

## Publication list for AJS Hawkins

Please note:

- If co-authorship is involved, the main author is underlined
- Citation numbers are provided by the Institute for Scientific Information (ISI), from a Web of Science "Cited Reference Search" of the Science Citation Index (SCI) on 19 June 2002, which restricts citations to those of SCI-listed papers by other SCI-listed papers (i.e. of refereed papers by refereed papers alone)

### A. EXTERNAL PUBLICATIONS

| Reference  | Page number | Percent contribution | Citation number |
|--|-------------|----------------------|-----------------|
| <i>(i) Papers in refereed journals</i>   |             |                      |                 |
| 1. <u>Hawkins, A. J. S.</u> & Jones, M. B. (1982) Gill area and ventilation in two mud crabs, <i>Helice crassa</i> Dana (Grapsidae) and <i>Macrophthalmus hirtipes</i> (Jacquinot) (Ocypodidae), in relation to habitat. <i>Journal of Experimental Marine Biology and Ecology</i> , 60: 103-118.            | 15 pp.      | 80%                  | 36              |
| 2. <u>Hawkins, A. J. S.</u> , Jones, M. B. & Marsden, I. D. (1982) Aerial and aquatic respiration in two mud crabs, <i>Helice crassa</i> Dana (Grapsidae) and <i>Macrophthalmus hirtipes</i> (Jacquinot) (Ocypodidae), in relation to habitat. <i>Comparative Biochemistry and Physiology</i> , 73: 341-347. | 6 pp.       | 80%                  | 24              |
| 3. <u>Hawkins, A. J. S.</u> , Bayne, B. L. & Clarke, K. R. (1983) Co-ordinated rhythms of digestion, absorption and excretion in <i>Mytilus edulis</i> (Bivalvia: Mollusca). <i>Marine Biology</i> , 74: 41-48.  | 7 pp.       | 85%                  | 38              |
| 4. <u>Hawkins, A. J. S.</u> & Bayne, B. L. (1984) Seasonal variation in the balance between physiological mechanisms of feeding and digestion in <i>Mytilus edulis</i> (Bivalvia: Mollusca). <i>Marine Biology</i> , 82: 233-240.  | 7 pp.       | 90%                  | 49              |
| 5. <u>Hawkins, A. J. S.</u> (1985) Relationships between the synthesis and breakdown of protein, dietary absorption and turnovers of nitrogen and carbon in the blue mussel, <i>Mytilus edulis</i> L. <i>Oecologia</i> , 66: 42-49.  | 7 pp.       | 100%                 | 46              |
| 6. <u>Hawkins, A. J. S.</u> & Bayne, B. L. (1985) Seasonal variation in the relative utilization of carbon and nitrogen by the mussel <i>Mytilus edulis</i> : budgets, conversion efficiencies and maintenance requirements. <i>Marine Ecology Progress Series</i> , 25: 181-188.                            | 7 pp.       | 85%                  | 74              |
| 7. <u>Hawkins, A. J. S.</u> , Salkeld, P. N., Bayne, B. L., Gnaiger, E. & Lowe, D. M. (1985) Feeding and resource allocation in the mussel <i>Mytilus edulis</i> : evidence for time-averaged optimization. <i>Marine Ecology Progress Series</i> , 20: 273-287.   | 14 pp.      | 70%                  | 60              |
| 8. <u>Hawkins, A. J. S.</u> , Bayne, B. L. & Day, A. J. (1986) Protein turnover, physiological energetics and heterozygosity in the blue mussel, <i>Mytilus edulis</i> : the basis of variable age-specific growth. <i>Proceedings of the Royal Society, London</i> , 229: 161-176.                          | 15 pp.      | 70%                  | 95              |
| 9. <u>Hawkins, A. J. S.</u> , Bayne, B. L., Mantoura, R. F. C., Llewellyn, C. A. & Navarro, E. (1986) Chlorophyll degradation and absorption throughout the digestive system of the blue mussel <i>Mytilus edulis</i> L. <i>Journal of Experimental Marine Biology and Ecology</i> , 96: 213-223.            | 10 pp.      | 60%                  | 53              |
| 10. <u>Bayne, B. L.</u> , Hawkins, A. J. S. & Navarro, E. (1987) Feeding and digestion by the mussel <i>Mytilus edulis</i> L. (Bivalvia, Mollusca) in mixtures of silt and algal cells at low concentrations. <i>Journal of Experimental Marine Biology and Ecology</i> , 111: 1-22.                         | 21 pp.      | 40%                  | 128             |

