

CURRICULUM VITAE

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See also refereed international experts site, Intota: <http://www.intota.com/expert-consultant.asp?bioID=777929&perID=727493>

SUMMARY

- Phillip Reece is a consultant expert with over 30 years experience in the research and development of human pharmaceuticals
- Trained in organic chemistry at the University of Adelaide and medical chemistry at the Australian National University, Canberra
- Undertook clinical pharmacology research in antihypertensive and anticancer drugs at the Queen Elizabeth Hospital, an Adelaide University teaching hospital, for 12 years before joining Astra Pharmaceuticals, Sydney in 1987
- Appointed Associate Regional Director, Clinical Research, Parke-Davis, Sydney, Australia in 1988 and responsible for Phase I through Phase III clinical trials monitored trials to FDA standards in Australia, New Zealand, and SE Asia.
- Appointed Director of Clinical Pharmacology, Parke Davis, Ann Arbor, MI, USA in 1990 and responsible for Phase I trials of CNS drugs.
- Appointed Director of Research and Development in 1993 at Biota Holdings, one of Australia's leading biotechnology companies and founder of the influenza antiviral, zanamivir
- Since 2002 held several senior industry roles including CEO of Boron Molecular, a fine chemicals company, Chairman of Cryptopharma, an early stage biotechnology company developing new anti-inflammatory drugs, and non-executive Director of EnGeneIC, a privately held company developing a new vehicle for delivering anticancer drugs
- Acted as a consultant expert to lawyers engaged in one of Australia's largest commercial litigation cases. This involved communicating complex scientific issues to the legal team, assisting in the preparation of questions for expert witnesses, and preparing technical reports, chronologies and literature reviews for the case
- Consultant expert in the areas of pharmaceutical development, clinical trials, pharmacokinetics, pharmacodynamics and intellectual property matters to biotechnology companies, pharmaceutical companies and law firms
- 65 refereed scientific publications in the areas of human pharmacokinetics, clinical trials, respiratory antivirals particularly for influenza, anticancer drugs and antihypertensives; 3 book chapters on antihypertensives and an inventor on three published patents in the area of respiratory antivirals

EDUCATION

| | |
|-------------|---|
| 1973 –1975 | PhD, John Curtin School, ANU, Canberra – Medical Chemistry |
| 1972 | BSc (Hons), University of Adelaide– 1st Class Honours – Organic Chemistry |
| 1969 – 1971 | BSc, University of Adelaide – Organic Chemistry & Biochemistry |

CAREER**Current**

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| May 03 –present | Consultant to the biotechnology industry |
| Dec 03 – present | Senior Fellow (Honorary), Department of Pharmacology, University of Melbourne, Melbourne |

Previous

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| Feb 04 – Nov 08 | Consultant Project Manager to Biota Holdings, Melbourne |
| Dec 03 – Apr 08 | Non-executive Chairman, Cryptopharma Pty Ltd, Melbourne |
| Mar 02 – May 03 | CEO and Managing Director, Boron Molecular Ltd, Melbourne |
| Dec 01 – Mar 02 | General Manager, Australian Operations, Biota Holdings, Melbourne |
| May 01 – Mar 02 | Non-executive Director, Biota Inc, Carlsbad, CA, USA |
| Dec 00 – Feb 09 | Non-executive Director, EnGeneIC Pty Ltd, Sydney |
| July 94 –May 95 | Acting CEO, Biota Holdings, Melbourne |
| Oct 93 – Dec 01 | Director, Research and Development, Biota Holdings, Melbourne |
| Aug 90 – Sep 93 | Director, Clinical Pharmacology, Parke Davis Ltd, Ann Arbor MI, USA |
| Sep 98 – Aug 90 | Associate Regional Director, Clinical Research, Parke Davis, Sydney |
| Sep 87 – Sep 88 | Clinical Trials Manager, Astra Pharmaceuticals, Sydney |
| Jan 86 – Sep 87 | External Drug Evaluator for the Australian Department of Health, Canberra |
| Feb 83 – Sep 87 | Chief Hospital Scientist, The Queen Elizabeth Hospital, Adelaide |
| Dec 75 – Feb 83 | Principal Hospital Scientist, The Queen Elizabeth Hospital, Adelaide |

KEY AWARDS

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| 1983 | Churchill Fellowship, Anticancer drugs, Mayo Clinic, USA |
| 1985 | International Cancer Research Technology Transfer, Institute of Cancer Research, Belmont, Sutton, Surrey, UK |

