

## JENNIFER A. CLACK

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## BIBLIOGRAPHY

### Scientific papers

- (1) 1983 Clack, J. A. The stapes of the Coal Measures embolomere *Pholidoperpeton scutigerum* Huxley and otic evolution in early tetrapods. *Zoological Journal of the Linnean Society* **79**, 121-48.
- (2) 1987 Clack, J. A. Two new specimens of *Anthracosaurus* (Amphibia: Anthracosauria) from the Northumberland Coal Measures. *Palaeontology* **10**, 15-26.
- (3) 1987 Clack, J. A. *Pholidoperpeton scutigerum*, an amphibian from the Yorkshire Coal Measures. *Philosophical Transaction of the Royal Society of London B* **318**, 1-107.
- (4) 1988 Clack, J. A. & Holmes R. The braincase of the anthracosaur *Archeria crassidisca* with comments on the interrelationships of primitive tetrapods. *Palaeontology* **31**, 85-107.
- (5) 1988 Clack, J. A. New material of the early tetrapod *Acanthostega* from the Upper Devonian of East Greenland. *Palaeontology* **31**, 699-724.
- (6) 1988 Clack, J. A. Pioneers of the land in East Greenland. *Geology Today* **4**, 407.
- (7) 1988 Bendix-Almgreen S. E., Clack J. A. & Olsen, H. Upper Devonian and Upper

- Permian vertebrates collected in 1987 around Kejser Frans Joseph Fjord, central East Greenland. *Rapp. Grønlands geol. Unders.* **40**, 95-102.
- (8) 1989 Clack, J. A. 1989. Discovery of the earliest-known tetrapod stapes. *Nature* **342**, 425-7.
- (9) 1990 Bendix-Almgreen S. E., Clack J. A. & Olsen, H. Upper Devonian tetrapod palaeoecology in the light of new discoveries in East Greenland. *Terra Nova* **2**, 131-137.
- (10) 1990 Clack, J.A. Nos ancêtres, respiraient-ils par les oreilles? *La Recherche* **21**, 770-771.
- (11) 1990 Clack, J. A. Early tetrapod hearing. *Nature* **344**, 823.
- (12) 1990 Coates, M. I. & Clack, J. A. Polydactyly in the earliest known tetrapod limbs. *Nature* **347**, 66-9.
- (13) 1991 Coates, M. I. & Clack, J. A. Fish-like gills and breathing in the earliest known tetrapod. *Nature* **352**, 234-6.
- (14) 1992 Clack, J. A. The stapes of *Acanthostega gunnari* and the role of the stapes in early tetrapods. In Webster, D., Fay, R. and Popper A.N. (Eds) *The Evolutionary Biology of Hearing*. Springer-Verlag, New York pp 405-420.
- (15) 1993 Clack J. A. & Coates, M. I. *Acanthostega gunnari* - our present connection. In Hoch, E and Brantsen, A. K. (Eds) *Deciphering the natural world and the role of museums and collections*. Geological Museum, Copenhagen pp 39-42.
- (16) 1993 Lebedev, O. A. & Clack, J. A. Upper Devonian tetrapods from Andreyevka, Tula Region, Russia. *Palaeontology* **36**, 721-34.
- (17) 1994 Clack, J. A. *Silvanerpeton miripedes*, a new anthracosauroid from the Viséan of East Kirkton, West Lothian, Scotland. *Transactions of the Royal Society of Earth Sciences* **84**, 369-76