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| 11. | <u>Hawkins, A. J. S.</u> , Menon, N. R., Damodaran, R. & Bayne, B. L. (1987) Metabolic responses of the mussels <i>Perna viridis</i> and <i>Perna perna</i> to declining oxygen tension at different salinities. <i>Comparative Biochemistry and Physiology</i> , 88: 691-694.  | 3 pp.  | 80%  | 4  |
| 12. | <u>Hawkins, A. J. S.</u> , Wilson, I. A. & Bayne, B. L. (1987) Thermal responses reflect protein turnover in <i>Mytilus edulis</i> . <i>Functional Ecology</i> , 1: 339-351.  | 12 pp. | 75%  | 22 |
| 13. | <u>Bayne, B. L.</u> , Hawkins, A. J. S. & Navarro, E. (1988) Feeding and digestion in suspension-feeding bivalve molluscs: the relevance of physiological compensations. <i>American Zoologist</i> , 28: 147-159.   | 12 pp. | 20%  | 35 |
| 14. | <u>Bayne, B. L.</u> , Hawkins, A. J. S., Navarro, E. & Iglesias, J. I. P. (1989) The effects of seston concentration on feeding, digestion and growth in the mussel <i>Mytilus edulis</i> . <i>Marine Ecology Progress Series</i> , 55: 47-54.  | 7 pp.  | 20%  | 99 |
| 15. | <u>Hawkins, A. J. S.</u> , Rusin, J., Bayne, B. L. & Day, A. J. (1989) The metabolic/physiological basis of genotype-dependent mortality during copper exposure in <i>Mytilus edulis</i> . <i>Marine Environmental Research</i> , 28: 253-257.  | 4 pp.  | 60%  | 12 |
| 16. | <u>Hawkins, A. J. S.</u> , Widdows, J. & Bayne, B. L. (1989) The relevance of whole-body protein metabolism to measured costs of maintenance and growth in <i>Mytilus edulis</i> . <i>Physiological Zoology</i> , 62: 745-763.  | 18 pp. | 85%  | 27 |
| 17. | <u>Widdows, J.</u> & Hawkins, A. J. S. (1989) Partitioning of rate of heat dissipation by <i>Mytilus edulis</i> into maintenance, feeding and growth components. <i>Physiological Zoology</i> , 62: 764-784.  | 20 pp. | 45%  | 43 |
| 18. | <u>Hawkins, A. J. S.</u> , Navarro, E. & Iglesias, J. I. P. (1990) Comparative allometries of gut content, gut passage time and metabolic faecal loss in <i>Mytilus edulis</i> and <i>Cerastoderma edule</i> . <i>Marine Biology</i> , 105: 197-204.  | 7 pp.  | 75%  | 54 |
| 19. | Hawkins, A. J. S. (1991) Protein turnover: a functional appraisal. <i>Functional Ecology</i> , 5: 222-233.  | 11 pp. | 100% | 72 |
| 20. | <u>Hawkins, A. J. S.</u> & Bayne, B. L. (1991) Nutrition of marine mussels: factors influencing the relative utilizations of protein and energy. <i>Aquaculture</i> , 94: 177-196.  | 19 pp. | 90%  | 25 |
| 21. | <u>Hawkins, A. J. S.</u> & Hilbish, T. J. (1992) The costs of cell volume regulation: protein metabolism during hyperosmotic adjustment. <i>Journal of the Marine Biological Association of the U.K.</i> , 72: 569-578.   | 9 pp.  | 75%  | 21 |
| 22. | <u>Klumpp, D. W.</u> , Bayne, B. L. & Hawkins, A. J. S. (1992) Nutrition of the giant clam <i>Tridacna gigas</i> . I. Filter-feeding and photosynthesis. <i>Journal of Experimental Marine Biology and Ecology</i> , 155: 105-122.  | 17 pp. | 30%  | 30 |
| 23. | <u>Bayne, B. L.</u> , Iglesias, J. I. P., Hawkins, A. J. S., Navarro, E., Héral, M. & Deslous-Paoli, J. M. (1993) Feeding behaviour of the mussel, <i>Mytilus edulis</i> L.; responses to variations in both quantity and organic content of seston. <i>Journal of the Marine Biological Association of the U.K.</i> , 73: 813-829. | 16 pp. | 20%  | 96 |
| 24. | <u>Uriarte, I.</u> , Farias, A., Hawkins, A.J.S. & Bayne, B.L. (1993) Cell characteristics and biochemical composition of <i>Dunaliella primolecta</i> Butcher conditioned at different concentrations of dissolved nitrogen. <i>Journal of Applied Phycology</i> , 5: 447-453.   | 6 pp.  | 20%  | 12 |
| 25. | <u>Hawkins, A. J. S.</u> , Day, A. J., Gerard, A., Naciri, Y., Ledu, C., Bayne, B. L. & Héral, M. (1994) A genetic and metabolic basis for faster growth among triploids induced by blocking meiosis I but not meiosis II in the larviparous  | 19 pp. | 70%  | 17 |

- European flat oyster, *Ostrea edulis* L. *Journal of Experimental Marine Biology and Ecology*, 184: 21-40.
26. Hawkins, A. J. S. (1995) Effects of temperature change on ectotherm metabolism and evolution: metabolic and physiological interrelations underlying the superiority of multi-locus heterozygotes in heterogeneous environments. *Journal of Thermal Biology*, 20: 23-33. 10 pp. 100% 7
  27. Hawkins, A. J. S. & Klumpp, D. W. (1995) Nutrition of the giant clam *Tridacna gigas* (L.). II. Relative contributions of filter-feeding and ammonium-nitrogen acquired and recycled by symbiotic alga towards total nitrogen requirements for tissue growth and metabolism. *Journal of Experimental Marine Biology and Ecology*, 190: 263-290. 27 pp. 85% 13
  28. Kreeger, D. A., Hawkins, A. J. S., Bayne, B. L. & Lowe, D. (1995) Seasonal variation in the relative utilization of dietary protein for energy and biosynthesis by the mussel, *Mytilus edulis* (L.). *Marine Ecology Progress Series*, 126: 177-184. 7 pp. 30% 17
  29. Smerdon, G. R., Chapple, J. P. & Hawkins, A. J. S. (1995) The simultaneous immunological detection of four stress-70 protein isoforms in *Mytilus edulis*. *Marine Environmental Research*, 40: 399-407. 8 pp. 20% 10
  30. Hawkins, A. J. S. & Day, A. J. (1996) The metabolic basis of genetic differences in growth efficiency among marine animals. *Journal of Experimental Marine Biology and Ecology*, 203: 93-115. 22 pp. 90% 12
  31. Hawkins, A. J. S., Smith, R. F. M., Bayne, B. L. & Héral, M. (1996) Novel observations underlying fast growth of suspension-feeding shellfish in turbid environments: *Mytilus edulis*. *Marine Ecology Progress Series*, 131: 179-190. 11 pp. 75% 52
  32. Iglesias, J. I. P., Pérez Camacho, A., Navarro, E., Labarta, U., Beiras, R., Hawkins, A. J. S. & Widdows, J. (1996) Microgeographic variability in feeding, absorption and condition of mussels (*Mytilus galloprovincialis* Lmk.): a transplant experiment. *Journal of Shellfish Research*, 15: 673-680. 7 pp. 20% 11
  33. Kreeger, D. A., Hawkins, A. J. S. & Bayne, B. L. (1996) Use of dual-labelled microcapsules to discern the physiological fates of assimilated carbohydrate, protein-carbon and protein-nitrogen in suspension-feeding organisms. *Limnology and Oceanography*, 41: 208-215. 7 pp. 30% 6
  34. Bayne, B. L. & Hawkins, A. J. S. (1997) Protein metabolism, the costs of growth and genomic heterozygosity: experiments with the mussel *Mytilus galloprovincialis* Lmk. *Physiological Zoology*, 70: 391-402. 11 pp. 25% 8
  35. Bougrier, S., Hawkins, A. J. S. & Héral, M. (1997) Preingestive selection of different microalgal mixtures in *Crassostrea gigas* and *Mytilus edulis*, analysed by flow cytometry. *Aquaculture*, 150: 123-134. 11 pp. 25% 16
  36. Chapple, J. P., Smerdon, G. R. & Hawkins, A. J. S. (1997) Stress-70 protein induction in *Mytilus edulis*: tissue-specific responses to elevated temperature reflect relative vulnerability and physiological function. *Journal of Experimental Marine Biology and Ecology*, 217: 225-235. 10 pp. 25% 5
  37. Defossey, J. -M. & Hawkins, A. J. S. (1997) Selective feeding in shellfish: size-dependent rejection of large particles within pseudofaeces from *Mytilus edulis*, *Ruditapes philippinarum* and *Tapes decussatus*. *Marine Biology*, 129: 139-148. 9 pp. 50% 13
  38. Hawkins, A. J. S., Smith, R. F. M., Bougrier, S., Bayne B. L. & Héral, M. 9 pp. 75% 12

