

# Benjamin James Capps

B.Sc. (Honours) Cardiff University MA University of Sheffield Ph.D. University of Bristol

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## Department of Bioethics

### Faculty of Medicine, Dalhousie University

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## (1) PRESENT EMPLOYMENT

**August 2014 -**

**Associate Professor**

**Present**

**Department of Bioethics**

Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada

Chair of Human Genome Organisation (HUGO) Committee on Ethics, Law and Society (CELS)

Member of Centre for Genomics Enhanced Medicine, Dalhousie University

Unit Head: Professional Competencies in MED1 (Longitudinal teaching unit, Fac Medicine)

Component Head: Professional Competencies during Foundations; MED1 (Teaching programme, Fac Medicine)

Member, Dalhousie Faculty of Medicine Med1 & 2 Committee (standing, curriculum review)

Member, Dalhousie Faculty of Medicine Professionalism Committee

Member, Dalhousie University Faculty of Graduate Studies

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## (2) PREVIOUS EMPLOYMENT

**1<sup>st</sup> April 2008 -**

**Assistant Professor**

**8<sup>th</sup> August 2014**

**Centre for Biomedical Ethics**

Yong Loo Lin School of Medicine, National University of Singapore, Singapore

Director of Graduate Studies

**1<sup>st</sup> October 2006 -**

**Research Associate (Ethics in Medicine)**

**1<sup>st</sup> January 2008**

Centre for Ethics in Medicine, University of Bristol, UK

**1<sup>st</sup> September 2004 -**

**Wellcome Trust Postdoctoral Research Fellow**

**31<sup>st</sup> September 2006**

Centre for Ethics in Medicine, University of Bristol, UK

*“Stem Cell Therapy and ‘Procedural Ethics’: Proposals for a Harmonised Policy within the European Union”*

**1<sup>st</sup> October 2003 -**

**Research Associate (Ethics in Medicine)**

**31<sup>st</sup> June 2004**

Centre for Ethics in Medicine, University of Bristol, UK

Degree Director: BSc. in Bioethics; Intercalating Degree

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## (3) POSITIONS OF DISTINCTION

**2010-2014**

**Honorary Associate Member**

ESRC Centre for Economic and Social Aspects of Genomics (Cesagen), Cardiff University, UK

**2007-2008**

**Honorary Research Fellow**

Centre for Ethics in Medicine, University of Bristol, UK

**(4) MEMBERSHIP****Chair, Human Genome Organisation (HUGO) Committee on Ethics, Law and Society (CELS)**

**Appointed Chair in March 2018**; Interim Chair: Feb 2017; Vice Chair: January 2016. Appointed member: January 2012-present.

**Belris: Bioethics and Legal Research in Singapore.** Joint Director (independent philanthropic thinktank). June 2014-November 2016.

**Neuroethics Working Group, Bioethics Advisory Committee.** Singapore. Appointed Member. 26<sup>th</sup> August 2011-1<sup>st</sup> August 2014.

**Pro-Tem National Oversight Committee for Human-Animal Combinations in Stem Cell Research.** Ministry of Health, Singapore. Appointed member, 1<sup>st</sup> March 2011-29<sup>th</sup> February 2012.

**Royal United Hospital Trust (City of Bath, UK) Clinical Ethics Committee.** Member, 2003-2008.

**(5) EDUCATION**

**2<sup>nd</sup> October 2000 -  
31<sup>st</sup> Sept 2003**

**Ph.D. (Medicine)**

Centre for Ethics in Medicine, Bristol Medical School, University of Bristol, UK

*'UK and European Policy in Stem Cell Research: Proposals for the Ethical Grounding of Future Regulation'*

Funded by the *Wellcome Trust's Biomedical Ethics Programme*

Submitted November 2003; *Viva voce* January 2004; **awarded 1<sup>st</sup> March 2004.** [Available](#)

**30<sup>th</sup> Sept 1996 -  
29<sup>th</sup> Sept 1997**

**MA in Biotechnological Law and Ethics**

School of Law, University of Sheffield, UK

**6<sup>th</sup> October 1993 -  
30<sup>th</sup> June 1996**

**B.Sc. (Honours) Genetics**

Cardiff School of Biosciences, Cardiff University, UK

Second class, upper division degree (2:1)

**(6) RESEARCH****(i.) Research Visits**

**18<sup>th</sup>-30<sup>th</sup>  
March 2015**

**Visiting Fellow**

Centre for Biomedical Ethics, National University of Singapore

Sponsored by MoH Grant on One Health (see below), Centre for Biomedical Ethics, NUS.

**13<sup>th</sup> June -  
8<sup>th</sup> July 2011**

**Overseas Visiting Fellow**

The Hastings Center, Garrison, New York, USA

Sponsored by the Capacity Development in Biomedical Ethics Programme, Centre for Biomedical Ethics, NUS, Singapore.

**19<sup>th</sup>-28<sup>th</sup>  
July 2008**

**Research Fellow**

School of Population Health, University of Queensland, Australia

**7<sup>th</sup> January -  
15<sup>th</sup> February 2008**

**Visiting Fellow**

Centre for Biomedical Ethics, National University of Singapore

**27<sup>th</sup> January -  
30<sup>th</sup> April 2007**

**Visiting Fellow (secondment)**

Centre for Biomedical Ethics, National University of Singapore

**28<sup>th</sup> April -  
3<sup>rd</sup> June 2005**

**Overseas Visiting Fellow**

The Hastings Center, Garrison, New York, USA

**(ii.) Publications****Edited Books**

Capps, B. and Campbell, AV. eds. 2010. *Contested Cells: Global Perspectives on the Stem Cell Debate*. London. Imperial College Press. ISBN: 978-1-84816-437-6; 1-84816-437-8. pp. 486.

**Monographs**

Carter, A., Capps, B. and Hall, W. (lead authors and editorial group; with contributions from R. Ashcroft, R. ter Meulen & D. Nutt). 2009. *Addiction Neurobiology: Ethical and Social Implications*. European Monitoring Centre on Drugs and Drug Addiction Monographs: Number Nine. EMCDDA, Lisbon; & Office for Official Publications of the European Communities, Luxembourg. ISBN: 978-92-9168-347-5. pp. 184.

*Concluding deliverable of EMCDDA project (see below: Research Grants, 2006). Capps was PI for the project, the editorial group were the primary researchers, and contributors were named collaborators. For the monograph, the editorial group were allocated chapters to lead and had overall responsibility for the final manuscript text.*

**Refereed Journals**

1. Capps, B. [2020 'First View']. Where does Open Science Lead Us During a Pandemic? A Public Good Argument to Prioritise Rights in the Open Commons. *Cambridge Quarterly of Healthcare Ethics* 30(1) [2021]; 1-14; doi:10.1017/S0963180120000456
2. Lederman, Z. and Capps, B. 2020. One Health Ethics: A Response to Pragmatism. *Journal of Medical Ethics* doi:10.1136/medethics-2019-105859.
3. Capps, B., Van de Eijk, Y., and Krahn, T. 2020. Conflicts of Interest in E-Cigarette Research: A Public Good and Public Interest Perspective. *Bioethics* 34(1): 114-122.
4. Capps, B. 2019 Gene Drive Gone Wild: Exploring Deliberative Possibilities by Developing One Health Ethics. *Law, Innovation and Technology* 11(2): 231-256.
5. Capps, B., Chadwick, R., Joly, Y., Lysaght, T., Mills, C., Mulvihill, J. and Zwart, H. 2019. Statement on Bioinformatics and Capturing the Benefits of Genome Sequencing for Society. *Human Genomics* 12: 24.
6. Moreno, P., Capps, B. et al.\* 2019. Open-Science Precision Medicine in Canada: Points to Consider. *FACETS*. 4: 1-19. doi: 10.1139/facets-2018-0034; \*23 authors listed on paper.
7. Lederman, Z. & Capps, B. 2018. Expanding a Shared Benefit Approach in One Health Research. *American Journal of Bioethics* 18(10): 47-49.
8. Capps, B., Mulvihill, J., Joly, Y., and Lysaght, T., and the HUGO Committee on Ethics, Law and Society. 2018. Open Peer Commentary: The View of CRISPR Patents through the Lens of Solidarity and the Public Good. *American Journal of Bioethics* 18(12): 54-56.
9. Wolpe, P., Rommelfanger, K. & the Drafting and Review Delegates of the BEINGS Working Groups\*. 2017. Ethical Principles for the Use of Human Cellular Biotechnologies. *Nature Biotechnology* 35: 1050-1058. \*Capps is one of 62 named authors who contributed to the text, reviewed and provided revisions as members of the project: *Beings 2015: Biotech and the Ethical Imagination – A Global Summit*.
10. Capps, B., Chadwick, R., Joly, Y., Mulvihill, J., Lysaght, L. and Zwart, H. 2017. Falling Giants and the Rise of Gene Editing: Ethics, Private Interests and the Public Good. *Human Genomics* 11:20; DOI 10.1186/s40246-017-0116-4.
11. Mackley, M. and Capps, B. 2017. Expect the Unexpected: Screening for Secondary Findings in Clinical Genomics Research. *British Medical Bulletin* 122(1): 109-122.
12. Capps, B. 2017. Do Chimeras Have Minds? The Ethics of Clinical Research on a Human-Animal Brain Model. *Cambridge Quarterly of Healthcare Ethics – Special Edition on Clinical Neuroethics* 26(4): 577-591.

