## Advantage 1: Cooperation –

#### First, our Framework for Cooperation is good – The plan is key to both U.S. and Mexican Biotech innovation and development – it pushes Mexico beyond a simple manufacturing base

Surpin et al 2k7

(Beni Surpin, Bram Hanono and Joseph Panetta, CEO, Biocom, Master of Public Health from the University of Pittsburgh a bachelor of science degree in biology from LeMoyne College Panetta has been actively involved in biotechnology product development and commercialization for more than 20 years, joined Mycogen Corporation, a pioneering San Diego based biotechnology firm where he played a principal role in commercialization of the first recombinant DNA microbes and crops, “Moving Technology Across the Border: The Future of Biotech for the U.S. and Mexico,” pg online @ http://www.latinolawblog.com/2007/10/articles/crossborder-insolvency/moving-technology-across-the-border-the-future-of-biotech-for-the-us-and-mexico/ //ghs-ef)

With so many … region as a whole.

#### And, the aff offers a model for Mexican innovation and cooperation on Life Sciences

Surpin et al 2k7

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Historically, the collaborative … to new levels.

#### And, Cross-border cooperation catalyzes biotech innovation — that spreads globally and establishes an international model for the life sciences

SDD 2k7 — San Diego Dialogue, a division of University of California San Diego Extension, contributing to the advancement of research, relationships and solutions to the San Diego-Baja California crossborder region's long-term challenges in innovation, economy, health and education. As a part of the University of California, San Diego (UCSD), Division of Extended Studies and Public Programs, the Dialogue is an entirely self-funded public policy organization (San Diego Dialogue, Crossborder Group Inc., June 2007, “Borderless Biotech & Mexico’s Emerging Life Sciences Industry,” pg online @ <http://www.sandiegodialogue.org/pdfs/Borderless_Biotech.pdf> //ghs-ef)

This document is … of borderless biotech.

#### And, Mexico is key – Boasts UNIQUE expertise and base of scientific research but commercialization is key

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In most discussions … generics bioequivalency requirements.

#### And, IP Protections provide the BEST protections for the poor and encourage Latin American Specific Disease and Pharma Breakthroughs

Bacalski 2k6

(Juan, J.D., University of Arizona James E. Rogers College of Law, 2007; B.S., Animal Physiology and Neuroscience, University of California, San Diego, 1993, “Mexico's Pharmaceutical Patent Dilemma And The Lesson Of India,” Fall, 2006 23 Ariz. J. Int'l & Comp. Law 717 pg lexis//ghs-ef)

Technology thrives when … the world market.

#### Second, the impacts –

#### First, Life Sciences – The impact is multiple scenarios for Extinction

NAS 8 (National Academy of Sciences, “The Role of the Life Sciences in Transforming America's Future Summary of a Workshop” December 3, 2008, Board on Life Sciences Division on Earth and Life Studies, National Research Council)

A Critical Time for the Life Sciences …sustainably on earth.

#### Biotech advances independently solves extinction

Trewavas, 2k – Institute of Cell and Molecular Biology at the University of Edinburgh

(Anthony, “GM Is the Best Option We Have,” 6/5/2000, www.agbioworld.org/biotech-info/articles/biotech-art/best\_option.html)

In 535A.D. a volcano … of it is "be prepared".

#### Second is disease - BSL-4 inevitably escapes and leads to extinction

Wilson 12

Professional Associate at the Global Catastrophic Risk Institute and J.D. from Lewis %26 Clark Law School  
Grant, "Minimizing Global Catastrophic and Existential Risks from Emerging Technologies through International Law," Accepted @ Virginia Environmental Law Journal, <http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2179094>

\*\*\*\*\*GCR/ER = Global Catastrophic and Existential Risk

**An accidental release …**GCR/ER ~**existential risk**~.

#### No vaccines for this strain

Begley 12

(Sharon, et al, "How secure are labs handling world’s deadliest pathogens?," Reuters, http://www.reuters.com/article/2012/02/16/us-health-biosecurity-idUSTRE81E0R420120216)

Last year, labs… Sciences this month.

#### Your defense is factually incorrect

Darling 12

(Astrobiologist Dirk Schulze-Makuch and British astronomer David Darling, Seattle's Big Blog, “9 Strange Ways the World Really Might End,” http://blog.seattlepi.com/thebigblog/2012/03/18/9-strange-ways-the-world-really-might-end/?fb\_xd\_fragment, Washington State University)

Our body is in … **could be threatened.**

#### And, Drug-resistant TB strains are developing in Mexico – spreads quickly and is airborne

Wall Street Journal 3/8

(“Risk of Deadly TB Exposure Grows Along U.S.-Mexico Border,” pg online @ https://groups.google.com/forum/#!topic/tb-roundtable/N3ec0AnfzZA //ghs-ef)

The Tijuana General… World Health Organization.

#### And, XDR TB spread risks becoming a pandemic – puts the global population at risk

**Bio-Medicine 2007** – one of the Internet’s leading online Organizations devoted to biology and medicine,  http://www.bio-medicine.org/medicine-news/The-Dreaded-Disease-Tuberculosis-Raises-Its-Ugly-Head-20674-1/

**The Dreaded Disease…**the highly lethal XDR-TB.

#### Third is Mexican Brain drain –Mexico’s Economy is on the brink – brain drain stunts innovation, growth, and S&T base

Rosen 2k11

(Cecilia Rosen is a science journalist based in Mexico. She completed an MSc in science communication at Imperial College London and lives in Mexico City, pg online @ http://www.scidev.net/global/migration/feature/rebuilding-mexico-s-science-and-technology-capacity-1.html //ghs-ef)

[MEXICO CITY] Despite being one of the richest countries… favoured over basic research.