PROFESSIONAL ASSOCIATIONS

Royal Australian Chemical Institute

Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists

DETAILS OF MOST RECENT POSITIONS**Biota Holdings – Project Manager – Feb 04 to Aug 08**

- Acted as a consultant expert to lawyers engaged in one of Australia's largest commercial litigation cases.
- Involved communicating complex scientific issues to the legal team, assisting in the preparation of questions for expert witnesses, and preparing technical reports, chronologies and literature reviews for the case

Cryptopharma – Chairman – Dec 03 to Apr 08

- Chaired Board meetings as an independent, non-executive Director
- Participated in Scientific Advisory Board meetings during the initial years of the Company
- Intellectual property rights have since been returned to the University of Melbourne

Boron Molecular - CEO & Managing Director - Mar 02 to May 03

- Overall responsibility for the management of the Company
- Stabilized the business & recruited management team
- Raised \$1.9M through a private placement
- Wrote new business plan for redirection of corporate strategy
- Prepared prospectus for a public offering (Boron Molecular is now a subsidiary of XCEED)
- Grew revenues in 1st three quarters of 2002/3 by >100% compared with same period in 2001/2

- Attained near breakeven
- Established systems and quality control procedures

Biota Holdings – Director R&D - Sep 93 to Feb 02

- Responsible for all research and development activities of the Company
- Initiated and completed development of the flu diagnostic, FLUOIA®, for international marketing
- Built R&D team as inaugural R&D Director
- Established laboratory facilities
- Managed R&D relationship with GSK on Relenza®
- Screened opportunities for Biota's US-based operations
- Diversified Biota's R&D portfolio

Parke-Davis (Ann Arbor, MI, USA) – Director, Clinical Pharmacology – Sep 90 to Sep 93

- Managed transition of new pharmaceuticals for CNS diseases from pre-clinical to Phase I and Phase IIA clinical studies
- Managed staff involved in Phase I and IIA CNS studies
- Prepared clinical pharmacology reports for IND and NDA applications
- Reviewed pre-clinical data for suitability for IND applications and Phase I studies in CNS
- Attended all research and team meetings in the CNS preclinical and clinical area

Parke-Davis (Sydney, Australia) – Associate Regional Director, Clinical Research, Sep 88 to Aug 90

- Responsible for Phase I through Phase III clinical trials conducted in centres in Australia, New Zealand, and SE Asia
- Reported directly to head office
- Monitored clinical trials to FDA standards for gabapentin, quinapril and an anticancer drug developed in Auckland, New Zealand.

REFEREED PUBLICATIONS AND BOOK CHAPTERS (Excludes Abstracts)

