Gmail **Travis Karschnik <karschnikaop@gmail.com>**

Re: Reactive oxygen species key events gardening

1 message

You Song <You.Song@niva.no> Mon, Mar 3, 2025 at 7:27 AM
To: Travis Karschnik <karschnikaop@gmail.com>
Cc: aopwiki <aopwiki@googlegroups.com>

Hi Travis,

The training page looks good to me. As Shihori is going to submit her AOP(s), it is important that she agrees with the changes. I can always improve the event pages later when needed. Thanks for organizing this important harmonization.

Best regards,

You Song (宋幽)
Senior Research Scientist, Ph.D.
Norwegian Institute for Water Research (NIVA)
Section of Ecotoxicology and Risk Assessment
Økernveien 94, NO-0579 Oslo, Norway

https://www.niva.no/en

RiskAOP

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From: Travis Karschnik <karschnikaop@gmail.com>
Sent: Friday, February 28, 2025 16:01
To: You Song <You.Song@niva.no>
Cc: aopwiki <aopwiki@googlegroups.com>
Subject: Re: Reactive oxygen species key events gardening

You,
If you follow the link to KE1115, it takes you to: https://training.aopwiki.org/events/1115 in contrast to the production server: https://aopwiki.org/events/1115. The training url is just a separate instance of the wiki that developers and gardeners can use to test workflows, conduct training, do testing etc... Occasionally, it gets updated to mirror the content on the production wiki

so in this case there was an opportunity for me to edit KE1115 to show you what it could look like before actually making the changes to the production instance.

I am working with Shihori as well and also pointed her at https://training.aopwiki.org/events/1115 to look it over. Once I get the OK from either you or Shihori I will make KE1115 on production (https://aopwiki.org/events/1115) look like KE1115 on training (https://training.aopwiki.org/events/1115).

Thanks,

On Fri, Feb 28, 2025 at 2:00 AM You Song <You.Song@niva.no> wrote:

> Hi Travis,
>
> I am not quite sure what "training instance" you are referring to. As Shihori developed most of the KE pages for 1940, maybe it is better to consolidate with her as well?
>
> Best regards,
>
> **You Song** (宋幽)
> **Senior Research Scientist, Ph.D.**
> **Norwegian Institute for Water Research (NIVA)**
> Section of Ecotoxicology and Risk Assessment
> Økernveien 94, NO-0579 Oslo, Norway
>
> https://www.niva.no/en
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> RiskAOP
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> ---
>
> **From:** Travis Karschnik <karschnikaop@gmail.com>
> **Sent:** Tuesday, February 25, 2025 19:55
> **To:** You Song <You.Song@niva.no>
> **Cc:** aopwiki <aopwiki@googlegroups.com>
> **Subject:** Re: Reactive oxygen species key events gardening
>
> CAUTION:EXTERNAL EMAIL - Do not click links or attachments unless you recognize the sender
>
> Great,
> Thanks You! Did you get a chance to look at KE1115 on the training instance? I transferred over unique content from KE1940 to give you a chance to see what KE1115 *could* look like on production. If you're satisfied with how it looks on training I can duplicate that on KE1115 on production.
>
> Thanks,
>
> On Tue, Feb 25, 2025 at 3:24 AM You Song <You.Song@niva.no> wrote:
>
> > Hi Travis,

I have replaced Event 1940 with 1115 for all my AOPs. I also took the liberty of swapping the names of the two events, as "Increase, Reactive oxygen specie (Increase, ROS)" is considered more appropriate by several experts in the previous communications. Hope this is ok?