13. Lysaght, T, Capps, B., Bailey, M., Bickford, D., Coker, R., Lederman, Z., Watson, S. and Tambyah, P. 2017. Justice is the Missing Link in One Health: Results of a Mixed Methods Study in an Urban City State. *PLoS ONE* 12(1): e0170967.
14. Mulvihill, J. Capps, B., Joly, J. Lysaght, T., Zwart, H. and Chadwick, R. The International Human Genome Organisation (HUGO) Committee of Ethics, Law, and Society (CELS). 2017. Ethical Issues of CRISPR Technology and Gene Editing through the Lens of Solidarity. *British Medical Bulletin* 122(1): 109-122.
15. Lysaght, T., Kerridge, I., Sipp, D., Porter, G and Capps, B. 2017. Ethical and Regulatory Challenges with Autologous Adult Stem Cells: A Comparative Review of International Regulations. *Journal of Bioethical Inquiry* doi: 10.1007/s11673-017-9776-y
16. Capps, B. and Lederman, Z. 2016. Responding to a Public Health Objection to Vaccinating Great Apes. *Journal of Agriculture and Environmental Ethics* 29(5): 883-895.
17. Capps, B. 2016. The Funding of Medical Research by Industry: Can a Good Tree bring Forth Evil Fruit? *British Medical Bulletin* 118(1): 5-15.
18. Thong, I., Foo, M., Sum, M., Capps, B., Lee, T., Ho, C. and Sim, K. 2016. Therapeutic Misconception in Psychiatry Research: A Systematic Review. *Clinical Psychopharmacology and Neuroscience* 14(1): 17-25.
19. Capps, B. 2015. Models of Biobanks and Implications for Reproductive Health Innovation. *Monash Bioethics Review* 33(4), 238-257.
20. Capps, B. and Lederman, Z. 2015. One Health, Vaccines and Ebola: The Opportunities for Shared Benefits. *Journal of Agriculture and Environmental Ethics* 28(6): 1011-1032.
21. Capps, B., Bailey, M., Bickford, D., Coker, R., Lederman, Z., Lover, A., Lysaght, T., and Tambyah, P. 2015. Introducing One Health to the Ethical Debate about Zoonotic Diseases in South East Asia. *Bioethics* 29(8): 588–596.
22. Capps, B. and Lederman, Z. 2015. One Health and Paradigms of Public Biobanking. *Journal of Medical Ethics* 41(3): 258-262.
23. Capps, B. and Van Der Ejjik, Y. 2014. The Tobacco Industry, Researchers, and Ethical Access to UK Biobank: Using the Public Interest and Public Good. *American Journal of Public Health* 104(10): 1833-1839.
24. Khan, A., Capps, B., Sum, M.Y., Kuswanto, C.N. and Sim, K. 2014. Informed Consent for Human Genetic and Genomic Studies: A Systematic Review. *Clinical Genetics* 86(3): 199–206.
25. Capps, B. 2014. A Critical Commentary on Derek Morgan’s Unpublished Manuscript: “Coming Back to Life: The Normal Chaos of Medical Law” and How to Deal with Property in Human Cells. *Medical Law Review* 22(4): 606-619.
26. Capps, B. 2013. Regulating Induced Pluripotent Stem Cells Ethically in the Bio-Economy: A Preliminary Enquiry. *Biomedical Law and Ethics* 7(1): 1-45 (South Korea). *Republished in Asian Bioethics Review* 2014 6(3): 208-233.
27. Capps, B. and Ch'ng Jun-Hong. 2013. Conducting Malaria Research in Developing Countries: A Right to Claim Healthcare. *Asian Bioethics Review* 5(4): 296-315.
28. Lysaght, T, Kerridge, I., Sipp, D., Porter, G. and Capps, B. 2013. Oversight for Clinical Uses of Autologous Adult Stem Cells: Lessons from International Regulations. *Cell Stem Cell* 13(6): 647-651.
29. Lysaght, T, Kerridge, I., Sipp, D., Porter, G. and Capps, B. 2013. Global Bionetworks and Challenges in Regulating Autologous Adult Stem Cells. *American Journal of Medicine* 126(11): 941-943.
30. Capps, B. 2013. Defining Variables of Access to UK Biobank: The Public Interest and the Public Good. *Law, Innovation and Technology* 5(1): 113-139.
31. Capps, B. and Lysaght, T. 2013. Challenging the Production of Vaccines for a Future Influenza Pandemic. *Asian Bioethics Review* 5(2): 110-130.

32. Capps, B., Nielsen, L. and Stirrat, G. 2012. A Brief Critique of Two Claims about the Social Value of Biotechnological Enhancements. *Asian Bioethics Review* 4(4): 259-271.
33. Ahmad, A., Lysaght, T., Liu, J., Subramaniam, M., Tan S.B. and Capps, B. 2012. Understanding Risk: Psychosis and Genomics Research in Singapore. *Genomics, Society and Policy* 8(2): 15-28 (*Life Sciences, Society and Policy* under Springer Science & Business Media from 2013).
34. Rekhi, G., Capps, B., Lysaght, T. and Chong, S.A. 2012. Reappraising Consent: Conducting Ethical Psychiatric Research in Singapore. *Journal of Law and Medicine* 20: 152-164.
35. Capps, B. 2012. The Public Interest, Public Goods, and Third Party Access to UK Biobank. *Public Health Ethics* 5(3): 240-251.
36. Lysaght, T. and Capps, B. 2012. Public Discourses of Stem Cell Science in Singapore (1997–2010). *New Genetics and Society* 31(4): 342-358.
37. Lysaght, T., Capps, B., Subramaniam, M. and Chong, SA. 2011. Translational and Clinical Research in Singapore: Ethical Issues in a Longitudinal Study of the Prodromal Phase of Schizophrenia. *Early Intervention in Psychiatry* 6: 3-10.
38. Lysaght, T., Capps, B., Campbell, A.V., Subramaniam, M. and Chong, SA. 2011. Intervening in Clinical Research to Prevent the Onset of Psychoses: Conflicts and Obligations. *Journal of Medical Ethics* 38: 319-321.
39. Capps, B. 2011. Libertarianism, Legitimation, and the Problems of Regulating Cognition-Enhancing Drugs. *Neuroethics* 4(2): 119-128.
40. Capps, B. and Carter, A. 2010. Standing at the Precipice: A Cautionary Note about Incremental Goods. *American Journal of Bioethics Neuroscience* 1(3): 46-48.
41. Capps, B. 2010. Enhancing Public Ethics: Libertarianism, Legitimation, and the Problems of Technology Regulation. *Asian Bioethics Review* 2(4): 273-287.
42. Ho, W.C., Capps, B., and Voo, T.C. 2010. Stem Cell Science and its Public: The Case of Singapore. *East Asian Science, Technology and Society: An International Journal* 4(1): 7-29.
43. Voo, T.C. and Capps, B. 2010. Influenza Pandemic and the Duties of Healthcare Professionals. *Singapore Medical Journal* 51(4): 275-280.
44. Chong, S.A., Capps, B., Subramaniam, M., Voo, T.C., and Campbell, A.V. 2010. Clinical Research in Times of Pandemics. *Public Health Ethics* 3(1): 35-38.
45. Carter, A., Capps, B. and Hall, W. 2008. Implicazioni etiche e politiche delle applicazioni della ricerca neurobiologica sulla dipendenze (Ethical and Political Implications of Addiction Neuroscience). *Medicina delle Tossicodipendenze* (Italian Journal of the Addictions) 16(60): 39-46.
46. Hall, W., Capps, B. and Carter, A. 2008. Editorial: The Use of Depot Naltrexone Under Legal Coercion: The Case for Caution. *Addiction* 103(12): 1922-1924.
47. Capps, B. 2008. Commentary: Balancing Ethical Research and Placebo Administration. *Journal of Psychopharmacology* 22(6): 600-602.
48. Capps, B. 2008. Authoritative Regulation and the Stem Cell Debate. *Bioethics* 22(1): 43-55.
49. Capps, B. and Campbell, AV. 2007. Why (only some) Compensation for Oocyte Donation for Research Makes Ethical Sense. *Journal of International Biotechnology Law* 4: 89-102.
50. Capps, B. 2006. Procedural Ethics and the European Stem Cell Debate. *Jahrbuch für Wissenschaft und Ethik* (Yearbook for Science and Ethics) 11: 41-66.
51. Capps, B. 2002. The European Union and Stem Cell Research: A Turnaround on Policy Regarding Human Embryo Research? *Legal Ethics* 5(1&2) (Spring): 18-23.

