Publication

LIST OF PUBLICATIONS
(Cacang Suarna)

a. International Journals

1. Niv Vigder, **Cacang Suarna**, Leo Corcillius, James Nadel, Weiyu Chen, Richard Payne, Sergey Tumanov and Roland Stocker. Free Radical Biology and Medicine 195 (2023) 23–35. An improved method for the detection of myeloperoxidase chlorinating activity in biological systems using the redox probe hydroethidine

2. Anita Ayer, Daniel J. Fazakerley, **Cacang Suarna**, Ghassan J. Maghzal, Diba Sheipouri, Kevin J. Lee, Michelle C. Bradley, Lucía Fern´andez-del-Rio, Sergey Tumanov, Stephanie MY. Kong, Jelske N. van der Veen, Andrian Yang, Joshua W.K. Ho, Steven G. Clarke, David E. James, Ian W. Dawes, Dennis E. Vance, Catherine F. Clarke, Ren´e L. Jacobs, Roland Stocker. Redox Biology 46 (2021) 102127. Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q.

3. Weiyu Chen, Sergey Tumanov, Daniel Fazarkeley, James Cantley, David E. James, Louise L. Dunn, Taqi Shaik, **Cacang Suarna**, Roland Stocker. Redox Biology 47 (2021) 102152. Bilirubin deficiency renders mice susceptible to hepatic steatosis in the absence of insulin resistance.

4. Raphael F. Queiroz, **Cacang Suarna**, Leo Corcilius, Genevieve E. Sergeant, Sudhir Shengule, Richard J. Payne, Anita Ayer and Roland Stocker. NATURE PROTOCOLS |VOL 16 | JULY 2021 | 3382–3418. Preparation, validation and use of a vasoactive tryptophan-derived hydroperoxide and relevant control compounds.

5. Meghna Sobti, Robert Ishmukhametov, James C Bouwer, Anita Ayer, **Cacang Suarna**, Nicola J Smith, Mary Christie, Roland Stocker, Thomas M Dunca, Alastair G Stewart. eLife 2019;8:e43864. Cryo-EM reveals distinct conformations of E. coli ATP synthase on exposure to ATP

6. Christopher P. Stanley, Ghassan J. Maghzal, Anita Ayer, Jihan Talib, Andrew M. Giltrap, Sudhir Shengule, Kathryn Wolhuter, Yutang Wang, Preet Chadha, **Cacang Suarna**, Oleksandra Prysyazhna, Jenna Scotcher, Louise L. Dunn, Fernanda M. Prado, Nghi Nguyen, Jephthah O. Odiba, Jonathan B. Baell, Johannes-Peter Stasch, Yorihiro Yamamoto, Paolo Di Mascio, Philip Eaton, Richard J. Payne & Roland Stocker. 5 5 0 | N AT U RE | VO L 5 6 6 | 2 8 F E B R UA RY 2 0 1 9. Singlet molecular oxygen regulates vascular tone and blood pressure in inflammation.

7. Aline Roch, Nicholas J. Magon, Jessica Maire, **Cacang Suarna**, Anita Ayer, Sophie Waldvogel, Beat A. Imhof, Mark J. Koury, Roland Stocker and Marc Schapira. JCI Insight. 2019;4(21):e126376. Transition to 37°C reveals importance of NADPH in mitigating oxidative stress in stored RBCs.

8. Weiyu Chen, Ghassan J. Maghzal, Anita Ayer, **Cacang Suarna**, Louise L. Dunn, Roland Stocker. Free Radical Biology and Medicine 115 (2018) 156–165. Absence of the biliverdin reductase-a gene is associated with increased endogenous oxidative stress.

9. Lay KhoonToo, Kong M.Li, **Cacang Suarna**, Ghassan J.Maghzal, Roland Stocker, IainS.McGregor, Nicholas H. Hunt. Data in Brief 9 (2016)275–287. Behavioral and cognitive data in mice with different tryptophan-metabolizing enzymes knocked out.

10. Lay Khoon Tooa, Kong M. Li, **Cacang Suarna**, Ghassan J. Maghzal, Roland Stocker, Iain S. McGregore, Nicholas H. Hunt. Behavioural Brain Research 312 (2016) 102–117. Deletion of TDO2, IDO-1 and IDO-2 differentially affects mouse behavior and cognitive function.