- (18) 1994 Clack, J. A. Homologies in the fossil record - the middle ear as a test case. In J. Dubbeldam (ed) In Dubbeldam, J. L., Goodwin, B. C. and Kortmulder, K. (Eds) Evolution and Development - generative and stability principles of biological form. *Acta Biotheoretica* **41**, 391-409.
- (19) 1994 Clack, J. A. *Acanthostega gunnari*, a Devonian tetrapod from Greenland; the snout, palate and ventral parts of the braincase, with a discussion of their significance. *Meddelelser om Grønland. Geoscience* **31**, 1-24.
- (20) 1994 Clack, J. A. The earliest tetrapod braincase and the early evolution of the stapes and fenestra ovalis. *Nature* **369**, 392-4.
- (21) 1994 Clack, J. A. & Milner, A. R. *Platyrhinops* from the Upper Carboniferous of Linton and Nýřany and the family Pelontidae (Amphibia; Temnospondyli). In Schweiss, D., and Heidtke, U. (Eds) New Results on Permo-Carboniferous Fauna, Pollichia-buch No. 29, 185-192, Bad-Durkheim.
- (22) 1995 Coates, M. I. & Clack, J. A. Romer's Gap - tetrapod origins and terrestriality. In Arsenault, M. Lelièvre and Janvier P. (Eds) Proceedings of the 7th International Symposium on Lower Vertebrates, Miguasha: Studies on Early Vertebrates. Bulletin de la Muséum national de l'Histoire naturelle, Paris. 17, 373-388.
- (23) 1995 Clack, J. A. & Coates, M. I. *Acanthostega* - a primitive aquatic tetrapod? In Arsenault, M. Lelièvre and Janvier P. (Eds) Proceedings of the 7th International Symposium on Lower Vertebrates, Miguasha: Studies on Early Vertebrates. Bulletin de la Muséum national de l'Histoire naturelle, Paris. 17, 359-372.
- (24) 1995 Clack, J. A. Tetrapoda. McGraw-Hill *Yearbook of Science and Technology for 1996*, 339-341.

- (25) 1996 Clack, J. A. The palate of *Crassigyrinus scoticus* from the Viséan of Scotland. In Milner A. R. (Ed) Studies on Carboniferous and Permian Vertebrates. *Special Papers in Palaeontology* **52**, 55-64.
- (26) 1996 Clack, J. A. Otoliths in Fossil Coelacanths. *Journal of Vertebrate Paleontology* **16**, 168-171
- (27) 1996 Ahlberg, P. E., Clack, J. A. & Luksevics, E. Rapid braincase evolution between *Panderichthys* and the earliest tetrapods. *Nature* **381**, 61-4.
- (28) 1997 Clack, J. A. Devonian tetrapod trackways and trackmakers; a review of the fossils and footprints. *Palaeogeography, Palaeoclimatology, Palaeoecology* **130**, 227-50.
- (29) 1997 Clack, J. A. The evolution of tetrapod ears and the fossil record. *Brain, Behavior and Evolution* **50**, 198-212.
- (30) 1997 Clack, J. A. Les premiers tétrapodes vivaient dans l'eau. *La Recherche* **296**, 58-61.
- (31) 1998 Clack, J. A. The Scottish Carboniferous tetrapod *Crassigyrinus scoticus* (Lydekker) - cranial anatomy and relationships. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **88**, 127-42.
- (32) 1998 Clack, J. A. The neurocranium of *Acanthostega gunnari* and the evolution of the otic region in tetrapods. *Zoological Journal of the Linnean Society of London* **122**, 61-97.
- (33) 1998 Clack, J. A. A new Early Carboniferous tetrapod with a mélange of crown group characters. *Nature* **394**, 66-9.
- (34) 1998 Ahlberg, P. E. & Clack, J. A. Lower jaws, lower tetrapods: a review based on the Devonian tetrapod *Acanthostega*. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **89**, 11-46.

