

Mark John Prescott, PhD

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Head of Research Management and Policy

**National Centre for the Replacement,
Refinement and Reduction of Animals in
Research (NC3Rs)**

I have oversight of the NC3Rs research funding schemes, relationships with the academic community (including other research funders and regional staff) and experimental design activities. I lead the NC3Rs peer review service and animal welfare programmes, especially those involving non-human primates.

Education

- PhD Psychology, University of Stirling, 1995 – 1999
*Social learning in mixed species troops of *Saguinus fuscicollis* and *Saguinus labiatus*: Tests of foraging benefit hypotheses in captivity* (Nominee for the Napier Medal for Young Primatologists)
- BSc (Hons) Zoology, University of Edinburgh, 1991 – 1995

Research Interests

- The 3Rs; Primatology; Animal behaviour; Animal welfare

Professional Activities / Skills

- Strategic thinking and planning – e.g. development of the NC3Rs [funding schemes](#); embedding the 3Rs in the policies and [peer review processes](#) of the major UK public bioscience funding bodies
- Peer review of research proposals – over 700 applications to the MRC, BBSRC, Royal Society, Wellcome Trust and other medical research charities involving the use of non-human primates, cats, dogs, equines and other higher mammals; 10 quinquennial reviews of MRC units/institutes
- Project licence review – over 100 licence applications
- Guideline development – e.g. [Primate Accommodation, Care and Use](#), [Responsibility in the Use of Animals in Bioscience Research](#)
- Auditing and inspection of animal facilities – over 10 academic and industry facilities internationally
- Research and analytical skills, article and report writing – e.g. see Publications
- Scientific events management – e.g. annual [Primate Welfare Meeting](#), [Chronic Implant Workshop](#)
- Research evaluation – e.g. REF 2014, Bateson Committee on research using non-human primates
- Manuscript review – ad hoc reviewer for *Animal Welfare*, *Journal of Applied Animal Welfare Science*, *Animal Behaviour*, *Laboratory Animals*, *Animals*, *Alternatives to Laboratory Animals*, *International Journal of Primatology*, *American Journal of Primatology*, *Journal of Pharmacological and Toxicological Methods*, *PLOS One*
- Scientific presentations – over 200 invited presentations
- Media engagement – e.g. press briefings (Science Media Centre); TV, radio and print interviews
- Parliamentary and Government engagement – e.g. House of Lords European Union Committee
- Website design and management – e.g. [NC3Rs Website](#), [Macaque Website](#), [Chronic Implants Wiki](#)
- Leadership – e.g. training and mentoring of the NC3Rs Research Management and Policy Group (eight post-doctoral scientists)
- People management – currently six Programme Managers / Science Managers
- Resource management – delegated authority of up to £100k per item
- Information technology – MS Office Suite, Adobe Design Suite, website content management systems

Current External Positions

- SCHEER Working Group on Nonhuman Primates Testing, European Commission
- Board of Trustees, AAALAC International
- Animal Ethics Advisory Group, *PLOS One*
- Advisory Board and Animal Welfare and Ethical Review Body, MRC Centre for Macaques
- Animal Welfare and Ethical Review Body, University of Birmingham
- Captive Care Committee, International Primatological Society
- Captive Care Working Party, Primate Society of Great Britain

