



Insecticide Resistance Action Committee

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# SMART GOALS & OBJECTIVES 2013 - 2014

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# SMART Goals & Objectives

Specific Measurable Achievable Realistic (Resourced) and Time Bound

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## IRAC International

The IRAC Network is made up of a series of inter-company Committees dedicated to prolonging the effectiveness of insecticides and acaricides by countering the development of resistance. The Committees operate at a global level (IRAC Executive) and at a regional or country level (IRAC Country Groups) and the whole network is termed IRAC International (abbreviated to IRAC).

The IRAC Executive Committee provides technical information, coordination and support for IRAC through a series of international Teams and Working Groups. Annual goals and SMART objectives for each of the teams are set in accordance with the overall IRAC Mission and should be reviewed periodically during the year within the teams to evaluate progress.

## The IRAC International Mission

- Facilitate communication and education on insecticide resistance
- Promote the development of insecticide resistance management strategies to maintain efficacy and support sustainable agriculture and improved public health

# IRAC Executive Goals

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## IRAC Executive – Goals

- Coordinate and facilitate the work of IRAC in accordance with the IRAC Mission
- Facilitate cooperation and communication on insecticide resistance and IRM issues
- Provide direction and support to the whole IRAC network
- Leverage IRAC through the CropLife network
- Approve and submit the IRAC annual budget to the CropLife Stewardship Committee
- Promote membership of IRAC at a country, regional and international level
- Strengthen links with the IRAC Country Groups and local CropLife associations
- Encourage formation of new Country Groups to address local IRM issues
- Encourage WGs to hold 4-6 audios and at least one F2F each year to review activities
- Emphasis to all IRAC members of the importance of following the IRAC Constitution including the Code of Conduct and Guidelines on Antitrust.

# Steering Team Objectives

Goals	Objectives	Date
Update and maintain the IRAC administrative documentation and propose strategies for the effective management of IRAC	<ul style="list-style-type: none"> <li>Review and update as necessary the IRAC management documentation for 2013/14 (Constitution, Guides, Goals etc.).</li> <li>Develop strategies and proposals for the Executive Committee on how IRAC should evolve as an effective organisation, communicating, educating and advising on IRM. Allocate time on at least two calls or meetings during the year on how best to achieve this objective.</li> <li>Lobby CLI Stewardship Committee to improve engagement and support of the work of IRAC. An IRAC representative should attend at least one CLI Stewardship meeting during the year.</li> <li>Propose to the IRAC Executive, suggestions on format, duration, venue and location for the IRAC Spring Meeting and work with the various teams developing the meeting sessions and agenda.</li> </ul>	<p>Sept 2013</p> <p>Sept &amp; Mar 2013/14</p> <p>Mar 2014</p> <p>Sept 2013 &amp; ongoing</p>
In conjunction with CropLife, manage the IRAC finances and budget process	<ul style="list-style-type: none"> <li>Monitor and provide a detailed report on the status of the IRAC finances to the Executive and Steering Groups on at least two occasions, (spread out during the year) to each group.</li> <li>Investigate the option of developing joint baseline/monitoring programs to support dossiers as a way of providing cost synergies and benefits for new IRAC members.</li> <li>Develop the IRAC budget in conjunction with CLI for the coming year along with a long term 5 year forecast. Initial budget is required by CLI mid-June and finalised in September.</li> <li>Develop and update scenarios and proposals to manage financial income and expenditure such that IRAC is able to work within the available budget to obtain best value from funds without under or over spend.</li> </ul>	<p>Sept &amp; Mar 2013/14</p> <p>Dec 2013</p> <p>June/Sept 2013</p> <p>Sept &amp; Dec 2013</p>
Maintain, develop and manage the IRAC Network and other stakeholder relations	<ul style="list-style-type: none"> <li>Promote and facilitate membership of IRAC International by companies not currently members. List potential target companies and approach at least 2 during the year to determine interest.</li> <li>Encourage and facilitate the formation of new IRAC Country Groups, where appropriate this should be through the conversion of the Lep/Diamide CG into full IRAC CG. Strengthen the links between the CGs with IRAC International and the local CropLife Associations to ensure good communication and that the groups follow the IRAC Constitution including the Code of Conduct and Antitrust Guidelines. Each group should be contacted during the year to ensure that they are aware of these requirements and have access to the available IRAC administrative documents.</li> <li>Engage with stakeholders at a national, regional and global level to promote the work of IRAC and the importance of inter-company cooperation in the development of IRM strategies.</li> </ul>	<p>Sept &amp; Mar 2013/14</p> <p>Sept &amp; Mar 2013/14</p> <p>Ongoing</p>
Maintain oversight of the goals, objectives and activities of the WGs/ CGs to ensure effective and efficient coordination of local and global IRM	<ul style="list-style-type: none"> <li>Coordinate with CropLife on IPM educational material to ensure inclusion of relevant IRM content.</li> <li>Monitor the activities of the WGs and CGs and advise where possible on efficiencies and potential overlap of activities.</li> <li>In conjunction with the Executive Committee, work through member companies and CropLife to increase the number of countries adopting MoA and IRM information on the product labels.</li> </ul>	<p>Sept &amp; Dec 2013</p> <p>ongoing to March 2014</p>

