	21,74%	13,04%	17,39%	17,39%
Other brassicas (mustards, vegetables)	10	9	0	3	2	0	1
	40%	36%	0%	12%	8%	0%	4%

Fields of interests for Professional populations (non members)

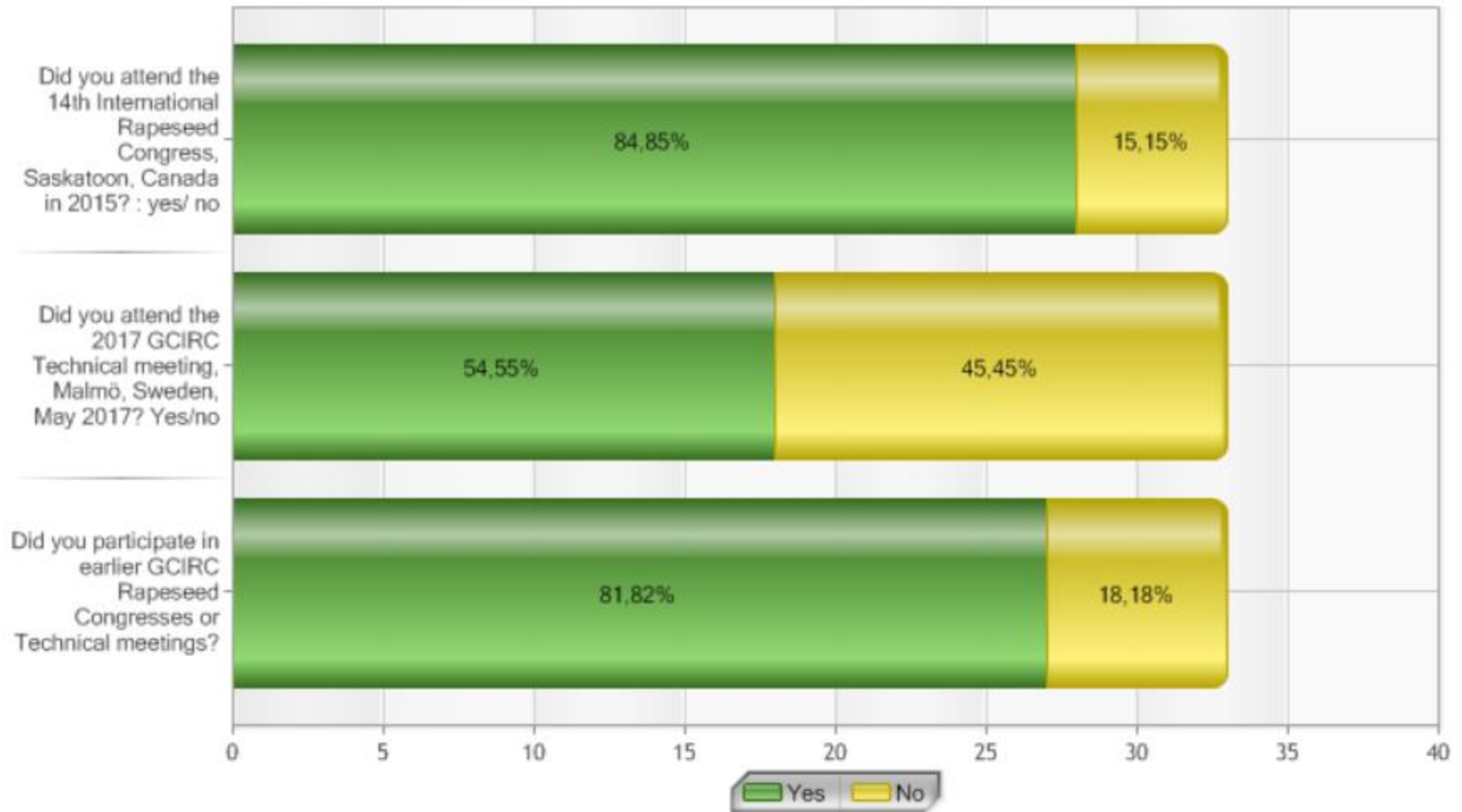


105 participants	Breeding and genetics	Agronomy and crop management	Crop protection	Analyses and uses	Economy and value chains	Other brassicas	nber of answers
Public research	36,67%	16,67%	25,56%	7,78%	2,22%	11,11%	90
Private research	37,97%	17,72%	17,72%	8,86%	6,33%	11,39%	79
Inputs company	50%	50%	0%	0%	0%	0%	2
Technical development and advice	28,57%	26,19%	19,05%	7,14%	11,90%	7,14%	42
Processing industry	8,33%	25%	8,33%	16,67%	25%	16,67%	12
Marketing and trade	14,29%	28,57%	21,43%	7,14%	28,57%	0%	14
Value chains, federations & syndicates	8,33%	16,67%	8,33%	25%	33,33%	8,33%	12

Your age

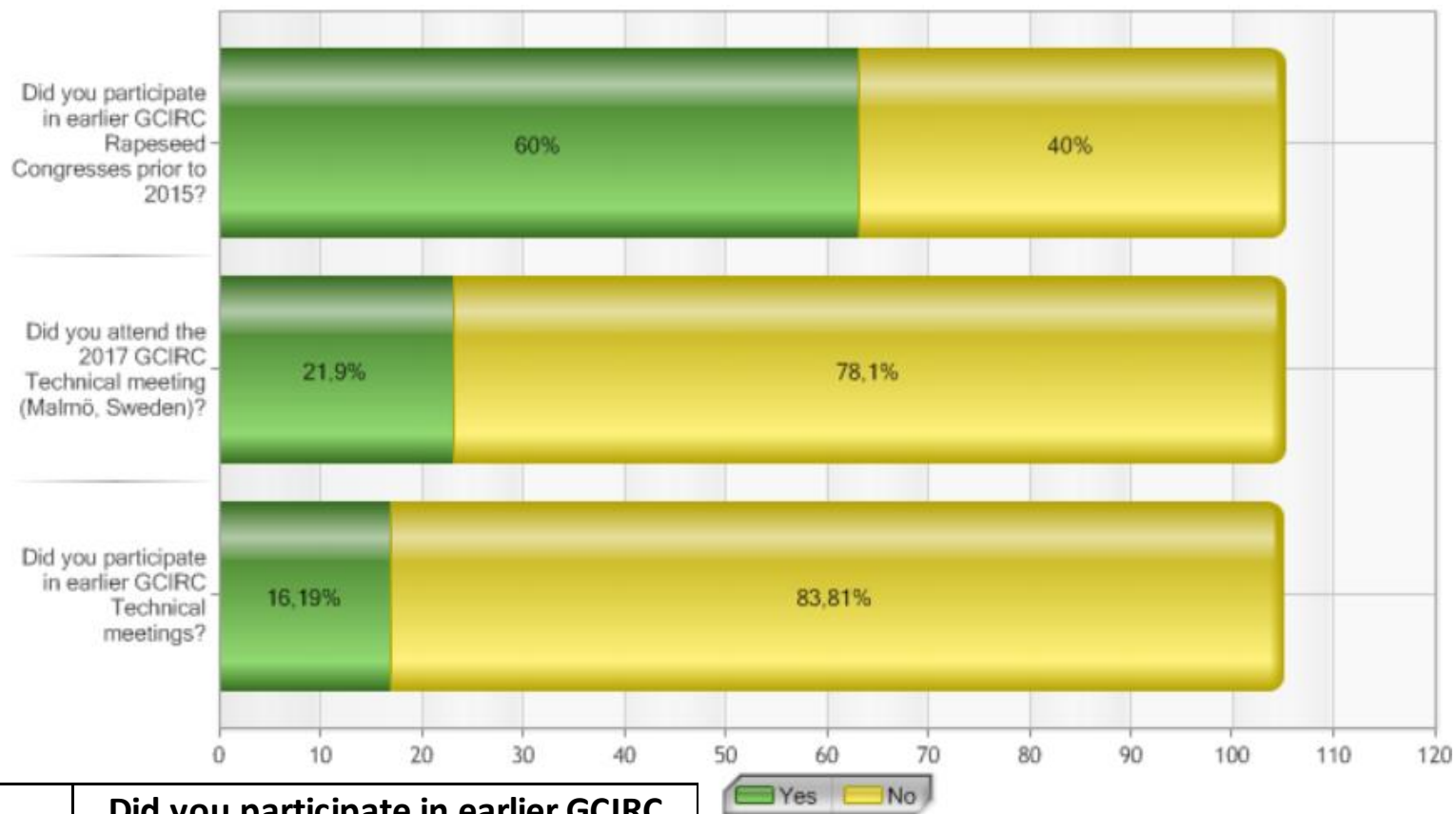
Your age	Members	Non Members	difference
nber of answers	23	42	
%	70%	40%	
mean	57,3	46,4	-11,0
min	41	25	-16,0
max	70	79	9,0