### Book Chapters

1. Capps, B. 2016. Public Goods in the Ethical Reconsideration of Research Innovation. In: Capps, P. and Pattinson, S. *Ethical Rationalism and the Law*. Oxford. Hart Publishing. pp. 149-169.

2. Capps, B., Van Der Eijk, Y. and Carter, A. 2014. Ethical Issues in the Treatment of Addiction. In: Clausen, J. and Levy, N. eds. *Handbook on Neuroethics*. Netherlands. Springer. pp. 1045-1063.
3. Capps, B. 2014. Redefining Property in Human Body Parts: An Ethical Enquiry in the Stem Cell Era. (Primary topic article.) In: Akabayashi, A. (ed), *The Future of Bioethics: International Dialogues*. Oxford. Oxford University Press. pp. 235-263.
4. Capps, B. 2014. Response to Commentaries: Does ‘Dignity in Property’ Tell Us Anything About Dignity and Bioethics. In: Akabayashi, A. (ed), *The Future of Bioethics: International Dialogues*. Oxford. Oxford University Press. pp. 278-283.
5. Capps, B. 2013. Privacy, Rights and Biomedical Data Collections. In Kaan, T. and Ho, C. eds. *Genetic Privacy in Singapore: Science, Ethics and Law*. Singapore. World Scientific. pp. 169-202.
6. Chong, S.A., Capps, B., Subramaniam, M., Voo, T.C., and Campbell, A.V. 2013. Clinical Research in Times of Pandemics. In Viens, A. ed. *Emergency Research Ethics; Volume IV. The Library of Essays on Emergency Ethics, Law and Policy*. Aldershot. Ashgate. pp. 301-304 (*reprint of Chong, et. al., above*).
7. Carter, A., Capps, B. and Hall, W. 2011. Emerging Neurobiological Treatments of Addiction: Ethical and Public Policy Considerations. In Carter, A., Hall, W. and Illes, J. eds. *Addiction Neuroethics: The Bioethics of Addiction Neuroscience Research and Treatment*. London. Elsevier. pp. 95-113.
8. Capps, B. and Campbell, A.V. 2011. Stem Cell Science and iPS cells: Fine-Tuning the Ethical Issues. In Bongso, A. and Eng, H. eds. *Stem Cells: From Bench to Bedside*. 2<sup>nd</sup> edition. Singapore. World Scientific. pp. 637-664.
9. Capps, B. and Campbell, A.V. 2010. Contested Cells: Global Perspectives on the Stem Cell Debate – A Critical Introduction. In Capps, B. and Campbell, A.V. eds. *Contested Cells: Global Perspectives on the Stem Cell Debate*. London. Imperial College Press. pp. 1-54.
10. Mackenney, J. and Capps, B. 2010. New Developments in Stem Cell Science: iPS Cells and the Challenge to Consent. In Capps, B. and Campbell, AV. eds. *Contested Cells: Global Perspectives on the Stem Cell Debate*. London. Imperial College Press. pp. 207-240.
11. Capps, B., Carter, A., Hall, W., Nutt, D., Ashcroft, R. and ter Meulen, R. 2010. Possibili Implicazioni dei Progressi della neurobiologia della dipendenza per le future politiche sulle droghe. In Serpelloni, G., Bricolo, F. and Gomma, M. eds. *Elementi di Neuroscienze e Dipendenze: Manuale per operatori dei Dipendenti della Dipendenza*. 2<sup>nd</sup> Edition. Department della Dipendenze, in collaboration with: Presidenza del Consiglio dei Ministri, Dipartimento Politiche Antidroga. Verona. pp. 251-254. (*Translated and published previously as Carter, A., Capps, B. and Hall, W. Addiction Neurobiology [monograph, above]... Chapter 6.*)
12. Capps, B. 2007. Bioethics, Procedural Ethics, and Misrepresentation in the Stem Cell Debate. In: Gunning, J. and Holm, S. eds. *Ethics, Law and Society, Volume 3*. Aldershot. Ashgate. pp. 25-38.
13. Ashcroft, R., Campbell, A.V. and Capps, B. 2007. Ethical Aspects of Developments in Neuroscience and Drug Addiction. In: Nutt, D., Robbins, T., Stimson, G., Ince, M., and Jackson, A. eds. *Drugs and the Future: Brain Science, Addiction and Society*. London. Elsevier Academic Press. pp. 439-465.
14. Capps, B. 2005. The Human Embryo, Stem Cell Research, and the European Union. In: Bender, W., Hauskeller, C. and Manzei A. eds. *Crossing Borders. Grenzüberschreitungen. Kulturelle, Religiöse und Politische Differenzen in Kontexte der Stammzellforschung Weltweit. Cultural, Religious, and Political Differences Concerning Stem Cell Research: A Global Approach*. Münster. Agenda Verlag. pp. 435-467.

### Encyclopaedia Entries

1. Capps, B. 2017 (published online: 2016). New Technologies: Ethics of Genomics. In: Quah, S. Ed.-in-Chief. *International Encyclopaedia of Public Health*; 2<sup>nd</sup> Edition. London. Elsevier. pp. 240-247.
2. Capps, B., Hall, W. and Carter, A. 2012. Addiction. In: Ruth Chadwick, ed. *Encyclopaedia of Applied Ethics*; 2<sup>nd</sup> Edition, Volume One. San Diego. Academic Press. pp. 22-30.

3. Ashcroft, R, Capps, B., and Huxtable, R. 2000 (published online: 2002). The Advisory and Regulatory Framework for Biotechnology in the UK (International Aspects: National Profiles, United Kingdom). In: *Encyclopaedia of Ethical, Legal and Policy Issues in Biotechnology*. Murray, T.H. and Mehlman, M.J. (Editors-in-Chief). (Wiley Biotechnology Encyclopaedias). New York. Wiley. pp. 747-761. (Online: doi:10.1002/0471250597.mur034).

### Reports and Working Papers

1. Capps, B., Watson, S., Lederman, Z. and Lysaght, T. 2017. *One Health, Zoonotic Diseases, and Pandemic Planning: Creating a Bioethics Framework in Singapore*. Submitted to Ministry of Health, Singapore.
2. Lysaght, T., Kerridge, I., Sipp, D., Porter, G. and Capps, B. 2015. *Ethical and Regulatory Challenges with Autologous Adult Stem Cells: A Comparative Review of International Regulations*. Asia Research Institute Working Paper Series No. 232. ARI. National University of Singapore. [Available](#).
3. Capps, B., Chadwick, R. (Chair), Chalmers, D., Clarke, A., Clayton, E.W., Liu, E. (President of HUGO, Co-chair), Lysaght, T., Mulvihill, J. and Winslett, M. Dated 2013, published online December 2014. *Imagined Futures: Capturing the Benefits of Genome Sequencing for Society*. Report prepared by the working group of the HUGO Committee on Ethics, Law and Society. pp. 62. [Available](#)
4. Members of Neuroethics Working Group, Bioethics Advisory Committee, Singapore. 2013. *Ethical, Legal and Social Issues in Neuroscience Research: A Consultation Paper*. 9<sup>th</sup> January. pp. 29. [Available](#)
5. Capps, B. (PI), Yun H.D. and Voo, T.C. 2013. *An Ethical Analysis of Human Egg Freezing Policies*. Report supported by Bioethics Legal Group for Reproductive Issues in Singapore (Belris). 1<sup>st</sup> July. pp. 57. (Report published as a Supplement to the *Asian Bioethics Review* in 2014.)
6. EPOCH Project Group, including Capps, B. 2012. Final Report Summary - EPOCH (Ethics in Public Policy Making: The Case of Human Enhancement); Project reference: 266660; Funded under: European Union/ European Commission FP7-SIS; [Available](#)
7. Carter, A., Hall, W. (PI), Capps, B., and Daghli, M. 2009. *Neurobiological Research on Addiction: A Review of the Scientific, Public Health and Social Policy Implications for Australia*. New South Wales Health & The Ministerial Council on Drugs Strategy (Ministerial Council on Drug Strategy – Cost Shared Funding Model project). 30<sup>th</sup> January. pp. 241. [Available](#)
8. Capps, B. (PI), Campbell, AV. and ter Meulen, R. 2008. *Access to the UK Biobank Resource: Concepts of the Public Interest and the Public Good*. Commissioned report for the Ethics and Governance Council of UK Biobank/Wellcome Trust. Submitted June 2007. pp. 32. [Available](#) Internationally Peer reviewed.
9. Capps, B. 2008. *Oocyte Procurement for Research: A Background Paper for the Bioethics Advisory Committee of Singapore*. Commissioned paper for the Bioethics Advisory Committee of Singapore. Submitted February 2007. pp. 25. Published online April 2007, [Available](#). Published as an Appendix to the BAC Report ‘*Donation of Human Eggs for Research*’; 3 November 2008.
10. Capps, B. and Campbell, AV. 2007. *Cloning Report: New Developments and Suggestions for IRB Handbook Material*. Internal report for the Bioethics Advisory Committee, Singapore. Submitted February 2007.
11. Ashcroft, R., Campbell, AV. and Capps, B. (PI). 2005. Ethical Aspects of Developments in Neuroscience and Drug Addiction (Chapter IV). *Foresight: Drug Futures 2025?* Brain Science, Addiction and Drugs Project. Department of Science and Technology: London. pp. 65. (Reprinted as book chapter: Ashcroft, Campbell & Capps. 2007, above.) Project [available](#) Internationally Peer reviewed.