# Crop Protection Objectives

Goals	Objectives	Date
Identify potential, new or existing resistance issues. Set up, re-establish or disband Crop Working Groups as necessary	<ul style="list-style-type: none"> <li>• Monitor and report to the Executive any potential, new or existing national, regional or global resistance issues that may require action by IRAC. Research the issues and report to the Executive with a recommended plan of action including the extent of the problem and whether a Country/Regional Group or a Crop Protection WG should be established.</li> <li>• Set up, re-establish (or disband) pest, crop pest complex or other WGs as required for 2013/14.</li> </ul>	On-going
Increase IRAC footprint	<ul style="list-style-type: none"> <li>• As much as possible work with the respective teams to convert Lep/Diamide country groups into IRAC Country Groups. Establish likely contenders</li> </ul>	On-going
Develop IRM guidelines	<ul style="list-style-type: none"> <li>• Work with the Country Groups and WGs to develop IRM guidelines for 1-2 key crop/pest complexes where there are resistance problems e.g. Stink Bugs in Brazil. Aim to publish one example during each 6-month period</li> <li>• Develop agreed principles of IRM using insecticide chemistry and insect traits</li> </ul>	Sept 2013 March 2014  Q4 2013
Development of joint baseline/monitoring programs	<ul style="list-style-type: none"> <li>• Investigate the interest by member companies of the development of joint baseline/monitoring programs to support dossiers (as per a Task Group). Explore costs and synergies that would potentially add value to new members</li> </ul>	Dec 2013
Investigate and make recommendations on the extent that IRAC should be involved in other IPM activities that impact IRM	<ul style="list-style-type: none"> <li>• Topics include but not limited to:               <ul style="list-style-type: none"> <li>○ Should the use of beneficial insects for IRM be considered by IRAC</li> <li>○ Development of a poster for alternative control methods e.g. biologicals</li> </ul> </li> </ul>	Q4 2013 Q4 2013
Continue to produce high quality educational material and IRM educational tools	<ul style="list-style-type: none"> <li>• Work with the respective Crop WGs, C&amp;E Team and where possible CropLife to develop IRM educational material e.g. the new IRM mini-booklet</li> </ul>	On-going

# Coleoptera WG Objectives

Goals	Objectives	Date
To expand the remit of the team to include prioritised activities against a wider range of coleoptera pests.	<ul style="list-style-type: none"> <li>• Provide information (resistance monitoring, literature review, information posters, etc.) on key coleopteran pests other than OSR pest species.</li> <li>• Encourage projects and information to be shared on other resistance concerns involving Coleopteran pests.</li> </ul>	CPB Poster Q2, 2013 MOA poster Q4, 2013
To provide researchers, validated methods for measuring the susceptibility of coleopteran pests.	<ul style="list-style-type: none"> <li>• Provide a draft method for assessing the insecticide sensitivity of CRW larvae and adults to a range of insecticides used for their control.</li> </ul>	Larvae Q2, 2013 Adults Q4, 2013
To provide summarised information to growers and influencers on control options and strategies for controlling key coleoptera pests.	<ul style="list-style-type: none"> <li>• Review data generated by IRAC Coleoptera team members on the neonicotinoid susceptibility of Apple Weevils in Europe.</li> </ul>	Q4 2013
To co-ordinate oilseed rape coleoptera sensitivity monitoring in European oilseed rape crops, using validated methodologies.	<ul style="list-style-type: none"> <li>• Collaborate as member team companies and cooperate with public labs, regulators and other bodies involved in resistance monitoring of pollen beetle to assemble, share and interpret coordinated set of monitoring data for 2013 season.</li> <li>• In collaboration with IRAC methods team, provide a video methodology for all IRAC susceptibility monitoring bioassays targeting pollen beetle.</li> </ul>	Q1, 2014 Q3, 2013
To provide oilseed rape pest sensitivity information to growers and regulators, so that informed decisions on oilseed rape pest control and resistance management can be made.	<ul style="list-style-type: none"> <li>• Review and incorporate new learning's from OSR pest research, including 2013 resistance monitoring, into IRAC IRM recommendations for oilseed rape.</li> <li>• Provide summary poster of learning's from 2013 pollen beetle susceptibility monitoring.</li> <li>• Update summary poster of OSR pest resistance management recommendations.</li> </ul>	Q1, 2014 Q1, 2014 Q2, 2014

