

## APPENDIX: RESEARCH PUBLICATIONS – Professor R.C.F. Jones

### Scientific Papers (refereed):

1. 'The Biosynthesis of Hasubanonine and Protostephanine', A.R. Battersby, **R.C.F. Jones**, R. Kazlauskas, C. Poupat, C.W. Thornber, S. Ruchirawat and J. Staunton, *J. Chem. Soc., Chem. Commun.*, 1974, 773-775.
2. 'Experiments on the Early Steps in Morphine Biosynthesis', A.R. Battersby, **R.C.F. Jones** and R. Kazlauskas, *Tetrahedron Lett.*, 1975, 1873-1876.
3. 'A Synthesis of 3-Acyl-5-Alkyltetramic Acids', **R.C.F. Jones** and S. Sumaria, *Tetrahedron Lett.*, 1978, 3173-3176.
4. 'Imidazolines in Synthesis, I: Lithio Imidazolines–Formation & C-Alkylation', M.W. Anderson, **R.C.F. Jones** and J. Saunders, *Tetrahedron Lett.*, 1981, **22**, 261-264.
5. 'Biosynthesis. Part 23. Degradative Studies on the Alkaloids Hasubanonine and Protostephanine from *Stephania Japonica*', A.R. Battersby, **R.C.F. Jones**, R. Kazlauskas, A.P. Ottridge, C. Poupat and J. Staunton, *J. Chem. Soc., Perkin Trans. 1*, 1981, 2010-2015.
6. 'Biosynthesis. Part 24. Speculative Incorporation Experiments with 1-Benzyl-isoquinolines and a Logical Approach via C6-C2 and C6-C3 Precursors to the Biosynthesis of Hasubanonine and Protostephanine', A.R. Battersby, **R.C.F. Jones**, R. Kazlauskas, C.W. Thornber, S. Ruchirawat and J. Staunton, *J. Chem. Soc., Perkin Trans. 1*, 1981, 2016-2029.
7. 'Biosynthesis. Part 25. Proof that Hasubanonine and Protostephanine are Biosynthesised from the 1-Benzylisoquinoline System', A.R. Battersby, **R.C.F. Jones**, A. Minta, A.P. Ottridge and J. Staunton, *J. Chem. Soc., Perkin Trans. 1*, 1981, 2030-2039.
8. 'Charge-transfer & Non-charge-transfer Crystal Forms of (*E*)-5,5'-Dimesityl-bifuranylidenediones: An X-Ray Structural Investigation', M.J. Begley, L. Crombie, G.L. Griffiths, **R.C.F. Jones** and M. Rahmani, *J. Chem. Soc., Chem. Commun.*, 1981, 823-825.
9. 'Nucleophilic Addition to 2-Imidazolines: A Ketone Synthesis via Tetrahydrofolate Coenzyme Models', M.W. Anderson, **R.C.F. Jones** and J. Saunders, *J. Chem. Soc., Chem. Commun.*, 1982, 282-283.
10. 'Medium Ring Heterocycles: Transamidation Reactions of  $\beta$ -Lactams', L. Crombie, **R.C.F. Jones**, S. Osborne and Ab.R. Mat-Zin, *J. Chem. Soc., Chem. Commun.*, 1983, 959-960.
11. 'Synthesis of Homaline and *epi*-Homaline', L. Crombie, **R.C.F. Jones**, Ab.R. Mat-Zin and S. Osborne, *J. Chem. Soc., Chem. Commun.*, 1983, 960-961.
12. 'Directed Metallation of Tetramic Acids: A New Synthesis of 3-Acyltetramic Acids', **R.C.F. Jones** and G.E. Peterson, *Tetrahedron Lett.*, 1983, **24**, 4751-4754.
13. 'An Unusual Bond Migration during *O*-Acylation of Tetramic Acids', **R.C.F. Jones** and G.E. Peterson, *Tetrahedron Lett.*, 1983, **24**, 4755-4756.
14. 'Acylation of Pyrrolidine-2,4-diones: Boron Difluoride Complexes of 3-Acyltetramic Acids', **R.C.F. Jones** and G.E. Peterson, *Tetrahedron Lett.*, 1983, **24**, 4757-4760.
