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Disease, Disability & Immortality: Hope & Hype Module Essential Resources List

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The resources listed here fall into the following categories and illustrate the wide range of views and applications associated with stem cell research for treatment and enhancement.

Hope v. Hype

Biomedical & Social Models of Health (Cure v. Care)

Disability, Diversity & Discrimination (Ableism)

Disability Rights & Justice

Justice & Access to Stem Cell Treatments

Stem Cells for Genetic Diseases (Animal & Human)

Adipose (Fat) for Spinal Cord Injury & Other Disabilities (Animal & Human)

ESC Derived Treatment for Spinal Cord Injury (Human/Geron/Asterias Biotherapeutics)

Muscle & Military Defense

Nanotech and Induced Stem Cell Treatment for Spinal Cord Injury (Kessler)

Fetal Stem Cell Transplants for Degenerative Diseases

Unapproved or Fraudulent

Organoids

Enhancements

Hope v. Hype

1. **Blog:** Shakespeare, T. Oct, 29, 2004. Christopher Reeve: You'll Believe a Man Can Walk. *BBC Ouch Blog*. [Link](#)
2. **Film Trailer:** Hope Deferred Film Trailer. Brooke Ellison Project. [Link](#)
3. **Blog:** Shanks, Pete. Aug 4, 2010. Stem Cell Education and Hype. *Biopolitical Times*. [Link](#) (1 page)
4. **Comic:** Macleod, K. et al. May 20 2012. Hope Beyond Hype: A Story of Stem Cells From Discovery to Therapy. *EuroStemCells*.1-16. [Link](#)
5. **Bioethics Article:** Murdoch, C. and Scott, C. June 2010. Stem cell tourism and the power of hope. *The American Journal of Bioethics*. 10(5): 16-23. *Commentaries are included in this special issue.*
6. **Bioethics Commentary:** Caplan, A. & Levine, B. June 2010. Hope, hype, and help: Ethically assessing the growing market of stem cell therapies. *The American Journal of Bioethics*. 10(5): 24-25.
7. **Review:** King, M. & Perrin, J. July 7, 2014. Ethical issues in stem cell research and therapy. *Stem Cell Research & Therapy*. 5 (4):85(1-6). [Link](#)
8. **Professional Society Blog:** Barfoot, J. July 30, 2015. Stem Cell Research: Promise, Progress, and Hype. *Stem Cells in Focus Blog*. International Stem Cell Research Society. [Link](#)
9. **CIRM Blog:** McCormack, K. Dec 11, 2015. The "Right to Try" Laws Are More Feel Good Than Do Good. *The Stem Cellar*. [Link](#)

10. **Science STAT Blog.** Zimmer, C. Dec 23, 2015. Science in 2016: Separating the Hype From the Promise. *Science STAT Blog*. [Link](#)

Biomedical & Social Models of Health (Cure v. Care)

1. **Report:** Bush, Vannevar. 1945. Science: The Endless Frontier. *Original letter from President Roosevelt to Bush and his report articulating an investment in biomedical research and basic science*. [Link](#)
2. **Conference Paper:** Cozzens, S. 2000. Social Sciences: Shunned at the Frontier. In *Science the Endless Frontier: Learning from the Past, Designing for the Future*. Highlights from a conference series held between 1994-1996:101-105. [Link](#)
3. **Conference Paper:** Crow, M.2000. Beyond the Endless Frontier. In *Science the Endless Frontier: Learning from the Past, Designing for the Future*. Highlights from a conference series held between 1994-1996:114-118. [Link](#)
4. **Article:** Shakespeare, T. & Watson, N. 2002. The social model of disability: An outdated ideology. *Research in Social Science and Disability*. 2:9-28. [Link](#)
5. **Book Chapter:** Garland, M., & Stull, J. 2003. Module 9: Public Health and Health Systems Reform: Access Priority Setting and Allocation of Resources. In B. Jennings, et al. (Eds.), *Ethics and Public Health. Model Curriculum* (pp. 241--251). Association of the Schools of Public Health, The Health Resources and Service Administration and the Hastings Institute. [Link](#)
6. **Research Article:** Hahn, H. & Belt, T. 2004. Disability identity and attitudes toward cure in a sample of disabled activists. *Journal of Health and Social Behavior*.45:453-464. [Link](#)
7. **Editorial:** Anonymous. 2009. What is health? The ability to adapt. *The Lancet*. 373(9666):781. [Link](#)
8. **Article:** Scherman, E. 2009. The speech that didn't fly: Polysemic readings of Christopher Reeve's speech to the 1996 Democratic National Convention. *Disability Studies Quarterly*. 29 (2): (~10 pages) [Link](#)
9. **Encyclopedia:** Wasserman, D., & Asch, A. Feb 2013. Disabilities, People With. *International Encyclopedia of Ethics* () Blackwell Publishing Ltd. doi:10.1002/9781444367072.wbiee639. [Link](#)
10. **Interview:** Dec 2015. Lessons Learned. Interview with Robert Klein, Americans for Cures. *World Stem Cell Report*. 4(1):*Stem Cells Translational Medicine*. [Link](#)
11. **News:** Kluger, J. Jan 13, 2015. Why Curing Cancer is Not a 'Moonshot.' *Time.com*. [Link](#)