# Lepidoptera WG Objectives

Goals	Objectives	Date
Increase awareness of Lep pest resistance issues and recommended resistance management practices globally	<ul style="list-style-type: none"> <li>• <b>Expand web-based information on Lep pest resistance issues and resistance management</b> <ul style="list-style-type: none"> <li>○ Identify Lep pest species with the most significant IRM needs globally (Led by JD) →</li> <li>○ Ensure that each of these species has a 'Pest Page' on the IRAC website with key IRM tactics listed                             <ul style="list-style-type: none"> <li>▪ Review existing pages and add IRM tactics if needed →</li> <li>▪ Create new pages as needed and include key IRM tactics (led by DR) →</li> </ul> </li> </ul> </li> <li>• <b>Increase educational materials for Lep pest IRM</b> <ul style="list-style-type: none"> <li>○ Create posters for high priority Lep pests, update existing posters as needed.                             <ul style="list-style-type: none"> <li>▪ Update MoA table, final approval and posting of <i>Cydia pomonella</i> poster, (Led by JD) →</li> <li>▪ Final approval and posting of <i>Lobesia botrana</i> poster, (Led by JD) →</li> <li>▪ Finish <i>Spodoptera frugiperda</i> poster, (Led by SL) →</li> <li>▪ Draft general Asian rice stemborer - (<i>S. incertulas</i>, <i>C. suppressalis</i>) IRM poster (LT) →</li> <li>▪ Draft general Lep IRM/windows poste →</li> <li>▪ Update <i>Cydia pomonella</i> poster →</li> </ul> </li> </ul> </li> <li>• <b>Review all posters to ensure consistent IRM message</b> →</li> </ul>	<p>Q2 2013</p> <p>Q2 2013</p> <p>Q4 2013</p> <p>Q2 2013</p> <p>Q2 2013</p> <p>Q3 2013</p> <p>Q3 2013</p> <p>Q3 2013</p> <p>Q3 2013</p> <p>Q4 2013</p>
Increase influence of Lep WG on other IRAC WGs and CGs and on IRM efforts of member companies	<ul style="list-style-type: none"> <li>• <b>Increase impact of Lep WG through outreach activities</b> <ul style="list-style-type: none"> <li>○ Work with CGs to determine which Lep WG materials should be translated into local languages, (Led by JD)                             <ul style="list-style-type: none"> <li>○ Work with IRAC Brazil CG to draft a soybean lep pest IRM poster, with focus on <i>Helicoverpa zea</i>, (JD/LT)</li> </ul> </li> <li>○ Seek opportunities to represent IRAC and the Lep WG at relevant international and national meetings related to Lep pest management.(All)</li> <li>○ Develop plan to leverage Philippines 'train-the-trainer' materials and replicate training in other countries. (Led by JD)</li> </ul> </li> <li>• <b>Achieve the planned merger of the Diamide WG and Lep WG in 2014</b> <ul style="list-style-type: none"> <li>○ Support opening of Diamide CGs to other companies and support the transition of Diamide CGs to general IRM CGs (Led by RS &amp; JD)</li> <li>○ Increase exchange of information and joint review of materials with Diamide WG, other WGs and CGs, (Led by RS &amp; JD)</li> </ul> </li> <li>• <b>Promote common IRM recommendations on Lep pest insecticide product labels and common bioassays for resistance monitoring</b> <ul style="list-style-type: none"> <li>○ Share existing IRM label statements across member companies</li> <li>○ Review diamide IRM label statements and identify elements that can be recommended across all new product labels, (Led by J. Dripps)</li> </ul> </li> </ul>	<p>Q2 2013</p> <p>Q3, 2013</p> <p>On-going</p> <p>Q3 2013</p> <p>On-going</p> <p>On-going</p> <p>Q3 2013</p> <p>Q4 2013</p>

