

BRIAN TIPLADY

PhD in Neurochemistry

BA in Mathematics and Psychology

Clinical Research and Development: 28 years experience in the pharmaceutical Industry, and 13 years with clinical research service providers, including:

- ◆ Managing CNS clinical projects in depression
- ◆ Statistics and data management
- ◆ Electronic data capture methodology for patient diaries and questionnaires (ePRO)
- ◆ Psychometrics and measurement properties of patient-reported diaries and questionnaires
- ◆ CNS clinical pharmacology, particularly sedative drug effects on performance, and issues in the elderly

Neuroscience: Basic research in human behavioural pharmacology aimed at understanding the function of different receptor systems in the brain. Research on actions of alcohol, in particular error processing and inhibition.

Cognition: Development of lab-based, portable and internet based cognitive test systems for use in a wide variety of settings, including driver impairment and monitoring performance in a natural, everyday setting. Consultancy work with academic, commercial, and government organisations.

Publications: Over 60 papers in peer-reviewed journals; many other articles, abstracts etc.; together with Bill Byrom edited “ePRO: Electronic Solutions for Patient-Reported Data”, the first full-length book devoted to ePRO.



Brian Tiplady



Date of Birth: 27 July 1944

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Qualifications:

BA (Hons) Cambridge, Biochemistry (1st class), 1966.

PhD Imperial College London, Biochemistry, 1971.

BA Open (Hons with Distinction), 1993. Mathematics and Psychology.

Competencies

Clinical Project Management

Clinical trials: Design, monitoring and analysis

Statistics and SAS programming (including psychometric/measurement properties analysis)

Application Development in Java (including mobile phones and Android)

User Interface Design

Human Behavioural Pharmacology

Patient Reported Outcomes: Implementation and evaluation

Qualitative patient research and analysis

Ecological momentary Assessment

Present Positions:

1. Currently available for consultancy work.
2. Since 1980: Honorary Research Fellow, Dept of Anaesthesia, Critical Care and Pain Medicine, University of Edinburgh, UK
3. Since November 2013: Owner and Director, Mobile Cognition Ltd
 - Development and support of Penscreen cognitive testing application for Android tablets. This is a suite of tests designed to evaluate all major domains of cognitive and psychomotor function on a portable platform suitable for both field and laboratory investigations. Penscreen also includes facilities for custom administration of questionnaires and visual analogue scales.
 - Custom development of cognitive testing systems on a variety of platforms including feature phones, smartphones and internet. Implementation of ecological momentary assessment of cognitive function,
 - Advice on cognitive test selection, study design and interpretation of results; analysis and reporting of studies; project management.

Mobile Cognition Ltd continues work carried out by Brian Tiplady as an individual consultant. Work has been carried out for academic, commercial and government organisations, in the following areas

- Profiles of drug action, with particular reference to alcohol
- Assessment of driving-related skills
- Cognitive impact of clinical conditions
- Fatigue and cognition
- Cognitive effects of dietary supplements
- Methods development in human clinical pharmacology
- Use of the world-wide web and portable technology for surveys and cognitive testing in field and home/everyday settings.
- Cognitive test validation

Previous Positions:

2003 – 2012: Senior Clinical Scientist, invivodata inc. then October 2012 – April 2017: Senior Scientist, ERT Ltd, following the acquisition of invivodata by ERT.

Psychometric analysis, including evaluation of outcomes measures in terms of construct validity, reliability and consistency, factor structure, sensitivity to change, and determination of meaningful change/responder definition. See Kulich et al. (2015) and Gwaltney et al. (2015) for published examples.

Design, execution and analysis of equivalence studies, both comparing electronic instruments with paper, and tablets with IVR. See Tiplady et al. (2010); Elash et al. (2015) and Gwaltney et al. (2017) for published examples.

Qualitative research and usability analysis, including cognitive interviewing, assessments of patient acceptability of PRO/ePRO measures. See Tiplady 2010a, 2010b) and Elash et al. (2016) for published examples.

Strategic support for the collection of patient reported outcomes in clinical trials. This included work on patient reported outcomes methodology and application design both paper and electronic; conference presentations and journal publications; and development of standard operating procedures. Published examples include Shields et al. (2006) and Tiplady (2011,2012). See also Tiplady, B., "Diary design considerations: interface issues and patient acceptability". Chapter 8 in Byrom & Tiplady (2010).

