



## Jerome S. Cybulski

- **Degrees:** B.A., M.A. (SUNY Buffalo); Ph.D. (U Toronto)
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- **Current Appointments:** Research Associate, Canadian Museum of History; Adjunct Professor, Simon Fraser University (Archaeology); Adjunct Research Professor, University of Western Ontario (Anthropology);

### Research interests and areas of expertise:

Human skeletal biology (bioarchaeology) and mortuary archaeology with special but not exclusive reference to populations in Canada; paleopathology; forensic anthropology; history of bioarchaeology and paleopathology in Canada. Steering Committee for University of Western Ontario IMPACT Radiological Mummy Database (<http://impactdb.uwo.ca/IMPACTdb/Index.html>)

### Current research:

**(1) Genomic and genetic (DNA) variation in First Nations** with application to the first peopling of the Americas, in situ regional histories, and the effects of European contact, in collaboration with colleagues at the Universities of Illinois and Oklahoma, and First Nations communities of Stswécemc/Xgat'temc, Laxgalts'ap, Tk'emlúps te Secwépemc, Metlakatla, and Lax Kw'alaams.

**(2) Ongoing interpretation of ancient Egyptian human remains** analyzed on-site (2008, 2009, 2010) with the Pacific Lutheran University Valley of the Kings Project (four KV tombs) headed by Dr. Donald Ryan, and with the TT65 Project of the Hungarian Archaeological Mission in Thebes (Tombs of the Nobles) headed by Dr. Tamás Bács, Eötvös Loránd University, Budapest: demographics of tomb occupants and their social, biological and health histories during Egypt's New Kingdom and later dynasties.

**(3) Archaeological interpretation of shell-bearing sites** in the Prince Rupert Harbour and Salish Sea regions of British Columbia in co-operation with colleagues at the University of Toronto, University of British Columbia, Portland State University, Northwest Community College, and the University of Saskatchewan.

### Recent and select publications:

- 2018 Early human dispersals within the Americas. (Moreno-Mayar JV, Vinner L, de Barros Damgaard P, de la Fuente C, Chan J, Spence JP, Allentoft ME, Vimala T, . . . Cybulski JS, . . . Willerslev E). *Science* 10.1126/science.aav2621.
- 2018 Patterns of genetic coding variation in a Native American population before and after European contact. (Lindo J, Rogers M, Mallott EK, Petzelt B, Mitchell J, Archer D, Cybulski JS, Malhi RS, DeGiorgio M). *American Journal of Human Genetics* 102: 806–815.
- 2017 Assessing the scale and pace of large shell-bearing site occupation in the Prince Rupert Harbour area, British Columbia. (Letham B, Martindale A, Supernant K, Brown TJ, Cybulski JS, Ames KM). *Journal of Island and Coastal Archaeology*: DOI: 10.1080/15564894.2017.1387621.

- 2017 Ancient individuals from the North American Northwest Coast reveal 10,000 years of regional genetic continuity. (Lindo J, Achilli A, Perego UA, Archer D, Valdiosera C, Petzelt B, . . . Cybulski JS, . . . Malhi RS). *Proceedings of the National Academy of Sciences*. [www.pnas.org/cgi/doi/10.1073/pnas.1620410114](http://www.pnas.org/cgi/doi/10.1073/pnas.1620410114).
- 2016 Genetic structure of First Nation communities in the Pacific Northwest. (Hughes CE, Rogers MP, Owings AC, Petzelt B, Mitchell J, Harry H, . . . , Cybulski JS, Malhi RS). *Human Biology* 88: 251–263. doi: 10.13110/humanbiology.88.4.0251.
- 2016 A time transect of exomes from a Native American population before and after European contact. (Lindo J, Huerta-Sánchez E, Nakagome S, Rasmussen M, Petzelt B, Mitchell J, Cybulski JS, . . . Malhi RS). *Nature Communications* 7, 13175 doi: 10.1038/ncomms13175.
- 2016 A wealth of beads: evidence for material wealth-based inequality in the Salish Sea region, 4000-3500 cal B.P. (Coupland G, Bilton D, Clark T, Cybulski JS, Frederick G, Letham B, . . . Williams G). *American Antiquity* 81(2):294-315.
- 2015 Genomic evidence for the Pleistocene and recent population history of Native Americans. (Raghavan, M, Steinrücken M, Harris K, Schiffels S, Rasmussen S, DeGiorgio M, . . . Cybulski JS, . . . Willerslev E). *Science* 349: aab3884-1-10.
- 2015 Iliacus-piriformis abscess and septic arthritis from Theban Tomb (TT) 65. (Stark RJ, Cybulski JS, Bács TA). *International Journal of Paleopathology* 8:57-63.
- 2015 Bioarchaeology, TT65 Project, Hungarian Mission in Thebes. (Cybulski JS, Stark RJ, Bács TA). In *Egyptian Bioarchaeology: Humans, Animals, and the Environment*, Ikram S, Kaiser J, Walker R, eds, Leiden: Sidestone Press, pp. 21-29.
- 2014 Bioarchaeology in Canada: origins and contemporary issues. (Cybulski JS, Katzenberg MA). In *Archaeological Human Remains: Global Perspectives*, O'Donnabhain B, Lozada MC, eds, New York: Springer, pp. 85-103.
- 2014 Updating the warrior cache: timing the evidence for warfare at Prince Rupert Harbour. (Cybulski JS). In *Violence and Warfare Among Hunter-Gatherers*, Allen MW, Jones TL, eds, Walnut Creek: Left Coast Press, pp. 333-350.
- 2014 Conflict on the northern Northwest Coast: 2000 years plus of bioarchaeological evidence. (Cybulski JS). In *The Routledge Handbook of the Bioarchaeology of Human Conflict*, Knüsel C, Smith MJ, eds, London: Routledge (Taylor and Francis Group), pp. 415-451.
- 2014 The genetic prehistory of the New World Arctic. (Raghavan M, DeGiorgio M, Albrechtsen A, Moltke I, Skoglund P, Korneliusson TS, . . . Cybulski JS, . . . Willerslev E) *Science* 345: 1020-1029.
- 2014 Patterns of admixture and population structure in native populations of northwest North America. (Verdu P, Pemberton TJ, Laurent R, Kemp BM, Gonzalez-Oliver A, Gorodezky C, . . . Cybulski JS, . . . Malhi RS). *PLoS Genetics* 10(8): e1004530. doi:10.1371/journal.pgen.1004530
- 2013 Reconciling migration models to the Americas with the variation of North American native mitogenomes. (Achilli A, Perego UA, Lancioni H, Olivieri A, Gandini F, Kashani BH, . . . Cybulski JS, . . . Torroni A). *Proceedings of the National Academy of Sciences*. [www.pnas.org/cgi/doi/10.1073/pnas.1306290110](http://www.pnas.org/cgi/doi/10.1073/pnas.1306290110).
- 2013 Ancient DNA analysis of mid-Holocene individuals from the Northwest Coast of North America reveals different evolutionary paths for mitogenomes. (Cui Y, Lindo J, Hughes CE, Johnson JW, Hernandez AG, Kemp BM, . . . , Cybulski JS, Malhi RS). *PLoS ONE* 8(7): e66948. doi: 10.1371/journal.pone.0066948.