# Diamide WG Objectives

Goals	Objectives	Date
Maintain currency of the global diamide guidelines based on new experiences and new products	<ul style="list-style-type: none"> <li>Review and update our global IRM guidelines (label language, poster)</li> <li>Contact new diamide companies and inform them about intercompany Global Diamide WG (e.g. Ishihara because of cyclaniliprole)</li> </ul>	Q3, 2013
Refocus country diamide working group support with intent to hasten company's completion of MoA communication plan, internal and external training plan, IRM implementation strategies, and align IRM label language in high risk markets.	<ul style="list-style-type: none"> <li>Open diamide working group actively to all interested chemical companies</li> <li>Move the existing WGs from planning stage (develop recommendations) to implementation stage (implement IRM recommendations and educational plans) with focus on countries who are still in the planning stages such as Australia, Italy, Japan, Korea, Malaysia, Mexico, Morocco,</li> <li>Increase participation of Global Diamide WG members in Country WG meetings</li> <li>Develop a plan and timeline for all country diamide teams to complete the addition of quality IRM language and Mode of Action identification to their Diamide labels.</li> <li>As soon as suspicious or confirmed resistance is detected in a country ensure the country diamide team develops an investigation or mitigation plan respectively through the guidance of the Global Diamide Team.</li> <li>Decide on the adoption of Chile, Egypt, and other countries as diamide WG's</li> </ul>	Q4, 2013
Standardization of new IRAC approved methods	<ul style="list-style-type: none"> <li>Determine if additional IRAC approved methods are available for existing and new diamide products.</li> <li>If necessary, develop a plan for the Diamide-producing companies to generate new methods for specific pests such sucking insects.</li> </ul>	Q3 2013
Create baseline insect susceptibility data for future comparisons.	<ul style="list-style-type: none"> <li>Prior to a diamide product launch it is important to establish the baseline susceptibility level of the most important pests of selected crops. The main objectives of this effort are product stewardship, creating the capacity to respond to performance issues, and complying with regulatory requirements, if applicable. The Diamide WG recommends that baseline collection occurs and that bioassays be conducted according to the methods approved by IRAC.</li> </ul>	Q4, 2013
Integrate Diamide working group into Lepidoptera working group	<ul style="list-style-type: none"> <li>The goal is to merge the Lepidoptera working group and the diamide working group by end of 2014. The activities on the sucking activity part of the diamide will be handled by the sucking pest group</li> </ul>	Q4 2014