### Edited Journal Editions

- Capps, B., ter Meulen, R. and Nielsen, L. (Guest eds.). December 2012, Special Edition of the *Asian Bioethics Review* 4(4). Includes an Editorial, and nine commissioned papers, previously presented

in one way or another, at the European Commission FP7 Science in Society funded project, *Ethics in Public Policy Making: The Case of Human Enhancement (EPOCH)*.

### **Scholarly Works not Peer Reviewed/Local Reviewed**

1. Capps, B. 2020. Letters: Chimeras and the Problem of Other Minds. *Hastings Center Report* January-February 50(1): 46.
2. Capps, B. 2013. Editorial: Treating Minors and the Duty to Disclose Information to Parents. *Asian Bioethics Review* 5(3): 255-261. (*Local reviewed.*)
3. Lim, E. W. L., Eun, J M. (NUS High School Students) and Capps, B. 2013. Neuroethics. In Lim, K-L., and Soong, T. W. (eds.) *The Brain Book 2*. Singapore. Department of Physiology, National University of Singapore. pp. 26-30. (*Local reviewed.*)
4. Capps, B. 2013. Book Review: *Ethics and Security Aspects of Infectious Disease Control: Interdisciplinary Perspectives* ed. by C. Enemark, M. Selgelid. *Asian Bioethics Review* 5(2): 162-168.
5. Capps, B., ter Meulen, R. and Nielsen, L. 2012. Editorial: Human Enhancement Technologies: Understanding Governance, Policies and Regulatory Structures in the Global Context. *Asian Bioethics Review* 4(4): 251-258.
6. Krishna, L. and Capps, B. 2011. Opioid Use at the End of Life: Working out the Physician's Intentions. *Indian Journal of Medical Ethics* VIII(1): 39-41. (*Local reviewed.*)
7. Capps, B. and Nutt, D. 2008. Cannabis and Psychosis: The Environment Trigger. *The Galton Institute News Letter* 69 (December): 1-8.
8. Capps, B. 2008. Book Review: *Consent in the Law*, by D. Beyleveld and R. Brownsword. *Legal Studies* 28(1): 149-153.
9. Capps, B., Ashcroft, R., Campbell, AV. 2005. Ethical Aspects of Neuroscience and Drug Addiction: Summary. In: *Foresight: Drug Futures 2025?* Office of Science and Technology. London. (*Local reviewed.*)
10. Capps, B. 2005. 'Bioethics and Misrepresentation in the Stem Cell Debate'. Invited paper published online by *Cardiff Centre for Ethics, Law and Society (CCELS)*. April 2005. (*Local reviewed.*)
11. Capps, B., Ashcroft, R. and Campbell, AV. 2004. *Foresight Brain Science, Addiction & Drugs Project: Background Note on the Underlying Science: Ethical Issues*. Office of Science and Technology. London. (*International reviewed.*)
12. Capps, B. 2002. 'The Use of Stem Cells: View of the European Board of the Royal College of Obstetrics and Gynaecology: Comments from Ethics Committee to President'. Invited advisory contribution for the European Board and Royal College of Obstetrics and Gynaecology. Brussels. Unpublished (Committee reported 2003).
13. Capps, B. 2000. 'Transplantation from Anencephalic Newborns: The Legal and Ethical Position in the UK'. Internal invited paper for the Directorate of Obstetrics, Gynaecology & ENT; St Michael's Hospital, United Bristol Health Care NHS Trust, Bristol. Unpublished.

### **(iii.) Presentations, Papers, Meetings and Interviews**

#### **Invited and Keynote Papers**

1. 2018. Invited speaker. 'Gene Drives, Ethics, and Public Engagement.' Centre for Genomics Enhanced Medicine. Halifax, Canada. November 14<sup>th</sup>.
2. 2015. Invited speaker. 'Public Goods in the Ethical Reconsideration of Research Innovation'. Ethical Rationalism and the Law. University College, Durham University, Durham, UK. See: <https://www.dur.ac.uk/cells/erl/abstracts/> 15<sup>th</sup> - 16<sup>th</sup> October.



3. 2015. Invited speaker 'Solving Ebola: One Health and Non-Human Vaccination Programme'. Centre for Biomedical Ethics Journal Club, Yong Loo Lin School of Medicine, National University of Singapore. 25<sup>th</sup> March.
4. 2015. Presenter and discussant. 'Given the tentative knowledge of the long-term effectiveness and effects of neurological interventions for neuropsychiatric conditions, what should be done to maximize benefit and lessen risks in patient care?' Neuroethics Network; jointly sponsored by Cambridge University Press and ICM, the noted Brain & Spine Institute on the campus of the Hôpital Pitié Salpêtrière. Paris, France. 17<sup>th</sup> - 19<sup>th</sup> June.
5. 2014. Speaker, panel discussant. 'Ebola: Perspectives on the Epidemic-Where to Begin'. Presented by Capital Health, Dal Med GHI, Dalhousie University Global Health Office, Dalhousie Medical Students Society, Health Association of African Canadians & The Tropical Medicine Student Interest Group. Multiple locations across The Maritimes, Canada. 20<sup>th</sup> November.
6. 2014. Presenter and discussant. 'As we learn more about how the brain works in animals, will it affect how we see their participation as research subjects?' Neuroethics Network; jointly sponsored by Cambridge University Press and ICM, the noted Brain & Spine Institute on the campus of the Hôpital Pitié Salpêtrière. Paris, France. 19<sup>th</sup> - 20<sup>th</sup> June.
7. 2014. Invited speaker. 'Situating the Public Good in Bioethics'. Department of Bioethics, Dalhousie University, Halifax, Nova Scotia, Canada. 27<sup>th</sup> January.
8. 2013. Session speaker. 'Privacy, Rights and Genetic Databases'. The Joint Conference of The Human Genome Meeting 2013 and The 21st International Congress of Genetics; Co-Organised by the Human Genome Organisation (HUGO) and the International Genetics Federation (IGF); Singapore. 13<sup>th</sup> - 18<sup>th</sup> April.
9. 2013. Keynote speaker. 'Regulating Induced Pluripotent Stem Cells Ethically in the BioEconomy: A Preliminary Enquiry.' International ELSI Conference on iPSC Research. Ewha Womans University, School of Law & Ewha Institute for Biomedical Law & Ethics. Seoul, Korea. 13<sup>th</sup> February.
10. 2012. Keynote speaker. 'Do Chimeras have Minds?' Brain Matters: Ethical Grey Areas in Innovative Treatments and Research Involving the Human Brain. An International Clinical Ethics Conference. Grand Copthorn Waterfront Hotel, Singapore. 23<sup>rd</sup> - 25<sup>th</sup> February.
11. 2012. Invited commentary. 'Imagined Futures: Capturing the Benefits of Genome Sequencing for Society'. Working Summit: Ethics, Society and Law: Imagined Futures. HUGO 16th Human Genome Meeting. Sydney Convention and Exhibition Centre, Sydney, Australia. 11<sup>th</sup> - 14<sup>th</sup> March.
12. 2011. Lead discussant. 'Global Ethical and Legal Challenges in Genomics and Genetics'. HUGO 15th Human Genome Meeting. Dubai International Convention & Exhibition Centre, World Trade Centre, Dubai. 14<sup>th</sup> - 17<sup>th</sup> March.
13. 2011. Session speaker. 'Redefining Property in Human Body Parts: An Ethical Enquiry'. 3<sup>rd</sup> GABEX International Conference (Global Alliance for Biomedical Ethics Centres). University of Tokyo, Centre for Biomedical Ethics and Law. Hotel New Otani, Tokyo, Japan. 11<sup>th</sup> - 12<sup>th</sup> February.
14. 2008. Keynote Speaker. 'Embryonic Stem Cells – Research, Ethics, and Legislation in the European Union and World' (simultaneous interpretation from English). Centre for Bioethics KF UCM in Trnava and Ethics Committee of the Ministry of Health of Slovakian Republic under the auspices of MU Dr. Richard Rašla, Minister of Health of the Slovak Republic. Ministry of Health, Bratislava, Slovak Republic. 20<sup>th</sup> October.
15. 2007. Public Lecture. 'Stem Cell Science: An Ethical Approach to Future Controversies'. Yong Loo Lin School of Medicine. National University of Singapore, Singapore. 7<sup>th</sup> August.
16. 2007. Keynote Speaker. 'Stem Cell Banks: The Ethical Issues'. Singapore Stem Cell Consortium International Stem Cell Conference. Matrix Building, Biopolis, Singapore. 1<sup>st</sup> - 2<sup>nd</sup> February.
17. with David Nutt (presenter). 2006. 'Cannabis and Psychosis: The Environment Trigger'. The Galton Institute 2006 Conference in association with Progress Educational Trust. Nature or Nurture or Neither? Genetics in the Post-Genome Era. Institute of Child Health, London, UK. 19<sup>th</sup> October.