Disability, Diversity & Discrimination (Ableism)

1. **Blog Post:** Linton, S. 1998. "Reassigning Meaning" In *Claiming Disability. Knowledge and Identity*. New York University Press. 8-17 as seen on the *Disability History Museum*. [Link](#)
2. **Feature:** Johnson, H. Feb 16, 2003. Unspeakable Conversations. *New York Times Magazine*. ~ 10 pages. [Link](#)
3. **Article:** Wilson, J. 2003. Evolving metaphors of disease in postgenomic science: Stigmatizing disability. *Rhetoric Review*. 22(2):197-202. [Link](#)
4. **Article:** Stein, S. Spring 2004. The president's two bodies: Stagings and restagings of FDR and The New Deal politic. *American Art*. 18(1):32-57.
5. **Op-Ed:** Asch and Wasserman. Sept 2009. Informed Consent and Prenatal Testing: The Kennedy-Brownback Act. *The Virtual Mentor. AMA Journal of Ethics* 11 (9):721-724. [Link](#)
6. **News:** Adams, R. 2011. Bring Down the Barriers--Seen and Unseen. *The Chronicle of Higher Education*. [Link](#)
7. **News:** Davis, L. 2011. Why is Disability Missing from the Discourse on Diversity? *The Chronicle of Higher Education*. [Link](#)
8. **Article:** Quackenbush, N. 2011. Speaking of-and as-stigma: Performativity and Parkinson's in the rhetoric of Michael J. Fox. *Disability Studies Quarterly*. 31 (3): (~10 pages) [Link](#)

9. **Historical Feature:** Brignell, V. Dec 10, 2010. The Eugenics Movement Britain wants to Forget. *New Statesman*. [Link](#) (audio available at website; 2 ½ pages)
10. **Historical Feature:** Brignell, V. Dec 10, 2010. When America Believed in Eugenics. *New Statesman*. [Link](#) (audio available at website; 3 1/2 pages)
11. **Blog Post:** Baynton, D. 2001. "Language Matters: Handicapping an Affliction" In Radio Series titled *Beyond Affliction* on NPR by Laurie Block, on the *Disability History Museum*. (1 page) [Link](#)
12. **Opinion:** Nee'man, A. Dec 30, 2015. Screening sperm donors for autism? As an autistic person I know that's the road to eugenics. *The Guardian*. [Link](#)

Disability Rights & Justice

1. **Article:** Scotch, R., & Schriener, K. 1997. The Americans with Disabilities Act: Social Contract or Special Privilege?: Disability as human variation: Implications for policy. *Annals of the American Academy of Political and Social Science*. 549 (1):148-159. [Link](#)
2. **Book Chapter:** Asch, A. 2001. Disability, Bioethics and Human Rights. In G. L. Albrecht, et al. (Eds.), *Handbook of Disability Studies* (pp. 297-326-297-326). Thousand Oaks, California: Sage Publications.
3. **Book Review:** Haller, B. *Mary Johnson*. 2004. *Make Them Go Away: Clint Eastwood, Christopher Reeve & the Case Against Disability Rights*. *Disability Studies Quarterly*. 34 (3). [Link](#)
4. **Video:** The 20th Anniversary of the ADA and the Affordable Care Act. *YouTube*. (See time stamps 12-15 and 24-31min). [Link](#)
5. **News:** Rich, M, April 6, 2011. Disabled, but Looking for Work. *New York Times*: B1. [Link](#)
6. **Encyclopedia:** Wasserman, D., & Asch, A. Feb 2013. Disabilities, People With. *International Encyclopedia of Ethics* Blackwell Publishing Ltd. [Link](#)
7. **Blog Post:** AbilityOne.gov History. [Link](#). *Reviews the evolution of the Wagner-O'Day Act passed by President Franklin D. Roosevelt in 1938, providing employment opportunities for the disabled.*