Participation to congresses and TM / MEMBERS



On 33 answers

Participation to congresses and TM / NON MEMBERS

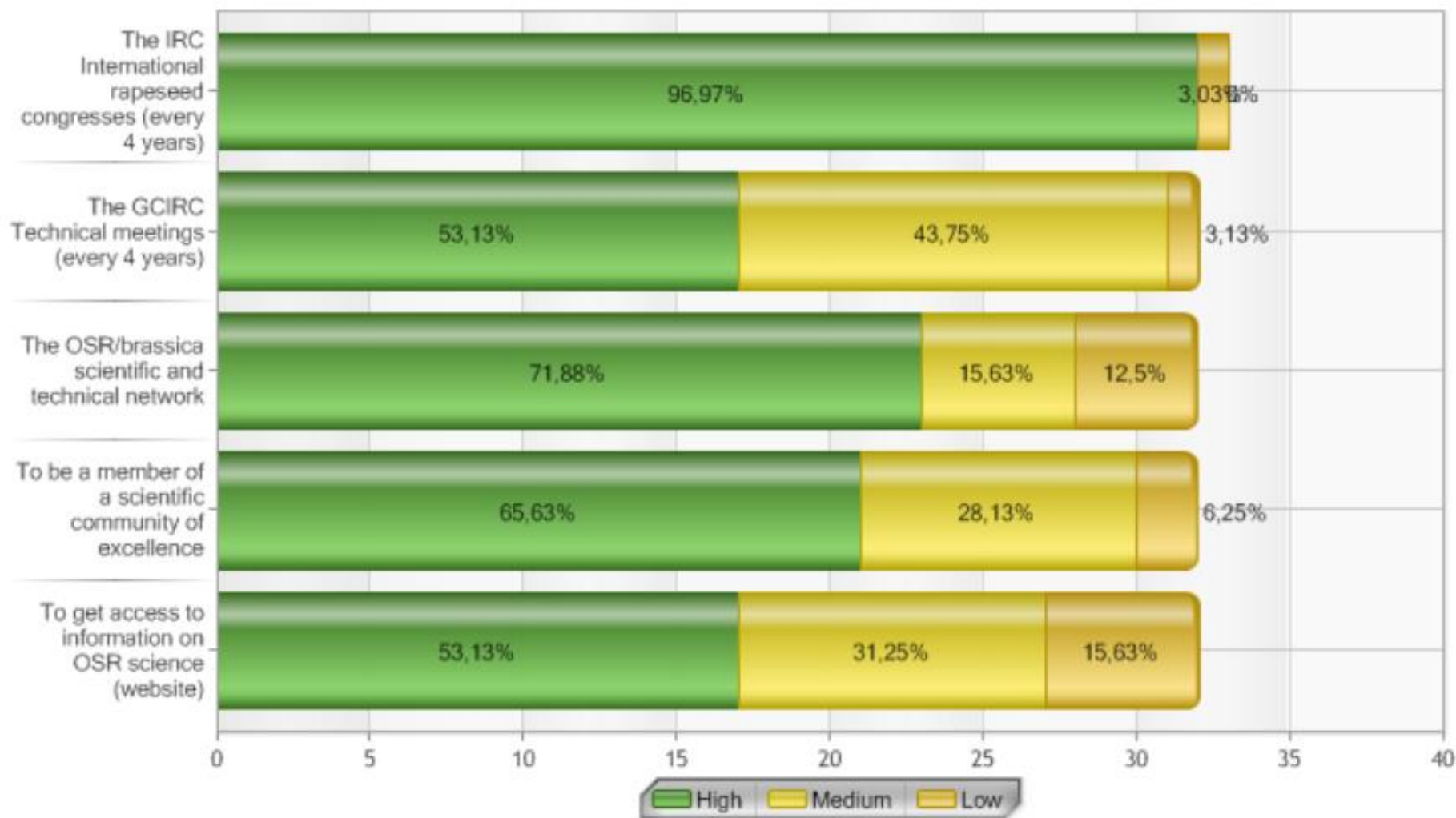


NON MEMBERS	Did you participate in earlier GCIRC Rapeseed Congresses prior to 2015?			
		YES	NO	TOTAL
Did you attend the 2017 GCIRC Technical meeting	YES	11 (48%)	12 (52%)	23
	NO	52 (63%)	30 (37%)	82
	TOTAL	63	42	

NB: all participated to the IRC14 in 2015: 105 answers

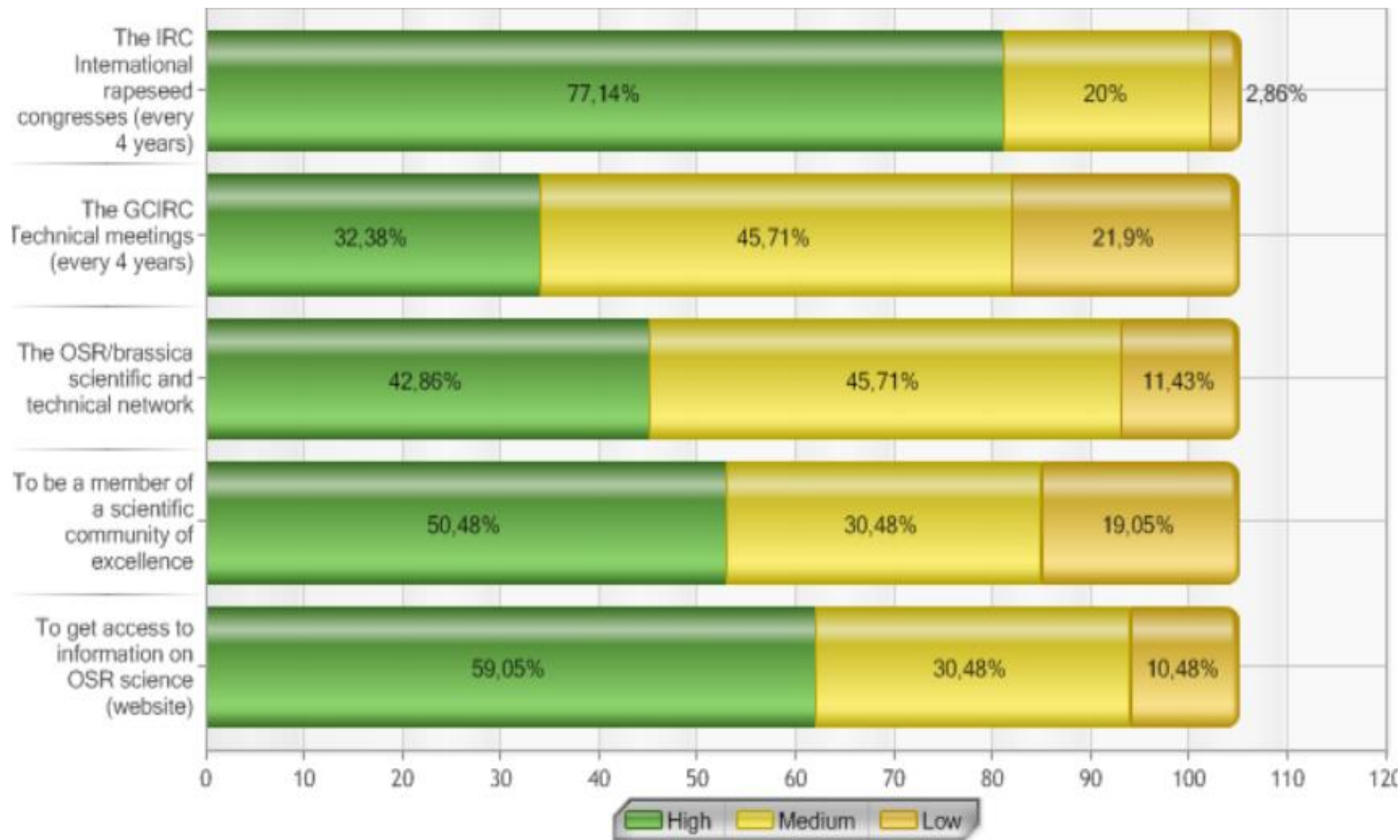
What are your main interests in GCIRC activities?