- (1997) Manipulation of dietary conditions for maximal growth in mussels, *Mytilus edulis* L., from the Marennes-Oléron, France. *Aquatic Living Resources*, 10: 13-22.
39. Chapple, J. P., Smerdon, G. R., Berry, R. J. & Hawkins, A. J. S. (1998) Seasonal changes in stress-70 protein levels reflect thermotolerance in the marine bivalve *Mytilus edulis*. *Journal of Experimental Marine Biology and Ecology*, 229: 53-68. 15 pp. 20% 5
  40. Hawkins, A. J. S., Bayne, B. L., Bougrier, S., Héral, M., Iglesias, J. I. P., Navarro, E., Smith, R. F. M. & Urrutia, M. B. (1998) Some general relationships in comparing the feeding physiology of suspension-feeding bivalve molluscs. *Journal of Experimental Marine Biology and Ecology*, 219: 87-103. 16 pp. 80% 21
  41. Hawkins, A. J. S., Smith, R. F. M., Tan, S. H. & Yasin, Z. B. (1998) Suspension-feeding behaviour in tropical bivalve molluscs: *Perna viridis*, *Crassostrea belcheri*, *Crassostrea iradelei*, *Saccostrea cucullata* and *Pinctada margarifera*. *Marine Ecology Progress Series*, 166: 173-185. 12 pp. 80% 17
  42. Hawkins, A. J. S. & Day, A. J. (1999) Metabolic interrelations underlying the physiological and evolutionary advantages of genetic diversity. *American Zoologist*, 39(2), 401-411. 10 pp. 95% 7
  43. Hawkins, A. J. S., James, M. R., Hickman, R. W., Hatton, S. & Weatherhead, M. (1999) Modelling of suspension-feeding and growth in the green-lipped mussel *Perna canaliculus* exposed to natural and experimental variations of seston availability in the Marlborough Sounds, New Zealand. *Marine Ecology Progress Series*, 191, 217-232. 15 pp. 70% 9
  44. Day, A. J., Hawkins, A. J. S. & Visootiviset, P. (2000) The use of allozymes and shell morphology to distinguish among sympatric species of the rock oyster *Saccostrea* in Thailand. *Aquaculture*, 187, 51-72. 19 pp. 25% -
  45. Day, A. J., Visootiviset, P. & Hawkins, A. J. S. (2000) Genetic diversity among cultured oysters (*Crassostrea* spp.) throughout Thailand. *ScienceAsia*, 26, 115-122. 7 pp. 25% -
  46. Hawkins, A. J. S., Magoulas, A., Héral, M., Bougrier, S., Naciri-Graven, Y., Day, A. J. & Kotoulas, G. (2000) Separate effects of triploidy, parentage and genomic diversity upon feeding behaviour, metabolic efficiency and net energy balance in the Pacific oyster *Crassostrea gigas*. *Genetical Research*, 76, 273-284. 11 pp. 75% 1
  47. Magoulas, A., Kotoulas, G., Gérard, A., Naciri-Graven, Y., Dermitzakis, E. & Hawkins, A. J. S. (2000) Comparison of genetic variability and parentage in different ploidy classes of the Japanese oyster *Crassostrea gigas*. *Genetical Research*, 76, 261-272. 11 pp. 10% 1
  48. Donald, K. M., Hawkins, A. J. S., Smerdon, G. R. (2001) Transcript analysis of the genes encoding aminopeptidase N and alanine aminotransferase, two enzymes involved in protein turnover in the Pacific oyster, *Crassostrea gigas*. *Comparative Biochemistry and Physiology*, 128B(3), 459-467. 8 pp. 25% -
  49. Hawkins, A. J. S., Fang, J. G., Pascoe, P. L., Zhang, J. H. Zhang, X. L., Zhu, M. Y. (2001) Modelling short-term responsive adjustments in particle clearance rate among bivalve suspension-feeders: separate unimodal effects of seston volume and composition in the scallop *Chlamys farreri*. *Journal of*