18. 2006. Keynote Speaker. 'Stem Cell Science: The Ethical and Legal Debate in Europe'. 3<sup>rd</sup> International Meeting of the Stem Cell Network North Rhine Westphalia. State Ministry of Innovation, Science, Research and Technology, Münster, Germany. 14<sup>th</sup> - 16<sup>th</sup> May.
19. 2005. Invited speaker. 'Ethical Aspects of Addiction'. Bristol Neuroscience Symposium: Addiction and Craving. University of Bristol, UK. 22<sup>nd</sup> September.
20. 2005. Invited speaker. 'The UK Stem Cell Debate – The Role of Researchers and 'Experts''. Norwegian Research Council Workshop. Department of General Practice and Community Medicine, Section for Medical Ethics, University of Oslo, Norway. 13<sup>th</sup> - 14<sup>th</sup> June.
21. 2005. Invited speaker. 'Stem Cell Therapy and 'Procedural Ethics': Harmonisation Through Compromise?' Economic and Social Research Centre for Genomics in Society, University of Exeter, UK. 15<sup>th</sup> March.
22. 2004. Keynote Speaker and panel. 'Ethical Aspects of Developments in Neuroscience and Drug Addiction'. Foresight Brain Science, Addiction and Drugs Project: The State-of-Science Reviews' Workshop. The Royal Society, London. 19<sup>th</sup> October.
23. 2001. Invited speaker. 'Transplantation from Anencephalic Newborns: The Legal and Ethical Position in the UK'. Public Lecture. Perinatal Club of Bristol, Department of Obstetrics, St. Michael's Hospital, Bristol, UK. 24<sup>th</sup> July.

#### **Conference Papers Presented (abstract selected by scientific committee)**

1. 'Ethical Issues of CRISPR Technology and Gene Editing Through the Lens of Solidarity'. Mulvihill, J., Capps, B., Joly, Y., Lysaght (presenter), T., Zwart, H., Chadwick, R. and HUGO Committee of Ethics, Law and Society. 2017. The 21<sup>st</sup> Human Genome Meeting: From Genomics to Therapy. Barcelona, Spain. 5<sup>th</sup> - 7<sup>th</sup> February.
2. 'Justice is the Missing Link in One Health: A Mixed Methods Study in an Urban City State'. Lederman, Z (presenter), Lysaght, T, Capps, B., Bailey, M., Bickford, D., Coker, R. and Tambyah, P. 2016. 4<sup>th</sup> International One Health Congress & 6<sup>th</sup> Biennial Congress of the International Association for Ecology & Health. Melbourne Convention and Exhibition Centre. Melbourne, Australia. 3<sup>rd</sup> - 7<sup>th</sup> December.
3. 2012. 'Pandemic Influenza, Vaccines, and Public Ethics: A Challenge to Industry'. 11<sup>th</sup> World Congress of the International Association of Bioethics. Rotterdam, The Netherlands. 26<sup>th</sup> -29<sup>th</sup> June.
4. 2010. 'Libertarianism, Legitimation, and the Problems of Technology Regulation'. 10<sup>th</sup> World Congress of the International Association of Bioethics. Singapore. 28<sup>th</sup> - 31<sup>st</sup> July.
5. 2008. 'An Analysis of the Public Good and Public Interest'. 9<sup>th</sup> World Congress of the International Association of Bioethics. Rijeka, Croatia. 3<sup>rd</sup> - 8<sup>th</sup> September.
6. 2006. 'Can Proceduralism Resolve the European Stem Cell Debate?' EACME Annual Conference: New Pathways for European Bioethics. Centre for Biomedical Ethics and Law at the Catholic University of Leuven, Belgium, and the European Association of Centres of Medical Ethics (EACME). Leuven, Belgium. 28<sup>th</sup> - 30<sup>th</sup> September.
7. 2006. 'Can Proceduralism Resolve the European Stem Cell Debate?' 8<sup>th</sup> World Congress of the International Association of Bioethics. Beijing, China. 6<sup>th</sup> - 9<sup>th</sup> August. Poster Discussion.
8. 2006. 'Authoritative Regulation and the Stem Cell Debate'. New Zealand Bioethics Conference: Making People Better. University of Otago, Dunedin, New Zealand. 10<sup>th</sup> - 12<sup>th</sup> February.
9. 2004. 'Stem Cell Therapy and Procedural Ethics: Towards a European Regulatory Policy'. 7<sup>th</sup> World Congress of the International Association of Bioethics. Sydney, Australia. 9<sup>th</sup> - 12<sup>th</sup> November.

#### **Notable Meetings, Seminars & Workshops (selected)**

1. Organiser and lead chair. 2019. 'Open Science: What do we need to know to Protect the Interests of Public and Scientists?' A workshop jointly presented by the HUGO Committee on Ethics, Law and Society, the Human Variome Project, and the EWHA Institute for Biomedical Law and Ethics. The