Justice & Access to Stem Cell Treatments

1. **Review:** Faden, R. et al. November-December 2003. Public stem cell banks: Considerations of justice in stem cell research and therapy. *The Hastings Report*. [Link](#)
2. **Article:** Greene, M. 2006. To restore faith and trust: Justice and biological access to cellular therapies. *The Hastings Center Report*. 36 (1): 57-63. [Link](#)
3. **Article:** Regenberg, A. & Mathews, D. 2011. Promoting justice in stem cell intellectual property. *Regenerative Medicine*. 6 (6 Suppl): 79-84. [Link](#)

Stem Cell Therapy Trials, Regulation, & Fraud

Stem Cells for Genetic Diseases (Animal & Human)

1. **Video News:** Baker, M. Dec 23, 2009. Method of the Year 2009: IPS Cells. [Link](#)
2. **Video:** April 2, 2010. Thirteen/Education Broadcasting Corporation (Producer). *Religion and Ethics Weekly: Embryonic Stem Cell Controversy*. [Link](#)
3. **Conference Video:** Sugarman, J., Zoloth, L. & Hempel, C. October 4 2010. The Immortal Life of Henrietta Lacks - lessons for stem cell researchers and patients. World Stem Cell Summit, Pasadena, CA. *Stem Cells Across the Curriculum*. [Link](#) (Chris Hempel last 20 minutes)
4. **Infographic:** Andrews, P. & Gokhale, P. 2011. From teratomas to embryonic stem cells: Discovering pluripotency. Macmillan Publishers and *Nature Reviews Molecular Biology*. [Link](#)
5. **Review:** Pagliuca, F. & Melton D. 2013. How to make a functional β -cell. *Development*. 140(12) 2472-83. [Link](#)
6. **Review:** Sternecker J. et al. 2014. Investigating human disease using stem cell models. *Nature Reviews Genetics*. 15:625-639. [Link](#)

7. **Review:** Munoz, J. et al. 2014. Concise review: Umbilical cord blood transplantation: Past, present, and future. *Stem Cells Translational Medicine*. 3(12):1435-1443 [Link](#)
8. **Blog Post:** June 22, 2015. Updates on Harvard's Diabetes Stem Cell Research from ADA 2015. *diaTribe* [Link](#)
9. **Article:** Agulnick, A. et al. Oct 4, 2015. Insulin-producing endocrine cells differentiated in vitro from human embryonic stem cells function in macroencapsulation devices in vivo. *Stem Cells Translational Medicine*. 4 (10):1214-22. [Link](#)

Adipose (Fat) for Spinal Cord Injury & Other Disabilities (Animal & Human)

10. **Infographics and Video: AdiStem:** Photo-activated PRP & Stem Cell Technology. [Link](#)
11. **Review:** Gimble, J. et al. 2007. Adipose-derived stem cells for regenerative medicine. *Circulation Research*. 100(9):1249-1260. [Link](#)
12. **Review:** Gimble, J. et. al. 2011. Taking stem cells beyond discovery: A milestone in the reporting of regulatory requirements for cell therapy. *Stem Cells and Development*. 20 (8): 1295-1296. [Link](#)
13. **Article:** Ra, J. et al. 2011. Safety of intravenous infusion of human adipose tissue-derived mesenchymal stem cells in animals and humans. *Stem Cells and Development*. 20(8): 1297-1308. [Link](#)
14. **Review:** Mizuno, H. et al. 2012. Concise review: Adipose-derived stem cells as a novel tool for future regenerative medicine. *Stem Cells*. 30 (5): 804-10. [Link](#)
15. **Review:** Nordberg R. & Lobo E. 2015. Our fat future: Translating adipose stem cell therapy. *Stemcells Translational Medicine* 4: 974-979. [Link](#)
16. **Perspective:** Taylor-Weiner, H & Zivin J. 2015. Medicine's wild west—unlicensed stem-cell clinics in the United States. *NEJM*. 373(11):985-87. [Link](#)

Embryonic Stem Cells Derived Treatment for Spinal Cord Injury (Human/Geron/Asterias Biotherapeutics)