15. 'Dihydroimidazoles in Synthesis: C-Acylation of Lithiodihydroimidazoles', M.W. Anderson, M.J. Begley, **R.C.F. Jones** and J. Saunders, *J. Chem. Soc., Perkin Trans. 1*, 1984, 2599-2602.
16. 'Synthesis of Mammeins and Surangin A', L. Crombie, **R.C.F. Jones** and C.J. Palmer, *Tetrahedron Lett.*, 1985, **26**, 2929-2932.
17. 'Synthesis of the Insecticidal 1'-Acetoxy-Mammeins and Surangin B', L. Crombie, **R.C.F. Jones** and C.J. Palmer, *Tetrahedron Lett.*, 1985, **26**, 2933-2936.
18. 'Nargenicin Model Studies: Dehydrative Rearrangement of a Dihydroxyoctahydro-naphthalene', **R.C.F. Jones** and J.H. Tunnicliffe, *Tetrahedron Lett.*, 1985, **26**, 5845-5848.
19. 'Dihydroimidazoles in Synthesis: C-Alkylation of 1-Benzyl-2-( $\alpha$ -lithioalkyl)-4,5-dihydroimidazoles and a Synthesis of Alkanoic Acids', M.W. Anderson, **R.C.F. Jones** and J. Saunders, *J. Chem. Soc., Perkin Trans. 1*, 1986, 205-209.
20. 'Nucleophilic Addition to 4,5-Dihydroimidazoles: A Ketone Synthesis via Tetrahydrofolate Coenzyme Models', M.W. Anderson, **R.C.F. Jones** and J. Saunders, *J. Chem. Soc., Perkin Trans. 1*, 1986, 1995-1998.
21. 'Synthesis of Unsymmetrical Spermine Alkaloids of the *Homalium* Group', L. Crombie, **R.C.F. Jones** and D. Haigh, *Tetrahedron Lett.*, 1986, **27**, 5147-5150.

22. 'Transamidation Reactions of  $\beta$ -Lactams: A Synthesis of ( $\pm$ )-Dihydroperiphylline', L. Crombie, **R.C.F. Jones**, and D. Haigh, *Tetrahedron Lett.*, 1986, **27**, 5151-5154.
23. 'Synthesis of 5-Substituted 4-O-Methyl Tetramates', **R.C.F. Jones** and A.D. Bates, *Tetrahedron Lett.*, 1986, **27**, 5285-5288.
24. 'Synthesis of the *Mammea* Coumarins. Part 1. The Coumarins of the *Mammea* A, B, and C Series', L. Crombie, **R.C.F. Jones** and C.J. Palmer, *J. Chem. Soc., Perkin Trans. 1*, 1987, 317-331.
25. 'Synthesis of the *Mammea* Coumarins. Part 2. Experiments in the *Mammea* E Series and the Synthesis of *Mammea* E/AC', L. Crombie, **R.C.F. Jones** and C.J. Palmer, *J. Chem. Soc., Perkin Trans. 1*, 1987, 333-343.
26. 'Synthesis of the *Mammea* Coumarins. Part 3. The Insecticidal Coumarins of the *Mammea* E Series, *Mammea* D/BB, and a Dihydrocoumarin of the *Mammea* C Series', L. Crombie, **R.C.F. Jones** and C.J. Palmer, *J. Chem. Soc., Perkin Trans. 1*, 1987, 345-351.
27. 'Synthesis of the *Mammea* Coumarins. Part 4. Stereochemical and Regiochemical Studies, and a Synthesis of (-)-*Mammea* B/BB', M.J. Begley, L. Crombie, **R.C.F. Jones** and C.J. Palmer, *J. Chem. Soc., Perkin Trans. 1*, 1987, 353-357.
28. 'Metallation of 3-Acetyltetramic Acids: A New Synthesis of 3-Dienoyl- and 3-Trienoyl-tetramic Acids', **R.C.F. Jones** and A.D. Bates, *Tetrahedron Lett.*, 1987, **28**, 1565-1568.