- Human Genome Meeting 2019: Towards Implementing Genomic Medicine. EWHA Womans University, Seoul, South Korea. 24<sup>th</sup> - 27<sup>th</sup> April.
2. Panellist. Sandboxing DTC Genetic Testing in Korea. Invited by the Ewha Law School & Ewha Institute for Biomedical Law & Ethics. EWHA Womans University, Seoul, South Korea. 25<sup>th</sup> April.
  3. Invited member. 2019. Gene Modifying Technologies Working Group/ Symposium on the Ethics of Gene Modifying Technologies. Organised by The Science, Health and Policy-Relevant Ethics in Singapore (SHAPES) Initiative. Centre for Biomedical Ethics, Yong Loo Lin School of Medicine, National University of Singapore. 29<sup>th</sup> April - 30<sup>th</sup> May.
  4. Presenter. 2018. 15<sup>th</sup> Annual Blood & Beyond: Residents Edition. Roundtable Discussion and Case Studies – Ethics: Autonomy and Resource Allocation. Weather Watch Room, Halifax, NS, Canada. 3<sup>rd</sup> October.
  5. Invited Delegate. 2018. ‘Could Open be the Yellow Brick Road to Precision Medicine? An Overview of Open Models of Collaboration in Precision Medicine’. Funded by GE3LS Network in Genomics and Personalised Health and the Fonds de Partenariat pour un Quebec Innovant et en Sante. La Meridien Versailles Hotel, Montreal, Canada. 6<sup>th</sup> March. (Sponsored.)
  6. Presenter. 2017. 14<sup>th</sup> Annual Blood & Beyond: Residents Edition. Roundtable Discussion and Case Studies – Ethics: Autonomy and Resource Allocation. Weather Watch Room, Halifax, NS, Canada. 4<sup>th</sup> October.
  7. Capps, B. van der Eijk, Y., and Krahn, T. (co-presenters). 2016. ‘The Ethics of Tobacco Industry Involvement in E-Cigarette Research: A Test of the public Interest and Public Good’. NovelTech/Impact Ethics. Dalhousie University, Halifax, Nova Scotia, Canada. 30<sup>th</sup> November.
  8. Presenter. 2016. 13<sup>th</sup> Annual Blood Management Residents’ Workshop. Roundtable Discussion and Case Studies – Ethics: Autonomy and Resource Allocation. Weather Watch Room, Halifax, NS, Canada. 5<sup>th</sup> October.
  9. HUGO CELS Meeting. 2016. Human Genome Meeting 2016: Translational Genomics. Hilton Americas, Houston, USA. 28<sup>th</sup> February - 2<sup>nd</sup> March.
  10. Presenter. 2015. 12<sup>th</sup> Annual Blood Management Residents’ Workshop. Roundtable Discussion and Case Studies – Ethics: Autonomy and Resource Allocation. Weather Watch Room, Halifax, NS, Canada. 7<sup>th</sup> October.
  11. Invited Delegate. 2015. Beings 2015: Biotech and the Ethical Imagination – A Global Summit. The Tabernacle, Atlanta, Georgia. 17<sup>th</sup> - 19<sup>th</sup> May. (Participation part sponsored by organisers.)
  12. Invited Panel Member. 2015. ‘Ethics and Data Sharing’. HUGO Human Genome Meeting 2015: Transforming Human Genomics for a Sustainable Tomorrow. Kuala Lumpur Convention Centre, Malaysia. 14<sup>th</sup> - 17<sup>th</sup> March.
  13. Presenter. 2014. 11<sup>th</sup> Annual Blood Management Residents’ Workshop. Roundtable Discussion and Case Studies – Ethics: Autonomy and Resource Allocation. Waegwoltic Club, Halifax, NS, Canada. 8<sup>th</sup> October.
  14. Moderator, with Ruth Chadwick, Matthew Liao, and Ray Dunn. 2014. A Roundtable Discussion with a Panel of Distinguished Speakers: Reproductive Genomics. Collaboration with and supported by Belris: Bioethics Legal Research in Singapore. Singapore, The Duxton Hotel. 15<sup>th</sup> May.
  15. Capps, B. (with Lysaght, T.) 2014. Workshop: Stem Cell Science and Ethics. Training for high school teachers. Sponsored by the CBmE Financial Initiative. (Attended by 58 teachers from junior colleges teaching the subject General Paper.) Collaboration with Ministry of Education, Curriculum Planning and Development Division, English Language Unit, Pre-University Unit. Singapore. 27<sup>th</sup> March.
  16. Lysaght, T. (presenter), Kerridge, I., Sipp, D., Porter, G., & Capps, B. 2013. ‘Governing Clinical Uses of Autologous Adult Stem Cells: An International Regulatory Review’. Asian Biopoleis Workshop; University Town, NUS, Singapore. 16<sup>th</sup> - 17<sup>th</sup> July.

17. Participant (as co-PI on the project, EPOCH: Ethics in Public Policy Making: The Case of Human Enhancement). 2012. 'The Coming Epoch of Enhanced Societies? The Challenge of Human Enhancement to Regulation, Ethics and Public Policy.' Università degli Studi di Padova, Via VIII Febbraio, 2, Padova, Italy. 6<sup>th</sup> - 7<sup>th</sup> September. (Sponsored.)
18. Conference organiser, lead chair. 2012. 'International Workshop on Human Enhancement Technologies – Understanding Governance, Policies and Regulatory Structures in the Global Context'. Grand Park City Hall, Singapore. 7<sup>th</sup> - 8<sup>th</sup> June.
19. Advisor and participant. 2012. USA Study Trip on Regulatory Framework for Stem Cell Research with a Focus on Human-Animal Combinations. Selected as working group member and advisor to the Pro-Tem National Oversight Committee for Human-Animal Combinations in Stem Cell Research 'Fact-finding mission'. Ministry of Health, Singapore. Meetings @ University of California; California Institute for Regenerative Medicine; Institute for Stem Cell Biology and Regenerative Medicine (Stanford); Stanford Centre for Bioethics; National Institutes of Health (Washington, DC); & Harvard Stem Cell Institute. 9<sup>th</sup> - 13<sup>th</sup> January. (Sponsored.)
20. Project Meeting, HUGO White Paper @ University of Tasmania. 2011. Imagined Futures: Capturing the Benefits of Genome Sequencing for Society. Faculty of Law, UoT, Hobart, Australia. 26<sup>th</sup>-28<sup>th</sup> January. (Sponsored.)
21. Collaborators Meeting @ WHO, Geneva. 2010. Planning with Special Programme of Research, Development and Research Training in Human Reproduction as part of CBmE becoming a WHO Collaborating Centre in Biomedical Ethics. Geneva, Switzerland. 16<sup>th</sup> December.
22. Co-coordinator and participant, with Human Genome Organisation Ethics Committee. 2010. Imagined Futures: HUGO Geneva Meeting, Writing Group and Consultant Group (funded by the Brocher Foundation). Brocher Centre, Geneva, Switzerland. 11<sup>th</sup> - 15<sup>th</sup> December. (Sponsored.)
23. Invited lecture. 2010. 'Emerging Infectious Diseases'. Organized by the Department of Epidemiology and Public Health, NUS; as requested by the Department of Foreign Affairs, Singapore. Funded by the Singapore Cooperation Programme. 26<sup>th</sup> August - 7<sup>th</sup> September.
24. Tutor. 2010. Clinical Ethics Network for Training, Research and Support (CENTRES) 2<sup>nd</sup> & 4<sup>th</sup> workshops, Institute of Mental Health (9<sup>th</sup> March) and KKH Hospital (24<sup>th</sup> September), Singapore.
25. Co-organiser, Co-Chair and Commentator, with Ruth Chadwick. 2010. Workshop: Genomics, Ethics and Law. HUGO 14th Human Genome Meeting. Le Corum, Montpellier, France. 18<sup>th</sup> - 21<sup>st</sup> May.
26. Invited participant. 2009. HUGO Symposium on Genomics and Ethics, Law and Society – Sequencing of Individual Genomics: Impact on Society and Ethics. Geneva, Switzerland. 1<sup>st</sup> - 3<sup>rd</sup> November.
27. Invited commentator. 2009. Writer's Workshop: East Asian Science, Technology and Society Journal Special Edition on Genetic Technology. Taipei, Taiwan. 18<sup>th</sup> January. (Sponsored.)
28. Invited participant. 2007. Third International Meeting of the Ethics Working Party of the International Stem Cell Forum. Pan-Pacific Hotel, Singapore. 31<sup>st</sup> January.
29. Project Planning Meeting @ European Monitoring Centre for Drugs and Drug Addiction. 2007. PI's Report: New Developments in Neuroscience and Genetics: Implications for Policy and Practice. EMCDDA Building, Avenida Almirante Reis, Lisbon, Portugal. 11<sup>th</sup> - 16<sup>th</sup> November.
30. Invited participant. 2006. Enhancing Human Capacities: Ethics, Regulation and European Policy (ENHANCE). Workshop on Mood Enhancement. Maastricht University, Maastricht, Netherlands. 30<sup>th</sup> June - 1<sup>st</sup> July. (Sponsored.)
31. Invited participant. Global Drug Policy. 2005. Organised by the Beckley Foundation. The House of Lords, Palace of Westminster, London, UK. 21<sup>st</sup> - 22<sup>nd</sup> November.
32. Invited participant. 2003. Stem Cell Consultation Meeting – A New ESRC Initiative: Developing the Economic and Social Agenda. Economic & Social Research Council. The Royal College of Obstetricians and Gynaecologists, London, UK. 17<sup>th</sup> June.

33. Invited participant. 2001. What's So New About the New Genetics? ESCR New Genetics Seminar. University of the West of England, Bristol, UK. 24<sup>th</sup> January.
34. Invited delegate. 2001. Ethics, Intellectual Property and Genomics: International Symposium. United Nations Educational, Scientific and Cultural Organisation. UNESCO Headquarters, Paris, France. 30<sup>th</sup> January - 1<sup>st</sup> February.
35. Invited participant. 2000. Genetics and Society Research Training Course. The Wellcome Trust. Hinxton Hall Conference Centre, Hinxton, Cambridgeshire, UK. 3<sup>rd</sup> - 7<sup>th</sup> September.