50. Donald, K. M., Hawkins, A. J. S. & Smerdon, G. R. (2001) A DNA probe for transcription analysis of the proteolytic enzyme cathepsin B in the Pacific oyster, *Crassostrea gigas* (Thunberg, 1793). *Journal of Shellfish Research*, 20(3): 991-995. 4 pp. 15% -
51. Garnier-Géré, P., Naciri-Graven, Y., Bougrier, S., Magoulas, A., Héral, M., Kotoulas, G., Hawkins, A.J.S., Gérard, A. (2002) Influences of triploidy, parentage and genetic diversity on growth of the Pacific oyster *Crassostrea gigas* reared in contrasting natural environments. *Molecular Ecology*, 11, 1499-1514. 15 pp. 20% -
52. Hawkins, A. J. S., Duarte, P., Fang, J. G., Pascoe, P. L., Zhang, J. H., Zhang, X. L., Zhu, M. (2002) A functional simulation of responsive filter-feeding and growth in bivalve shellfish, configured and validated for the scallop *Chlamys farreri* during culture in China. *Journal of Experimental Marine Biology and Ecology*, 281, 13-40. 27 pp. 60% -
53. Bacher, C., Grant, J., Hawkins, A.J.S., Fang, J., Zhu, M., Besnard, M. (2003) Modelling the effect of food depletion on scallop growth in Sungo Bay (China). *Aquatic Living Resources*, 16: 10-24. 25% -
54. Duarte, P., Meneses, R., Hawkins, A.J.S., Zhu, M., Fang, J., Grant, J. (2003) Mathematical modelling to assess the carrying capacity for multi-species culture within coastal waters. *Ecological Modelling*, 168: 109-143. 25% -
55. Donald, K. M., Day, A. J., Smerdon, G. R., Cross, L.J. & Hawkins, A. J. S. (2003) Quantification of gene transcription and enzyme activity for functionally important proteolytic enzymes during early development in the oyster *Crassostrea gigas*. *Comparative Biochemistry and Physiology*, 136B: 383-392. 25% -
56. Zhang, J., Fang, J. G., Hawkins, A. J. S., Pascoe, P. L. (2004) The effect of temperature on clearance rate and oxygen consumption of scallops, *Chlamys farreri*. *Journal of Shellfish Research*, 23: 715-721. 25% -
57. Sanders, J. L., Kendall, M., Hawkins, A. J. S., Spicer, J. I. (2007) Can functional groups be used to indicate estuarine ecological status? *Hydrobiologia*, 588: 45-58. 25% -
58. Ferreira, J. G., Hawkins, A. J. S., Bricker, S. B. (2007) Management of productivity, environmental effects and profitability of shellfish aquaculture - the Farm Aquaculture Resource Management (FARM) model. *Aquaculture*, 264: 160-174. 25% -
59. Moore, M. N., Viarengo, A., Donkin, P., Hawkins, A. J. S. (2007) Autophagic and lysosomal reactions to stress in the hepatopancreas of blue mussels. *Aquatic Toxicology*, 84: 80-91. 25% -
60. Pascoe, P. L., Parry, H. E., Hawkins, A. J. S. (2007) Further insights into the dynamic filter-feeding of fouling organisms. *Aquatic Biology*, 1:177-185. 25% -
61. Sequeira, A., Ferreira, J. G., Hawkins, A. J. S., Nobre, A., Lourenco, P., Zhang, X. L., Yan, X., Nickell, T. (2008) Trade-offs between shellfish aquaculture and benthic biodiversity: a modelling approach for sustainable management. *Aquaculture*, 274:313-328. 25% -
62. Ferreira, J. G., Hawkins, A. J. S., Monteiro, P., Moore, H., Service, M., 25% -

- Pascoe, P. L., Ramos, L., Sequeira, A., (2008) Integrated assessment of ecosystem-scale carrying capacity in shellfish growing areas. *Aquaculture*, 275: 138-151.
63. Wharam, S. D., Wardill, T., Goddard, V., Donald, K. M., Parry, H., Pascoe P., Pickerill, P., Smerdon, G., Hawkins, A. J. S. (2008) A leucine aminopeptidase gene of the Pacific oyster *Crassostrea gigas* exhibits an unusually high level of sequence variation, predicted to affect structure, and hence activity, of the enzyme. *Journal of Shellfish Research*, 27(5): 1143-1164.
  64. Pascoe, P. L., Parry, H. E., Hawkins, A. J. S. (2009) Observations on the measurement and interpretation of clearance rate variations in suspension-feeding bivalve shellfish. *Aquatic Biology*, 6: 181-190.
  65. Ferreira, J. G., Sequeira, A., Hawkins, A. J. S., Newton, A., Nickell, T., Pastres, R., Forte, J., Bodoy, A., Bricker, S. B. (2009) Analyses of coastal and offshore aquaculture: application of the FARM™ model to multiple systems and shellfish species. *Aquaculture*, 289: 32-41.
  66. Nobre, A. M., Ferreira, J. G., Nunes, J. P., Yan, X., Bricker, S., Corner, R., Groom, S., Gu, H., Hawkins, A. J. S., Hutson, R., Lan, D., Lencart, S., João, D., Pascoe, P., Telfer, T., Zhang, X., Zhu, M. (2010) Assessment of coastal management options by means of multilayered ecosystem models. *Estuarine, Coastal and Shelf Science*, 87(1): 43-62.
  67. Nunes, J. P., Ferreira, J. G., Bricker, S. B., O’Loan, B., Dabrowski, T., Dallaghan, B., Hawkins, A. J. S., O’Connor, B., O’Carroll, T. (2011) Towards an ecosystem approach to aquaculture: assessment of sustainable shellfish cultivation at different scales of space, time and complexity. *Aquaculture*, 315 (3-4): 369-383.
  58. Hawkins, A. J. S., Pascoe, P. L., Parry, H., Brinsley, M., Black, K. D., McGonigle, C., Moore, H., Newell, C. R., O’Boyle, N. T., O’Carroll, T., O’Loan, B. Service, M., Smaal, A. C., Zhang, X. L., Zhu, M. Y. (2013). ShellSIM: a generic model of growth and environmental effects validated across contrasting habitats in bivalve shellfish. *Journal of Shellfish Research*, 32 (2): 237-253.
  59. Hawkins, A. J. S., Pascoe, P. L., Parry, H., Brinsley, M., Cacciatore, F., Black, K. D., Fang, J. G, Jiao, H., McGonigle, C., Moore, H., O’Boyle, N. T., O’Carroll, T., O’Loan, B. Service, M., Smaal, A. C., Yan, X., Zhang, J. H., Zhang, X. L., Zhu, M. Y. (2013). Comparative feeding upon chlorophyll-rich versus remaining organic matter in bivalve shellfish. *Journal of Shellfish Research*, 32 (3): 883-898.
  70. Newell, C. R., Hawkins, A. J. S., Morris, K., Richardson, J., Davis, C., Getchis, T. (2013). ShellGIS: a dynamic tool for shellfish farm site selection. *World Aquaculture*, 44 (3): 52-55.

**(ii) Chapters in books and conference proceedings**

1. Hawkins, A. J. S., Menon, N. R., Damodaran, R. & Bayne, B. L. (1986) The mussels *Perna viridis* and *P. indica* as transplantable indicators of pollution: comparison of their metabolic responses to reductions of both oxygen tension and salinity. In: *Proceedings of the National Mussel Watch*. Cochin University Press, Cochin, pp. 51-64. 13 pp. 80% -