# Sucking Pest WG Objectives

Goals	Objectives	Timeline
Short term actions to minimise spread of resistant pests	<ul style="list-style-type: none"> <li>• <i>Myzus persicae</i> NNI resistance in Europe – Investigate possibility for specific market research via CroPLife and also IRAC Spain on MOA use in Peaches in Spain in 2013. Reissue new guidelines in Dec 2013.</li> <li>• <i>Sitobion avenae</i> PYR target site resistance in UK – Communicate guidelines of IRAG to member companies. Support IRAG as necessary</li> <li>• <i>Bemisia tabaci</i> – update resistance status for different MOAs with IRAC Brazil. Elaborate IPM/IRM program with IRAC Brazil</li> <li>• <b>Rice Plant Hoppers</b> – support Crop Life/IRRI/GIZ initiative to promote Hopper IPM by reviewing proposed training material</li> </ul>	<p>Q2 2013</p> <p>Q3 2013</p> <p>Q4 2013</p> <p>Q4 2013</p>
Prepare IRM guidelines for pests with, or at risk of developing resistance in the mid term	<ul style="list-style-type: none"> <li>• <i>Myzus persicae</i> update poster to reflect new situation in 2013</li> <li>• <i>Diaphorina citri</i>, Asian Citrus Psyllid – Brazil specific poster IRAC Brazil. Clarification of methodology</li> </ul>	<p>Q4 2013</p> <p>Q3 2013</p>
Prepare for future Sucking Pest problems long term (avoiding resistance development)	<ul style="list-style-type: none"> <li>• Action plans for pests that are at risk of developing resistance. <ul style="list-style-type: none"> <li>○ <i>Diaphorina citri</i> (ACP) (neonicotinoids, pyrethroids, Florida, USA, Brazil) <ul style="list-style-type: none"> <li>▪ Elaborate methodology for ACP (Tatjana Sikuljak – MOA group)</li> <li>▪ Obtain results of monitoring in Florida (Lucas Stallinski Univ Florida)</li> <li>▪ Establish baselines using agreed method (IRAC members responsibility)</li> </ul> </li> <li>▪ <i>Euschistus heros, Dichelops</i> (neonicotinoids, pyrethroids, Brazil) <ul style="list-style-type: none"> <li>▪ Decide on baseline and monitoring methods with Methods Team</li> <li>▪ Poster with IRM guidelines in collaboration with IRAC Brazil</li> </ul> </li> <li>○ <i>Aphis gossypii</i> (neonicotinoid target site resistance) <ul style="list-style-type: none"> <li>▪ Monitor complaints globally and report liaise with researchers</li> </ul> </li> <li>○ <i>Bactericera cockerelli</i> Potato Zebra chip Psyllid? Texas/Mexico</li> <li>○ <i>Mealybug</i> on Grapevine in South Africa – NNI resistance?</li> </ul> </li> </ul>	<p>2013</p> <p>Q1 2013</p> <p>Q4 2013</p> <p>Q2 2013</p> <p>Q3 2013</p> <p>Q3 2013</p> <p>Q4 2013</p> <p>Q3 2013</p>

# Public Health WG Objectives

Goals	Objectives	Date
Identify potential, new or existing resistance issues. Set up Team Working Groups or Focal Points as necessary	<ul style="list-style-type: none"> <li>• Monitor and report to the Executive on any potential, new or existing national, regional or global resistance issues that could require action by IRAC e.g. Vectors and Hygiene Pests. Research the issues and report to the Executive on a recommended plan of action including the extent of the problem and whether and how it should be best tackled. Set up appropriate PH Team WGs as deemed appropriate for the 2013/14 year.</li> </ul>	On-going
Provide expert input into IRM initiatives with identified partners, interact with groups working in the same field and participate/organise relevant meetings.	<ul style="list-style-type: none"> <li>• Set up a schedule of IRAC PH Team conference calls, meetings for 2013/14. Identify and invite relevant experts and observers from groups interested in Public Health IRM e.g. vectors, hygiene pests (WHO, Gates Foundation, IVCC) to participate and ensure that IRAC as an expert group provided input into relevant IRM initiatives.</li> <li>• Develop routes of communication with third parties, to disseminate IRM information, e.g. LinkedIn group</li> <li>• Coordinate activities more closely with CLI VCPT</li> <li>• Support WHO, VCAG, etc., with IRM activities, in liaison with CLI VCPT as appropriate</li> <li>• Organise workshop with third parties to update team on latest status of insecticide resistance in Anopheline vectors</li> </ul>	On-going
Formulate the IRAC position on ongoing questions and issues as these arise	<ul style="list-style-type: none"> <li>• Consider insecticide resistance risk assessment approach for VC interventions</li> <li>• Formulate position on the use of mixtures and synergists in VC</li> </ul>	Q4 2013 Q3 2013
Preparation of Public Health communication material	<ul style="list-style-type: none"> <li>• Update posters, with particular emphasis on hygiene pests and larvicides</li> <li>• Production of educational presentations, based on VM, that can be used by third parties</li> <li>• Develop training modules that can be used for continual education credits in PPM industry</li> <li>• Produce articles on IRM for trade journals, etc.</li> </ul>	Q3 2013 Q4 2013 Q4 2013 Q3 2013