29. 'Amide Bond Isosteres: Imidazolines in Pseudopeptide Chemistry', **R.C.F. Jones** and G.J. Ward, *Tetrahedron Lett.*, 1988, **29**, 3853-3856.
30. 'Condensation Reactions of  $\alpha$ -Lithio-Imidazolines: Preparation and Conjugate Additions of 2-Alkenyl-2-Imidazolines', **R.C.F. Jones**, M.W. Anderson and M.J. Smallridge, *Tetrahedron Lett.*, 1988, **29**, 5001-5004.
31. 'Annulation of Imidazolines: Synthesis of Imidazo[1,2-*a*]pyridones', **R.C.F. Jones** and M.J. Smallridge, *Tetrahedron Lett.*, 1988, **29**, 5005-5008.
32. 'A New Pyrone Strategy for the Synthesis of 3-Acyltetramic Acids', **R.C.F. Jones** and J.M. Patience, *Tetrahedron Lett.*, 1989, **30**, 3217-3218.
33. 'Conjugate Addition of Imidazolines: A Protocol for 1,4-Addition to Enones and Other Acceptors', **R.C.F. Jones** and S.C. Hirst, *Tetrahedron Lett.*, 1989, **30**, 5361-5364.
34. 'Nucleophilic Attack on 2-(4-Oxoalkyl)-2-imidazolines: A Novel Route to Tetrahydropyridines and Piperidines', **R.C.F. Jones** and S.C. Hirst, *Tetrahedron Lett.*, 1989, **30**, 5365-5368.
35. '2-Methyl-4,5-dihydroimidazole as a Doubly Nucleophilic Unit: Preparation of Dihydroimidazole Azaprostanoids', **R.C.F. Jones** and J. Schofield, *J. Chem. Soc., Perkin Trans. 1*, 1990, 373-383.
36. 'Tetrahydrofolate Coenzyme Models: Synthesis of Tetrahydroimidazoisoquinolines and Tetrahydroimidazoquinolines', **R.C.F. Jones**, M.J. Smallridge and C.B. Chapleo, *J. Chem. Soc., Perkin Trans. 1*, 1990, 385-391.
37. 'Tetrahydrofolate Coenzyme Models: Imidazolines as Nucleophilic C<sub>1</sub>-Transfer Reagents', **R.C.F. Jones** and J.R. Nichols, *Tetrahedron Lett.*, 1990, **31**, 1767-1770.
38. 'Thiamine Coenzyme Models: Imidazolinium Ylides and Reactions of 2-(Hydroxy-alkyl)imidazolines', **R.C.F. Jones** and J.R. Nichols, *Tetrahedron Lett.*, 1990, **31**, 1771-1774.
39. 'Annulation of Imidazolines: A 1,3-Dipolar Cycloaddition Route to Pyrroloimidazoles, Pyrrolidines, and Pyrroles', **R.C.F. Jones**, J.R. Nichols and M.T. Cox, *Tetrahedron Lett.*, 1990, **31**, 2333-2336.
40. 'Enantiospecific Synthesis of the Hexahydrofurofuran Unit of Erythrokyrine, a Pentaenoyltetramic Acid Metabolite', **R.C.F. Jones** and M. Tankard, *J. Chem. Soc., Chem. Commun.*, 1990, 765-767.
41. 'Synthesis of Ikarugamycin: Studies on the Carbotricyclic Sub-unit', **R.C.F. Jones** and R.F. Jones, *Tetrahedron Lett.*, 1990, **31**, 3363-3366.
42. 'Synthesis of Ikarugamycin: Model Studies on a New Strategy for the Closure of Ring C', **R.C.F. Jones** and R.F. Jones, *Tetrahedron Lett.*, 1990, **31**, 3367-3368.
43. 'Imidazolines as Carbon-Transfer Vehicles: Models of the Tetrahydrofolate (and Other) Coenzymes', **R.C.F. Jones**, J.R. Nichols and M.J. Smallridge, *Chemistry and Biology of*

- Pteridines 1989 (Proceedings of the 9th International Symposium on Pteridines and Folic Acid Derivatives)*, Walter de Gruyter, Berlin, 1990, 98-101.