MEMBERS



What are your main interests in GCIRC activities?

NON MEMBERS



What are your main interests in GCIRC activities?

	MEMBERS				NON MEMBERS			
	High	Medium	Low	TOTAL	High	Medium	Low	TOTAL
The IRC International rapeseed congresses (every 4 years)	32	0	1	33	81	21	3	105
The GCIRC Technical meetings (every 4 years)	17	14	1	32	34	48	23	105
The OSR/brassica scientific and technical network	23	5	4	32	45	48	12	105
To be a member of a scientific community of excellence	21	9	2	32	53	32	20	105
To get access to information on OSR science (website)	17	10	5		62	32	11	105

What are your main interests in GCIRC activities?

Other interests

- Members

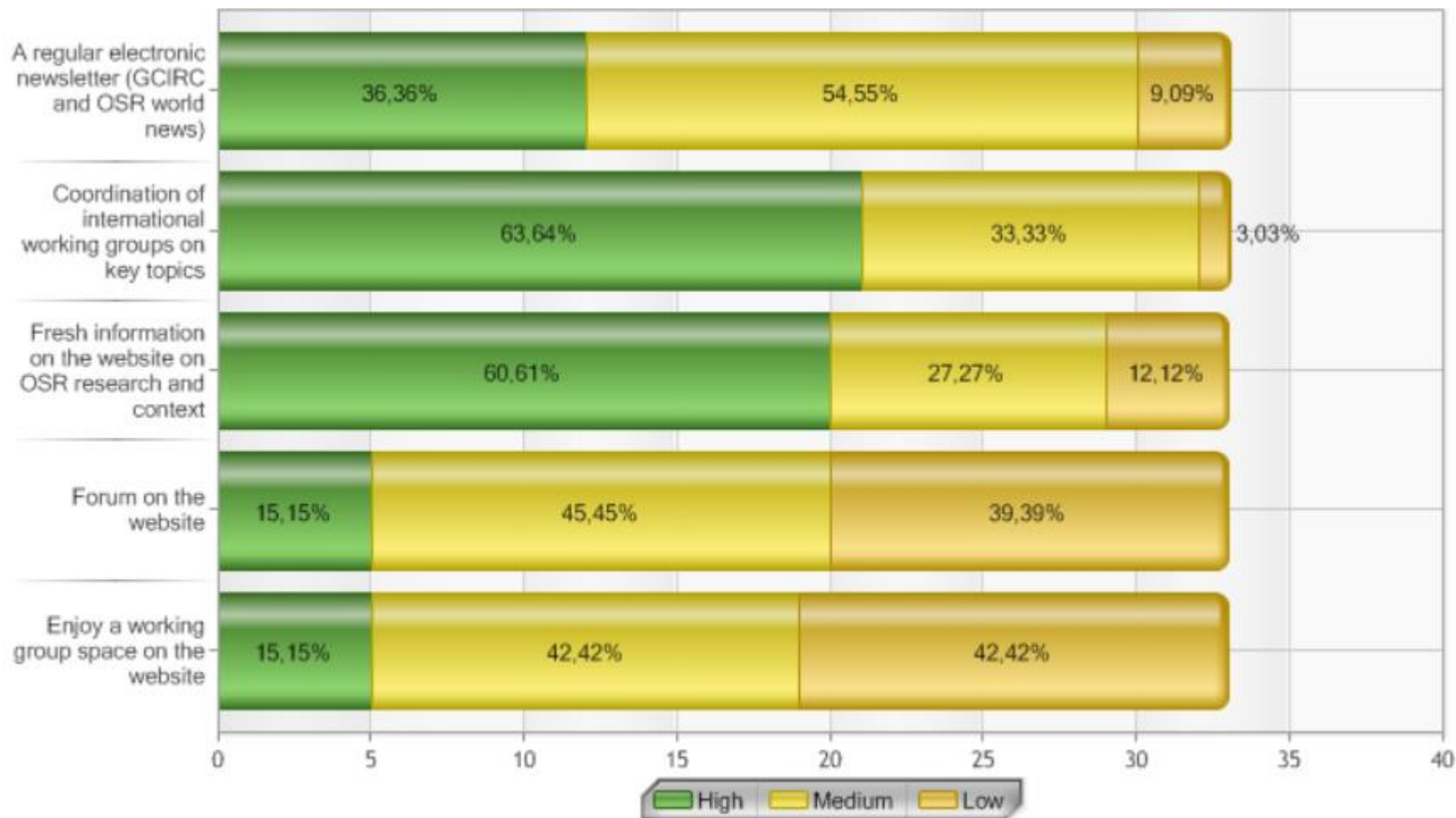
- « I think that it could be of great interest to identify some topics of interest to federate the OSR community (i.e. impact of genome structure on breeding programs, insects, crop management...)» (F)
- “to get access to representative of each country” (F)

- Non members

- « strengthen the collaboration on germplasm development” (China)
- “Visit major areas of OSR production around the world.” (USA)
- “global connectivity drives local adoption- we must strive to avoid duplication and build on the results of others to benefit canola growers” (Can)
- “GCIRC is a platform to discuss International collaborations” (In)
- “Strong interest for oil seeds” (F)