#### And, robust IP protection for University scientists is necessary to spur genomic medicine in Mexico and prevent Mexican brain drain

March et al 2k8

(Gerardo Jimenez-Sanchez1, Irma Silva-Zolezzi, Alfredo Hidalgo, and Santiago March, National Institute of Genomic Medicine, Mexico, “Genomic medicine in Mexico: Initial steps and the road ahead,” pg online @ <http://genome.cshlp.org/content/18/8/1191.full> //ghs-ef)

Developing genomic medicine… in genomic medicine.

#### These genomic breakthroughs are key high tech algae production

Radakovits et al 10

(Randor, 1 Robert E. Jinkerson,1 Al Darzins,2 and Matthew C. Posewitz1, 1Department of Chemistry and Geochemistry, Colorado School of Mines, and 2National Renewable Energy Laboratory, pg online @ <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2863401/> //ghs-ef)

Interest in a …**and arable land.**

#### Peak Phosphorous is on the way—it’s being depleted faster than it can be produced—causes Resource Wars and Extinction—Phosphorous is Necessary to Sustain Life on Earth

leo Lewis, Asia Business Correspondent, 6/23/08 (“Scientists warn of lack of vital phosphorus as biofuels raise demand,” The Times, pg online @ <http://business.timesonline.co.uk/tol/business/industry_sectors/natural_resources/article4193017.ece> //greenhill-ef)

Battered by soaring …growth of biofuels.

#### the Plan Solves—algae Uses Waste-Water Streams as a Food Source, and Produces Nitrogen and Phosphorus that Can be Used as Fertilizer

Michael Briggs, University of New Hampshire Biodiesel Group, 4 (“Widescale Biodiesel Production from Algae,” pg online @ [**http://www.energybulletin.net/node/2364**](http://www.energybulletin.net/node/2364) //greenhill-ef)

The algae farms… on farmland.

## Advantage 2: U.S. IP Leadership

#### First, Current USTR Focus on 301 Reports Undermines U.S. Trade Policy – Heavy-Handed Approach bullies countries into IP protections

Sutton 2k12

(“Special 301 Report 2012: The USTR’s Bogus List of Countries That "Don't Enforce" Copyrights,” pg online @ <https://www.eff.org/deeplinks/2012/05/special-301-report-2012-ustrs-absurd-list-international-disappointments> //ghs-ef)

The Office of the … USTR this year. It said [pdf]:

#### Failure to enforce Chinese IP protections collapses relations and cooperation on major hotspots-- causes U.S.-China Conflict

Thomson 2k6

(Tom, Executive Director, Coalition for Intellectual Property Rights (CIPR), 15 September 2006 “U.S. Policy Roadmap: Moving China from a Haven for Pirates to a Country of IPR Stakeholders,” pg online @ http://www.tthomsonassociates.com/2006/09/u-s-policy-roadmap-moving-china-from-a-haven-for-pirates-to-a-country-of-ipr-stakeholders/ //ghs-ef)

What are the …strategic economic engagement.”

#### Goes nuclear

Hunkovic ‘9

[Lee. Prof Military Studies @ American Military University. “The Chinese-Taiwanese Conflict – Possible Futures of a Confrontation between China, Taiwan, and the United States of America” [www.lampmethod.com](http://www.lampmethod.com), 2009]

A war between China,… in this study.

#### And, Bayh Dole flips the IP process and is a CRITICAL model – Preserves U.S. IP Credibility and ensures China will build-in IP Protections – spills-over globally

Espinel 2k7

(Victoria A., Assistant U.S. Representative for Intellectual Property and Innovation, Office of the U.S. Trade Representative, Washington, DC<http://www.gpo.gov/fdsys/pkg/CHRG-110hhrg38337/html/CHRG-110hhrg38337.htm> //ghs-ef)

So I would direct … protecting intellectual property.

#### And, U.S.-Mexico IP efforts become a GLOBAL MODEL for IP enforcement

Zagaris et al 94

(Bruce Zagaris, Partner, Cameron & Hornbostel, Washington, D.C.; George Washington University, B.A., J.D., LL.M.; adjunct professor, Washington College of Law, American University, and Fordham University School of Law; chair, Committee on International Criminal Law, Section of Criminal Law, American Bar Association, Alvaro J. Aguilary, Associate, Ffbrega, Barsallo, Molino & Mulino, Panama City, Panama; Universidad Santa Marfa Ia Antigua (Panama), LL.B. 1991; Washington College of Law, American University, “Enforcement of Intellectual Property Protection Between Mexico and the United States: A Precursor of Criminal Enforcement for Western Hemispheric Integration?,” Fordham Intellectual Property, Media and Entertainment Law Journal, pg online @ http://ir.lawnet.fordham.edu/cgi/viewcontent.cgi?article=1098&context=iplj //ghs-ef)

The increase in… global, economic integration.

## Plan text:

**Plan: The United States federal government should provide technical assistance to the government of Mexico for implementation of domestic intellectual property protections**