44. 'Acylation of Pyrrolidine-2,4-diones: A Synthesis of 3-Acyltetramic Acids. X-Ray Structure of 3-[(1-Difluoroboryloxy)ethylidene]-5-isopropyl-1-methyl-pyrrolidine-2,4-dione', **R.C.F. Jones**, M.J. Begley, G.E. Peterson and S. Sumaria, *J. Chem. Soc., Perkin Trans. 1*, 1990, 1959-1969.
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  48. 'Studies Towards a Hydrophobic Serine Protease Model', **R.C.F. Jones** and M. Tankard, *Bioorg. and Med. Chem. Lett.*, 1991, **1**, 353-356.
  49. 'Study of the Transamidative Ring Expansion of *N*- $\omega$ -Halogenoalkyl- $\beta$ -lactams of Alkyl Chain Lengths 2-12 in Liquid Ammonia and Other Liquid Amines: Syntheses of 7-, 8- and 9-Membered 1,5-Diaza Cyclic Ketones, Including Routes to ( $\pm$ )-Dihydro-periphylline and ( $\pm$ )-Celabenzine', **R.C.F. Jones**, M.J. Begley, L. Crombie, D. Haigh, S. Osborne and R.A.B. Webster, *J. Chem. Soc., Perkin Trans. 1*, 1993, 2027-2046.
  50. 'Synthesis of the Alkaloid Homaline in ( $\pm$ )- and Natural (*S,S*)-Forms, Using Amination & Transamidative Ring Expansion in Liquid Ammonia', **R.C.F. Jones**, M.J. Begley, L. Crombie, D. Haigh and Ab.R. Mat-Zin, *J. Chem. Soc., Perkin Trans. 1*, 1993, 2047-2054.
  51. 'Synthesis of Homalium Alkaloids: Hopromine, Hoprominol and Hopromalinol, Using Transamidation Methods', **R.C.F. Jones**, L. Crombie, D. Haigh and Ab.R. Mat-Zin, *J. Chem. Soc., Perkin Trans. 1*, 1993, 2055-2068.
  52. 'An Isoxazole Route to Unsaturated  $\alpha$ -Alkoxy carbonyl- $\beta$ -diketones', **R.C.F. Jones**, G. Bhalay and P.A. Carter, *J. Chem. Soc., Perkin Trans. 1*, 1993, 1715-1716.
  53. 'Synthesis of Unusual Tetrahydropyrimidine Amino Acids and Peptide Fragments from Bacterial Siderophores', **R.C.F. Jones**, A.K. Crockett and D.C. Rees, *Amino Acids*, 1993, **5**, 119-120.
  54. 'Amidines as Peptide Bond Isosteres: Synthesis of Dihydroimidazole Amino Acids and Pseudopeptides', **R.C.F. Jones**, A.K. Crockett and D.C. Rees, *Amino Acids*, 1993, **5**, 120-121.
  55. 'A New Route to Homochiral Piperidines', **R.C.F. Jones**, I. Turner and K.J. Howard, *Tetrahedron Lett.*, 1993, **34**, 6329-6332.
  56. '1,3-Dipolar Cycloadditions of 4,5-Dihydroimidazolium Ylides: New Protocols for the Synthesis of Pyrrolidines and Pyrrolo[1,2-*a*]pyrazines', **R.C.F. Jones** and K.J. Howard, *J. Chem. Soc., Perkin Trans. 1*, 1993, 2391-2393.
  57. 'The Synthesis of Unusual Tetrahydropyrimidine Amino Acids', **R.C.F. Jones** and A.K. Crockett, *Tetrahedron Lett.*, 1993, **34**, 7459-7462.
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  59. 'A Cycloaddition Approach to 3-Acyltetramic and 3-Acyltetronic Acids', **R.C.F. Jones**, G. Bhalay, P.A. Carter, K.A.M. Duller and S.I.E. Vulto, *J. Chem. Soc., Perkin Trans. 1*, 1994, 2513-2516.