11. Stuart T. Fraser, Robyn G. Midwinter, Lucy A. Coupland, Stephanie Kong, Birgit S. Berger, Jia Hao Yeo, Osvaldo Cooley Andrade, Deborah Cromer, **Cacang Suarna**, Magda Lam, Ghassan J. Maghzal, Beng H. Chong, Christopher R. Parish and Roland Stocker. haematologica | 2015; 100(5). Heme

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oxygenase-1 deficiency alters erythroblastic island formation, steady-state erythropoiesis and red blood cell lifespan in mice.

12. Ghassan J. Maghzal, Katie M. Cergol, Sudhir R. Shengule, **Cacang Suarna**, Darren Newington, Anthony J. Kettle, Richard J. Payne, and Roland Stocker. THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 289, NO. 9, pp. 5580–5595, February 28, 2014. Assessment of Myeloperoxidase Activity by the Conversion of Hydroethidine to 2-Chloroethidium*.

13. Thomas Weichhart, Chantal Kopecky, Markus Kubicek, Michael Haidinger, Dominik Döller, Karl Katholnig, **Cacang Suarna**, Philipp Eller, Markus Tölle, Christopher Gerner, Gerhard J. Zlabinger, Markus van der Giet, Walter H. Hörl, Roland Stocker, and Marcus D. Säemann. J Am Soc Nephrol 23: 934–947, 2012. Serum Amyloid A in Uremic HDL Promotes Inflammation.

14. Ying Fu, Nectarios Klonis, **Cacang Suarna**, Ghassan J. Maghzal, Roland Stocker, Leann Tilley (2009). Cytometry Part A, 75A: 390-404. A phosphatidylcholine-BODIPY 581/591 conjugate allows mapping of oxidative stress in P. falciparum-infected erythrocytes.

15. Mark Woodward, Kevin Croft, Trevor Mori, Henrietta Headlam, Xiao Wang, **Cacang Suarna**, Mark Raftery, Stephen Macmahon, Roland Stocker. Clin Sci (Lond). 2008 May 28: 18507534 (P,S,G,E,B). The association between both lipid and protein oxidation and the risk of fatal or non-fatal coronary heart disease in a human population.

16. Elias N Glaros, Woojin S , Benjamin J Wu, **Cacang Suarna**, Carmel M Quinn, Kerry-Anne Rye, Roland Stocker, Wendy Jessup and Brett Garner. Biochemical Pharmacology, 73: 1340-1346, 2007. Inhibition of atherosclerosis by the serine palmitoyl transferase inhibitor myriocin is associated with reduced plasma glycosphingolipid concentration.

17. **Cacang Suarna**, Ben J Wu, Katherine Choy, Trevor Mori, Kevin Croft, Osamu Cynshi and Roland Stocker. Free Radical Biology & Medicine, 41: 722-730, 2006. Protective effect of vitamin E supplements on experimental atherosclerosis is modest and depends on pre-existing vitamin E deficiency.

18. Ryo Yamauchi, Peter Southwell-Keely, **Cacang Suarna**, Sangeeta Ray, Mark Raftery, Osamu Cynshi and Roland Stocker. Free Radical Biology & Medicine, 38, 32-40, 2005. Characterization of the oxidation products of BO-653 formed during peroxyl radical-mediated oxidation of human plasma.

19. **Cacang Suarna**, Roger T. Dean, Roland Stocker and Peter T. Southwell-Keely. Australian Journal of Chemistry, 50 : 1129-1135, 1997. Synthesis of α-Tocopherol Analogues.

20. **Cacang Suarna**, Roger T. Dean, Peter T. Southwell-Keely, Douglas E. Moore and Roland Stocker. Free Rad. Res, Vol 27 (4) : 397-408, 1997. Separation and Characterization of Cholesteryl oxo- and hydroxy-linoleate from Human Atherosclerotic Plaque.

21. **C. Suarna**, J. May, R.T. Dean and R. Stocker (1995), Atherosclerosis, Thrombosis and Vascular Biology 15 : 1616-1624. Human Atherosclerotic Plaque Contains Both Oxidized Lipids and Relatively large Amounts of α-Tocopherol and Ascorbate.