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|-----|--|--------|------|----|
| 2.  | Hawkins, A. J. S. (1988) Genetic variations in the physiology of marine shellfish. In: J.C. Iturrondobeitia (Editor), <i>Actas del Congreso de Biología Ambiental; II Congreso Mundial Vasco</i> , Vol. 1. Servicio Editorial de la Universidad del País Vasco, Bilbao, pp. 121-131.   | 10 pp. | 100% | 3  |
| 3.  | <u>Hawkins, A. J. S.</u> , Bayne, B. L., Day, A. J., Rusin, J. & Worrall, C. M. (1989) Genotype-dependent interrelations between energy metabolism, protein metabolism and fitness. In: J.S. Ryland and P.A. Tyler (Editors), <i>Reproduction, genetics and distributions of marine organisms</i> ; 23rd European Marine Biology Symposium. Olson & Olson, Fredensborg, pp. 283-292. | 9 pp.  | 80%  | 53 |
| 4.  | <u>Bayne, B. L.</u> & Hawkins, A. J. S. (1990) Filter-feeding in bivalve molluscs: controls on energy balance. In: J. Mellinger (Editor) <i>Animal nutrition and transport processes; Vol. 1. Nutrition in wild and domestic animals</i> . Karger, Basel, pp. 70-83. (Comparative Physiology, Vol. 5).   | 13 pp. | 25%  | -  |
| 5.  | <u>Bayne, B. L.</u> & Hawkins, A. J. S. (1992) Ecological and physiological aspects of herbivory in benthic suspension-feeding molluscs. In: D. M. John, S. J. Hawkins and J. H. Price (Editors), <i>Plant-animal interactions in the marine benthos</i> . Systematics Association Special Volume, No. 46. Clarendon Press, Oxford, pp. 265-288.                                     | 13 pp. | 25%  | -  |
| 6.  | <u>Hawkins, A. J. S.</u> & Bayne, B. L. (1992) Physiological processes, and the regulation of production. In: E. Gosling (Editor), <i>The mussel Mytilus: ecology, physiology, genetics and culture</i> . Elsevier Science Publishers B.V., Amsterdam, pp. 171-222.  | 51 pp. | 95%  | 96 |
| 7.  | Hawkins, A. J. S. (1996) Temperature adaptation and genetic polymorphism in aquatic animals. In: I. A. Johnston and A. F. Bennett (Editors), <i>Animals and Temperature: Phenotypic and Evolutionary Adaptation</i> . Society for Experimental Biology Seminar Series Vol. 59, Cambridge University Press, Cambridge, pp. 103-126.   | 23 pp. | 100% | 6  |
| 8.  | Hawkins, A. J. S. (1997) Population responses to contaminant exposure in marine animals: influences of genetic diversity measured as allozyme polymorphism. In: J. P. Seiler, J. L. Autrup and H. Autrup (Editors) <i>Diversification in toxicology - man and environment</i> . Archives of Toxicology, Supplement 20, 429-442.  | 13 pp. | 100% | 1  |
| 9.  | <u>Day, A. J.</u> , Visootiviset, P. & Hawkins, A. J. S. (2000) Shellfish population genetics II: Genetic diversity within oysters throughout Thailand. In: B. Tiensongrasmee, M. Tedengren, P. Jarayabhand, N. Tandavanitj, A. Popongviwat, A. Nujawat and S. Soisodsri (Editors), <i>Mollusk Research in Asia</i> . Thailand Research Fund, Bangkok, pp. 91-96.                    | 5 pp.  | 25%  | -  |
| 10. | <u>Hawkins, A. J. S.</u> & Day, A. J. (2000) Shellfish population genetics I: The value of genetic polymorphism. In: B. Tiensongrasmee, M. Tedengren, P. Jarayabhand, N. Tandavanitj, A. Popongviwat, A. Nujawat and S. Soisodsri (Editors), <i>Mollusk Research in Asia</i> . Thailand Research Fund, Bangkok, pp. 87-90.   | 3 pp.  | 95%  | -  |
| 11. | Duarte, P., <u>Hawkins, A. J. S.</u> & Pereira, A. (2005) How does estimation of environmental carrying capacity for bivalve culture depend upon spatial and temporal scales? In: Dame, R. F. and Olenin, S. (Editors), <i>The comparative roles of suspension-feeders in aquatic systems</i> . Springer, The Netherlands. pp. 121-135.  |        |      |    |
| 12. | Ferreira, J. G., <u>Hawkins, A. J. S.</u> , Bricker, S. B. (2011). The role of shellfish farms in provision of ecosystem goods and services. In: Shumway, S.   |        |      |    |

(Editor), *Shellfish aquaculture and the environment*. Wiley-Blackwell, New York. 424 pp.

**(iii) Other publications**

- |   |       |      |   |
|---|-------|------|---|
| 13. <u>Hawkins, A. J. S.</u> & Hilbish, T. J. (1990) Whole-body protein metabolism during hyperosmotic adaptation in <i>Mytilus edulis</i> L. <i>Journal of the Marine Biological Association of the U.K.</i> , 70: 672-673 (Abstract).   | 1 pp. | 80%  | - |
| 14. <u>Kreeger, D. A.</u> , Hawkins, A. J. S., Bayne, B. L. & Lowe, D. L. (1994) Seasonal variation in the relative utilization of dietary protein and carbohydrate by the mussel, <i>Mytilus edulis</i> L. <i>Journal of Shellfish Research</i> , 13: 289 (Abstract).  | 1 p.  | 25%  | - |
| 15. <u>Hawkins, A. J. S.</u> , Smith, R. F. M., Bayne, B. L. & Héral, M. (1995) Novel observations on filter-feeding behaviour that underlie fast growth of <i>Mytilus edulis</i> within turbid nearshore waters. <i>Bulletin of the Malacological Society of London</i> , 25: 6 (Abstract).  | 1 pp. | 70%  | - |
| 16. <u>Bayne, B. L.</u> & Hawkins, A. J. S. (1996) Feeding behaviour at high and variable seston loads. <i>Journal of Shellfish Research</i> , 15: 505 (Abstract).  | 1 pp. | 20%  | - |
| 17. Hawkins, A. J. S. (1997) How understanding of relations between heterozygosity, growth rate and natural longevity is relevant to predicting genetic consequences of contaminant exposure. <i>Pharmacology and Toxicology</i> , 80: 56-57 (Abstract).  | 1 pp. | 100% | - |
| 18. <u>Hawkins, A. J. S.</u> & Day, A. J. (1997) How protein metabolism can help explain the physiological and evolutionary consequences of genetic variation. <i>American Zoologist</i> , 37A: 9A (Abstract).  | 1 pp. | 90%  | - |
| 19. <u>Gérard, A.</u> , Bonhomme, F., Hawkins, A. J. S., Thiriou, C., Wilkins, N. P. & Zouros, E. (1998) Genetical bases and variability of physiological traits involved in growth in <i>Crassostrea gigas</i> . In: <i>Project Synopses Volume VI: Fisheries and Aquaculture (FAIR: 1994-98)</i> . European Commission, Luxembourg, pp. 52-53.            | 1 pp. | 15%  | - |
| 20. Hawkins, A. J. S. (1998) Genetische manipulationen können das wachstum von austern fördern. <i>Österreichs Fisherei</i> , 10: 244 (Abstract).   | 1 pp. | 100% | - |
| 21. <u>Hawkins, A. J. S.</u> , Gérard, A., Héral, A. & Zouros, E. (1998) Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish. In: <i>Project Synopses Volume V: Fisheries and Aquaculture (AIR: 1990-94)</i> . European Commission, Luxembourg, pp. 22-27.                   | 5 pp. | 50%  | - |
| 22. <u>Héral, M.</u> , Hawkins, A. J. S., Smaal, A., Navarro, E., Ayphassorho, H., Keegan, B. F., Nicolaidou, A. & Ferreira, J. G. (1998) Trophic capacity of coastal areas for the culture of oysters, mussels and cockles. In: <i>Project Synopses Volume V: Fisheries and Aquaculture (AIR: 1990-94)</i> . European Commission, Luxembourg, pp. 125-128. | 3 pp. | 15%  | - |
| 23. <u>Gérard, A.</u> , Bonhomme, F., Hawkins, A. J. S., Thiriou, C., Wilkins, N. P. & Zouros, E. (1998) Genetical bases and variability of physiological traits involved in growth in <i>Crassostrea gigas</i> . In: <i>Project Synopses Volume VI: Fisheries and Aquaculture (FAIR: 1994-98)</i> . European Commission, Luxembourg, pp. 52-53.            | 1 pp. | 20%  | - |
| 24. <u>Hawkins, A. J. S.</u> , Gérard, A., Héral, A. & Zouros, E. (1998) Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in   | 5 pp. | 50%  | - |