#### **Other Presentations (selected)**

1. 2019. 'An Introduction to Open Science: What do we need to know to protect publics and scientists?' Works in Progress Sessions. Department of Bioethics, Faculty of Medicine, Dalhousie University, Halifax, NS, Canada. 11<sup>th</sup> March.
2. 2017. 'CRISPR, Gene Drives and One Health'. Works in Progress Sessions. Department of Bioethics, Faculty of Medicine, Dalhousie University, Halifax, NS, Canada. 10<sup>th</sup> April.
3. 2014. 'Solving Ebola: One Health and Vaccinations'. Works in Progress Sessions. Department of Bioethics, Faculty of Medicine, Dalhousie University, Halifax, NS, Canada. 17<sup>th</sup> November.
4. 2011. 'Pandemic Influenza and Vaccine Production'. The Hastings Center Visiting Scholar Seminar, The Hastings Center, Garrison, New York, USA. June 5<sup>th</sup>.
5. 2005. 'An Argument for Authoritative Regulation in Stem Cell Science'. Journal Club, Centre for Ethics in Medicine, University of Bristol, UK. 13<sup>th</sup> October.
6. 2005. 'A Moral Basis for Proceduralism'. The Hastings Center Visiting Scholar Seminar, The Hastings Center, Garrison, New York, USA. 20<sup>th</sup> May.
7. 2004. 'Stem Cell Therapy and Procedural Ethics: Towards a European Regulatory Policy'. Journal Club, Centre for Ethics in Medicine, University of Bristol, UK. 7<sup>th</sup> October.
8. 2003. 'European Policy on Stem Cell Research – Research Findings'. Journal Club, Centre for Ethics in Medicine, University of Bristol, UK. 23<sup>rd</sup> October.
9. 2002. 'A Philosophical Reappraisal of Human Rights: No Longer 'Nonsense on Stilts''. Journal Club, Centre for Ethics in Medicine, University of Bristol, UK. 28<sup>th</sup> November.
10. 2001. 'The Status of the Human Embryo in European Stem Cell Research'. Journal Club, Centre for Ethics in Medicine, University of Bristol, UK. 15<sup>th</sup> November.

#### **(iv.) Public, Blogs, Press and Interviews**

1. 2020. Lederman, Z. and Capps, B. Does one health ethics need a comprehensive theory? February 24<sup>th</sup>; Available at: <https://blogs.bmj.com/medical-ethics/2020/02/24/does-one-health-ethics-need-a-comprehensive-theory/>
2. 2017. Interview (email). The Difficult Proposition of Getting Corporations out of University Science by Rick Paulas. Pacific Standard Sept 14. Available at: <https://psmag.com/economics/the-difficult-proposition-of-getting-corporations-out-of-university-science>
3. 2017. 'Justice as a Lens for One Health in Managing Emerging Infectious Diseases'. Lysaght, T, Capps, B., Bailey, M., Bickford, D., Coker, R., Lederman, Z., Watson, S. and Tambyah, P.A. In *MediCine: A Publication of the Yong Loo Lin School of Medicine* 22 (May). pp. 41-42.
4. 2016. Our Faculty: Student educators, clinical physicians and medical researchers - Q&A with Dr. Benjamin Capps. Faculty of Medicine. April 2016. <http://medicine.dal.ca/facultystaff/Faculty.html>
5. 2015. The Emerging Themes of Ebola: One Health. December 2014. <https://blogs.dal.ca/globalhealth/>
6. 2009. Invited contribution for: *HUGO Matters*, official blog of the Human Genome Organisation. *The Impact of Next Generation Sequencing on Society, Policy and Law*. Posted: December 1<sup>st</sup>; <http://www.hugo-international.org/blog/?p=112> [dead link].

7. 2009. Quoted in: 'NUS Team Makes Cloning Breakthrough'. *The Straits Times* (Singapore Press Holdings Ltd. Co.) Friday October 16; part C, p. C1.
8. 2007. Interviewed by: Flavia Natércia da Silva Medeiros (Laboratório de Estudos Avançados de Jornalismo/Laboratory of Advanced Studies in Journalism – Unicamp, Brazil). Interview published in Portuguese. 1<sup>st</sup> August.
9. 2005. 'Grow-It-Yourself Remedy for All Ills – Comment'. *Western Daily Press* (Bristol, UK). Thursday 4<sup>th</sup> August.
10. 2004. 'Saviour Siblings'. Radio Interview for *BBC Bristol*, UK. 4<sup>th</sup> February.
11. 2002. 'Cloning: Where do you Draw the Line?' Speaker on cloning science and ethics, part of BNFL/@-Bristol Public Education Programme. @-Bristol, Bristol. 29<sup>th</sup> November.

#### **(v.) Academic Advisor**

##### **PhD. Supervision**

Van Der Eijk, Y.. October 2011-15; ***PASSED*** with minor corrections. 'Addiction Ethics: Ethics and Tobacco Control'. Ph.D. Yong Loo Lin School of Medicine Scholarship. Only supervisor 2011-14; Co-Supervisor from August 2014 (upon relocating to Dalhousie University), with Anita Ho, CBME, NUS. Conferred April 2019.

##### **Graduate supervision ended upon leaving NUS**

Lederman, Z. August 2013-18; ***PASSED*** with minor corrections. 'One Health and Infectious Diseases'. Ph.D. Israel; NUS President's Scholarship. First supervisor, with Cecilia Lim, Philosophy, NUS. Conferred May 2019.

December 2009-14; 'Beyond a Market in Human Organs - Ethical, Social and Legal Implications'; Ph.D. Singapore; self-funded (part-time); First supervisor, with Leo de Castro, CBME, NUS.

##### **Internships supervised: NUS**

Brian Boyarsky (John Hopkins University; July 2009);  
 Desiree Lim (Edinburgh University; July-September 2010);  
 Ayesha Ahmad (UCL Medical School; September-October 2010);  
 Elias Boujaoude (Columbia University; June-August 2011);  
 Natascha Claudia D'Amico (Università Campus Bio-Medico di Roma; August-September 2011).

#### **(vi.) Special Research Administration**

##### **Previous**

Coordinator of the Centre for Biomedical Ethics research programme with the World Health Organisation's *UNDP/UNFPA/WHO/World Bank Special Programme of Research, Development and Research Training in Human Reproduction* (HRP; 2009-2012). Culminating in an (unpublished background) 'Review of WHO guidelines on obtaining informed consent: A systematic review of participant perceptions and experiences (2000-2010)' (with Lysaght, T., Chadwick, R. and Capps. B.)

Lead of the Ethics Core of the Institute of Mental Health's Translational Clinical Research Programme in Psychosis (Singapore; 2008-2013). The group published five 'ethics' papers, and advised on various issues in respect to research protocols. Secured additional funding from the programme to employ a research fellow for 6 months full time (November 2012-April 2013).

##### **(vii.) Conference Committee**

International Organizing Committee for the Human Genome Meeting (HGM2021). Tel Aviv 2021.

Programme and Abstract Committee. Canadian Bioethics Society Annual Conference. Halifax 2018.

Programme and Abstract Committee. 10<sup>th</sup> World Congress of the International Association of Bioethics. Singapore 2010.

**(7) FUNDING****(i.) Grants*****Research*****2018-19 SSHRC Research Development Fund**

Funder: Social Sciences and Humanities Research Council (SSHRC), federal research funding agency of the Government of Canada.

Principal Investigator.

C\$1500.

September 2018.

*Conference travel grant. Awarded through compensative application to Dalhousie's Medical Research Development Office.*

**One Health, Zoonotic Diseases and Pandemic Planning: Creating a Bioethics Framework in Singapore**

Funder: Communicable Diseases – Public Health Research Grant (CD-PHRG); Ministry of Health, Singapore.

'Visiting Consultant' (International Expert); Project submitted and awarded to Capps as principal investigator.

Award to Capps: S\$21,165.

Total project award: S\$140,908.

September 2014-July 2016.

*Lead author of application and submitting Principal Investigator. Awarded prior to relocation to Dalhousie University. Grant PI status transferred to Co-PI upon relocation.*

**EPOCH: Ethics in Public Policy Making: The Case of Human Enhancement**

Funder: European Commission, FP7 Collaborative Project, Science-in-Society; Grant number SIS-CT-2010-266660; [http://cordis.europa.eu/project/rcn/96892\\_en.html](http://cordis.europa.eu/project/rcn/96892_en.html)

Co-Principal Investigator (Work package Leader);

NUS award for Work package: €57,782;

Total project award: €1,477,603.80;

November 2010-2012.