Previous External Positions

- Impact Assessor, Biological Sciences Panel, Research Excellence Framework 2014
- External PhD Examiner, University of Stirling, Louisa Tasker (2013) and Laura Hall (2014)
- Member, Animal Procedures Committee (2006-2012) – independent advisory body to the UK Government on operation of the Animals (Scientific Procedures) Act (public appointment)
- Member, Ethics Committee, Centre National de la Recherche Scientifique (CNRS) Marseille
- Member, MRC Cross-Board Working Group on Animal Guidance
- Member, User Group, Researchfish Ltd.
- Member, RCUK Research Outcomes System Management Board
- Member, MRC/BBSRC/Wellcome Trust Bateson Committee ‘Review of research using non-human primates’
- Observer, Academy of Medical Sciences/MRC/Royal Society/Wellcome Trust Weatherall Review of ‘The use of non-human primates in research’
- Theme Leader, ‘Refinement and Animal Welfare, 9th World Congress on Alternatives and Animal Use in the Life Sciences
- Expert Evaluator, European Commission, 6th Research Framework Programme
- Member, Technical Expert Working Group (representing the European Federation for Primatology) advising the European Commission on revision of Directive 86/609/EEC on the Protection of Animals Used for Experimental and Other Scientific Purposes
- Member, Primate Expert Group advising the Council of Europe on revision of Appendix A of the Convention for the Protection of Vertebrate Animals Used for Experimental and Other Scientific Purposes (ETS 123)
- Observer, Council of Europe Multilateral Consultation on revision of Appendix A (representing the World Society for the Protection of Animals)
- Guest Editor, Journal of Applied Animal Welfare Science, Special issue on ‘Training primates using positive reinforcement techniques’
- Editor, BVA/FAME/RSPCA/UFAW Joint Working Group on ‘Refinements in husbandry, care and common procedures for non-human primates’
- Editor, BVA/FAME/RSPCA/UFAW Joint Working Group on ‘Refining dog husbandry and care’
- Council Member, Primate Society of Great Britain
- Convenor, Captive Care Working Party, Primate Society of Great Britain
- Member, Scientific Committee, 2008 International Primatological Society Congress, Edinburgh
- Member, Working Group on Laboratory Animal Transport, Laboratory Animal Science Association

Honours

- Honorary Member (1st), European Primate Veterinarians
- Honorary Research Fellow, Scottish Primate Research Group

Work History

2011 – present	Head of Research Management and Policy		NC3Rs
2004 – 2011	Programme Manager – Animal Welfare		NC3Rs / MRC Centre for Best Practice for Animals in Research
2000 – 2004	Senior Scientific Officer	Research Animals Department	RSPCA
2003 – 2005	Lecturer and Module Leader (Part time)	MSc Primate Conservation	Oxford Brookes University
1999 – 2000	Lecturer and Tutor	BSc (Hons) Animal Management	Sparsholt College Hampshire, for Portsmouth University
1999 – 1999	Post Doctoral Research Assistant	Sex differences in foraging in <i>Saguinus</i>	University of Stirling
1998 – 1998	Graduate Research Assistant	Colour vision polymorphism in <i>Saguinus</i>	University of Stirling
1995 – 1999	Teaching Assistant	BSc (Hons) Psychology	University of Stirling

