



SDI Review Form 1.6

Journal Name:	Annual Research & Review in Biology
Manuscript Number:	2013_ARRB_8763
Title of the Manuscript:	Current Methods Used in the Protein Carbonyl Assay
Type of the Article	Minireview Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments		
Minor REVISION comments	Indeed, the article is well written and discussed most the methods of measuring protein carbonyl groups. Only a minor a comment about GSH: Line 36-37: Please provide us with references about using GSH as marker for protein damage. GSH as a non-enzymatic antioxidant generally measured to evaluate the oxidative stress induced. So, it can also a marker for lipid oxidation. - Also, the authors should refer to the important reference about methods of protein carbonyl: Dalle-Donne et al., 2003. Clinica Chimica Acta 329 (2003) 23 –38. This reference discussed all methods used until 2003.	The comments were appreciated by the authors. Endorsed. Indeed the GSH is not a marker for protein damage, therefore was deleted. The sentence was updated accordingly. Extra references were also added for the measurement of protein thiols, as markers of oxidative damage of proteins: Hawkins CL, Morgan PE, Davies MJ. Quantification of protein modification by oxidants. Free Radic Biol Med . 2009, 46: 965-988. Moriarty-Craige S. E.; Jones D. P. Extracellular thiols and thiol/disulfide redox in metabolism. Annu. Rev. Nutr. 2004; 24:481–509. Endorsed. The reference was included. See the revised document.
Optional/General comments	If possible, it will be very useful for the reader to make a simple diagram for all methods used to detect protein carbonyl groups (example in Dalle-Donne et al., 2003) including the recent methods.	Taking into account that this approach was already used (as reviewer mentioned), can't be repeated in our mini-review. We believe that the structure of the article and the way we separated the methods and techniques are also easy for reader to follow.