1994-2003: Advanced Technology Projects Advisor, Astra/AstraZeneca UK Clinical Research Group, Edinburgh

Responsible for projects evaluating the introduction of new technology into the clinical trial process, and for assisting in their implementation. This involved the use of both pen-based devices and telephones (IVR) for direct entry of data by patients, and pen-based devices for on-site investigator data entry. Other developments included direct connection of external devices such as spirometers to electronic diaries, and the use of pen-based devices to carry out cognitive tests.

1983-1994: Head of Data Management and Statistics, Astra Clinical Research Unit, Edinburgh.

Management responsibility for a department consisting of 8 full-time staff members which was responsible for all aspects of Computing, Data Management, and Statistics within ACRU. I was also involved with human psychopharmacology research during this period, in particular volunteer studies of lignocaine, remoxipride, and enprofylline.

1976-83: Clinical Scientist, Astra Clinical Research Unit (ACRU), Edinburgh.

Responsible for the Central Nervous System research within ACRU. This consisted mostly of clinical projects on antidepressants, but also involved clinical work on schizophrenia and senile dementia, and human pharmacology (volunteer) studies.

1975-76: Visiting Scientist, Centre de Neurochimie, Strasbourg

Working on the enzyme tyrosine hydroxylase in mouse brain.

1973: Royal Society Exchange Fellow, Pavlov Institute of Physiology, Leningrad, USSR

Working on quantitative histochemistry of protein synthesis in rat brain.

1969-72 Research Associate, Brain Research Group, The Open University, Milton Keynes, UK

Working on protein metabolism in rat brain as influenced by environmental stressors.

Research in Human Psychopharmacology:

Throughout my career I have carried on academic research in human clinical pharmacology. This has involved collaboration with a number of centres including the University of Edinburgh; Bristol University, Keele University, King's College, London; University of Leeds; Northumbria University, University of Utrecht; Liverpool University; and the University of the West of England. It has also been the subject of a successful PhD project (D Fagan, University Edinburgh, 1991) as well as a series of undergraduate honours projects in both pharmacology and psychology (1995 to 2010).

Topics have included alcohol, particularly its effects on error processing and the speed-accuracy trade-off; effects of other sedative drugs; driving impairment; and recovery from anaesthesia. Current work with the University of Liverpool is exploring the role of response inhibition in alcohol addiction and relapse, using an ecological momentary assessment paradigm.

Member of:

British Association for Psychopharmacology

International Society for Pharmacoeconomics and Outcomes Research

Publications

Note: Abstracts and brief presentations are listed where no full length or refereed paper has been published that covers the topic, or where the presentation gives more detail of a specific area than the paper.

- Tiplady B (1970) The chemistry of memory. *New Scientist*, 25 June, 625-626
- Tiplady B, Rose SPR (1970) Amino acid incorporation into protein of neuronal and neuropil fractions in vitro. *Biochem J* 117:65P-
- Tiplady B, Rose SPR (1971) Amino acid incorporation into protein in neuronal cell body and neuropil fractions in vitro. *J Neurochem* 18:549-558
- Cohen, J., Hambley, J., Hashteroudian, J., Haywood, J., Pearce, L., Richardson, K., Rose, S., Sinha, A., Spears, D., & Tiplady, B. (1972) Military Sponsorship, *Nature*, 237: 469-470.
- Tiplady B (1972) Brain protein metabolism and environmental stimulation, effects of forced exercise. *Brain Res* 43:215-225
- Tiplady B, Sinha AK, Rose SPR (1973) Brain protein metabolism after forced exercise in vivo and in vitro. *Biochem Soc Trans* 1:184-185
- Tiplady B, Glushchenko TS, Pevzner LZ (1974) Influence of forced motor activity on RNA content of neurones and neuroglial cells of the brain and spinal cord. *Dokl Akad Nauk USSR* 214:973-976.
- Tiplady B, Glushchenko TS, Pevzner LZ (1974) Influence of forced motor activity on RNA content of neurones and neuroglial cells of the brain and spinal cord. *Trans Amer Soc Neurochem* 5:180
- Tiplady B, Killian JJ, Mandel P (1976) Tyrosine hydroxylase in various brain regions of three strains of mice differing in spontaneous activity, learning ability, and emotionality. *Life Sci* 18:1065-1070
- Tiplady B, Goodman M (1977) Primitive Haemoglobin. *J Mol Evol* 9:343-347
- Pevzner LZ, Tiplady B (Trans. Ed.) (1979) *Functional biochemistry of the neuroglia*. New York: Plenum
- Simpson RJ, Tiplady B, Skegg DCG (1980) Event recording in a clinical trial of a new medicine. *British Medical Journal* 280:1133-1134
- Loudon JB, Tiplady B (1981) Assessment of depression and the non-psychiatrist. In: Angrist B et al. (Eds) *Recent Advances in Neuropsychopharmacology. Selected papers from the 12th CINP Congress, Göteborg, June 1980*. Oxford: Pergamon. *Advances in the Biosciences* 31:101-110

