**ECO CHIC Class Readings:**

PDFs will be provided on Google drive

**INTRODUCTION**

“Bio-Art: The ethics behind the aesthetics,” Frances Stacey (*Nature*, July 2009, Vol. 10, pp. 496-500)

“A history of Art involving DNA,” George Gessert in *BioMediale: Contemporary Society and Genomic Culture* book edited and curated by Dmitry Bulatov. Published by The National Centre for Contemporary Arts (Kaliningrad Branch, Russia: 2007)

# “Biotechnologie as Mediality: Strategies of organic media art” by Jens Hauser in [*Plastik: art & science #02 - In vivo, L’artiste en l’œuvre ?*](http://art-science.univ-paris1.fr/sommaire.php?id=474)

<http://art-science.univ-paris1.fr/plastik/document.php?id=483>

**TOPIC: FOOD/DNA/PLANTS/HEALTH**

Phil Ross,“*Bioteknecronomicon****.”*** *Biotechnique* Ed. Phil Ross, (Yerba Buena Center for the Arts, 2007)

Larry Shiner and Yulia Kriskovets, “The Aesthetics of Smelly Art”

“Art for Plant’s Sake” by Monika Bakke

Various article excerpts from *Concrete Jungle* ed. Mark Dion and Alexis Rockman (ReSearch Publications: 1996) (including “Urban Food Web”)

“Why McDonald's Fries Taste So Good,” by Eric Schlosser, *Atlantic Monthly* Vol. 287 no1 50-6 Jan 2001

**TOPIC: ECOLOGY AND SCIENCE**

“Ecosystems Unbound: Ethical Questions for an Interventionist Ecology,” by Ben Minteer and James Collins

“Harnessing Evolution: An Historical Primer,” by Kevin M. Esvelt, 2010

“A Powerful New Way to Edit DNA” – *NYT* article

“Peak Nature” by Timothy Morton – *Adbusters* article

“Release of genetically engineered insects: a framework to identify potential ecological effects,”by Aaron S. David, Joe M. Kaser2, Amy C. Morey2, Alexander M. Roth3, & David A. Andow

“The Mammoth Cometh” – *NYT* article

*Frankenstein* excerpt – by Mary Shelley

“ASMA\_on monsters”

**TOPIC: INTERSPECIES/NON-HUMAN ANIMAL**

“Introduction” from *When Species Meet* by Donna Haraway (U. of Minnesota Press, 2007)

“Man and Animal” from *The Open* and other chapters by Giorgio Agamben

“Wim Delvoye: New & Improved” by Dan Cameron, (New Museum of Contemporary Art, NYC: 2002)

“The Sensory World of Animals” by Carl Gans

“Sacrifice and the Transformation of the Animal Body into a Scientific Object: Laboratory Culture and Ritual Practice in Neurosciences,” by Michael E. Lynch (Sage Publications)

“The Mutagenic Arts” by Adam Zaretsky (*Magazine électronique du CIAC - CIAC's Electronic Magazine* No. 23, 2005)

“Art as a Form of Life” (on Joe Davis) by W. Wayt Gibbs from *Scientific American* April 2001

**TOPIC: SYNTHETIC BIOLOGY AND THE ENVIRONMENT (Dan)**

*Gene Drives folder:*

“Environmental Ethics” from the Fall 2011 Edition of the *Stanford Encyclopedia*

*of Philosophy*

<http://plato.stanford.edu/archives/fall2011/entries/ethics-environmental/>

*Biobuilders* – Chapter 1, 2 and 4 – definitions

“Concerning RNA-Guided Gene Drives for the Alteration of Wild Populations,” by Kevin M. Esvelt, Andrea L. Smidler, Flaminia Catteruccia, & George M. Church

“Regulating gene drives - Regulatory gaps must be filled before gene drives could be used in the wild,”by Kenneth A. Oye, Evan Appleton, George Church, Shlomiya Bar-Yam Lightfoot, Andrea Smidler, Kevin Esvelt, Flaminia Catteruccia, Todd Kuiken, Julie McNamara, and James P. Collins

**TOPIC: BODY POLITIC**

Various articles from *Domain Errors! Cyberfeminist Practices*, a Subrosa project, edited by Maria Fernandez, Faith Wilding and Michelle M. Wright, (Autonomedia: 2002) including “Invisible Body” by Lucia Sommers

“Bodies in Biotechnology: Embodied Models For Understanding Biotechnology in Contemporary Art” by Jennifer Willet