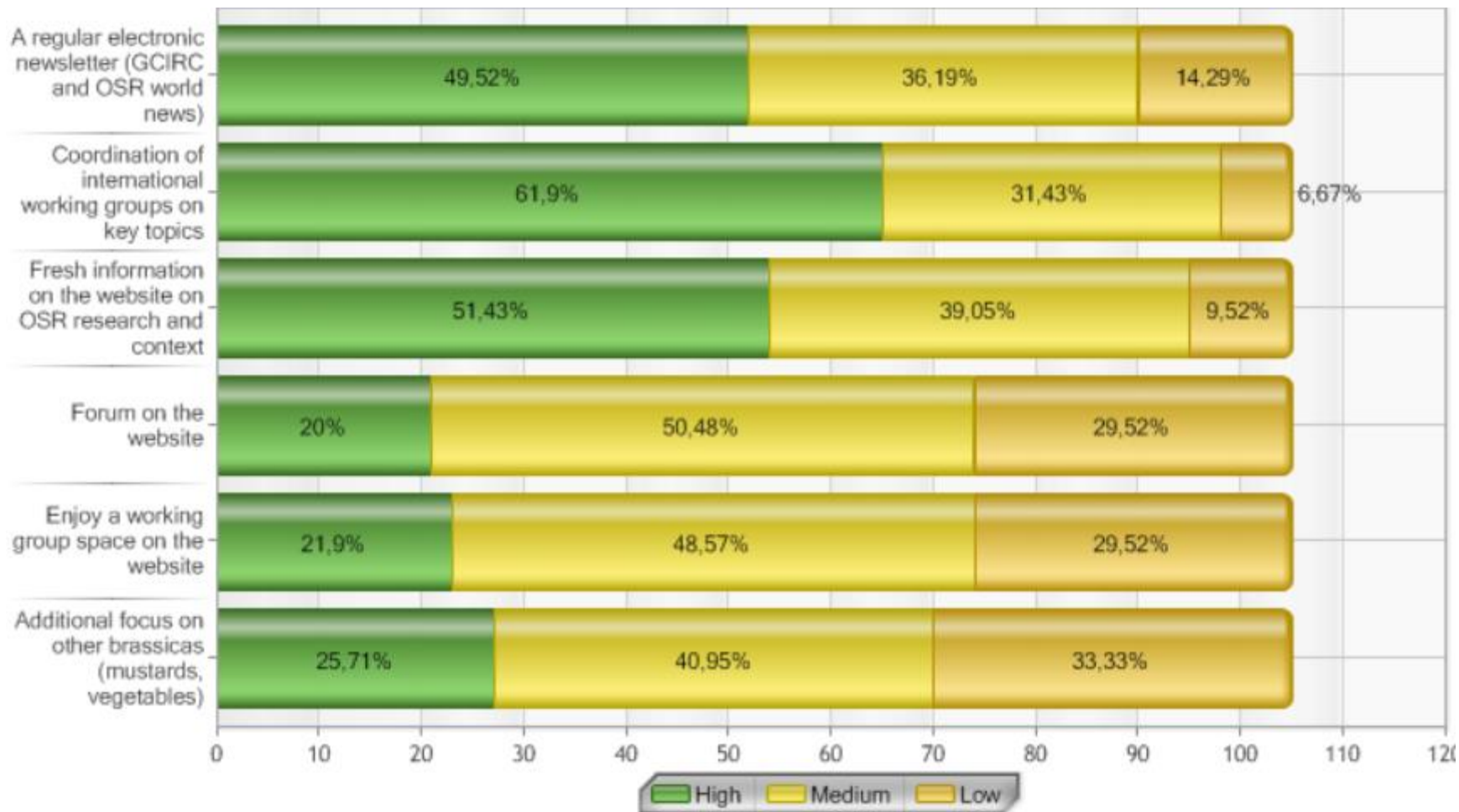
What would you expect more from GCIRC?

MEMBERS



What would you expect more from GCIRC?

NON MEMBERS



What would you expect more from GCIRC? (details)

	A regular electronic newsletter (GCIRC and OSR world news)	Coordination of international working groups on key topics	Fresh information on the website on OSR research and context	Forum on the website	Enjoy a working group space on the website	Additional focus on other brassicas (mustards, vegetables)
MEMBERS						
High	12	21	20	5	5	
Medium	18	11	9	15	14	
Low	3	1	4	13	14	
TOTAL	33	33	33	33	33	
NON MEMBERS						
High	52	65	54	21	23	27
Medium	38	33	41	53	51	43
Low	15	7	10	31	31	35
TOTAL	105	105	105	105	105	105
ALL	138	138	138	138	138	105
High	64	86	74	26	28	27
Medium	56	44	50	68	65	43
Low	18	8	14	44	45	35
ALL						
High	46%	62%	54%	19%	20%	26%
Medium	41%	32%	36%	49%	47%	41%
Low	13%	6%	10%	32%	33%	33%

What would you expect more from GCIRC?

Other expectations

- Members

- « Increase participation from the Brassica industry into GCIRC. More members, more input at research meetings IRC and Technical workshops. The international collaboration is my main interest.” (Aus)
- “IF you want to open and develop the GCIRC to more than 7 members per countries you will need to have regular electronic newsletter. It is not a high priority for the moment as the membership is a small community but to enlarge and maintain there is a need to more communication” (Can)
- “A mail service, when there is something new on the homepage.”(Dk)
- ” An electronic newsletter may include a list of articles published in the important journals” (Can)

- Non members

- “Extend to other brassica should be really great (camelina ??)” (F); “camelina too” (F)

Would you be
ready to
contribute
to GCIRC life by..?

MEMBERS
(33)

NON MEMBERS
(105)



Would you be ready to contribute to GCIRC life by..?

	Sharing information on OSR/brassica research progress in your country	Sharing information on OSR/brassica development and cultivation in your country	Relay GCIRC information to attract new GCIRC supporters in your country	Contributing to GCIRC committees or working groups	Contributing to the organization of GCIRC seminars	Becoming an active member of GCIRC?
Yes	27	26	28	27	23	
No	6	7	5	6	10	
TOTAL	33	33	33	33	33	

Yes	71	70	65	76	60	62
No	34	35	40	29	45	43
TOTAL	105	105	105	105	105	105

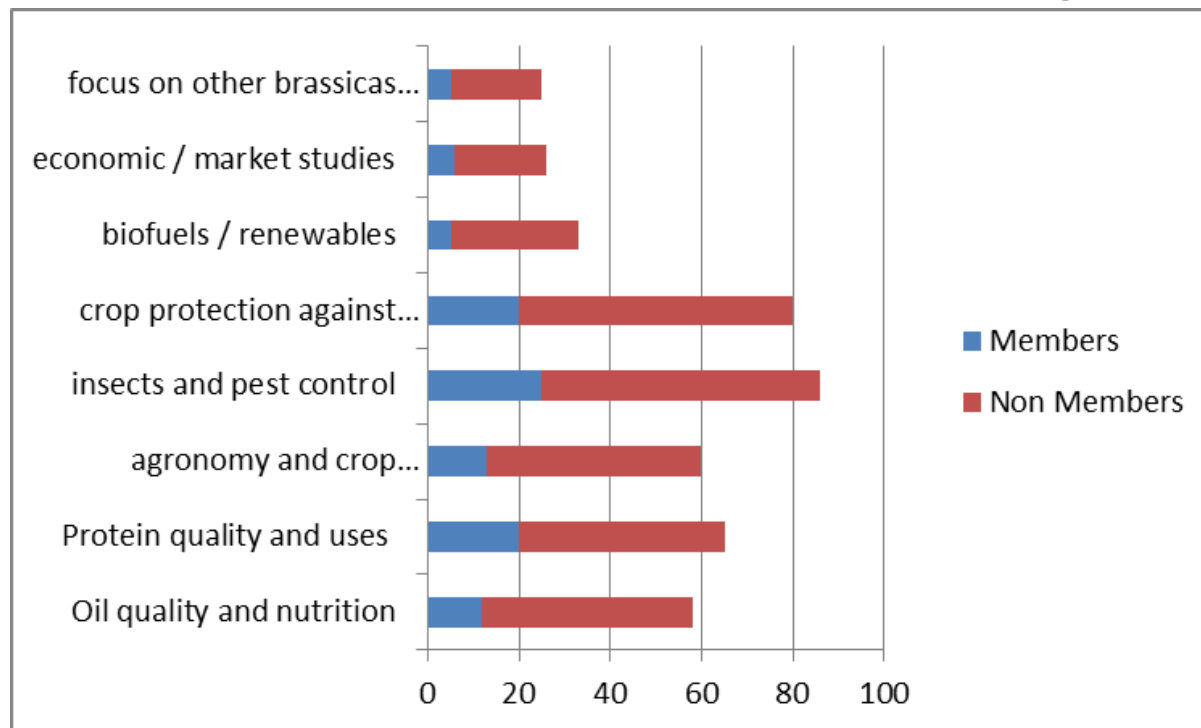
MEMBERS
(35)

NON
MEMBERS
(53)

Would you be ready to contribute to GCIRC life by..?