22. I. Kohar, **C. Suarna**, R. Stocker and P.T. Southwell-Keely (1995), Free Rad. Biol. Med. 19 : 197-207. Is α-tocopherylquinone a reservoir for α-tocopherylhydroquinone ?

23. I. Kohar, **C. Suarna**, and P.T. Southwell-Keely (1993), Lipids, 28, 1015-1020. Oxidation of α-tocopherol Model Compound 2,2,5,7,8-Pentamethyl-6-chromanol. Formation of 2,2,7,8 Tetramethyl-chroman-5,6-dione.

24. Roland Stocker and **Cacang Suarna** (1993), Biochimica et Biophysica Acta, 1158, 15-22. Extracellular Reduction of Ubiquinone-1 and -10 by human Hep G2 blood cells.

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25. **Cacang Suarna**, Ross L. Hood, Roger T. Dean and Roland Stocker (1993), Biochimica et Biophysica Acta, 1166, 163-170. Title : Comparative Antioxidant Activity of Tocotrienols and Other Natural Lipid-Soluble Antioxidant in a Homogeneous System, and in Rat and Human Lipoproteins.

26. **Cacang Suarna**, Manuel Baca and Peter T. Southwell-Keely. Lipid (1992), Vol. 27, No. 6, 447-453. Title : Oxidation of α- Tocopherol Model Compound 2,2,5,7,8-Pentamethyl-6-chromanol in Presence of Alcohols.

27. **Cacang Suarna**, Manuel Baca, Donald C. Craig, Marcia Scudder and Peter T. Southwell-Keely (1991), Further Oxidation Product of 2,2,5,7,8-Pentamethyl-6-chromanol. Lipids, Vol. 26, No. 10, 847-852.

28. Manuel Baca , **Cacang Suarna** and Peter T. Southwell-Keely (1991). Separation of the α-tocopherol Model Compound, 2,2, 5,7,8-Pentamethyl-6-chromanol from Its Oxidation Products by High Performance Liquid Chromatography. Journal of Liquid Chromatography, 14(10), 1957-1966.

29. **Cacang Suarna** and Peter T. Southwell-Keely (1991). Antioxidant Activity of Oxidation Product of Vitamin E and Its Model Compound, 2,2,5,7,8-Pentamethyl-6-chromanol. Lipid, Vol. 26, No. 3, 187-190.

30. H.T. Ostrowski-Meissner, H.T. Jeffry, S.W. Wright and **C. Suarna**. Italian Journal of food Science, Special Issue, Proceeding of the Third International on Leaf Protein Research, Italy, 158-160, 1989. Title : extractability and Profiles of Pigments in Concentrated Leaf extract from Lucerne Grown under Three Climatic Condition in Australia.

31. **Cacang Suarna** and P.T. Southwell-Keely. Lipid (1989), Vol. 24, No. 1, 56-60. The Effect of Alcohols on the oxidation of the Vitamin E Model Compound, 2,2,5,7,8-Pentamethyl-6-chromanol.

32. **Cacang Suarna**, Sumarno, Derek Nelson and Peter T. Southwell-Keely (1989). New Oxidation Products of 2,2,5,7,8-Pentamethyl-6-chromanol. Lipid, Vol. 23, No. 12, 1129-1131.

33. **Cacang Suarna**, Donald C, Craig, Keith J. Cross and Peter T. Southwell-Keely (1988). Oxidation of Vitamin E (α-Tocopherol) and Its Model Compound 2,2,5,7,8-Pentamethyl-6-chromanol. A New Dimer. J. Org. Chem., 53, 1281-1284.

34. **Cacang Suarna** and Peter T. Southwell-Keely (1988). New Oxidation Products of α-Tocopherol. Lipid, Vol. 23, No. 2, 137-139.

35. M. Sumarno, E. Atkinson, **C. Suarna**, J.K. Saunders, E.R. Cole and P.T. Southwell-Keely (1987). Solvent Influence on Oxidation of α-Tocopherol. Biochimica et Biophysica Acta, 920, 247-250.

b Chapter of the Book.