Publications

- Prescott MJ (in prep) Using primates in captivity: research, conservation and education. In Robinson LM, Weiss A, Eds. *Welfare of Nonhuman Primates*. New York: Springer
- Prescott MJ, McMillan J, Bloomsmith MA (submitted) An international survey of approaches to monkey chair restraint. *Comparative Medicine*
- Prescott MJ (in press) The three Rs. In: Fuentes A, Ed. *The International Encyclopedia of Primatology*. London: Wiley-Blackwell
- Prescott MJ, Lidster K (in press) Improving quality of science through better animal welfare: the NC3Rs strategy. *Lab Animal*
- Lidster K, Readman DG, Prescott MJ, Owen SF (in press) International survey on the use and welfare of zebrafish. *Journal of Fish Biology*
- Hawkins P, Prescott MJ, Carbone L, Dennison N, Johnson C, Makowska J, Marquardt N, Readman G, Weary DM, Golledge HDR (2016) A good death?: Report of the second Newcastle meeting on laboratory animal euthanasia. *Animals* 6(9): 50 doi:10.3390/ani6090050
- Prescott MJ (2016) Online resources for improving the care and use of non-human primates in research. *Primate Biology* 3, 33-40
- Lidster K, Blümcke I, Crunelli V, Flecknell P, Frenguelli BG, Gray WP, Jefferys JG, Kaminski R, Pitkänen A, Ragan I, Shah M, Simonato M, Trevelyan A, Volk H, Walker M, Yate N, Prescott MJ (2015) Opportunities for improving animal welfare in rodent models of epilepsy and seizures. *Journal of Neuroscience Methods* 260, 2-25
- Graham ML, Prescott MJ (2015) The multifactorial role of the 3Rs in shifting the harm-benefit analysis in animal models of disease. *European Journal of Pharmacology* 759, 19-29
- Chapman K, Bayne K, Couch J, Decelle T, Finch L, de Haan L, Koban T, Fris Mikkelsen L, Muller W, Palmer H, Prescott MJ (2015) Opportunities for implementing the 3Rs in drug development and safety assessment studies using nonhuman primates. In: *The Nonhuman Primate in Drug Development and Safety Assessment* (J Bluemel, ed.). Massachusetts: Elsevier
- Prescott MJ, Robinson V (2013). *2013 Research Review*. London: NC3Rs
- Prescott MJ (2013) Talking with the animals. *Laboratory News*, March 2013, 35-37 [editorial]
- Pickard J, Buchanan-Smith HM, Dennis M, Flecknell P, Joannides A, Lemon R, Prescott MJ, Schultz W (2013) *Review of the assessment of cumulative severity and lifetime experience in non-human primates used in neuroscience research*. London: Animal Procedures Committee
- Prescott MJ, Nixon ME, Farningham DAH, Naiken S, Griffiths M-A (2012) Laboratory macaques: when to wean? *Applied Animal Behaviour Science* 137, 194-207
- Prescott MJ, Brown VJ, Flecknell PA, Garrod K, Lemon RN, Parker AJ, Ryder K, Schultz W, Scott L, Watson J, Whitfield L (2012) Response to Westlund's commentary 'Can conditioned reinforcers and variable-ratio schedules make food- and fluid-control redundant?' *Journal of Neuroscience Methods* 204, 206-209
- Prescott MJ (2012) Changing the face of primate neuroscience. *BNA Bulletin* 66, 10 [editorial]
- Smith AC, Surridge AK, Prescott MJ, Osorio D, Mundy NI, Buchanan-Smith HM (2012) The effect of colour vision status on insect prey capture efficiency by captive and wild tamarins (*Saguinus* spp.) *Animal Behaviour* 83, 479-486
- Davies J, Dolby K, Jennings M, Leggett M, Matthews P, Prescott M, Robinson V, Smith D (2012) *Evaluating progress in the 3Rs: The NC3Rs framework*. London: NC3Rs
- Bateson P, Johansen-Berg H, Jones DK, Keverne EB, Matthews PM, Milner ADM, Prescott M, Ragan I, Shattock R, Strauss J, Peck H (2011) *Review of Research Using Non-Human Primates: Report of a panel chaired by Professor Sir Patrick Bateson FRS*. London: BBSRC/MRC/NC3Rs/Wellcome Trust
- Prescott MJ (2010) Ethics of primate use. *Advances in Science and Research* 5, 11-22
- Prescott MJ, Brown VJ, Flecknell PA, Gaffan D, Garrod K, Lemon RN, Parker AJ, Ryder K, Schultz W, Scott L, Watson J, Whitfield L (2010) Refinement of the use of food and fluid control as motivational tools for macaques used in behavioural neuroscience research: Report of a working group of the NC3Rs. *Journal of Neuroscience Methods* 193, 167-188
- Ellegaard L, Cunningham A, Edwards S, Grand N, Nevalainen T, Prescott MJ, Schuurman T (2010) Welfare of the minipig with special reference to use in regulatory toxicology. *Journal of Pharmacological and Toxicological Methods* 62, 167-183