1. **Reece PA.** Zanamivir for the treatment of human influenza A (H5N1) infections. Review submitted to Postgraduate Medicine, July 2010.
2. **Reece PA.** Zanamivir for the treatment of avian influenza (H5N1) infections in humans. *Expert Rev Clin Pharmacol* 3(1):25-29 (2010).
3. **Reece PA.** Neuraminidase inhibitor resistance in influenza viruses. *J Med Virol.* 2007 Aug 17;79 (10):1577-1586.
4. Barnard DL, Hubbard VD, Smee DF, Sidwell RW, Watson KG, Tucker SP, **Reece PA.** In vitro activity of expanded-spectrum pyridazinyl oxime ethers related to pirodavir: novel capsid-binding inhibitors with potent antipicornavirus activity. *Antimicrob Agents Chemother.* 2004 May;48(5):1766-72.
5. Macdonald SJ, Watson KG, Cameron R, Chalmers DK, Demaine DA, Fenton RJ, Gower D, Hamblin JN, Hamilton S, Hart GJ, Inglis GG, Jin B, Jones HT, McConnell DB, Mason AM, Nguyen V, Owens IJ, Parry N, **Reece PA,** Shanahan SE, Smith D, Wu WY, Tucker SP. Potent and long-acting dimeric inhibitors of influenza virus neuraminidase are effective at a once-weekly dosing regimen. *Antimicrob Agents Chemother.* 2004 Dec;48(12):4542-9.
6. McKimm-Breschkin JL, Colman PM, Jin B, Krippner GY, McDonald M, **Reece PA,** Tucker SP, Waddington L, Watson KG, Wu WY. Tethered neuraminidase inhibitors that bind an influenza virus: A first step towards a diagnostic method for influenza. *Angew Chem Int Ed Engl* 42(27):3118-3121 (2003)
7. Watson KG, Brown RN, Cameron R, Chalmers DK, Hamilton S, Jin B, Krippner GY, Luttick A, McConnell DB, **Reece PA,** Ryan J, Stanislawski P, Tucker SP, Wu WY, Barnard DL, Sidwell RW. An orally bioavailable oxime ether capsid binder with potent activity against human rhinovirus. *J Med Chem* 46(15):3181-3184 (2003)
8. Begg EJ, Robson RA, Gardiner SJ, Hudson LJ, **Reece PA,** Olson SC, Sedman AJ. Quinapril and its metabolite quinaprilat in human milk. *Br J Clin Pharmacol* 51(5):478-481 (2001)
9. Allen E, Tsanaclis LM, Wroe SJ, **Reece PA,** Sedman AJ. Gabapentin does not affect antipyrine clearance. *J Clin Pharmacol* 39:934-935 (1999)
10. Fergie ST, **Reece PA,** Sedman AJ, deVries TM. Inhibition of tacrine oral clearance by cimetidine. *Clin Pharmacol Ther* 59(4):444-449 (1996)
11. Sramek, JJ, Sedman AJ, **Reece PA,** Hourani J, Bockbrader H, Cutler NR. Safety and tolerability of CI-979 in patients with Alzheimer's disease. *Life Sciences* 57(5):503-510 (1995)
12. Bradwejn J, Koszycki D, Paradis M, **Reece P,** Hinton J, Sedman A. Effect of CI-988 on cholecystokinin tetra-peptide induced panic symptoms in healthy volunteers. *Biol Psychiatry* 38(11):742-746 (1995)
13. **Reece PA,** Garnett WR, Rock WL, Taylor JR, Underwood B, Sedman AJ, Rajagopalan R. Lack of effect of tacrine administration on the anticoagulant activity of warfarin. *J Clin Pharmacol* 35:526-528 (1995)

14. Blum RA; Comstock TJ; Sica DA; Schultz RW; Keller E; Reetze P; Bockbrader H; Tuerck D; Busch JA; **Reece PA**; et al. Pharmacokinetics of gabapentin in subjects with various degrees of renal function. *Clin Pharmacol Ther* 56(2):154-159 (1994)
15. **Reece PA**, Sedman AJ, Rose S, Wright DS, Dawkins R. Diuretic effects, pharmacokinetics, and safety of a new centrally acting kappa-opioid agonist (CI-977) in humans. *J Clin Pharmacol* 34(11):1126-1132 (1994)
16. Begg EJ, Robson RA, Ikram H, Richards AM, Bammert-Adams JA, Olson SC, Posvar EL, **Reece PA**, Sedman AJ. The pharmacokinetics of quinapril and quinaprilat in patients with congestive heart failure. *Br J clin Pharmacol* 37:302-304 (1994)
17. Davis R, Raby C, Callahan MJ, Lipinski W, Schwarz R, Dudley D, Lauffer D, **Reece PA**, Jaen J, Teclé H. Subtype selective muscarinic agonists: potential therapeutic agents for Alzheimer's disease. *Progress in Brain Research* 98:439-445 (1993)
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27. Powis G, **Reece PA**, Ahmann DL and Ingle JN. Effect of body weight on the pharmacokinetics of cyclophosphamide in breast cancer patients. *Cancer Chemother Pharmacol* 20:219-222 (1987).
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34. **Reece PA**, Stafford I, Russell J and Gill PG. Reduced ability to clear ultrafilterable platinum with repeated courses of cisplatin to patients. *J Clin Oncol* 4:1392-1398 (1986).
35. **Reece PA**, Stafford I, Russell J, Khan M and Gill PG. Creatinine clearance as a predictor of ultrafilterable platinum disposition in cancer patients treated with cisplatin. Relationship between peak ultrafilterable platinum plasma levels and nephrotoxicity. *J Clin Oncol* 5:304-309 (1986).
36. **Reece PA**, Kotasek D, Morris RG, Dale BM and Sage RE. The effect of food on oral melphalan absorption. *Cancer Chemother Pharmacol* 16:194-197 (1985).
37. **Reece PA**, Cozamanis I, Russell J and Gill PG. Nonlinear renal clearance of ultrafilterable platinum in patients treated with cisplatin. *Cancer Chemother Pharmacol* 15:295-299 (1985).
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41. **Reece PA**, McCall JT, Powis G and Richardson RL. Sensitive high performance liquid chromatographic assay for platinum in plasma ultrafiltrate. *J Chromatogr* 306:417-423 (1984).
42. Morris RM and **Reece PA**. Sensitive gas liquid chromatographic-nitrogen detection assay for fenfluramine and nor-fenfluramine in human plasma. *J Chromatogr* 278:434-438 (1983).
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51. Armarego WLF and **Reece PA**. Quinazolines, XXV. The synthesis of 2-(4-(2-furoyl)piperazin-1-yl)-8-chloro-6,7-dimethoxyquinazolin-4-ylamine hydrochloride (8-chloroprazosin hydrochloride). *Aust J Chem* 34:1561-1566 (1981).
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53. Lane MJ, **Reece PA** and Schapel GJ. Excessive frequency of phenytoin dosage. *Med J Aust* 1:191-192 (1981) (Letter).
54. **Reece PA**, Cozamanis I and Zacest R. Selective HPLC assays for hydralazine and its metabolites in plasma of man. *J Chromatogr* 181:427-440 (1980).
55. **Reece PA** and Stanley PE. High performance liquid chromatographic assay for tocainide in human plasma : comparison with gas-liquid chromatography. *J Chromatogr* 183:109-114 (1980).

