

## PUBLICATIONS

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- Summons R.E. and Brocks J.J. (2003) Molecular Fossils of Archean Biota: Fact or Fiction? Invited Lecture for Symposium: The Hunt for Precambrian Life: An Integrated Approach. Abstracts with program, GSA Annual Meeting, Seattle, Washington.
- Summons R.E. (2003) Biomarkers of Neoproterozoic Biota. Invited Lecture for Pardee Symposium: Neoproterozoic Geobiology: Fossils, Clocks, Isotopes, and Rocks. Abstracts with program, GSA Annual Meeting, Seattle, Washington.
- Rothman D.H., Hayes J.M. and Summons R.E. (2003) Dynamics of the Neoproterozoic Carbon Cycle. Invited Lecture for Pardee Symposium: Neoproterozoic Geobiology: Fossils, Clocks, Isotopes, and Rocks. Abstracts with program, GSA Annual Meeting, Seattle, Washington.
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Fischer W.W., Summons R.E and Pearson A. (2004) Anaerobic biosynthesis of hopanoids by a microbe prevalent in anoxic environments. *Geol Soc America 2004 Annual Meeting Abstr.* 28-7.

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- Summons R.E. (2005) Australian contributions to the field of organic geochemistry. American Chemical Society, spring meeting, San Diego, California. Invited.
- Bradley A.S., Grover H., Sylva S., Londry K., Hayes J.M. and Summons R.E. (2005) Compound-specific isotope analysis of hydroxyarchaeols at the Lost City Hydrothermal Field and in cultured methanogenic Archaea 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. OP5-1.
- Love G.D., Grosjean E., Fike D.A., Grotzinger J.P., Bowring S.A., Condon D., Lewis A.N., Stalvies C., Snape C.E. and Summons R.E. (2005) A >90 million year molecular record of Neoproterozoic sponges (Porifera) in the South Oman Salt Basin. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. OGPR-3.
- Grosjean E., Stalvies C., Love G.D., Lewis A.N., Hebling Y., Fike D.A., Taylor P.N., Newall M.J., Grotzinger J.P., Farrimond P. and Summons R.E. (2005) New oil-source correlations in the South Oman Salt Basin. Abstr. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. OOS-1.
- Summons R.E., Cao C., Love G.D., Grice K., Grosjean E. and Jin (2005) Molecular records of euxinia and protracted environmental disturbance from Permian to early Triassic sediments at Meishan, South China. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. OPE2-3.
- Grice K., M.E. Böttcher, R.J. Twitchett, E. Grosjean, R.E. Summons, S.C. Turgeon, W. Dunning (2005) Evidence for Photic Zone Euxinia during the Permian- Triassic "Superanoxic Event". 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PPC1-4.
- Grice K., R. Twitchett, R.E. Summons, C.B. Foster, C.J. Barber, D. Dawson, R. Alexander, P. Greenwood (2005) Biomarker distributions and their stable isotopes in marine Permian/Triassic sections from around the globe. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PB1-5.
- Rothman D.H., R. Summons, J.M. Hayes (2005) Inferring ancient food-chain dynamics from the fluctuating isotopic compositions of specific organic compounds. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PBG2-9.
- Yunker M.B., G.A. Logan, M.T. Bradshaw, C.J. Boreham, R.E. Summons, D.S. Edwards, J.E. Zumberge. (2005) Australian oil families: a comprehensive assessment using principal components analysis of terpane, hopane and sterane biomarkers. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PB2-12.
- Ventura G.T., F. Kenig, C. Reddy, R. Nelson, R.E. Summons (2005) Biomarker record from the Upper Tisdale (2707 – 2705 Ma) and Porcupine Assemblage (2685 – 2673 Ma) of the late Archaeian Abitibi subprovince, Timmins, Ontario, Canada. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, PC2-25.
- Ventura G.T., F. Kenig, E. Grosjean, R.E. Summons (2005) Biomarker analysis of solvent extractable organic matter from the Late Neoproterozoic Kwagunt formation, Chuar group (~800-742 Ma), Grand Canyon. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PB2-19.