- Simpson RJ, Lawton DJ, Watt MH, Tiplady B (1981) Effect of zimelidine, a new antidepressant, on body weight. *Br J Clin Pharmacol* 11:96-98
- Loudon JB, Tiplady B, Ashcroft GW, Waddell JL (1982) Zimelidine and amitriptyline in the treatment of depressive illness in general practice. *British Journal of Clinical Practice* S19:98-102
- Scott DB, Fagan D, Tiplady B (1982) Effects of Amitriptyline and zimelidine in combination with ethanol. *Psychopharmacology* 76:209-211
- Tiplady B (1982) Zimelidine - interactions with ethanol and other agents. *British Journal of Clinical Practice* S19:85-91
- Watson JM, Tiplady B (1982) A comparison of different dosage schedules of zimelidine in depressive disorders in general practice. *British Journal of Clinical Practice* S19:109-117
- Tiplady B, Elton RA, Loudon JB (1983) Coding and analysis of spontaneously reported symptoms in clinical trials. *Psychopharmacology Bulletin* 19:30-32
- Fagan D, Scott DB, Tiplady B (1984) A study of the effects of zimelidine on the pharmacokinetics and pharmacodynamics of temazepam in healthy volunteers. *Psychopharmacology* 82:252-255
- Tiplady B (1985) An automated test battery for the detection of changes in mental function and psychomotor performance. *Brit J Clin Pharmacol* 20:305P
- Fagan D, Tiplady B, Scott DB (1987) Effects of ethanol on psychomotor performance. *British Journal of Anaesthesia* 59:961-965
- Carlsson, A., Healy, D., & Tiplady, B. (1988) Neuropsychopharmacology: Gazing into the crystal ball, *Human Psychopharmacology*, 3: 217-226.
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- Swift CG, Swift MR, Tiplady B (1988) "First-dose" response to mianserin: effects of age. *Psychopharmacology* 96:273-276
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- Fagan D, Lamont M, Jostell K-G, Tiplady B, Scott DB (1990) A study of the psychometric effects of chlormethiazole in healthy young and elderly subjects. *Age and Ageing* 19:395-402