1. **Cacang Suarna**, Roger T. Dean and Roland Stocker (1992). The Reactivity of Tocotrienols and Other Lipid-Soluble Antioxidants Towards Peroxyl Radicals, In : "Lipid-Soluble Antioxidants : Biochemistry and Clinical applications". Molecular and Cell Biology Updates (Ong, A.S.H. and Packer, L, Editors), Birkhaüser Verlag, Basel, Switzerland, pp. 17-26.

2. I. Kohar, **C. Suarna**, M. Baca and P.T. Southwell-Keely (1992). A Possible Role for α-Tocopherylquinone an in vivo Antioxidant, In : " Oxygen Radicals", Yagi et al (Editors), Elsevier, Amsterdam, Excerpta Medica, pp. 617-620.

c. Abstracts (Posters).

Publication

1. Impact of vitamin E deficiency and supplements on atherosclerosis and lipid oxidation. **Cacang Suarna**, Osamu Cynshi, Ben J Wu, Kevin D Croft and Roland Stocker (1-4 December 2005). Free Radical Society of Australia-Japan. Gold Coast, Queensland, Australia. Abstract

2. Instant Analytical Method Validation of Menthol in the Centerfilled Blue Throat Drop FFP-61. **Cacang Suarna** and Rosnawati (1996). The 4th Annual P&G Asia Technical Symposium, KTC, Kobe, Japan. Abstract.

3. Antioxidant and Lipid Red-Ox Status in Human Atherosclerotic Plaque, **C. Suarna**, J. May, R.T. Dean and R. Stocker. The 7th Biennial Scientific Meeting of the International Society for Free Radical Research, Sydney, November 6-10, 1994. Abstract.

4. Does Human Atherosclerotic Plaque Provide a Pro-oxidant Environment ?. **C. Suarna**, R.T. Dean and R. Stocker. The 7th Biennial Scientific Meeting of the International Society for Free Radical Research, Sydney, November 6-10, 1994. Abstract.

5. Redox Status of Antioxidant and Cholesterylesters Isolated from Human Atherosclerotic Plaque. **Cacang Suarna**, Roger Dean, James May and Roland Stocker. The 4th Conferences of the Society for Free Radical Research (Australia), Christchurch School of Medicine, New Zealand, October 1-3, 1993. Presentation.

6. Is α-Tocopherylquinone an in Vivo Antioxidant. I. Kohar, **C. Suarna**, M.Baca and P.T. Southwell-Keely. The Society for Free Radical Research. 3rd National Meeting, Lorne, Victoria, 23-24 November, 1991. Abstract.
7. Antioxidant Efficiency of Tocotrienols in the Protection of Lipoprotein Lipids Against Peroxidation. **Cacang Suarna**, Roger T. Dean and Roland Stocker. The Society for Free Radical Research. 3rd National Meeting, Lorne, Victoria, 23-24 November, 1991. Abstract.

8. A Possible Role for α-Tocopherol have Antioxidant Activity ? **Cacang Suarna** and Peter T. Southwell-Keely. The 5th International Congress on Oxygen Radicals : Active Oxygens, Lipid Peroxides and Antioxidants, Kyoto, Japan, November 17-21, 1991. Abstract.

9. Do Oxidant Products of α-Tocopherol have Antioxidant Activity ?. **Cacang Suarna** and Peter T. Southwell-Keely. The UNESCO/COSTAM Workshop on Lipid-Soluble Antioxidants in Biochemistry of Nutrition and Environmental Health, Penang, Malaysia, 20-22 September, 1991. Presentation.

10. Separation of Oxidation Products of the Vitamin E Model Compound, 2,2,5,7,8-Pentamethyl-6-chromanol. **C. Suarna**, M. Baca and P.T. Southwell-Keely. The Society for Free Radical Research (Australia)-1989 Meeting, 2nd-3rd December, School of Biological Sciences, Macquarie University. Abstract.

11. HPLC Studies on the Oxidation of the Vitamin E Model Compound, 2,2,5,7,8- Pentamethyl-6-chromanol. **C. Suarna**, M. Baca and P.T. Southwell-Keely. The Society for Free Radical Research (Australia)-1989 Meeting, 2nd-3rd December, School of Biological Sciences, Macquarie University. Abstract.