- Hebting Y., R.E. Summons (2005) Synthesis of novel isomers of phytanol and hydroxyarchaeol 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PB2-2.
- Hebting Y., R. Nelson, C. Reddy, G. Frysinger, E. Grosjean, R. Summons (2005) Multidimensional GC-FID and GC-MS identification of cycloalkanes in Neoproterozoic sediments and crude oils from Oman. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PB2-3.
- Stalvies C., G.D. Love, E. Grosjean, W. Meredith, P. Farrimond, J.P. Grotzinger, C.E. Snape, R.E. Summons (2005) Catalytic hydrolysis of Neoproterozoic kerogens from the South Oman Salt Basin. 22<sup>nd</sup> International Meeting on Organic Geochemistry. Seville, Abstr. PM-19.
- Bradley A.S., Love G.D., Brocks J.J., Sievert S.M., Summons, R.E. (2005), Branched Alkanes with Quaternary Carbon Centers (BAQCs): Biomarkers for Ancient Microbes or Recent Microbial Activity? *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract B14A-02
- Summons R.E., Meyer-Dombard D.R., Bradley A.S., Dibbell A. K., Fredricks H.F., Hinrichs K.-U., Jahnke L.L., Shock E., Amend J.P. (2005) Molecular Studies of Filamentous and Biofilm-Forming Hyperthermophilic Communities in Yellowstone National Park. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract B14A-01 Invited
- Meyer-Dombard D.R., Bradley A.S., Havig J.R., Amend J.P., Shock E.L., and Summons R.E. (2006) Physiochemical Parameters of Streamer-forming Biofilm Communities (SBCs) in Terrestrial Hydrothermal Environments. Abstracts Astrobiology Science Conference, Washington DC.
- Summons R.E., Bradley A.S., Jahnke L.L. and Waldbauer J. (2006) Steroids, Triterpenoids and the Geological Record of Molecular Oxygen. Abstracts Astrobiology Science Conference, Washington DC, Invited.
- Summons R.E., Bradley A.S., Jahnke L.L. and Waldbauer J. (2006) Steroids, Triterpenoids and the Geological Record of Molecular Oxygen. Abstracts of the Astrobiology Science Conference, Washington DC, Invited.
- Summons R.E., Jahnke L.L., Bradley A.S., Love G.D., Sherman L.S. and Waldbauer J.R. (2006) Molecular signatures for cyanobacteria. Abstracts of the Agouron Institute Oxygen Conference, Santa Fe, NM.
- Summons R.E. (2006) Biomarkers as Proxies for Life and Environment. *Eos Trans. AGU*, 87(36), Jt. Assem. Suppl., B41A-02 Invited.
- Summons R.E., Love G.D., Hays L., Cao C., Jin Y., Foster C.B., Grice K., Henderson C.M. and Payne J. (2006) Molecular Evidence for Radical Changes in Ocean Chemistry, Globally, Across the Permian Triassic Boundary. Abstracts of the International Paleontological Congress, Beijing, China. Invited Plenary.
- Summons R.E., Waldbauer J.R., Bradley A.S., Love G.D., Sherman L.S. and Jahnke L.L., (2006) Biomarker Hydrocarbons: Evidence for a Complex Microbial Ecosystem in the Archean. Abstracts of the International Paleontological Congress, Beijing, China. Invited.
- Fike D.A., Grotzinger J.G, Pratt L.M. and Summons R.E. (2006) Multi-stage Ediacaran ocean oxidation and its impact on evolutionary radiation. V.M. Goldschmidt Conference Abstracts, *Geochim.Cosmochim. Acta* 70, A11(#347).
- Bradley A.S., Grover H., Londry K. and Summons R.E. (2006) Fractionation of carbon isotopes in *Methanosarcina barkeri*. V.M. Goldschmidt Conference Abstracts, *Geochim.Cosmochim. Acta* 70, A35 (#229).
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