- Tiplady B, Fagan D, Lamont M, Brockway M, Scott DB (1990) A comparison of the CNS effects of enprofylline and theophylline in healthy subjects assessed by performance testing and subjective measures. *British Journal of Clinical Pharmacology* 30:55-61
- Armstrong PJ, Morrison LMM, Noble D, Sinclair WA, Tiplady B, Wildsmith JAW (1991) Effects of intravenous lignocaine on measures of psychological performance and subjective state in healthy volunteers. *British Journal of Anaesthesia* 67:532-538
- Fagan D, Scott DB, Mitchell M, Tiplady B (1991) Effects of remoxipride on measures of psychological performance in healthy volunteers. *psychopharmacology* 105:225-229
- Tiplady B (1991) Altered consciousness: pharmacology and phenomenology. Symposium summary from Summer Meeting of the British Association for Psychopharmacology, 21-24 July 1991, York. *Journal of Psychopharmacology* 5:440-441
- Tiplady B (1991) Alcohol as a comparator. In: Klepper ID, Sanders LD, Rosen M (Eds). *Ambulatory anaesthesia and sedation. Impairment and recovery.* Oxford: Blackwell, pp 26-37.
- Tiplady B (1991) Psychometric screening of new drugs. In Nimmo W, Tucker GT (Eds) *Clinical Measurement in Drug Evaluation.* London: Wolfe Medical, pp 57-71. :57-71
- Yu G, Maskray V, Jackson SHD, Swift CG, Tiplady B (1991) A comparison of the CNS effects of caffeine and theophylline in elderly subjects. *British Journal of Clinical Pharmacology* 32:341-345
- Tiplady B (1992) Continuous attention: rationale and discriminant validation of a test designed for use in psychopharmacology. *Behavior Research Methods, Instr, Comput* 24:16-21
- Tiplady B (1992) Reliability and sensitivity of performance tests in human psychopharmacology. A commentary on the articles by Parrott (1991) *Human Psychopharmacology* 6:1-9; 91-98; 197-207 *Human Psychopharmacology* 7:139-141
- Tiplady B, Sinclair WA, Morrison LMM (1992) Effects of nitrous oxide on psychological performance. *Psychopharmacology Bulletin* 28:207-211
- Tiplady B (1992) Development of a test battery for the measurement of changes in psychological performance. *British Journal of Clinical Pharmacology* 2:667P-668P
- Fagan D, Paul DL, Tiplady B, Scott DB (1994) A dose-response study of the effects of inhaled nitrous oxide on psychological performance and mood. *Psychopharmacology* 116:333-338

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- Fagan D, Tiplady B, Scott DB (1994) Effects of ethanol on psychomotor performance under steady-state conditions. *Journal of Psychopharmacology* 8:75-80
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- Tiplady B (1994). Standardisation versus Innovation in Psychological Testing Presentation at IEEE meeting 18th May 1994
- Tiplady B (1994) The use of personal digital assistants in performance testing in psychopharmacology. *British Journal of Clinical Pharmacology* 37(5):523P
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- Tiplady B, Faineteau H, Loganathan A, Spiegelberg M, Taylor Z (1998) Effects of ethanol and temazepam on performance in memory and psychomotor tasks: A dose-response comparison. *Human Psychopharmacology* 13: 285-291
- Tseng H-M, Tiplady B, Macleod HA, Wright P (1998) Computer anxiety: a comparison of pen-based personal digital assistants, conventional computer, and paper assessment of mood and performance. *British Journal of Psychology* 89:599-610
- Bryant CA, Farmer A, Tiplady B, Keating J, Sherwood R, Swift CG, Jackson SHD (1998) Psychomotor performance: investigating the dose response relationship for caffeine and theophylline in elderly volunteers. *European Journal of Clinical Pharmacology* 58(4):309-313
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- Mackay, M., Tiplady, B., & Scholey, A. (2002) Interactions between alcohol and caffeine in relation to psychomotor speed and accuracy. *Human Psychopharmacology*, 17: 151-156.
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- Begg, A., Drummond, G., & Tiplady, B. (2003). Assessment of postsurgical recovery after discharge using a pen computer diary. *Anaesthesia*, 58: 1101-1105
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- Tiplady, B. (2004). The use of a mobile phone to administer a cognitive task. *Proceedings of the British Psychological Society*, 13: 25-25.
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- Tiplady, B. (2005), "The use of a mobile phone to administer visual analogue scales", Poster presented at the Psychobiology Section of the British Psychological Society, Low Wood, Windermere, UK, September 2005
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- Tiplady, B. & Campbell, L. M. (2008), "Use of interactive voice response (IVR) to collect daily patient diary data in a clinical trial of seasonal rhinitis", Poster presented at the International Society for Pharmacoeconomics and Outcomes Research, Toronto, May 2008
- Tiplady, B., Cairns, W., Sturdee, M., Oshinowo, B., & Thomson, J. (2008), "Use of a mobile phone to administer visual analogue scales (VAS)", Poster presented at the International Society for Pharmacoeconomics and Outcomes Research, Toronto, May 2008
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- Tiplady, B. (2008), "Visual Analogue Scales", Paper presented at the British Association for Psychopharmacology, Harrogate, July 2008
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