Best regards,

You Song (宋幽)
Senior Research Scientist, Ph.D.
Norwegian Institute for Water Research (NIVA)
Section of Ecotoxicology and Risk Assessment
Økernveien 94, NO-0579 Oslo, Norway

https://www.niva.no/en

RiskAOP

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From: Travis Karschnik <karschnikaop@gmail.com>
Sent: Monday, February 24, 2025 21:14
To: You Song <You.Song@niva.no>
Cc: aopwiki <aopwiki@googlegroups.com>
Subject: Reactive oxygen species key events gardening

Hello You,

A set of apparently overlapping key events has been identified and a proposal to reduce them has been made. The set of Key Events, with yours highlighted, follows:

Event ID & Title	Short Name	Associated AOP Counts	Biological Context	%Fields Populated	Action
Event 1115: Increased, Reactive oxygen species	Increased, Reactive oxygen species	24	Cellular	44	Retain
Event 1940: Increase, Reactive oxygen species	Increase, ROS	13(1)	Molecular	67	Replace w/1115
Event 249: Production, Reactive oxygen species	Production, Reactive oxygen species	1	Tissue	0	Replace w/1115

Event 257: Increase, Excessive reactive Oxygen Species	Increase, Excessive ROS	4	Molecular	11	Replace w/1115
Event 1278: ROS formation	ROS formation	2	Molecular	11	Replace w/1115
Event 1364: Increase, Reactive oxygen species formation	Increase, ROS formation	2	Molecular	0	Replace w/1115
Event 1546: Increased reactive oxygen species (in the mitochondria)	Increased reactive oxygen species (in the mitochondria)	1	Cellular	0	Replace w/1115
Event 1592: ROS generation from photoactivated chemicals	ROS generation	1(1)	Molecular	56	Replace w/1115

KE1115 has been identified as the candidate to be retained. Since KE1940 is included in several AOPs you've developed, AOP325, AOP324, AOP326, AOP331, AOP332, AOP333, AOP299, AOP327, AOP328, AOP329, AOP330, and AOP311, I wanted to give you a chance to review this proposal before actions are taken. Here is a summary of what I will be enacting:

AOP325

- Replace KE1940 with KE1115
    - Recreate KER3477 (1940-> 1455) with a novel KER by linking (1115-> 1455)

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Event 249: Production, Reactive oxygen species	Production, Reactive oxygen species	1	Tissue	0	Replace w/1115
Event 257: Increase, Excessive reactive Oxygen Species	Increase, Excessive ROS	4	Molecular	11	Replace w/1115
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AOP325

- Replace KE1940 with KE1115
  - Recreate KER3477 (1940-> 1455) with a novel KER by linking (1115-> 1455)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit
KE	1445	Increase, Lipid peroxidation	Increase, LPO	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, LPO	adjacent			Edit Remove
Increase, LPO leads to Cell injury/death	adjacent			Edit Remove

AOP324

- Replace KE1940 with KE1115
  - Recreate KER3478 (1940-> 1634) with a novel KER by linking (1115-> 1634)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, Oxidative DNA damage	adjacent			Edit Remove
Increase, Oxidative DNA damage leads to Cell injury/death	adjacent			Edit Remove

AOP331

- Replace KE1940 with KE1115
  - Recreate KER3478 (1940-> 1634) with a novel KER by linking (1115-> 1634)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, Oxidative DNA damage	adjacent			Edit Remove
Increase, Oxidative DNA damage leads to Increase, DNA strand breaks	adjacent			Edit Remove
Increase, DNA strand breaks leads to Cell cycle, disrupted	adjacent			Edit Remove

AOP326

- Replace KE1940 with KE1115
  - Recreate KER3479 (1940-> 1767) with a novel KER by linking (1115-> 1767)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, Protein oxidation	adjacent			Edit Remove
Increase, Protein oxidation leads to Cell injury/ death	adjacent			Edit Remove

AOP332

- Replace KE1940 with KE1115
  - Recreate KER3477 (1940-> 1445) with a novel KER by linking (1115-> 1445)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Relationships Between Two Key Events (Including MIEs and AOs)

Please drag and drop the rows to place the relationships in order.