- commercially important marine shellfish. In: *Project Synopses Volume V: Fisheries and Aquaculture (AIR: 1990-94)*. European Commission, Luxembourg, pp. 22-27.
25. Hawkins, A. J. S. (1998) Genetische manipulationen können das wachstum von austern fördern. *Österreichs Fisherei*, 10: 244 (Abstract). 1 pp. 100% -
26. Héral, M., Hawkins, A. J. S., Smaal, A., Navarro, E., Ayphassorho, H., Keegan, B. F., Nicolaidou, A. & Ferreira, J. G. (1998) Trophic capacity of coastal areas for the culture of oysters, mussels and cockles. In: *Project Synopses Volume V: Fisheries and Aquaculture (AIR: 1990-94)*. European Commission, Luxembourg, pp. 125-128. 3 pp. 20% -
27. Hawkins, A. J. S., Duarte, P. (2003) Modeling ecosystem consequences of species diversity and distribution: a case study addressing multi-species aquaculture in China. In: Heip, C.H.R.; Hummel, H.; Van Avesaath, P.H.; Warwick, R.M. eds. High level scientific conference activity “*Biodiversity of coastal marine ecosystems. A functional approach to Coastal Marine Biodiversity*”, pp. 42-43, Book of abstracts, Renesse, The Netherlands 11-15 May 2002. Netherlands Institute of Ecology-Centre for Estuarine and Marine Ecology: Yerseke, The Netherlands. 85 pp.
28. Ferreira, J. G., Andersson, H. C., Corner, R. A., Groom, S., Hawkins, A. J. S., Hutson, R., Lan, D., Nauen, C., Nobre, A. M., Smits, J., Stigebrandt, A., Telfer, T. C., de Wit, M., Yan, X. J., Zhang, X. L. & Zhu, M. Y. (2005) SPEAR: Sustainable options for people, catchment and aquatic resources. Edited and published by IMAR - Institute of Marine Research, Portugal. 71 pp.
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31. Ferreira, J. G., Hawkins, A. J. S., Monteiro, P., Service, M., Moore, H., Edwards, A., Gowen, R., Lourenco, P., Mellor, A., Nunes, J. P., Pascoe, P. L., Ramos, L., Sequiera, A., Simas, T. & Strong, J. (2007) SMILE - Sustainable mariculture in Northern Irish Lough Ecosystem: assessment of carrying capacities for environmentally sustainable shellfish culture in Carlingford Lough, Belfast Lough, Larne Lough and Lough Foyle. Institute of Marine Research, Portugal. 100 pp.
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33. Linley E.A.S., Wilding T.A., Black K., Hawkins A.J.S. and Mangi S. (2007). Review of the reef effects of offshore wind farm structures and their potential for enhancement and mitigation. Report from PML Applications Ltd and the Scottish Association for Marine Science to the Department for Business, Enterprise and Regulatory Reform (BERR), Contract No: RFCA/005/0029P
34. Ferreira, J. G., Andersson, H. C., Corner, R. A., Desmit, X., Fang, Q., de Goede, E. D., Groom, S. B., Gu, H., Gustafsson, B. G., Hawkins, A. J. S.,