- NON Members / reacting to “becoming member”
 - “No. I'd love to become an active member of GCIRC, but I am without a university or corporate sponsor (employer) at this current time.” (US)
 - “No. I already have many demands on my time, so hesitate to get involved in another committee” (Can)
 - “yes. Linking with other organizations on Brassica research - I am co-coordinator of the IOBC working group on Integrated Control in Oilseed Crops” (UK)
 - “yes. I really wish to become an active member of GCIRC” (Aus)

In your opinion, what are the most challenging topics for OSR/brassica research for the coming decade?



	According to your opinion, what are the most challenging topics for OSR/brassica research for the coming decade? (multiple choice)							
	Oil quality and nutrition	Protein quality and uses	agronomy and crop cultivation	insects and pest control	crop protection against diseases	biofuels / renewables	economic / market studies	focus on other brassicas (mustards, vegetables)
Members	12	20	13	25	20	5	6	5
Non Members	46	45	47	61	60	28	20	20
TOTAL	58	65	60	86	80	33	26	25
% of participants	42%	47%	43%	62%	58%	24%	19%	18%

Other challenging topics / Members

- « the most important challenge will be to **remain competitive** in comparison to alternative oil crop species (e.g., soyabean) and to be able to grow OSR at all due to more (partly self-made, e.g. narrow rotation up to monoculture of OSR) agronomical constraints particularly caused by insensitivity of several pathogens against pesticides (active ingredients) or genetic resistance in plant, and regional political goals/visions to go for plant cultivation without use of any pesticides in the next 30/35 years!” (D)
- « Indian **mustard** (Brassica juncea) »
- « Improved **nutrient use efficiency** (especially nitrogen)” (D)
- “**Heat tolerance** breeding will become essential, very soon....” (Aus)
- “**pan-genomics** : structural variation of the genome and its impact on genetic approaches and breeding strategies” (F)
- “**New inputs** due to knowledge on **genome** structure” (F)
- “ Integrate **genomics technologies** in crop improvement” (Can)
- “There are lots of **nutrition studies**, however there are always periodically papers showing the negative effect of canola oil on health, e.g. the paper linking Alzheimers and canola oil consumption, so more nutrition studies will always be needed. Diseases and insects will put more and more pressure on the production; breeding and agronomy and crop cultivation will help to give some answers and alleviate the problems. There will be more and more competition from other crops, e.g. high oleic soybean or sunflower competing with high oleic canola, so more economic and market studies are needed.” (Can)

Other challenging topics / Members

- « **Germplasm development** (e.g. hexaploid) to increase yield ; Novel Biotechnology (e.g. genome editing) to improve yield and resistance; » (China)
- “regulatory approval of gene editing” (Can)
- “**Integration of canola with other agronomic crops**, fitting canola in with corn and soybeans. Improving winter survival of winter canola planted six to eight weeks later in the fall in US Midwest (October 15 to November 1) and/or increasing yield (decreasing seed cost) of spring canola.” (US)
- “One main topic will be **nitrogen use efficiency**. That'll be important to keep high yield during reduction of fertilisation in order to meet with sustainability criteria for biofuels.” (D)
- “**Insect resistance to insecticides**” (Serbia)
- “Hybrid and cultivar development. Drought and cold stress. Bans on crop protection products.” (US)
- “Long-term sustainability and stability of genetic resistance.” (Can)
- “Yield, Oil content, abiotic stress, pod shattering” (China)

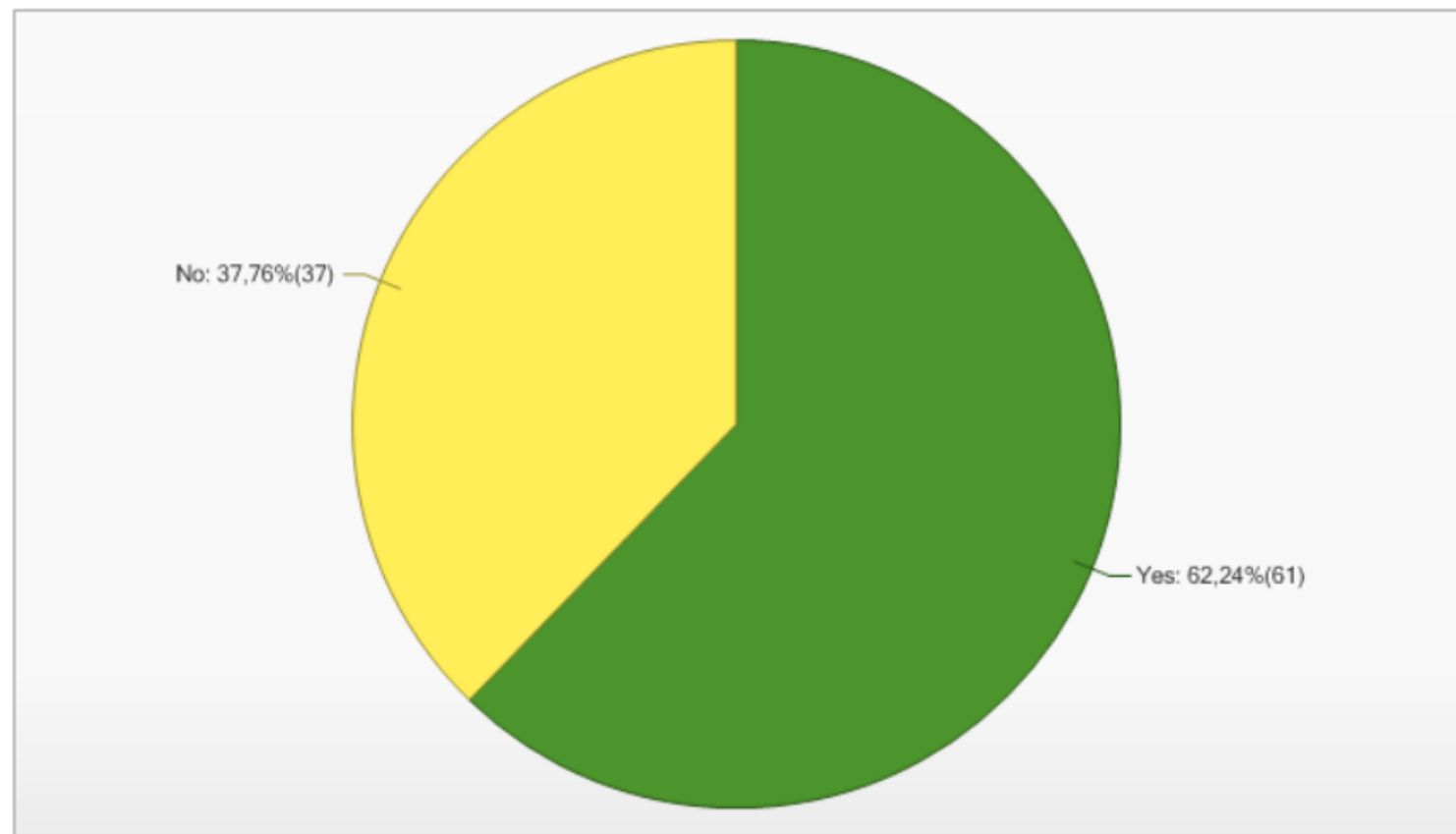
Further recommendations for GCIRC / Members