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, LPO	adjacent			Edit Remove
Increase, LPO leads to Cell cycle, disrupted	adjacent			Edit Remove

AOP333

- Replace KE1940 with KE1115
    - Recreate KER3481 (1940-> 1446) with a novel KER by linking (1115-> 1446)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Decrease, Coupling of OXPHOS	adjacent			Edit Remove
Decrease, Coupling of OXPHOS leads to Decrease, ATP pool	adjacent			Edit Remove

AOP299

- Replace KE1940 with KE1115
    - Recreate KER3484 (1686-> 1940) with a novel KER by linking (1686-> 1115)
    - Recreate KER3478 (1940-> 1634) with a novel KER by linking (1115-> 1634)

Type	Event ID	Title	Short name	
MIE	1686	Deposition of Energy	Energy Deposition	Edit
KE	1634	Increase, Oxidative DNA damage	Increase, Oxidative DNA damage	Edit
KE	1444	Increase, Follicular atresia	Increase, Follicular atresia	Edit
KE	1366	Decrease, Oogenesis	Decrease, Oogenesis	Edit
KE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Energy Deposition leads to Increase, ROS	adjacent			Edit Remove
Increase, ROS leads to Increase, Oxidative DNA damage	adjacent			Edit Remove
Increase, Oxidative DNA damage leads to Increase, Follicular atresia	adjacent			Edit Remove

AOP327

- Replace KE1940 with KE1115
    - Recreate KER3479 (1940-> 1767) with a novel KER by linking (1115-> 1767)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, Protein oxidation	adjacent			Edit Remove
Increase, Protein oxidation leads to Increase, Abnormal osmoregulation	adjacent			Edit Remove

AOP328

- Replace KE1940 with KE1115
    - Recreate KER3479 (1940-> 1770) with a novel KER by linking (1115-> 1770)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Decrease, MMP	adjacent			Edit Remove
Decrease, MMP leads to Decrease, OXPHOS	adjacent			Edit Remove

AOP329

- Replace KE1940 with KE1115
    - Recreate KER3477 (1940-> 1445) with a novel KER by linking (1115-> 1445)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, LPO	adjacent			Edit Remove
Increase, LPO leads to Decrease, TAG	adjacent			Edit Remove

AOP330

- Replace KE1940 with KE1115
  - Recreate KER3478 (1940-> 1634) with a novel KER by linking (1115-> 1634)

Type	Event ID	Title	Short name	
MIE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Increase, ROS leads to Increase, Oxidative DNA damage	adjacent			Edit Remove
Increase, Oxidative DNA damage leads to Increase, DSB	adjacent			Edit Remove
Increase, DSB leads to Increase, Apoptosis	adjacent			Edit Remove

AOP311

- Replace KE1940 with KE1115
  - Recreate KER3484 (1686-> 1940) with a novel KER by linking (1686-> 1115)
  - Recreate KER3478 (1940-> 1634) with a novel KER by linking (1115-> 1634)

Type	Event ID	Title	Short name	
MIE	1686	Deposition of Energy	Energy Deposition	Edit
KE	1634	Increase, Oxidative DNA damage	Increase, Oxidative DNA damage	Edit
KE	1775	Increase, Oocyte apoptosis	Increase, Oocyte apoptosis	Edit
KE	1366	Decrease, Oogenesis	Decrease, Oogenesis	Edit
KE	1940	Increase, Reactive oxygen species	Increase, ROS	Edit

Title	Adjacency	Evidence	Quantitative Understanding	
Energy Deposition leads to Increase, ROS	adjacent			Edit Remove
Increase, ROS leads to Increase, Oxidative DNA damage	adjacent			Edit Remove
Increase, Oxidative DNA damage leads to Increase, Oocyte apoptosis	adjacent			Edit Remove

I'm looking forward to hearing back from you. If no response is received by 03/28/2025 I'll move ahead with the gardening actions described above.

Thanks!

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Travis Karschnik

On behalf of the AOPWiki Administrator group.

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