*Co-author and collaborator on tender; co-author and Principal Investigator (grant holder) on NUS work package.*

**Start-Up Grant**

Funder: Yong Loo Lin School of Medicine (joint with President's Fund), NUS;

Principal Investigator;

S\$180,000;

July 2009-November 2011 (RF's salary bridged for one year to November 2012; not included in amount above).

*Sole author of tender and Principal Investigator (grant holder and project manager). Used to employ research fellow to assist with future grant applications and research collaborations with: Institute of Mental Health, Singapore; World Health Organisation; and Human Genomics Organisation Ethics Committee.*

**New Developments in Neuroscience and Genetics: Implications for Policy and Practice.**

Funder: EMCDDA: European Monitoring Centre for Drugs and Drug Addiction, European Commission;

Principal Investigator;

€23,885;

Completed 18<sup>th</sup> December 2006.

*Co-author of tender and Principal Investigator (grant holder and project manager); with Professor Wayne Hall, University of Queensland, Australia & Professor Richard Ashcroft, Queen Mary's London. Collaborators: Professor David Nutt & Professor Ruud ter Meulen, University of Bristol, UK.*

**Ethical Issues in Brain Science, Drugs and Addiction.**

Funder: Department of Trade and Industry-Foresight;

Principal Investigator.

£5,000;

1<sup>st</sup> July-31<sup>st</sup> August 2005, full-time Research Associate, Centre for Biomedical Ethics, University of Bristol; project total duration: 1<sup>st</sup> July 2004-12<sup>th</sup> July 2005.

*Principal author of tender and Principal Investigator; with Professor Richard Ashcroft, Imperial Collage, London, and Professor Alastair V. Campbell, University of Bristol.*

### ***Education***

#### **Reading Group: Ethics, Philosophy and the Law in Biotechnology**

Funder: Division of Humanities & Social Sciences, NUS;

Co-Applicant;

S\$4,000;

September 2013-September 2014.

Cross-faculty project that aims at broadening the scope and knowledge-base of participants from across a wide range of disciplines on the bioethical, philosophical and politico-legal issues concerning biotechnology. PhD students from across Faculties are invited to lead seminars. Co-chair and co-coordinator.

### **(ii.) Commissions**

#### **Report: ‘Policy Implications of Addiction Neuroscience for Australian Society’**

Funder: Australian Ministerial Council on Drug Strategy and New South Wales Department of Health; Collaborator;

Au\$90,000; (a proportion was paid as consultation fee);

February 2008 to October 2008.

*Collaborator on tender, with Professor Wayne Hall (PI) University of Queensland, Australia, Adrian Carter, Queensland Brain Institute, University of Queensland, & Dr. Mark Daglish, Senior Lecturer in Addiction Psychiatry, Discipline of Psychiatry, University of Queensland and Director of Addiction Psychiatry, Royal Brisbane & Women’s Hospital.*

#### **Report: “‘Public Interest’ and ‘Public Good’ as Applied to UK Biobank Access Decision-Making”**

Funder: UK Biobank Ethics and Governance Council, Wellcome Trust;

Principal Investigator;

£9,647;

13<sup>th</sup> November 2006- 30<sup>th</sup> June 2007.

*Principal author of tender and Principal Investigator (grant holder and project manager); with Professor Alastair V. Campbell, National University of Singapore, and Professor Ruud ter Meulen, University of Bristol, UK.*

#### **Report: ‘The Ethics of Oocyte Provision for Research: Background Paper’.**

Funder: Bioethics Advisory Commission, Singapore;

Principal Investigator;

S\$1,000;

Completed 27<sup>th</sup> January 2007.

### **(iii.) Honorarium and Awards**

#### **Centre for Biomedical Ethics: Visiting Fellow Honorarium.**

Funder: National University of Singapore, Singapore;

S\$19,780;

27<sup>th</sup> January 2007-30<sup>th</sup> April 2007.

#### **Wellcome Trust/University of Bristol: ‘Value in People’ Award.**

Funder: The Wellcome Trust

Centre for Ethics in Medicine, University of Bristol;

£11,500;

1<sup>st</sup> September 2006- 31<sup>st</sup> January 2007.

*Principal author of award proposal.*

#### **Wellcome Trust: Postdoctoral Research Fellowship.**

Funder: The Wellcome Trust

Centre for Ethics in Medicine, University of Bristol;

£66,967;



1<sup>st</sup> September 2004–31<sup>st</sup> September 2006.

*Principal author of Fellowship proposal; with support of Professor Alastair V. Campbell, University of Bristol, and Professor Søren Holm, Cardiff University.*

Wellcome Trust: Ph.D. Studentship.

Funder: The Wellcome Trust

Centre for Ethics in Medicine, University of Bristol;

£52,535;

1<sup>st</sup> October 2000–31<sup>st</sup> October 2003.

*Principal author of studentship proposal; with support of Professor Alastair V. Campbell, University of Bristol.*

#### (iv.) Gifts (non-directed donation to Department)

Funder: Bioethics Legal Group for Reproductive Issues in Singapore (BELRIS Ltd.): Gift to Centre for Biomedical Ethics, National University of Singapore.

Principal Investigator;

S\$15,000 (plus S\$15,000 matched by Ministry of Education, Singapore);

1<sup>st</sup> January–30<sup>th</sup> June 2013.

*Sole author of tender; funds used to support project: 'A Comparative Analysis of Oocyte Freezing Policies in the South –East Asia Region'; Gift negotiator and Principal Investigator (gift beneficiary, on behalf of CBmE).*

### (8) TEACHING

*Provided on request*

### (9) ADMINISTRATION & SERVICE

*Provided on request*

#### Academic Service

Journal Referee (from 2000–present):

	All time	19-20	20-21
<i>Journal of Medical Ethics</i>	2		2
<i>American Journal of Public Health</i>	1		1
<i>Nature Biotechnology</i>	1	1	
<i>Cambridge Quarterly of HealthCare Ethics</i>	2		
<i>Regenerative Medicine</i>	3		
<i>Life Sciences, Society and Policy</i>	3		
<i>British Medical Bulletin</i>	2		
<i>Annals of the Academy of Medicine, Singapore</i>	1		
<i>Singapore Medical Journal</i>	2		
<i>Asian Bioethics Review</i>	3	1	
<i>Bioethics</i>	15	2	
<i>Nature</i>	1		
<i>Int. Journal of Healthcare Technology and Management</i>	1		
<i>Journal of Medicine and Philosophy</i>	2		
<i>Journal of Psychopharmacology</i>	2		
<i>New Genetics and Society</i>	1		

Book Proposal Referee for *Oxford University Press* (1; 2006); and *Springer Science + Business Media Applied Ethics Programme* (1; 2013).

Project Grant/Award Referee (from 2003–present):

*The Netherlands Organisation of Health, Research and Development (ZonMw) (1)*

*European Science Foundation (1)*  
*The Leverhulme Trust (1)*  
*The Wellcome Trust (3)*

**(v.) Professional Advisory Roles**

***National University of Singapore***

Ethics consultant to the Longitudinal Youth at Risk Study (LYRIKS). Institute of Mental Health. Singapore. 2008-present.

***University of Bristol***

Ethics Advisor to the University of Bristol's Cardiovascular Science Theme of the Bristol Heart Institute (UK). 2005-2007.



## (10) Referees

### **Prof. Richard Ashcroft**

Academic Unit for Human Science  
and Medical Ethics  
Institute of Health Sciences Education,  
Barts and The London Queen Mary  
School of Medicine and Dentistry,  
Queen Mary University of London,  
40 New Road,  
London,  
United Kingdom, E1 2AD.  
Tel: +44 20 7882 2551  
Email: [r.ashcroft@qmul.ac.uk](mailto:r.ashcroft@qmul.ac.uk)

### **Prof. Roger Brownsword**

School of Law  
King's College London,  
Strand,  
London,  
United Kingdom, WC2R 2LS.  
Tel: +44 20 7836 5454  
Email: [roger.brownsword@kcl.ac.uk](mailto:roger.brownsword@kcl.ac.uk)

### **Prof. Ruth Chadwick**

Cardiff Law School  
Cardiff University,  
Law Building,  
Museum Ave,  
Cardiff,  
Wales, CF10 3AX,  
Tel: +44 (0)29 208 74049  
Fax: +44 (0)29 208 74097  
Email: [ChadwickR1@cf.ac.uk](mailto:ChadwickR1@cf.ac.uk)

### **Professor of Biomedical Ethics**

PhD Examiner, occasional collaborator.

### **Professor of Law**

PhD Examiner, occasional collaborator.

### **Professor Emerita (Cardiff University, UK) & Visiting Professor @ IDEA Centre (University of Leeds, UK)**

Frequent collaborator; Member of HUGO Ethics Committee.