- « My experience is that there is always a new challenge for the crop, just waiting round the corner. GCIRC is the perfect organisation to bring experts together to address these challenges.” (UK)
- « An active recruitment of new members to bolster the GCIRC. There are many minor technical organisations which may be interested in becoming members or associates of the GCIRC to make it a stronger and more effective organisation.” (Aus)
- “*to define regional topics*? to maintain the perspective over the whole supply chain from Research up to processing and feed and food products” (D)
- “Updation of GCIRC website with oilseed Brassica cultivation data including area, production, productivity and trend through out the world. With help of different respected members of GCIRC, news on oilseed Brassica from different countries can be uploaded on GCIRC site.”
- “use an easy way to register and pay membership. A Paypal account could be used for member to pay there dues. I never know where and when my dues needed to be paid, a better system needs to be develop and that will avoid to have peoples paying late. Once an easy registration system is developped, when dues are not paid on time, a 5-10% penalty could be added.” (Can)

Further recommendations for GCIRC / Non Members

- “Focus on **other brassica** crops will be critical. Science and technology knowledge developed for rapeseed/canola is applicable to many of the other oil-seed producing Brassicas.” (Can)
- “Expansion to **other brassicaceae** may be a real opportunity” (F)
- “More GCIRC members be added from main **rapeseed-mustard** cultivating countries particularly India.” (India)
- “I will highly recommend to organize few **workshop during the IRC meeting** focusing to some challenging attribute like yield and protein. It will be also interesting to see some intercropping challenges and crop rotation schemes to mitigate the crop protection and soil health.” (Can)
- “balancing precompetitive information with proprietary information will remain a challenge but a global effort is needed” (Can)
- “**Information** about oilseed ,market, competing oils, new market **perspectives** (meals / protein quality)” (D)
- “GCIRC needs to **make it known at least for rapeseed researchers and farmers**. As a researcher working on rapeseed for more than 30 yrs, I can seldom recall the existence of GCIRC although I have attended the international rapeseed congress 4 times (1999,2007,2011,2015). I can see the on the GCIRC webpage there are many links to different institutions including mine (Oil Crop Research Institute, Chinese Academy of CAAS. But I have not seen GCIRC's link on our webpage. I am not sure how many people working on rapeseed are aware there is such an organization or know what can we benefit from it.” (China)

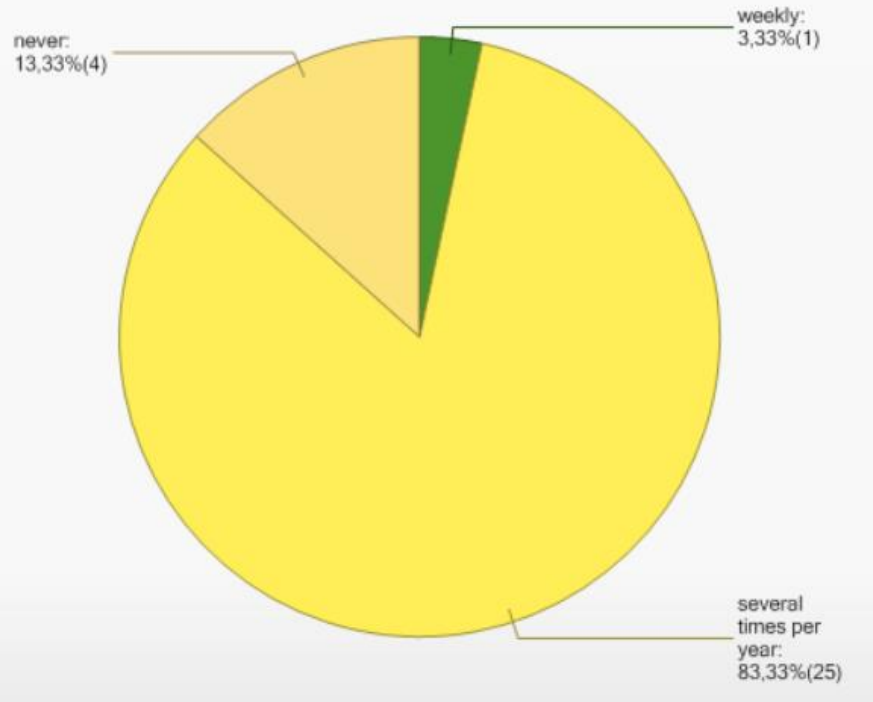
Do you know the GCIRC website? (to non members only)



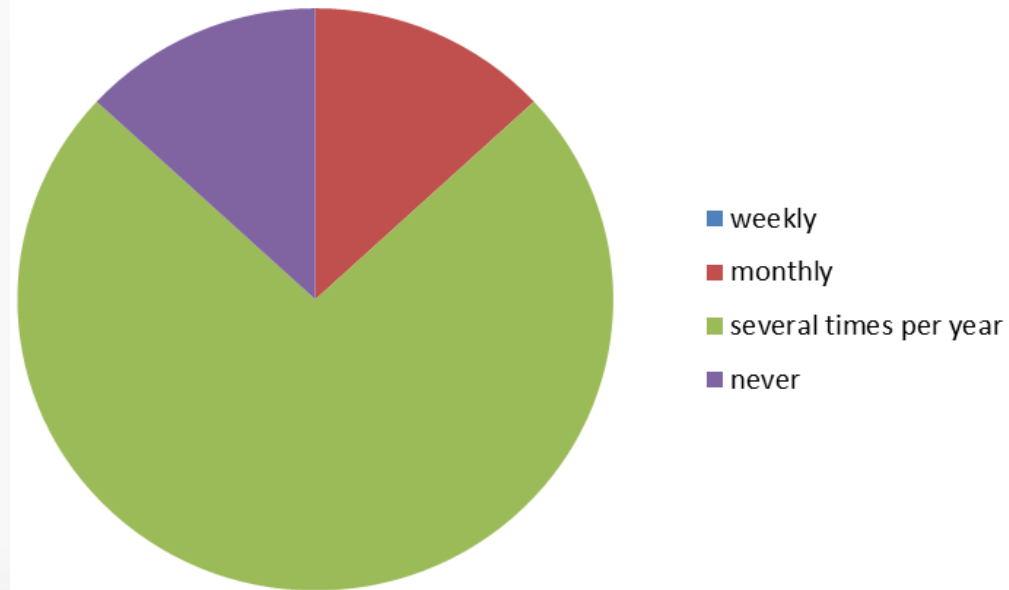
Do you know the GCIRC Website ?	
Yes	61
No	37
TOTAL	98
Non-réponse(s)	7

I visit the website

MEMBERS
(30 answers)



NON MEMBERS
(if know the Website)