- (35) 1998 Clack, J. A. Vertebrate Evolution. McGraw-Hill *Yearbook of Science and Technology for 1999*, 389-392.
- (36) 1999 Paton, R. L., Smithson, T. R. & Clack, J. A. An amniote-like skeleton from the Early Carboniferous of Scotland. *Nature* **398**, 508-513.
- (37) 1999 Marshall, J. E. A., Astin, T. R. & Clack, J. A. East Greenland tetrapods are Devonian in age. *Geology* **27**, 637-640
- (38) 2000 Clack, J. A & Neininger, S. L. Fossils from the Celsius Bjerg Group, Upper Devonian sequence, East Greenland: significance and sedimentological distribution. P. F. Friend and B. Williams (Eds) New perspectives on the Old Red Sandstone. Geological Society, London Special Publication 180, 557-66.
- (39) 2000 Clack, J. A. The origin of tetrapods. In Heatwole, H. & Carroll, R. L. (Eds) *Amphibian Biology Volume 4, Palaeontology*. Surrey Beatty & Sons, Chipping Norton, Australia, 973-1029.
- (40) 2000 Clack, J. A & Carroll, R. L. 2000. Early Carboniferous tetrapods. In Heatwole, H. & Carroll, R. L. (Eds) *Amphibian Biology Volume 4, Palaeontology*. Surrey Beatty & Sons, Chipping Norton, Australia, 1030-1043
- (41) 2001 Clack, J. A. The otoccipital region - origin, ontogeny and the fish-tetrapod transition. In: *Major events in early vertebrate evolution*. In Ahlberg, P. E. (ed.) Systematics Association Special Volume 61 Taylor and Francis, London. 392-405.
- (42) 2001 Clack, J. A. *Eucritta melanolimnetes* from the Early Carboniferous of Scotland, a stem tetrapod showing a mosaic of characteristics. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **92**, 75-95.
- (43) 2002 Clack, J. A. An early tetrapod from 'Romers Gap'. *Nature* **418**, 72-6.
- (44) 2002 Clack, J. A. The dermal skull roof of *Acanthostega*, an early tetrapod from the

- Late Devonian. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **93**, 17-33.
- (45) 2002 Clack, J. A. Patterns and processes in the early evolution of the tetrapod ear. *Journal of Neurobiology* **53**, 251-64.
- (46) 2003 Clack, J. A. 2003. A revised reconstruction of the dermal skull roof of *Acanthostega*, an early tetrapod from the Late Devonian. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **93**, 163-5.
- (47) 2003 Clack, J. A. A new baphetid (stem tetrapod) from the Upper Carboniferous of Tyne and Wear, UK, and the evolution of the tetrapod occiput. *Canadian Journal of Earth Sciences* **40**, 483-98.
- (48) 2003 Clack, J. A., Ahlberg, P. E., Finney, S. M, Dominguez Alonso P., Robinson, J. & Ketcham, R. A. A uniquely specialised ear in a very early tetrapod. *Nature* **425**, 65-9.
- (49) 2004 Clément, G., Ahlberg, P. E., Blieck, A., Blom, H., Clack, J. A., Poty, E., Thorez, J. & Janvier, P. 2004. Devonian tetrapod from western Europe. *Nature* **427**, 412-3.
- (50) 2004 Manley, G. A. & Clack, J. A. An outline of the evolution of vertebrate hearing organs. In Manley, G. A., Popper, A. & Fay, R. R. (Eds) *Evolution of the Vertebrate Auditory System*, New York, Springer-Verlag, 1-26.
- (51) 2004 Clack, J. A. & Allin, E. The evolution of single- and multiple- ossicle ears in fishes and tetrapods. In Manley, G. A., Popper, A. & Fay, R. R. (Eds) *Evolution of the Vertebrate Auditory System*, New York, Springer-Verlag, 128-163.
- (52) 2004 Clack, J. A. & Ahlberg, P. E. A new stem tetrapod from the Early Carboniferous of Northern Ireland. In Arratia, G., Cloutier, R., Wilson, M. V.