- 2012 History of human paleopathology in Canada. (Cybulski JS). In *The Global History of Paleopathology: Pioneers and Prospects*, Buikstra JA, Roberts CA, eds, New York and Oxford: Oxford University Press, pp. 245-258.
- 2011 Canada. (Cybulski JS). In *The Routledge Handbook of Archaeological Human Remains and Legislation: An International Guide to Laws and Practice in the Excavation, Study and Treatment of Archaeological Human Remains*, Marquez-Grant N, Fibiger L, eds, London: Routledge (Taylor and Francis Group), pp. 525-530.
- 2011 Gore Creek skeleton, an early human in North America. (Cybulski JS). The Canadian Encyclopedia. Available online at <http://www.thecanadianencyclopedia.com/en/article/gore-creek-skeleton-an-early-human-in-north-america/>
- 2011 The China Lake and Big Bar Burials. (Cybulski JS). Profile in Chapter 14 (Biology of Contemporary and Past Populations: The Ethics of Studying Human Remains) In *A Human Voyage; Exploring Biological Anthropology* by Keenleyside A, Lazenby R, Toronto: Nelson Education Ltd., p. 327.
- 2010 Human skeletal variation and environmental diversity in northwestern North America. (Cybulski JS). In *Human Variation in the Americas: The Integration of Archaeology and Biological Anthropology*, Auerbach BM, ed, Occasional Paper No. 38, Center for Archaeological Investigations, Southern Illinois University, Carbondale, pp. 77-112.
- 2010 Brief communication: mitochondrial haplotype C4c confirmed as a founding genome in the Americas. (Malhi RS, Cybulski JS, Tito RY, Johnson J, Harry H, Dan C). *American Journal of Physical Anthropology* 141: 494-497.
- 2009 Contributor and Panelist in *Decoding Implications of the Genographic Project for Archaeology and Cultural Heritage*, convened and edited by Nicholas G, Hollowell J, *International Journal of Cultural Property* 16(2): 141-183.
- 2008 Davidson Black. (Cybulski JS). The Canadian Encyclopedia. Available online at <http://www.thecanadianencyclopedia.com/en/article/davidson-black/>
- 2007 Contributor to *All You Ever Wanted to Know About Forensic Science in Canada but Didn't Know Who to Ask!* Compiled and edited by Anderson GS for the Canadian Society of Forensic Science. On-line. Internet Explorer. 23 June 2016. <http://www.csfs.ca/how-to-become-a-forensic-scientist.html>
- 2007 The Big Bar Lake burial: Middle Period human remains from the Canadian Plateau. (Cybulski JS, McMillan AD, Malhi RS, Kemp BM, Harry H, Cousins S) *Canadian Journal of Archaeology* 31: 55-79.
- 2007 Mitochondrial haplogroup M discovered in prehistoric North Americans. (Malhi RS, Kemp BM, Eshleman J, Cybulski JS, Smith DG, Cousins S, Harry H) *Journal of Archaeological Science* 34: 642-648.
- 2006 Skeletal biology: Northwest Coast and Plateau. (Cybulski JS). In *Handbook of North American Indians, Vol. 3, Environment, Origins and Population*, Ubelaker D, ed, Washington: Smithsonian Institution, pp. 532-547.
- 2002 General and specific skeletal indicators in an eastern Ontario identification. (Cybulski JS, Young J). *Canadian Society of Forensic Science Journal* 35: 57-65.
- 2001 Human biological relationships for the northern Northwest Coast. (Cybulski JS). In *Perspectives on Northern Northwest Coast Prehistory*, Cybulski JS ed, Mercury Series Paper 160 (Archaeology), Canadian Museum of History, Gatineau, pp. 107-144.