- Prescott MJ (2009) "Taking better care of monkeys and apes: Refinement of housing and handling practices for caged nonhuman primates" by V Reinhardt, 2008, 137 pp., Washington D.C.: Animal Welfare Institute. *ALN Europe Jan/Feb 2009*, 33-34 [book review]
- Jennings M, Prescott MJ (eds.) Joint Working Group on Refinement (2009) Refinements in husbandry, care and common procedures for non-human primates. *Laboratory Animals* 43 (S1), 1-47
- Prescott MJ (2008) The 3Rs in neuroscience research and the role of the UK 3Rs centre. *BNA Bulletin* 58, 5-6 [editorial]
- Prescott MJ (2007) "Guidelines for the Humane Transportation of Research Animals" by Committee on Guidelines for the Humane Transport of Laboratory Animals, 2006, 276 pp., Washington, D.C.: National Research Council. *International Journal of Primatology* 28, 505-506 [book review]
- Prescott MJ (2007) "Variables, Refinement and Environmental Enrichment for Rodents and Rabbits Kept in Research Institutions" by V Reinhardt & A Reinhardt, 2006, 71 pp., Washington D.C.: Animal Welfare Institute. *Animal Welfare* 16, 289 [book review]
- Prescott MJ, Buchanan-Smith HM (2007) Training laboratory-housed non-human primates, Part 1: A UK survey. *Animal Welfare* 16, 21-26
- McCann C, Buchanan-Smith HM, Farmer K, Fitch-Snyder H, Jones-Engel L, Prescott M, Taylor S (2007) *IPS International Guidelines for the Acquisition, Care and Breeding of Non-Human Primates, 2nd Edition*. Captive Care Committee, International Primatological Society
- Prescott MJ (2006) Finding new homes for ex-laboratory and surplus zoo primates. *Laboratory Primate Newsletter* 45, 5-8
- Prescott MJ (2006) Primate sensory capabilities and communications signals: Implications for care and use in the laboratory. London: NC3Rs
- Prescott MJ (2006) Where are we with the 3Rs? *Lab Animal Europe* 6, 3 [editorial]
- Prescott MJ (2006) *NC3Rs Guidelines: Primate Accommodation, Care and Use*. London: NC3Rs
- Prescott MJ, Bowell VA, Buchanan-Smith HM (2005) Training laboratory-housed non-human primates, Part 2: Resources for developing and implementing training programmes *Animal Technology and Welfare* 4, 133-148
- Prescott MJ (2005) "Handbook of Primate Husbandry and Welfare," by S Wolfensohn S & P Honess, 2005, 176 pp. Oxford: Blackwell. *Animal Welfare* 14, 393-396 [book review]
- Prescott MJ, Buchanan-Smith HM, Rennie AE (2005) Training laboratory-housed primates: A survey of current practice in the UK. *Anthrozoos* 18, 288-303
- Prescott MJ, Buchanan-Smith HM, Smith AC (2005) Social interaction with non-averse group-mates modifies a learned food aversion in single- and mixed-species groups of tamarins (*Saguinus fuscicollis* and *S. labiatus*). *American Journal of Primatology* 65, 313-326
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- Prescott MJ (2004) Reducing primate suffering through positive reinforcement training. *Primate Eye* 82, 14-15 [editorial]
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- Prescott MJ, Jennings M (2004) Ethical and welfare implications of the acquisition and transport of non-human primates for use in research and testing. *Alternatives to Laboratory Animals* 32 (S1A), 323-327
- Prescott MJ, Morton DB, Anderson D, Buckwell A, Heath S, Hubrecht R, Jennings M, Robb D, Ruane B, Swallow J, Thompson P (2004) Refining dog husbandry and care: Eighth report of the BVA(AWF)/FRAME/RSPCA/UFAW Joint Working Group on Refinement. *Laboratory Animals* 38 (S1), 1-94
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- Prescott MJ (2001) *Counting the Cost: Welfare Implications of the Supply and Transport of Non-Human Primates for Use in Research and Testing*. Horsham, West Sussex: RSPCA
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