- H. (eds) *Recent Advances in the Origin and Early Radiation of Vertebrates*. Verlag Friedrich Pfeil, 309-20.
- (53) 2005 Clack, J. A. Getting a leg up on land. Invited article. *Scientific American* **293**, 100-107.
- (54) 2005 Clack, J. A. & Finney, S. M. *Pederpes finneyae*, an articulated tetrapod from the Tournaisian of western Scotland. *Journal of Systematic Palaeontology* **2**, 311-46.
- (55) 2005 Clack, J. A. 2005 Fossil vertebrates – Palaeozoic non-amniote tetrapods. *Encyclopaedia of Geology*. Elsevier, Oxford 2: 468-497
- (56) 2005 Blom, H., Clack, J. A. & Ahlberg, P. E. Localities, distribution and stratigraphical context of the Late Devonian tetrapods of East Greenland. – Meddelelser om Grønland, *Geosciences* **43**, 1-50.
- (57) 2005 Ahlberg, P. E., Clack, J. A. & Blom, H. The axial skeleton of the Devonian tetrapod *Ichthyostega*. *Nature* **437**, 137-40.
- (58) 2005 Clack, J. A. Making headway and finding a foothold: tetrapods come ashore. In Briggs, D. E. G. (ed.) *Evolving Form and Function: Fossils and Development*. Peabody Museum of Natural History Special Publications, Yale University 223-44.
- (59) 2006 Clack, J. A. Le premier pied à terre. *Pour la Science*. **340**, 30 –36.
- (60) 2006 Clack, J. A. The emergence of early tetrapods. *Palaeogeography, Palaeoclimatology, Palaeoecology* **232**, 167-189.
- (61) 2006 Clack J. A. From fins to limbs. *Natural History Magazine* **115**, 36-41
- (62) 2006 Ruta, M. & Clack, J. A. A review of *Silvanerpeton miripedes*, a stem amniote from the Lower Carboniferous of East Kirkton, West Lothian, Scotland. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **97**, 31-63.

- (63) 2006 Clack, J. A. Tetrapod origins. McGraw-Hill *Yearbook of Science and Technology for 2007*, 325-327.
- (64) 2007 Blom, H., Clack, J. A., Ahlberg P. E. & Friedman, M. Devonian vertebrates from East Greenland: a review of faunal composition and distribution. *Geodiversitas* **29**, 119-41.
- (65) 2007 Clack, J. A. Devonian climate change, breathing, and the origin of the tetrapod stem group. *Integrative and Comparative Biology* **47**, 510-23.
- (66) 2007 Clack, J. A. Anthracosauria, In McGraw-Hill Encyclopedia of Science & Technology, Volume 2, McGraw-Hill, New York, 30-31.
- (67) 2008 Ahlberg, P. E., Clack J. A., Luksevics E., Blom H. & Zupins, I. *Ventastega curonica* and the origin of tetrapod morphology. *Nature* **453**, 1199-204.
- (68) 2008 Larsen, H., Olsen, P. & Clack, J. A. The Devonian Basin in East Greenland – Review of basin evolution and vertebrate assemblages. In Higgins, A. K., Gilotti, J. A. & Smith, M. P. (eds) The Greenland Caledonides: Evolution of the Northeast Margin of Laurentia. *Geological Society of America Memoir* **202**, 273-92.
- (69) 2008 Clack, J. A. Devonian Missing Link: *Tiktaalik roseae*. *McGraw-Hill Yearbook of Science & Technology for 2009*, 91-93.
- (70) 2009 Callier, V., Clack, J. A. & Ahlberg, P. E. Contrasting ontogenetic trajectories in the earliest known tetrapod forelimbs. *Science*. **324**, 364-7.
- (71) 2009 Clack, J. A. The fin to limb transition: new data, interpretations, and hypotheses from paleontology and developmental biology. *Annual Review of Earth and Planetary Sciences* **37**, 163-79.
- (72) 2009 Daeschler, E. B, Clack, J. A. & Shubin, N. H. Late Devonian tetrapod remains from Red Hill Pennsylvania, USA: how much diversity? In Ahlberg, P. E.,