- Hutson, R., Jiao, H., Lan, D., Lencart-Silva, J., Li, R., Liu, X., Luo, Q., Musango, J. K., Nobre, A. M., Nunes, J. P., Pascoe, P. L., Smits, J. G. C., Stigebrandt, A., Telfer, T. C., de Wit, M. P., Yan, X., Zhang, X. L., Zhang, Z., Zhu, M. Y., Zhu, C. B., Bricker, S. B., Xiao, Y., Xu, S., Nauen, C. E., Scalet M. (2008) Sustainable Options for People, Catchment and Aquatic Resources : The SPEAR Project, an International Collaboration on Integrated Coastal Zone Management. Institute of Marine Research, Portugal, 180 pp.
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  36. Newell, C. R., Davis, C., Hawkins, A. J. S., Richardson, J., Getchis, T., Morris, K., Cheney, D. (2012) ShellGIS – a new GIS tool for oyster farm site selection, oyster growth simulation and production carrying capacity. Journal of Shellfish Research, 31(1): 327-327 (Abstract).
  37. Hawkins, A. J. S. (2012) Environmental adaptations in bivalve shellfish, evidenced from standardized measures during the calibration of ShellSIM. Journal of Shellfish Research, 31(1): 295-295 (Abstract).
  38. Newell, C. R., Hawkins, A. J. S., Morris, K., Richardson, J., Davis, C., Getchis, T. (2012) ShellGIS: a GIS software tool for predicting the growth and environmental impacts of oysters as a function of site selection. p. 462, Book of Abstracts, Prague, 1-5 September 2012. World Aquaculture Society, Louisiana State University, Baton Rouge, United States of America. 1227 pp.
  39. Hawkins, A. J. S., Pascoe, P., Parry, H., Black, K., Davis, C., Lan, D., McGonigle, C., Moore, H., Newell, C., O'Boyle, N., O'Carroll, T., O'Loan, B., Pastres, R., Service, M., Smaal, A., Zhang, Z., Zhu, M. (2012) ShellSIM: a user-friendly software tool predicting growth and environmental interrelations in wide range of bivalve shellfish. p. 464, Book of Abstracts, Prague, 1-5 September 2012. World Aquaculture Society, Louisiana State University, Baton Rouge, United States of America. 1227 pp.
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  41. Newell, C. R., Hawkins, A. J. S., Morris, K. P., Richardson, J. E., Davis, C. V., Getchis, T. S. (2013) ShellGIS: a GIS software tool for predicting growth and environmental impacts of bivalve shellfish according to site selection and culture practice. Abstract, World Aquaculture Society Nashville 20-26 February 2013, <https://www.was.org/meetingabstracts/ShowAbstract.aspx?Id=29584>.
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Presentation, Aquaculture conference: To the Next 40 Years of Sustainable Global Aquaculture, 3rd -7th November 2013, Las Palmas, Gran Canaria  
[http://elsevier.conference-services.net/programme.asp?conferenceID=3329&action=prog\\_titles](http://elsevier.conference-services.net/programme.asp?conferenceID=3329&action=prog_titles).

**(iv) Theses**

- |    |   |         |     |   |
|----|---|---------|-----|---|
| 1. | Hawkins, A. J. S. (1979) A comparison of selected aspects of the respiration of two intertidal mud crabs, <i>Macrophthalmus hirtipes</i> (Jacquinot) and <i>Helice crassa</i> Dana (Brachyura), in relation to their vertical distribution. B.Sc. Hons. Thesis, University of Canterbury, New Zealand, 73 pp. | 73 pp.  | 95% | - |
| 2. | Hawkins, A. J. S. (1983) Metabolic strategy in the marine mussel <i>Mytilus edulis</i> L. Ph.D. Thesis, University of Exeter, United Kingdom, 117 pp.   | 117 pp. | 95% | - |

**B. COMMISSIONED REPORTS**

| <b>Reference</b>   | <b>Page number</b> | <b>Percent contribution</b> |
|--|--------------------|-----------------------------|
| 1. Bayne, B. L. & Hawkins, A. J. S. (1992) Individual progress report from Plymouth Marine Laboratory. In: Second report to the CEC (Community Research Programme in the Fisheries Sector "FAR") on Research Contract AQ.2.500 "Trophic capacity of an estuarine ecosystem: determination of biological criteria for the management of cultivated populations of oysters and their socio-economical consequences (TROPHEE), pp. 29-38. | 10 pp.             | 95%                         |
| 2. Bayne, B. L. & Hawkins, A. J. S. (1992) Individual progress report from Plymouth Marine Laboratory. In: Third report to the CEC (Community Research Programme in the Fisheries Sector "FAR") on Research Contract AQ.2.500 "Trophic capacity of an estuarine ecosystem: determination of biological criteria for the management of cultivated populations of oysters and their socio-economical consequences (TROPHEE), pp. 51-56.  | 6 pp.              | 95%                         |
| 3. Hawkins, A. J. S. (1993) Consolidated Report from the programme coordinator. In: First report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", pp. 1-18.  | 18 pp.             | 100%                        |
| 4. Bayne, B. L., Hawkins, A. J. S., Day, A. J. & Jones, S. (1993) Individual progress report from Plymouth Marine Laboratory. In: First report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", pp. 34-56.                   | 23 pp.             | 50%                         |
| 5. Hawkins, A. J. S. (1994) Consolidated Report from the programme coordinator. In: Second report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", pp. 1-25.   | 25 pp.             | 100%                        |
| 6. Hawkins, A. J. S., Day, A. J., Jones, S. & Bayne, B. L. (1994) Individual progress report from Plymouth Marine Laboratory. In: Second report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important   | 32 pp.             | 50%                         |

marine shellfish (TRIPOS)", pp. 42-73.

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|-----|--|---------|------|
| 7.  | Hawkins, A. J. S., Smith, R. F. M., Bayne, B. L. & Héral, M. (1994) Summary progress report entitled "Feeding and growth in the mussel <i>Mytilus edulis</i> L.: responses to both natural and experimental changes in the composition and abundance of suspended seston". In: Final report to the CEC (Community Research Programme in the Fisheries Sector "FAR") on Research Contract AQ.2.500 "Trophic capacity of an estuarine ecosystem: determination of biological criteria for the management of cultivated populations of oysters and their socio-economical consequences (TROPHEE)", pp. 49-68. | 20 pp.  | 50%  |
| 8.  | Hawkins, A. J. S. (1995) Consolidated Report from the programme coordinator. In: Third report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", pp. 1-35.   | 35 pp.  | 100% |
| 9.  | Hawkins, A. J. S., Day, A. J., Jones, S., Héral, M. & Bougrier, S. (1995) Combined individual progress reports from Plymouth Marine Laboratory and Institute Français de Recherche pour L'exploitation de la Mer. In: Third report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", pp. 50-78.   | 28 pp.  | 45%  |
| 10. | Hawkins, A. J. S., Bougrier, S., Day, A., Gérard, A., Héral, M., Heurtebise, S., Kotoulas, G., Jones, S., Ledu, C., Magoulas, A., Naçiri-Graven, Y., Peignon, M., Phelipot, P., Thiriot, C. & Zouros, E. (1996) Final combined report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", 86 pp.  | 86 pp.  | 25%  |
| 11. | Hawkins, A. J. S., Bougrier, S., Day, A., Gérard, A., Héral, M., Heurtebise, S., Kotoulas, G., Jones, S., Ledu, C., Magoulas, A., Naçiri-Graven, Y., Peignon, M., Phelipot, P., Thiriot, C. & Zouros, E. (1996) Exploitation report to the CEC (Community Research Programme in the Fisheries Sector "AIR") on Research Contract AIR1-CT92-0168 "Assessment of aquacultural advantages following the cytogenetic induction of polyploidy in commercially important marine shellfish (TRIPOS)", 11 pp.  | 11 pp.  | 15%  |
| 12. | Hawkins, A. J. S. & Day, A. J. (1996). First progress report from Plymouth Marine Laboratory to the U. K. Darwin Initiative Programme for project entitled "Study of the genetic diversity within oysters throughout Thailand: a requirement for management and conservation in a declining fishery (DIVOYS)". 17 pp.  | 17 pp.  | 75%  |
| 13. | Hawkins, A. J. S., Day, A. J. & Chapple, P. (1996) Individual progress report from Plymouth Marine Laboratory. In: First report to the CEC (Community Research Programme in the Fisheries Sector "FAIR") on Research Contract 95-421 "Genetic bases and variability of physiological traits involved in growth in <i>Crassostrea gigas</i> (GENEPHYS)", pp. 57-85.   | 29 pp.  | 50%  |
| 14. | Hawkins, A. J. S. & Jones, S. (1996). First progress report from Plymouth Marine Laboratory to MAFF for an extramural project entitled "Studies on the role and fate of micro-organisms in bivalve molluscan shellfish with particular reference to sewage-derived bacteria and shellfish (MICROBE)". 26 pp.   | 26 pp.  | 75%  |
| 15. | Hawkins, A. J. S. & Day, A. J. (1997). Final report from Plymouth Marine Laboratory to the U. K. Darwin Initiative Programme for project entitled  | 127 pp. | 50%  |