17. **Video:** UC Irvine Hans Keirstead. Stem Cells Restore Mobility in Neck Injured Rats. UCI News. [Link](#)
18. **Infographic:** Chamany, K. et al. 2013. Embryo.IVF.Extranumerary Embryo AND PGD. ZoomGraphics. Stem Cells Across the Curriculum. [Link](#)
19. **News:** Woodbury, M.A. 2009. Hans Keirstead Can Make Mice Walk Again. *Esquire.com*. (1p) [Link](#)
20. **News:** Pollack, A. 2009 Milestone in Research With Stem Cells. *New York Times*: B1 [Link](#)
21. **News:** Pollack, A. 2010. Stem Cell Trial Wins Approval of F.D.A. *New York Times*. [Link](#)
22. **Feature:** Regalado, A. June 21, 2011. Stem-Cell Gamble. *MIT Technology Review*. [Link](#)
23. **Tutorial with Film:** Eurostemcell. April 2, 2015. Spinal Cord Injuries: How could stem cells help? [Link](#)
24. **Perspective:** Scott, C., & Magnus, D. 2014. Wrongful termination: Lessons from the Geron clinical trial. *Stem Cells Translational Medicine*. 3(12):1398-1401. [Link](#)
25. **News:** Dubnicoff, T. Oct 22, 2015. New Video: Spinal Cord Injury and CIRM-funded Stem Cell Based Trial. *Stem Cell Cellar.CIRM*. [Link](#)

Muscle & Military Defense

26. **Article:** Dean, W. 2011. The armed forces institute of regenerative medicine: A collaborative approach to department of defense-relevant research. *Regenerative Medicine*. 6(6 Suppl):71-74. [Link](#)
27. **News:** Drummond, K. Sept 24, 2012. World's Most Wired War Healer. *Wired.com*. [Link](#)
28. **News:** Fountain, H. Sept 17, 2012. Human Muscle, Regrown on Animal Scaffolding. *New York Times*: A1. [Link](#)
29. **Video:** Singh, V. Sept 24, 2012. Extracellular Matrix. *New York Times Video Science*. [Link](#)
30. **Video:** Ley, B. Jan 22, 2012. Outside The Lines. The Stem Cell Salvation as seen on YouTube.ESPN2 (20 min) [Link](#)

31. **Animations and Post:** Lewis, R. & Barefoot, J. July 23, 2014. Stem Cells and Sports Medicine: An Overview. *EuroStemCell*. [Link](#)

Nanotech and Induced Stem Cell Treatment for Spinal Cord Injury (Kessler)

32. **News:** Paul, M. April 2, 2008. Promising New Stem Cell Nanotechnology For Spinal Cord Injury. *Northwestern University News*. [Link](#)
33. **News:** Anonymous. 2008. Top down bottom up bridging two cultures. *Nature Nanotechnology*. 3(6): 317. [Link](#)
34. **Research:** Tysseling-Mattiace, V. et al. April 2, 2008. Self-assembling nanofibers inhibit glial scar formation and promote axon elongation after spinal cord injury. *Journal of Neuroscience*. 28(14): 3814-3823. [Link](#)
35. **Film:** *Terra Incognita: The Promise and Perils of Stem Cell Research*. Cancer Finitzo, M. (Director) 2007. Independent Lens/ Kartemquin Films; PBS. [Trailer Link](#)
36. **Review:** Assuncao-Silva, R. et al. June 1, 2015. Hydrogels and cell based therapies in spinal cord injury regeneration. *Stem Cells International*: 1-24. [Link](#)

Fetal Stem Cell Transplants for Degenerative Diseases

37. **News:** Lindvall, O. et al. 1990. Grafts of fetal dopamine neurons survive and improve motor function in Parkinson's Disease. *Science*. 247 (4942): 574-77. [Link](#)
38. **Research Article:** Shablott, M. et al. 1998. Derivation of pluripotent stem cells from cultured human primordial germ cells. *Developmental Biology*. 95: 13726-3731. [Link](#)
39. **News:** Anonymous. Oct 27, 2011. A priceless resource. *Nature* 478:427. [Link](#)
40. **News:** Anonymous. Oct 26, 2011. Tissue-bank shortage: Brain child. *Nature* 478 :4242-443. [Link](#)
41. **Research Article:** Lu J. et al. May 25, 2011. Generation of neural stem cells from discarded human fetal cortical tissue. *Journal of Visual Experiments*. 51 (e2681). [Link](#)
42. **Review:** Wadman, M. June 26, 2013. Medical research: Cell division. *Nature*. 498:422-426. [Link](#)
43. **Research Article:** Barker, R. et al. 2013. Fetal dopaminergic transplantation trials and the future of neural grafting in Parkinson's Disease. *The Lancet Neurology*. 12: 84-91. [Link](#)
44. **Research Article:** Hsieh, J. & Schneider, J. 2013. Neural stem cells, excited. *Science* 339:1534-535. [Link](#)
45. **Research Article:** Zhao, T. et al. Sept 3, 2015. Humanized mice reveal differential immunogenicity of cells derived from autologous induced pluripotency. *Cell Stem Cell*. 17(2):353-9. [Link](#)