- Blom, H. & Boisvert, C. A. (eds.) Forty Years of Early Vertebrates: Papers from the 11th International Symposium on Early and Lower Vertebrates. *Acta Zoologica Special Issue, Supplement 90*, 306-17.
- (73) 2009 Clack, J. A. The fish – tetrapod transition: new fossils and interpretations. *Evolution: Education and Outreach* **2**, 213-23.
- (74) 2009 Clack, J. A. & Klembara, J. An articulated specimen of a chroniosuchid from the Late Permian of Russia. *Special Papers in Palaeontology* **81**, 15-42.
- (75) 2009 Kimmel, C, Sidlauskas, B. & Clack, J. A. Linked morphological changes during palate evolution in early tetrapods. *Journal of Anatomy* **215**, 91-109.
- (76) 2010 Klembara, J., Clack, J. A. & Cernansky, A. The anatomy of the palate of *Chroniosaurus dongusensis* (Chroniosuchia, Chroniosuchidae) from the Upper Permian of Russia. *Palaeontology* **53**, 1147-53.
- (77) 2010 Clack, J. A. & Milner, A. R. The morphology and systematics of the Pennsylvanian amphibian *Platyrhinops lyelli* (Amphibia: Temnospondyli). *Transactions of the Royal Society of Edinburgh, Earth Sciences* **100**, 275-95.
- (78) 2010 Pierce, S. E., Clack, J. A. & Hutchinson, J. R. 2011. Comparative axial morphology in pinnipeds and its correlation with aquatic locomotory behaviour. *Journal of Anatomy* **219**, 502-14.
- (79) 2011 Polgar, G., Malavasi, S., Cipolato, G., Georgalas, V., Clack, J. A. & Torricelli, P. Acoustic communication at the water's edge: Evolutionary insights from a mudskipper. *PLoS ONE* **6**, e21434.
- (80) 2011 Clack, J. A. A Carboniferous embolomere tail with supraneural radials. *Journal of Vertebrate Paleontology* **31**, 1150-3.
- (81) 2011 Clack, J. A. A new microsaur from the Early Carboniferous (Viséan) of East Kirkton, Scotland, showing soft tissue evidence. *Special Papers in*

- Palaeontology* **86**, 45-56.
- (82) 2011 Clack, J. A., Sharp, E. L. & Long, J. A. The fossil record of lungfishes. In Jørgensen, J. M. & Joss, J. (Eds). *The Biology of Lungfishes*, Science Publishers Inc. Enfield, New Hampshire, USA pp. 1-42.
- (83) 2012 Clack, J. A., Ahlberg, P. E., Blom, H. & Finney, S. M. A new genus of Devonian tetrapod from East Greenland with new information on the lower jaw of *Ichthyostega*. *Palaeontology* **55**, 73-86.
- (84) 2012 Molnar, J. L., Pierce, S. E., Clack, J. A. & Hutchinson, J. R. Idealized landmark-based geometric reconstructions of poorly preserved fossil material: a case study of an early tetrapod vertebra. *Paleontologica Electronica* **15**, 1-18.
- (85) 2012 Smithson, T. R., Wood, S. P., Marshall, J. E. A. & Clack, J. A. Earliest Carboniferous tetrapod and arthropod faunas from Scotland populate Romer's Gap. *Proceedings of the National Academy of Sciences, USA* **109**, 4532-7.
- (86) 2012 Pierce, S. E., Clack, J. A. & Hutchinson, J. R. Three-dimensional limb joint mobility in the early tetrapod *Ichthyostega*. *Nature* **486**, 523-6.
- (87) 2012 Sharp, E. L. & Clack, J. A. Redescription of the lungfish *Straitonia waterstoni* from the Viséan of Lothian, Scotland. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **102**, 179-189.
- (88) 2012 Clack, J. A., Witzmann, F., Snyder, D. & Müller, J. A colosteid-like early tetrapod from the St. Louis Limestone (Early Carboniferous, Meramecian), St. Louis, Missouri, USA. *Fieldiana Life and Earth Sciences* **5**, 17-39.
- (89) 2013 Sharp, E. L. & Clack, J. A. A review of the Carboniferous lungfish genus *Ctenodus* Agassiz, 1838 from the United Kingdom, with new data from an articulated specimen of *Ctenodus interruptus*. *Transactions of the Royal*