**TOPIC: BODIES AND MEDICAL RESEARCH**

*Microbiomics:*

“Germs Are Us”

“My No-Soap, No Shampoo”

Video - MIT Microbiome

*Gene Therapy/Germ-Line Debate:*

“The Fall and Rise of Gene Therapy” by Carl Zimmer

“Chinese scientists genetically modify human embryos: Rumours of germline modification prove true — and look set to reignite an ethical debate,” by David Cyranoski & Sara Reardon

“A prudent path forward for genomic engineering and germline gene modification: A framework for open discourse on the use of CRISPR-Cas9 technology to manipulate the human genome is urgently needed,”

by David Baltimore, Michael Botchan, R. Alta Charo, Jacob E. Corn, Jennifer A. Doudna, Henry T. Greely, G. Steven Martin, Jennifer Puck, Jonathan S. Weissman, Keith R. Yamamoto, Paul Berg, Dana Carroll, George Church, George Q. Daley, Marsha Fenner, Martin Jinek, Edward Penhoet, Samuel H. Sternberg ,

“Germline gene therapy: We’re ready,” by Henry I. Miller

*Regenerative Medicine:*

“Emerging Stem Cell Therapies: Treatment, Safety, and Biology” by Joel Sng and Thomas Lufkin

“Print Thyself” - 3D Print Scaffolding for Organs - *New Yorker* article

**TOPIC: SEMI-LIVING**

*Tissue Culture and Art:*

“Tissue Culture & Art Project: The Semi-Living as Agents of Irony”, by Ionat Zurr and Oron Catts *from Performance and Technology: Practices of Virtual Embodiment and Interactivity*. (Plagrave/Macmillan Publication, ed. Sue Broadhurst, 2005)

“The Vitality of Matter and the Instrumentation of Life, by Ionat Zurr and Oron Catts”

“The Biopolitics of Life Removed from Context – Neolifism,” by Ionat Zurr and Oron Catts

“Bio-Art: Taxonomy of an Etymological Monster” by Jens Hauser from *Hybrid Creatures*.

“Real-Time Demand: Information, Regeneration, and Organ Markets”, by Catherine Waldby and Robert Mitchell, from*Tissue Economies: blood, organs, and cell lines in late capitalism,* (Durham: Duke University Press, 2006)

# Tangy Duff. “Living Viral Tattoos? Crisis Alert!” from Total Art, Fall 2011, <http://totalartjournal.com/archives/857/living-viral-tattoos-crisis-alert/>

**TOPIC: SYNTHETIC BIOLOGY/SYNTHETIC AESTHETICS**

*Synthetic Biology/Synthetic Aesthetics­* – Chapters 1-3 and 6

Biodesign Basics videos

*Our Biotech Future* by Freeman Dyson

Optional: *‘Our Biotech Future’: An Exchange by* Wendell Berry, James P. Herman, and Christopher B. Michael, reply by FreemanDyson

*Genetically Modified Yeast Will Make It Possible to Home-Brew Opiates* – *Wired* article

*Commentary to above article*:

“Regulate ‘home-brew’ opiates: The research community and the public require a fast, flexible response to the synthesis of morphine by engineered yeasts,urge Kenneth Oye, Tania Bubela and J. Chappell H. Lawson.”

*A Life of Its Own* – *New Yorker* article

**TOPIC: AMATEUR BIOLOGISTS**

“Sci-Fi Crime Drama with Strong Black Lead,” by Heather Dewey- Hagborg,

<http://thenewinquiry.com/sci-fi-crime-drama-with-a-strong-black-lead/>

“Transgenic Production and Cultural Resistance: A Seven Point Plan,” by Critical Art Ensemble in *The Molecular Invasion* (Autonomedia: 2002)

“Amateurity and Biotechnology,” Natalie Jeremijenko in *The* *Biotech Hobbyist*

“Modeling Implementing Nonspecifialized Cross-Disciplinary Production” by Critical Art Ensemble and Beatriz da Costa

**TOPIC: General**  **-** Other texts to reference:

*Biodesign: Nature, Science Creativity*

By William Myers (MoMA)

*Meta-Life: Biotechnologies, Synthetic Biology, ALife and the Arts,* edited byAnnick Bureaud, Roger F. Malina, Louise Whiteley  (Leonardo ebook series) Leonardo/ISAST and MIT Press, 2014)