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  61. 'A 1,3-Dipolar Cycloaddition Route to 3-Acyl-4-hydroxy-pyridin-2-ones and -pyran-2-ones', **R.C.F. Jones**, G. Bhalay, P.A. Carter, K.A.M. Duller and S.I.E. Vulto, *Synlett*, 1995, 149-150.
  62. 'Imidazolines as Amide Bond Replacements', **R.C.F. Jones**, I.H. Gilbert, D.C. Rees and A.K. Crockett, *Tetrahedron*, 1995, **51**, 6315-6336.
  63. 'Pyrroloimidazoles by 1,3-Dipolar Cycloaddition: An Unexpected Epimerisation', **R.C.F. Jones** and K.J. Howard, *Electronic Conference on Trends in Organic Chemistry (ECTOC-1)* ISBN 0 85404 899 5, Eds. H.S. Rzepa, J.M. Goodman and C. Leach (CD-ROM), Royal Society of Chemistry publions., 1995; see also <http://www.ch.ic.ac.uk/ectoc/>

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65. 'An Enantioselective Route to Pyrrolidines: Removal of the Chiral Template from Homochiral Pyrroloimidazoles', **R.C.F. Jones**, K.J. Howard and J.S. Snaith, *Tetrahedron Lett.*, 1996, **37**, 1711-1714.
66. 'An Alternative Isoxazole Route to  $\alpha$ -Alkoxy carbonyl- $\beta$ -diketones', **R.C.F. Jones**, S.H. Dunn and K.A.M. Duller, *J. Chem. Soc., Perkin Trans. 1*, 1996, 1319-1321.
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68. 'Condensation Reactions of 4,5-Dihydroimidazoles: Preparation and Conjugate Additions of 2-Alkenyl-4,5-dihydroimidazoles', **R.C.F. Jones**, J.S. Snaith, M.W. Anderson and M.J. Smallridge, *Tetrahedron*, 1997, **53**, 1111-1122.
69. 'A Rapid Assembly of Homochiral 2,3,4-Trisubstituted Pyrrolidines', **R.C.F. Jones**, K.J. Howard and J.S. Snaith, *Tetrahedron Lett.*, 1997, **38**, 1647-1650.
70. 'Alkylation of an Imidazolidine Enaminoester: A New Sequence for the C- $\alpha$ -Alkylation of 4,5-Dihydroimidazoles', **R.C.F. Jones**, P. Patel, S.C. Hirst and I. Turner, *Tetrahedron*, 1997, **53**, 11781-11790.
71. '1,3-Dipolar Cycloaddition Route to Oxygen Heterocyclic Triones', **R.C.F. Jones**, K.A.M. Duller and S.I.E. Vulto, *J. Chem. Soc., Perkin Trans. 1*, 1998, 411-416.
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73. 'Annulation of Dihydroimidazoles: a 1,3-Dipolar Cycloaddition Route to Pyrrolo[1,2-*a*]imidazoles, Pyrrolidines and Pyrroles', **R.C.F. Jones**, K.J. Howard, J.R. Nichols and J.S. Snaith, *J. Chem. Soc., Perkin Trans. 1*, 1998, 2061-2072.
74. 'Structural Elucidation Studies of Erythromycins by Electrospray Tandem Mass Spectrometry', P.J. Gates, G.C. Kearney, **R.C.F. Jones**, P.F. Leadlay and J. Staunton, *Rapid Commun. Mass Spectrom.*, 1999, **13**, 242-246.
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83. 'Synthesis of Imidazo[1,2-*a*]pyridines from Unactivated 2-Alkyl-4,5-dihydroimidazoles through Conjugate N-Addition', **R.C.F. Jones**, P. Dimopoulos, S.C. Coles, M.E. Light and M.B. Hursthouse, *J. Chem. Soc., Perkin Transactions 1*, 2000, 2331-2342.
84. 'Chiral Nitrone Reagents for Cycloaddition Reactions', **R.C.F. Jones**, J.N. Martin and P. Smith, *J. Heterocycl. Chem.*, 2000, **37**, 481-486.
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