Unapproved or Fraudulent

46. **60 Minutes Script and Main Site:** Sept. 12, 2010. 21st Century Snake Oil. 60 Minutes. *CBSnews.com* [Link](#)
- a. **Video** Sept. 12, 2010. 21st Century Snake Oil. Part 1 Reveal. 60 Minutes. *CBSnews.com* (13:23 min) [Link](#)
- b. **Video** Sept. 12, 2010. 21st Century Snake Oil. Part 2 Reveal. 60 Minutes. *CBSnews.com* (12 min) [Link](#)
47. **60 Minutes Script:** Jan 9, 2012. Stem Cell Fraud. 60 Minutes. *CBSnews.com* [Link](#)
- a. **Video** Jan 8, 2012. Stem Cell Fraud. 60 Minutes. *CBSnews.com* (15 min) [Link](#)
48. **News:** Cyranoski, D. 2010. FDA challenges stem-cell clinic. *Nature*. 466 (7309):909.
49. **News:** Ledford, H. June 30 2011. Stem-cell scientists grapple with clinics. *Nature*. 474:550. [Link](#)
50. **Article:** Nov 6, 2011. European medicines agency, CAT secretariat & US food and drug administration. 2011. *Regenerative Medicine*. 6(6 Suppl):90-96. [Link](#)
51. **News:** Cyranoski, D. July 6, 2012. Patients Seek Stem-Cell Compensation. *Nature News Blog*. [Link](#)
52. **News:** Cyranoski, D. Aug 2, 2012. FDA's claim over stem cell upheld. *Nature*. 488:14. [Link](#)
53. **Article:** Turner, L. 2015. US stem cell clinics, patient safety, and the FDA. *Trends in Molecular Medicine*. 21(5):271-273. [Link](#)

Organoids

1. **Video:** Safer, M. July 25, 2010. Growing Body Parts. *60 minutes*. YouTube (12:33 min) [Link](#)
2. **Review:** Willyard C. July 29, 2015. The boom in mini stomachs, brains, breast, kidneys, and more. *Nature*. 532 (7562): 520-522. [Link](#)
3. **Review:** Reardon, S. July 15, 2015. 'Organs-on-chip' go mainstream. *Nature*. 523: 266. [Link](#)
4. **Review:** Marx, V. June 18, 2015. Tissue engineering: Organs from the lab. *Nature*. 522:373-377. [Link](#)
5. **Review:** Chi, K. Sept 1, 2015. Orchestrating organoids. *The Scientist*. [Link](#)
6. **News Video:** Becerra, L. & Biek, R. Aug 4, 2015. Little Organs Could Be Big for Stem Cell Research. *Newsy.com*. [Link](#)
7. **Animation:** Gladstone Institutes. iPSCs to Direction Reprogramming. Bruce Conklin. [Link](#)
8. **Podcast:** Vaccarino, F. Sept 1, 2015. Ep 52: Stem Cells and Autism Featuring Dr. Flora Vaccarino. *The Stem Cell Podcast*. [Link](#) (28:00-1:03min)

Enhancements

1. **Feature:** Begley, S. Oct 20, 2010. All Natural: Why Breasts are the Key to the Future of Regenerative Medicine. *Wired Magazine*. [Link](#)
2. **News:** Schmid, W. August 12, 2011. Bank Your Fat to Look Younger. *Harpers' Bazaar*. [Link](#)
3. **Feature:** Jabr, F. Dec 17, 2012. In the Flesh: The Embedded Dangers of Untested Stem Cell Cosmetics. *Scientific American*. [Link](#)
4. **Mini-Review:** Wehrwein, P. Dec 6, 2012. Repeat to fade. *Nature*. 492: S12-S13. [Link](#)
5. **Film:** *Fixed: The Science Fiction of Human Enhancement*. Brashear, R. (Director). 2013. Making Change Media. [Trailer Link](#).
6. **Blog:** Langille, J. Oct 9, 2014. The Ethics of Using Stem Cells for Enhancement. [Link](#).
7. **Review:** Scott, C. and DeFrancesco, L. 2015. Selling long life. *Nature Biotechnology*. 33 (1):31-40. [Link](#)