- Society of Edinburgh: Earth Sciences* **104**, 169-204.
- (90) 2013 Pierce, S. E., Ahlberg, P. E., Hutchinson, J. R., Molnar, J. L., Sanchez, S., Tafforeau, P. & Clack, J. A. Vertebral architecture in the earliest stem tetrapods. *Nature* **494**: 226-30.
- (91) 2013 Pierce, S. E., Hutchinson, J. R. & Clack, J. A. Historical perspectives on the evolution of tetrapodomorph movement. *Integrative and Comparative Biology* **53**, 209-23.
- (92) 2013 Smithson, T. R. and Clack, J. A. Tetrapod appendicular skeletal elements from the Early Carboniferous of Scotland. *Comptes Rendus Palevol* **12**, 405-17.
- (93) 2014 Klembara, J., Clack, J. A., Milner, A. R. & Ruta, M. Cranial anatomy, ontogeny, and relationships of the Late Carboniferous tetrapod *Gephyrostegus bohemicus* Jaekel, 1902. *Journal of Vertebrate Paleontology* **34**, 774-92.
- (94) 2014 Sookias, R. B., Böhmer, C. & Clack, J. A. Redescription and phylogenetic analysis of the mandible of an enigmatic Late Carboniferous tetrapod from Nova Scotia and the lability of Meckelian jaw ossification. *PloS ONE* **9**, e109717.
- (95) 2014 Clack, J. A. Fossil vertebrates – Palaeozoic non-amniote tetrapods. Reference Module in Earth Systems and Environmental Science. Elsevier. (Online update of Encyclopaedia of Geology 2005. Elsevier, Oxford 2: 468-497)
- (96) 2015 Porro, L. B., Rayfield, E. J. & Clack, J. A. Descriptive anatomy and three-dimensional reconstruction of the skull of the early tetrapod *Acanthostega gunnari* Jarvik, 1952. *PloS ONE* **10**, e0118882.
- (97) 2015 Anderson, J. S., Smithson, T. R., Mansky, C., Meyer, T., Carroll, R. L. & Clack, J. A. A diverse tetrapod fauna at the base of Romer's Gap. *PloS ONE* **10**, e0125446.

- (98) 2015 Porro, L. B., Rayfield, E. M. & Clack, J. A. Computed tomography, anatomical description and three-dimensional reconstruction of the lower jaw of *Eusthenopteron foordi* Whiteaves, 1881 from the Upper Devonian of Canada. *Palaeontology* **58**, 1031-47.
- (99) 2015 Clack, J. A. & Milner, A. R. *Basal tetrapods*. Handbook of Paleoherpertology. Part 3A1. Friedrich Pfeil, Munich.
- (100) 2015 Smithson, T. R., Richards, K. R. & Clack, J. A. Lungfish diversity in Romer's Gap: reaction to the end-Devonian extinction. *Palaeontology* **59**, 29-44.
- (101) 2015 Bennett, C. E., Kearsey, T. I., Davies, S. J., Millward, D., Clack, J. A., Smithson, T. R. & Marshall, J. E. A. Early Carboniferous sandy siltstones deposited in seasonal flooding episodes preserve rare non-marine fossils. *Sedimentology* **63**, 1677-1700.
- (102) 2016 Sanchez, S., Tafforeau, P., Clack, J. A. & Ahlberg, P. E. Life history of the stem tetrapod *Acanthostega* revealed by synchrotron microtomography. *Nature* **537**, 408-11.
- (103) 2016 Clack, J. A. Vertebrate Diversity in a Sensory System: The Fossil Record of Otic Evolution. In Clack, J. A., Fay R. & Popper A. N. (Eds) *Evolution of the Vertebrate Ear: Evidence from the Fossil Record*. Springer Handbook of Acoustical Research Volume 59 pp. 1-16.
- (104) 2016 Clack J. A., Ahlberg, P. E. Sarcopterygians: From Lobe-Finned Fishes to the Tetrapod Stem Group. In Clack, J. A., Fay R. & Popper A. N. (Eds) *Evolution of the Vertebrate Ear: Evidence from the Fossil Record*. Springer Handbook of Acoustical Research Volume 59 pp 51-70
- (105) 2016 Clack, J. A. & Anderson, J. S. Early Tetrapods: Experimenting with Form and Function. In Clack, J. A., Fay R. & Popper A. N. (Eds) *Evolution of the*