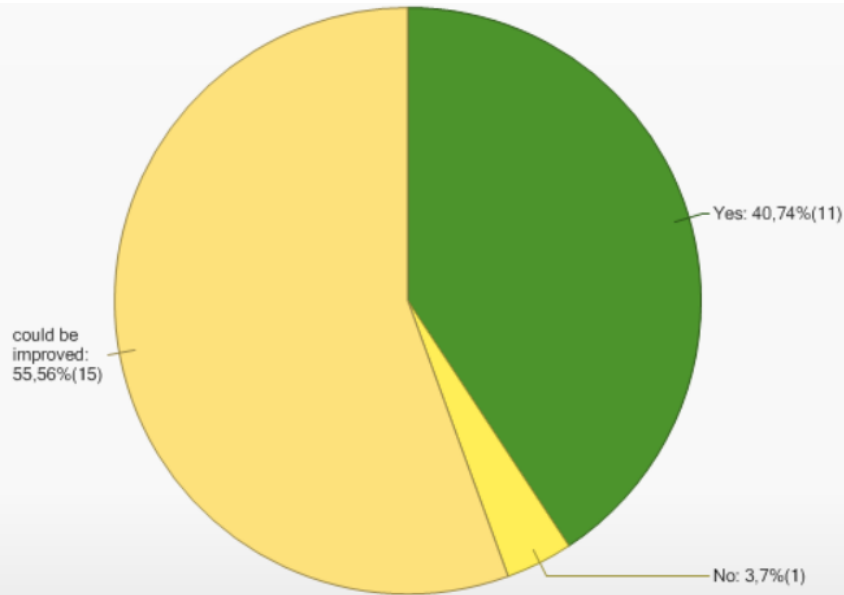


NB/ non members: questionable answers

	I visit the website			
	weekly	monthly	several times per year	never
Yes	0	8	45	8
	0%	13,11%	73,77%	13,11%
No	0	1	3	33
	0%	2,70%	8,11%	89,19%

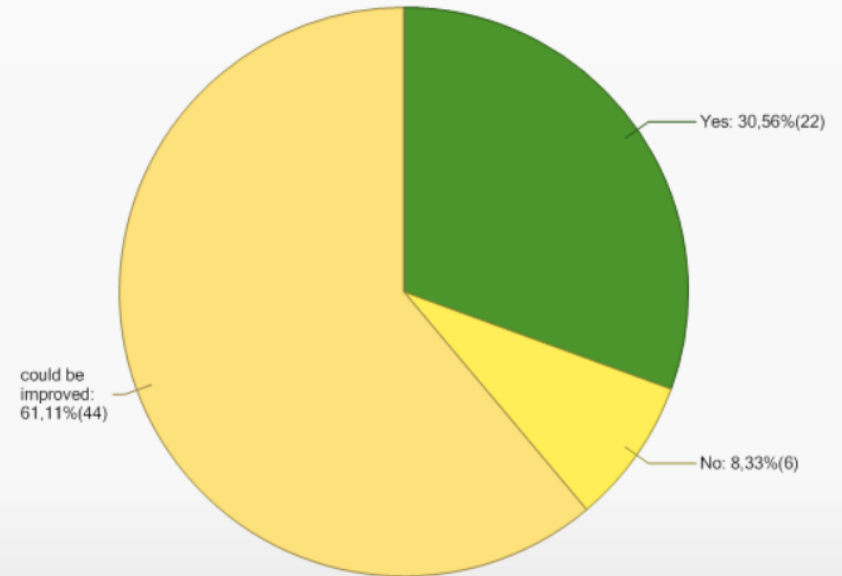
Is the website well organized and easy to use?

MEMBERS



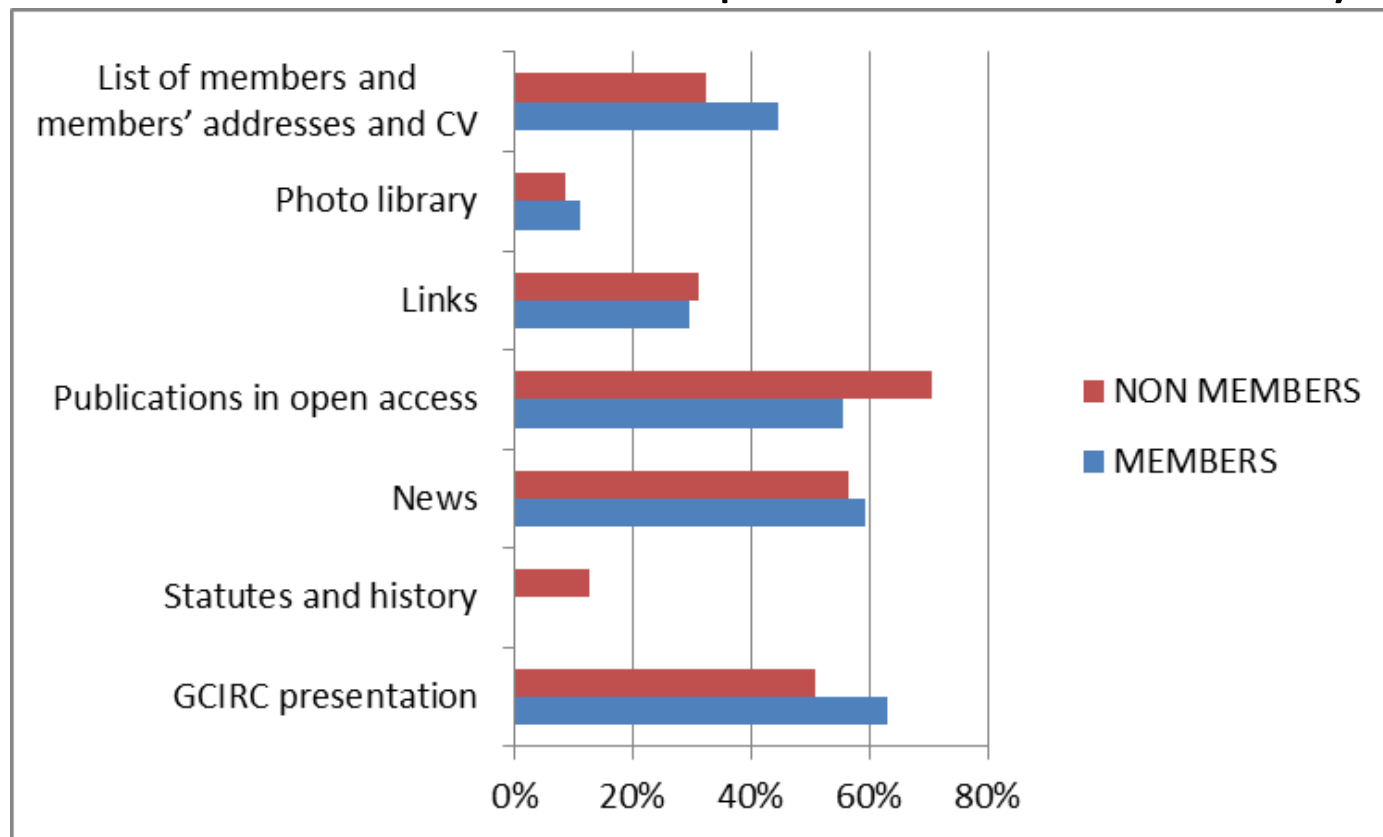
Is the website well organized and easy to use?	
Yes	11
No	1
could be improved	15
TOTAL	27
Non-réponse(s)	6

NON MEMBERS (if know the Website)



Is the website well organized and easy to use?	
Yes	22
No	6
could be improved	44
TOTAL	72
Non-réponse(s)	33

What are the most useful open access sections for you ?