# Crop Biotechnology WG Objectives

Goals	Objectives	Date
Promote practical approaches to resistance management for Bt crops	<ul style="list-style-type: none"> <li>• Develop IRM recommendations for small-holder biotech crop growers</li> <li>• Develop technical position on fit of seed blends for refuge deployment</li> <li>• Develop position paper on principles of resistance monitoring</li> <li>• Develop training module on proper use of monitoring programs and data</li> <li>• Develop position on use of insecticides with traits</li> </ul>	Q3 2013 Q2 2013 Q3 2013 Q4 2013 Q32013
Provide assistance to local and regional industry associations	<ul style="list-style-type: none"> <li>• CropLife Asia – Bt maize in Philippines, Vietnam and Indonesia</li> <li>• Provide guidance and participation in Crop Life Central America workshop(s) on IRM</li> <li>• Agro BIO Mexico</li> </ul>	On-going Q2 2014 On-going
Coordinate messaging around resistance incidents	<ul style="list-style-type: none"> <li>• Develop internal and external understanding of field-relevant resistance including practical definitions of resistance</li> <li>• Promote appropriate interpretations of and responses to resistance reports</li> </ul>	On-going On-going
Continue to deliver practical IRM messaging through workshops, conferences	<ul style="list-style-type: none"> <li>• Develop new education and training materials for regulators and public sector scientists</li> <li>• Coordinate with CropLife International workshops involving IRM education, training</li> </ul>	Q4 2014 On-going
Promote IRM considerations as integral component of Bt crop development by public and private sectors	<ul style="list-style-type: none"> <li>• Work with CropLife to find ways to ensure IRM is fundamental to the stewardship of Bt crops by member companies</li> <li>• Work with public sector scientists and groups to promote responsible, practical IRM programs</li> </ul>	On-going On-going

# Methods WG Objectives

Goals	Objectives	Date
Develop single point of contact for insecticide and acaricide resistance monitoring methods (core activities)	<ul style="list-style-type: none"> <li>• Populate e-methods tool with a range of methods used to measure insecticide susceptibility against key agricultural, horticultural and public health pests. Methods sourced from literature, companies and external contacts.</li> <li>• Continue to maintain and improve confirmed methods e.g. indicate suitability of each confirmed method for base line determination in the method description, review older IRAC approved methods</li> <li>• Populate e-methods with additional references</li> </ul>	Q4 2013/ Q1, 2014
Develop single point of contact for insecticide and acaricide resistance monitoring methods (promotional activities)	<ul style="list-style-type: none"> <li>• Promote eMethods tool through e-connection, posters and videos to be used at industry and academia events, and publications (e.g. Journal of Economic Entomology – forum section)</li> <li>Initiate minimum 1 new procedural videos e.g. pollen beetle or mites</li> </ul>	Q4, 2013  Q4 2013/ Q1 2014
To provide IRAC approved methods in order to steer researchers to use these validated methods, so that data generated by independent researchers can be compared directly	<ul style="list-style-type: none"> <li>• Deliver minimum 3 new crop IRAC approved methods</li> <li>• If needed confirm public health methods for inclusion in the IRAC methods series.</li> <li>• Liaise with Biotech Team to deliver Biotech SOPs.</li> </ul>	Q4 2013 Q4 2013 Q4 2013

# MoA WG Objectives

Goals	Objectives	Date
Continue to review and update the MOA scheme as required.	<ul style="list-style-type: none"> <li>Update as needed the current Version 7.2 to include any changes and / or new actives.</li> <li>Update the MoA booklet to correspond to the latest version of the classification</li> </ul>	Q4 2013 Q1 2014
Develop new versions of the MOA Structure Poster as needed	<ul style="list-style-type: none"> <li>Simplify the structure poster (English and other language versions) and post on the website</li> </ul>	Q4 2013
Target site mutation table	<ul style="list-style-type: none"> <li>Complete table (Excel format) and post on the website</li> </ul>	Q2 2013
Develop new MoA posters and update existing posters as required	<ul style="list-style-type: none"> <li>Work with C&amp;E Team to incorporate any updates from new versions of the MoA Scheme into the general and pest MOA posters</li> <li>Complete the Coleoptera MoA poster</li> <li>Complete the resistance mechanisms poster</li> </ul>	Q1 2014 Q4 2013 Q4 2013
Develop MoA Diagrams and presentation based on and dependent upon UNL output.	<ul style="list-style-type: none"> <li>Provide MoA diagrams for the different broad MoAs (IGR, vs. neural, vs. respiration) for use in MoA publications and presentations</li> <li>Develop a general MoA oral presentation that can be used at scientific meetings</li> </ul>	Q1 2014 Q1 2014
MoA page – IRAC Website	<ul style="list-style-type: none"> <li>Update e-classification on IRAC website</li> <li>Update MoA WG page – more interactive</li> </ul>	Q4 2013 Q4 2013
Provide additional information on topics important to MoA and IRM	<ul style="list-style-type: none"> <li>Listing of key references for each MoA group                             <ul style="list-style-type: none"> <li>divide up responsibility based on groups</li> <li>Objective is to have key moa studies – not necessarily exhaustive</li> <li>Use of reviews for older chemistries</li> </ul> </li> </ul>	Q1 2014
Update of MoA Charter	<ul style="list-style-type: none"> <li>Objective is to include MoA Team’s responsibility for developing tools and communicating the classification scheme</li> </ul>	Q4 2013