- Vertebrate Ear: Evidence from the Fossil Record.* Springer Handbook of Acoustical Research Volume 59 pp 71-106
- (106) 2016 Clack, J. A. Land vertebrates, the origin and evolution of. *Encyclopedia of Evolutionary Biology*, vol. 2, (ed. Kilman RM), pp. 296-304. Oxford: Academic Press.
- (107) 2017 Clack, J. A., Bennett, C. E., Carpenter, D. K., Davies, S. J., Fraser, N. C., Kearsey, T. I, Marshall, J. E. A., Millward, D., Otoo, B. K. A., Reeves, E. J., Ross, A. J., Ruta, M., Smithson, K. Z., Smithson, T. R. & Walsh, S. Phylogenetic and environmental context of a Tournaisian tetrapod fauna. *Nature Ecology and Evolution* doi:10.1038/s41559-016-0002.
- (108) 2017 Smithson, T. R., Browne, A. E., Davies, S. J., Marshall, J. E. A., Millward, D., Walsh, S. A. & Clack, J. A. A new Mississippian tetrapod from Fife, Scotland, and its environmental context. *Papers in Palaeontology* **3**, 1-11.
- (109) 2017 Clack, J. A. The East Kirkton Lagerstätte: A window onto Early Carboniferous land ecosystems. In Fraser, N. C & Sues, H. D. (Eds) *Terrestrial Lagerstätten*. Dunedin. Chapter 2, 39-64.
- (110) 2018 Fraser, N. C., Smithson, T. R. & Clack, J. A. A legacy in fossils: a tribute to Stan(ley) Wood – Preface. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* **108**, 1-5.
- (111) 2018 Richards, K. R., Sherwin, J. E., Smithson, T. R., Bennion, R. F., Davies, S. J., Marshall, J. E. A. & Clack, J. A. 2018. Diverse and durophagous: Early Carboniferous chondrichthyans from the Scottish Borders. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* **108**, 1-21.
- (112) 2018 Clack, J. A., Porro, L. B. & Bennett, C. E. A *Crassigyrinus*-like jaw from the

- Tournaisian (Early Mississippian) of Scotland. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* **108**, 37-46.
- (113) 2018 Smithson, T. R. & Clack, J. A. A new tetrapod from Romer's Gap reveals an early adaptation for walking. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* **108**, 89-97.
- (114) 2018 Otoo, B. K. A., Clack, J. A., Smithson, T. R., Bennett, C. E., Kearsey, T. I. & Coates, M. I. A fish and tetrapod fauna from Romer's Gap preserved in Scottish Tournaisian floodplain deposits. *Palaeontology* **62**, 225-253.
- (115) 2018 Clack, J. A., Challands, T. J., Smithson, T. R. & Smithson, K. Z. Newly recognized Famennian lungfishes from East Greenland reveal dental diversity and blur the Devonian-Carboniferous boundary. *Papers in Palaeontology* **5**, 261-275.
- (116) 2018 Clack, J. A., Bennett, C. E., Davies, S. J., Scott A. C., Sherwin, J. E. & Smithson, T. R. A Tournaisian (earliest Carboniferous) conglomerate-preserved non-marine faunal assemblage and its environmental and sedimentological context. *PeerJ* doi: 10.7717/peerj.5972.
- (117) 2019 Challands, T. J., Smithson T. R., Clack, J. A., Bennett, C. E., Marshall, J. E. A., Finney, S. M., Hill, H. A Lungfish survivor of the end-Devonian extinction and an Early Carboniferous dipnoan radiation. *Journal of Systematic Palaeontology* **17**, 1825-1849.
- (118) 2019 Clack, J. A., Milner A. R., Ruta, M., Marshall, J. E .A., Smithson, T. R., Smithson, K.Z. 2019. The earliest heterodont and durophagous tetrapod. *Royal Society Open Science* **6**, 182087
- (119) 2019 Herbst, E. C., Doube, M., Smithson, T. R., Clack, J. A. & Hutchinson, J. R. Bony lesions in early tetrapods and the evolution of mineralized tissue repair.