- “Study of the genetic diversity within oysters throughout Thailand: a requirement for management and conservation in a declining fishery (DIVOYS)”. 127 pp.
16. Hawkins, A. J. S., Day, A. J. & Smith, R. (1997) Individual progress report from Plymouth Marine Laboratory. In: Second report to the CEC (Community Research Programme in the Fisheries Sector "FAIR") on Research Contract 95-421 “Genetic bases and variability of physiological traits involved in growth in *Crassostrea gigas* (GENEPHYS)”, pp. 97-107. 11 pp. 50%
  17. Hawkins, A. J. S. & Jones, S. (1997). Second progress report from Plymouth Marine Laboratory to MAFF for an extramural project entitled “ Studies on the role and fate of micro-organisms in bivalve molluscan shellfish with particular reference to sewage-derived bacteria and shellfish (MICROBE)”. 5 pp. 80%
  18. Warwick, R. M., Ashton, E., Bayne, B. L., Gee, J. M., Hawkins, A. J. S., Hogarth, P., Ormond, R., Smith, R. F. M. & Somerfield, P. J. (1997) Final report from Plymouth Marine Laboratory to the U. K. Darwin Initiative Programme for project entitled “Biodiversity in a Malaysian mangrove forest”. 51 pp. 20%
  19. Hawkins, A. J. S. & Day, A. J. (1998) Individual progress report from Plymouth Marine Laboratory. In: Third report to the CEC (Community Research Programme in the Fisheries Sector "FAIR") on Research Contract 95-421 “Genetic bases and variability of physiological traits involved in growth in *Crassostrea gigas* (GENEPHYS)”, pp. 90-115. 26 pp. 50%
  20. Hawkins, A. J. S. & Pascoe, P. (1999) Individual progress report from Plymouth Marine Laboratory. In: First report to the CEC (INCO-DC: International Cooperation with developing countries) on Research Contract ERBIC18CT980291 “Carrying capacity and impact of aquaculture on the environment in Chinese bays” (CAPAQ), pp. 32-38. 6 pp. 100%
  21. Hawkins, A. J. S., Day, A. J., Smith, R. F. M. & Smerdon, G. (1999) Individual progress report from Plymouth Marine Laboratory. In: Fourth report to the CEC (Community Research Programme in the Fisheries Sector "FAIR") on Research Contract 95-421 “Genetic bases and variability of physiological traits involved in growth in *Crassostrea gigas* (GENEPHYS)”, pp. 82-105. 23 pp. 50%
  22. Hawkins, A. J. S., Day, A. J., Smith, R. F. M. & Smerdon, G. (2000) Individual progress report from Plymouth Marine Laboratory. In: Fifth report to the CEC (Community Research Programme in the Fisheries Sector "FAIR") on Research Contract 95-421 “Genetic bases and variability of physiological traits involved in growth in *Crassostrea gigas* (GENEPHYS)”, pp. 89-112. 23 pp. 75%
  23. Hawkins, A. J. S. & Pascoe, P. (2000) Individual progress report from Plymouth Marine Laboratory. In: Second report to the CEC (INCO-DC: International Cooperation with developing countries) on Research Contract ERBIC18CT980291 “Carrying capacity and impact of aquaculture on the environment in Chinese bays” (CAPAQ), pp. 28-38. 10 pp. 100%
  24. Hawkins, A. J. S., Day, A. J., Smith, R. F. M. & Smerdon, G. (2001) Individual progress report from Plymouth Marine Laboratory. In: Final report to the CEC (Community Research Programme in the Fisheries Sector "FAIR") on Research Contract 95-421 “Genetic bases and variability of physiological traits involved in growth in *Crassostrea gigas* (GENEPHYS)”, pp. 55-70. 15 pp. 75%
  25. Hawkins, A. J. S., Thorndyke, M., Donald, K. Day, A. J., Smerdon, G., Pascoe, P., Beesley, P., Crane, M., Steele, S. & Nice, H. (2001) Annual Research Grant Report to the NERC Thematic Program on Developmental Ecology of Marine

Animals (DEMA) for project entitled “Environmental effects on the molecular and cellular bases of developmental success in the oyster *Crassostrea gigas*”. 3 pp.

26. Hawkins, A. J. S. & Pascoe, P. (2001) Individual progress report from Plymouth Marine Laboratory. In: Final report to the CEC (INCO-DC: International Cooperation with developing countries) on Research Contract ERBIC18CT980291 “Carrying capacity and impact of aquaculture on the environment in Chinese bays” (CAPAQ), pp. 25-34. 23 pp. 95%
27. Hawkins, A. J. S., Thorndyke, M., Donald, K. Day, A. J., Smerdon, G., Pascoe, P., Beesley, P., Crane, M., Steele, S. & Nice, H. (2002) Final Research Grant Report to the NERC Thematic Programme on Developmental Ecology of Marine Animals (DEMA) for project entitled “Environmental effects on the molecular and cellular bases of developmental success in the oyster *Crassostrea gigas*”. 6 pp. 80%

*Many yet to be added*