# Communication & Education WG Objectives

Goals	Objectives	Date
Development of C&E material for the coming year	<ul style="list-style-type: none"> <li>• Finalise C&amp;E 2013/14 budget and timeline incorporating joint projects with the various WGs.</li> <li>• Liaise with the WGs, updating/developing new C&amp;E material e.g. posters, videos etc.               <ul style="list-style-type: none"> <li>○ Ensure no poster is more than 3 years old without review or updating</li> <li>○ Work with the Methods WG to publish at least 1 methods video during 2012</li> <li>○ Organise printing/re-printing of C&amp;E material as this becomes available from the WGs</li> <li>○ Develop mini-booklets outlining the principles of Crop IRM (as per Mini-VM)</li> </ul> </li> <li>• Liaise between UNL and Executive Committee on the Educational modules being developed</li> </ul>	May 2013  Dec 2013 Dec 2013 Ongoing Aug 2013 Ongoing
Leverage C&E through the CropLife network	<ul style="list-style-type: none"> <li>• Strengthen links of IRAC country groups with IRAC Intl &amp; local CropLife organization</li> <li>• Identify CropLife educational programs that miss a proper IRM session and support with relevant content.</li> <li>• Work with CropLife to develop a simple way of educating growers at all levels on the benefits of RM for the grower. Many understand the benefits for the companies/distributors but don't see the benefits for themselves.</li> </ul>	Ongoing
Maintain and improve the website as main IRAC C&E vehicle for resistance and IRM information	<ul style="list-style-type: none"> <li>• Continue the current round of improvement to the website and CMS:               <ul style="list-style-type: none"> <li>○ Update the WordPress CMS and associated plug-ins to improve site speed and performance</li> <li>○ Upgrade Team and Country Group web pages (target 3-4) as requested by teams</li> <li>○ Improve the Resources page and advanced search functions</li> <li>○ Continue to add further Pest Profiles/Pages (target 6-8) including public health pests</li> </ul> </li> <li>• Continue to add website content and documents as this becomes available:               <ul style="list-style-type: none"> <li>○ Information added directly into the web pages e.g. Team Pages</li> <li>○ New documents, poster, publications etc.</li> <li>○ Updates to Events, News and Contacts</li> </ul> </li> <li>• Improved site security and member login</li> <li>• Monitor user statistics and provide feedback to the WGs</li> </ul>	Dec. 2013 Feb. 2014 Aug. 2013 Feb. 2014 March 2014 Ongoing Ongoing Ongoing Dec 2013 Ongoing
eConnection Newsletter	<ul style="list-style-type: none"> <li>• Find and/or prepare appropriate articles for the IRAC eConnection and publish 3-4 issues a year:               <ul style="list-style-type: none"> <li>○ Issue 32</li> <li>○ Issue 33</li> <li>○ Issue 34</li> </ul> </li> <li>• Continue to distribute eConnection via MailChimp and monitor user statistics on deliveries and openings</li> </ul>	May 2013 Sept 2013 Jan 2014  Ongoing
eClassification, eMethods	<ul style="list-style-type: none"> <li>• Continue to update as an when information becomes available from the WGs</li> </ul>	On-going

# Resistance Database WG Objectives

Goals	Objectives	Date
Investigate the utility and costs of IRAC support for the MSU Database and RPMN	<ul style="list-style-type: none"><li>• Option of removing the IRAC survey data from the MSU server and posting existing information on the IRAC website</li><li>• Investigate proposed upgrades to the MSU database system and understand the potential benefits and costs</li><li>• Clarify what IRAC wants to obtain from the database and ensure this can be provided</li><li>• Option of a "State of the State" report from MSU each year to update IRAC on the status of resistance and important changes during the year</li><li>• Situation regarding preparation and distribution of the RPMN</li><li>• Agree an annual fee with MSU to provided the services required by IRAC</li></ul>	Q4 2013