What are the most useful open access sections for you ?	MEMBERS	NON MEMBERS
GCIRC presentation	17	36
Statutes and history	0	9
News	16	40
Publications in open access	15	50
Links	8	22
Photo library	3	6
List of members and members' addresses and CV	12	23
RÉPONDANTS	27	71
Non-réponse(s)	6	34

**What are the most useful restricted access sections
(only for members) for you ?**

What are the most useful restricted access sections (only for members) for you ?	
Answers	23
No answer	10
Recent IRC and Technical Meetings communications	21
Reports of the General Assemblies	6

What would you suggest as new sections or type of information? (MEMBERS)

- « I think that it would be nice to have **forums for general topical interest** discussions such as the current problem with cabbage stem flea beetles or sowing areas/harvest reports from different countries.” (UK)
- “**Information from individual countries**. There was a section reporting on individual countries at one time. **An index** of relevant research and **publications** would be useful.” (Aus)
- “**Statistics on production** (area, yield production) Possibilities to collaborate to european projects (research, development, exchange,...)” (Be)

What would you suggest as new sections or type of information? (NON MEMBERS)

- « Hi I have not visited the web site until now but it looks like a very useful way of sharing research information and making contacts. The site is easy enough to navigate through” (Aus)
- “sections for working or technical groups” (Can)
- “A forum to exchange ideas could perhaps be useful. More announcements of interesting conferences or even publications” (D)
- “Grants and awards available in different geography” (Can)
- “A fresher look could help. **Reaching out to canola organizations around the world** (US Canola Association, Canola Council of Canada) to make these groups aware of the GCIRC website. Maybe break up sections by disease, pests, end products, etc. and have basic information, links to news, and research articles pertaining to those topics.” (US)
- “It is **unclear to me what information is available to members** (insiders) vs non members. Member only info should be behind the 'member login' so as to not raise expectations of non members”
- “market information” (D)
- “How researchers from developing countries can get access to biotech such as genome editing” (D)
- “Lots more on canola agronomy and industry research papers globally from many geographies” (Aus)
- “publication of articles and information on production of different countries” (China)
- “IRC PROCEEDINGS SHOULD BE THERE” (India)
- “Cooperation” (China)

Do you have suggestions for the improvement of the website and its services? (MEMBERS)

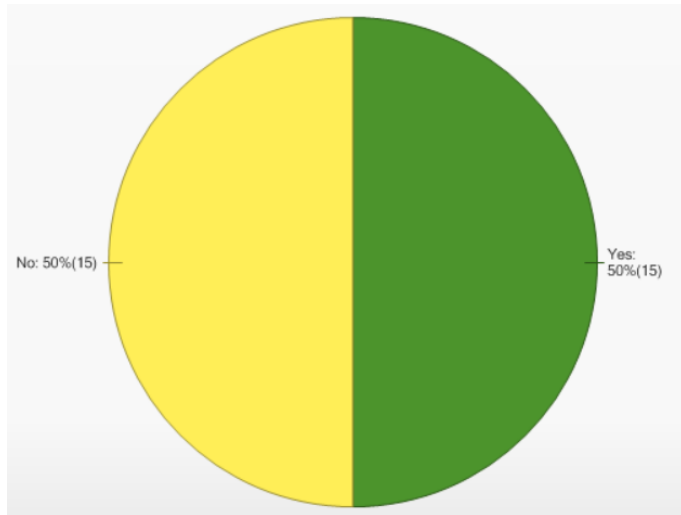
- « Some information out of date (e.g. current GCIRC board)” (D)
- “I do not visit any homepages on a regular basis, I only visit/follow homepages with an email service.”(Dk)
- “Notices of new posts on website/easy links” (Aus)
- “List of on-going research on rapeseed on different topics (supported by European funding or national funding)” (Be)
- “I would appreciate an email service, that could notify me, if there is news on the website concerning my areas of interest” (Dk)

Do you have suggestions for the improvement of the website and its services? (NON MEMBERS)

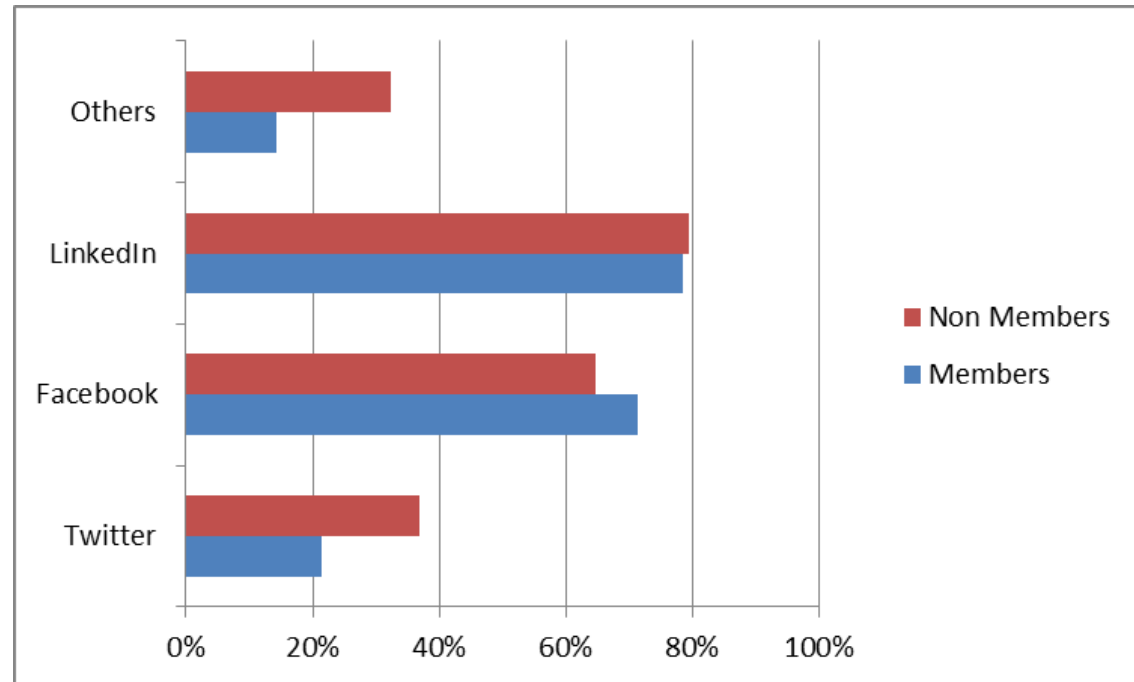
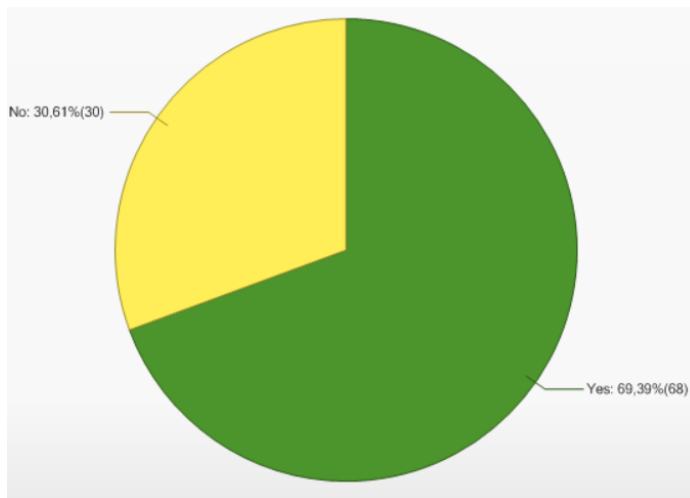
- “make it more user friendly and links to social (professional) networks” (Can)
- “There is not much recent information. The layout is kind of 'old-fashioned’” (D)
- “if a website is to serve as a document repository, then it must remain current. If GCIRC wishes more active engagement, a 'supporter' category of member should be considered. Right now, it is portrayed as a 'closed club' and other than checking for dates of the next Congress, offers little value” (Can)
- “news concerning current development in r&d, news from the members, improving the information exchange beside the meetings” (D)
- “The website needs to be brought into the latest technology and not a site that looks like it is from the 1990's.” (Aus)
- “Yes, should be updated more frequently.” (China)
- “Notice by Email” (China)

Do you have accounts on social networks? If yes...

MEMBERS (30)



NON MEMBERS (98)



	Members	Non Members
RÉPONDANTS	14	68
Non-réponse(s)	19	37
Twitter	3	25
Facebook	10	44
LinkedIn	11	54
Others	2	22