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57. **Reece PA**. Quantification of prazosin in plasma by high performance liquid chromatography and fluorescence detection. *J Chromatogr* 221:188-192 (1980).
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63. Armarego WLF and **Reece PA**. Purine Studies Part XX. The methylation and reduction of 2,8-dioxo-2,8-diamino- and 2-amino-8-oxo-purines and the stereochemistry of their 1,4,5,6-tetrahydroderivatives. *J C S Perk I*:1414-1424 (1976).
64. Prager R and **Reece PA**. On the alkylation of alpha-bromo ketones by trialkylboranes. *Aust J Chem* 28:1775-1783 (1975)
65. Armarego WLF and **Reece PA**. Two facile C4-N9 bond cleavages in purines and the methylation of 2,3,7,8-tetrahydro-2,8-dioxopurine. *Tet Letters*, No. 6:423-424 (1975).
66. Armarego WLF and **Reece PA**. Quinazolines. Part XXI. Synthesis of cis-2-amino-8a-carboxymethyl-3,4,4a,5,5a,7,8,8a-octahydro-quinazolines. Conversion of perhydroquinazolin-2-ones into 2-amino-3,4,4a,5,6,7,8,8a-octahydroquinazolines. *J C S Perk I*:1470-1474 (1975).
67. Armarego WLF and **Reece PA**. Quinazolines. Part XX. Synthesis and stereochemistry of N-methyl cis-perhydroquinazolin-2-ones; a new conformation for cisperhydroquinazolines. *J C S Perk I*:2313-2319 (1974).

ABSTRACTS

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3. Cutler N R; Sramek J J; Seifert R D; Hourani J; Reece P A; Bockbrader H; Sedman A J. Safety and tolerance of the muscarinic agonist CI-979. *Clinical Pharmacology & Therapeutics* 55 (2): 174 (1994).
4. De Vries T M; Siedlik P; Smithers J A; Brown R R; Reece P A; Posvar E L; Sedman A J; Koup J R; Fogue S T. Effect of multiple-dose tacrine administration on single-dose pharmacokinetics of digoxin, diazepam, and theophylline. *Pharmaceutical Research (New York)* 10 (10 SUPPL.): S333 (1993)
5. De Vries T M; O'Connor-Semmes R L; Guttendorf R J; Reece P A; Posvar E L; Sedman A J; Koup J R; Fogue S T. Effect of cimetidine and low-dose quinidine on tacrine pharmacokinetics in humans. *Pharmaceutical Research (New York)* 10 (10 SUPPLY.): S337 (1993).
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9. Reece PA, Bockbrader H, Sedman AJ. Safety, pharmacodynamics, and pharmacokinetics of a new muscarinic agonist, CI-979. *Clin Exp Pharmacol Physiol* 21:58 (1992)
10. Olver IN, Reece PA, Morris RG, Bishop JF, Guentert TW, Hill HS, and Hillcoat BL. Phase I pharmacokinetic study of doxifluridine given by five-day stepped dose infusion. *Invest New Drugs* 7:379 (1989).
11. Reece PA, Stafford I, Freeman S, Gill PG, Davy M, Abbott RL, Olweny CLM and Denham J. Creatinine clearance as a predictor of the disposition of the anticancer drug, cisplatin in patients with cancer. Xth International Congress of Pharmacology, Sydney, August (1987).
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