- Paleobiology* **45**, 676-697.
- (120) 2020 Ahlberg, P. E. & Clack, J. A. The smallest known Devonian tetrapod shows unexpectedly derived features, *Royal Society Open Science* **7**, 192117.
- (121) 2020 Beeby, E. L. (née Sharp), Smithson T. R. & Clack, J. A. Systematics and description of the lungfish *Sagenodus* from the Carboniferous of the United Kingdom. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* **111**, 47-74.
- (122) 2020 Ruta, M., Clack, J. A. & Smithson, T. R. A review of the stem amniote *Eldeceeon rolfei* from the Viséan of East Kirkton, Scotland. *Earth and Environmental Transactions of the Royal Society of Edinburgh* **111**, 173- 192.
- (123) 2020 Clack, J. A. & Smithson, T. R. A new large embolomere from East Kirkton. *Scottish Journal of Geology* **56**, 153-158.
- (124) 2020 Johanson, Z., Jeffery, J., Challands, T., Pierce, S. E. & Clack, J. A. A New Look at Carboniferous Rhizodontid Humeri (Sarcopterygii; Tetrapodomorpha), *Journal of Vertebrate Paleontology* **40**, e1813150
- (125) 2021 Dickson, B. V., Clack, J.A., Smithson, T. R. & Pierce, S. E. Functional adaptive landscapes predict terrestrial capacity at the origin of limbs. *Nature* **589**, 242–245.
- (126) 2021 Molnar, J. L., Hutchinson, J. R., Diogo, R., Clack, J. A. & Pearce, S. E. Evolution of forelimb musculoskeletal function across the fish-to-tetrapod transition, *Science Advances* **7** No 4 eabd7457

## Books

- (1) 2000 Clack, J. A. *Gaining Ground - the Water to Land Adventure* (in Japanese). Kodansha, Japan.
- (2) 2002 Clack, J. A. *Gaining Ground: the Origin and Evolution of Tetrapods*. Indiana University Press, Bloomington, Indiana, USA. 369 pp.
- (3) 2012 Clack J. A. *Gaining Ground: the Origin and Evolution of Tetrapods*. 2nd Edition. Indiana University Press, Bloomington, Indiana, USA. 523 pp.

## Book Reviews

- (1) 1987 Clack, J. A. *Evolution of Vertebrate Design* by L. B. Radinsky, Chicago Univ. Press. *Palaeontological Association Newsletter*.
- (2) 1990 Clack, J. A. *The Dicynodonts: a study in palaeobiology* by G.M. King, Chapman and Hall. *Trends in Ecology and Evolution* **5** (11) 385.
- (3) 1994 Clack, J. A. *Palaeozoic Vertebrate Biostratigraphy and Biogeography* J. A. Long (ed.) Belhaven Press: *Historical Biology* **9**, 237-242.
- (4) 1997 Clack, J. A. The Devonian tetrapod *Ichthyostega* by E. Jarvik. *Fossils and Strata* **40**, 1-213. *Palaeogeography Palaeoclimatology Palaeoecology* **128**, 365-374.
- (5) 1998 Clack, J. A. *History of the Coelacanth Fishes* by P. L Forey. Chapman & Hall – Natural History Museum TREE.
- (6) 2005 Clack, J. A. Digging for clues. Review of *Discovering Dorothea: the life of the pioneering fossil-hunter Dorothea Bate*, by Karolyn Schindler. *Nature* **438**, 163-164.

- (7) 2005 Clack, J. A. Digging for clues. Review of *Discovering Dorothea: the life of the pioneering fossil-hunter Dorothea Bate*, by Karolyn Schindler. *Nature* **438**, 163-164.
- (8) 2008 Clack, J. A. *Fins into Limbs: evolution, development and transformation*. Hall. B. K. (ed) Chicago University Press. *Palaeontological Association Newsletter*, **65**, 111-115.
- (9) 2009 Clack, J. A. *Your Inner Fish* by N. H Shubin. *Journal of Clinical Investigation*. **118**, 2370.
- (10) 2011 Clack, J. A. *How vertebrates left the water* by M. Laurin. *Copeia* **103**, 615-617.
- (11) 2015 Clack, J. A. *When the invasion of the land failed: the legacy of the Devonian extinctions* by G. McGhee. *Quarterly Review of Biology*. **90**, 81.

#### Published abstracts

A list of Jenny's published abstracts can be found in:

Ruta, M., Ahlberg, P.E. & Smithson T. R. 2019. Fossils, function and phylogeny: papers on early vertebrate evolution in honour of Professor Jennifer A. Clack. Introduction. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* **109**, 1-14.