12. Antioxidant Activity of Oxidation Products of Vitamin E and of Its Model Compound, 2,2,5,7,8-Pentamethyl-6-chromanol. **C. Suarna** and P.T. Southwell-Keely. The Society for Free Radical Research (Australia)-1989 Meeting, 2nd-3rd December, School of Biological Sciences, Macquarie University. Abstract.

13. New Oxidation Products of α-tocopherol and Its Model Compound 2,2,5,7,8-pentamethyl-6-hydroxy chorman. **C. Suarna**, K.C. Cross, D.C.Craig, and P.T. Southwell-Keely. The Society for Free Radical Research (Australia)-1989 Meeting, 2nd-3rd December, School of Biological Sciences, Macquarie University. Abstract.

14. Effect of Alcohol on the oxidation of α-tocopherol and model compound, 2,2,5,7,8-pentamethyl-6-hydroxy chorman. M. Sumarno, E. Atkinson, **C. Suarna**, J.K. Saunders, E.R. Cole and P.T. Southwell-

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Keely. The eighth National Convention of Royal Australian Chemical Institute, Organic Chemistry Division, UNSW, 24-28 August 1987. Abstract.

15. New oxidation of α-tocopherol and its model compounds, 2,2,5,7,8-pentamethyl-6-hydroxy chorman. **C.Suarna**, K.C.Cross, D.C.Craig, and P.T.Southwell-Keely. The eighth National Convention of Royal Australian Chemical Institute, Organic Chemistry Division, UNSW, 24-28 August 1987. Abstract.

16. Nutritional and Biochemical Characteristic of Protein Fractions Extracted from *Leucaena.* Author : H.T. Ostrowski-Meissner, **S. Cacang**, H. Pandjaitan and Idris Barchia. The XIIth International Congress of Nutritional, San Diego, California, U.S.A., 1981. Presentation.

d. Oral Presentation

1. **IMPACT OF VITAMIN E AND BO-653 ON ATHEROSCLEROSIS AND LIPID OXIDATION**. 17 January 2006. National Cardiac Research Institute "Harapan Kita", University of Indonesia, Jakarta

2. Characterization of the oxidation products of BO-653 formed during peroxyl radical-mediated oxidation of human plasma, 4 January 2005, Faculty of Pharmacy, University of Surabaya, Indonesia.

3. The UNESCO/COSTAM Workshop on Lipid-Soluble Antioxidant in Biochemistry of Nutrition and Environmental Health, Penang, **Malaysia**, September 20-22, 1991 Title "Antioxidant Efficiency of Tocotrienols in the Protection of Lipoprotein Lipids Against Peroxidation.

4. At **Borobudur Hotel, Jakarta, Indonesia** (October 26, 1993). Advertised in prestigious Indonesian Newspaper "Kompas", 20 October 1993. α-Tocopherol, Its analogues and homologues as antioxidants.

5. At the Christchurch School of Medicine, **Christchurch, New Zealand** (October 1-3, 1993). The 4th Conferences of the Society for Free Radical Research (Australia) Reduction of Ubiquinone-1 and Ubiquinone-10 by Human Blood and by Hep G2 cells.

e. Proceedings.

1. Proceedings of the XV International Grassland Congress, August 24-31, 1985, Kyoto. The Science of Japan. The Japanese Society of Grassland Science. Title : Effect of Contamination by *Aspergillus Flavus* on The Nutritive Value of Leaf Protein Concentrate of *Leucaena Leucephala*. Authors : H.T. Otrowski-Meissner, I. Komang. W. Supratman, I. Barchia and **S. Cacang**.

2. Recent Advances in Leaf Protein Research. Proceeding of The 2nd International Conference on Leaf Protein Research, 1985, Nagoya and Kyoto, Japan. Edited by Iwao Tasaki. Title : Effect Contamination by *Aspergillus Flavos* on the Nutritive Value of Leaf Protein Concentrate of *Leucaena Leucephala*. Authors : H.T. Ostrowski-Meissner, I. Komang, W. Supratman, I. Barchia and **S. Cacang**.