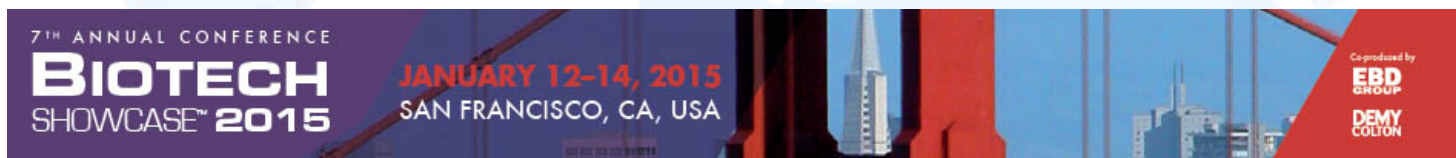




Cells for Therapy and Research



January 13, 2015



International Stem Cell Corporation
5950 Priestly Drive
Carlsbad CA 92008

OTCQB ISCO
www.internationalstemcell.com
1-760-940-6383

Forward Looking Statement

This presentation includes certain statements, estimates and projections with respect to the anticipated future business and performance of the Company, which are collectively referred to as forward-looking statements.

Forward-looking statements reflect various assumptions of management that may or may not prove to be correct, and are intended solely to convey our expectations or predictions about the future performance of the Company.

All forward-looking statements are inherently uncertain as they are based on our current expectations and assumptions concerning the future performance of our Company. This is not an offer to sell nor a solicitation to buy any security.

Cells for Therapy and Research

Powerful stem cell platform

Proprietary

Scalable

Commercially
successful human
cell manufacturing
subsidiary

Robust pre-clinical
pipeline addressing
large unmet
medical needs

Partnering Opportunities
Intellectual Property

UniStemCell
Human Cell
Culture

Neural stem cells
Parkinson's disease
Stroke

Liver cells
Crigler-Najjar syndrome
 α_1 -antitrypsin deficiency

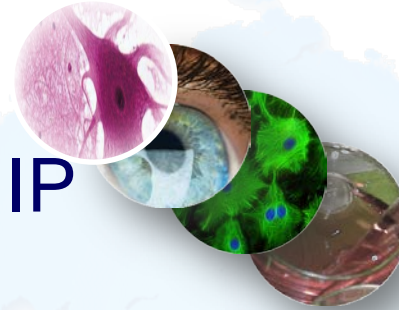
Cornea & Retina cells
Corneal blindness
Age-related Macular Degeneration

\$6 MM revenue
Primary cells & media
Dermatology products

Three Businesses in One



Core stem cell technology and IP
Therapeutic Research
Development Pipeline



\$6.2 million revenue (2013)

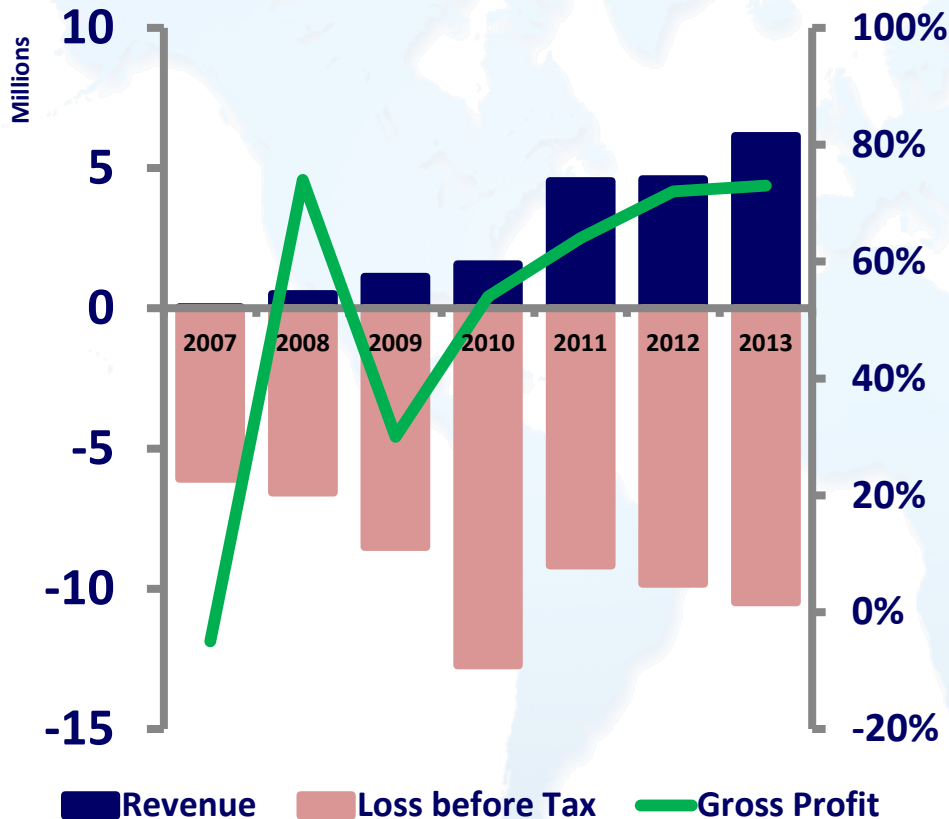
LIFELINE[®]
STEM CELL SCIENCE FOR SKIN™

*Branded skin care products
Proprietary stem cell skin
care technology*

 **LIFELINE**
CELL TECHNOLOGY

*Biomedical research products
Primary human cells &
optimized cell culture media*

Company Profile



Trading symbol	OTCQB ISCO
Headquarters	Carlsbad, CA
Stock price	\$0.07
52 week range	\$0.06 - \$0.28
Market cap.	\$15.1 million
Ave. vol. (90 day)	918,292
Long-term debt	\$0
Full time employees	38

*As of 7/31/14 or last 10-Q unless otherwise states

Pluripotent Human Stem Cells

Human parthenogenesis (unfertilized oocytes)

	PSC	ESC	iPS	Adult
Potential to immune match	Yes	Impractical each line is unique	Individual only	Individual only
Fully proliferative/ Economic source	Strong	Strong	Varies	Weak
Genes manipulated/ Use of viruses	No	No	Yes	No
Genetic diseases/ Carries defective gene	Superior	Superior	Carries damaged gene	Carries damaged gene

Intellectual Property

Freedom to operate in major jurisdictions
Potential competitive advantages in EU

220 patents, applications and licenses

- Pluripotent cell development
- Cell banking
- Manufacturing methods
- Cell differentiation
- Treating diseases

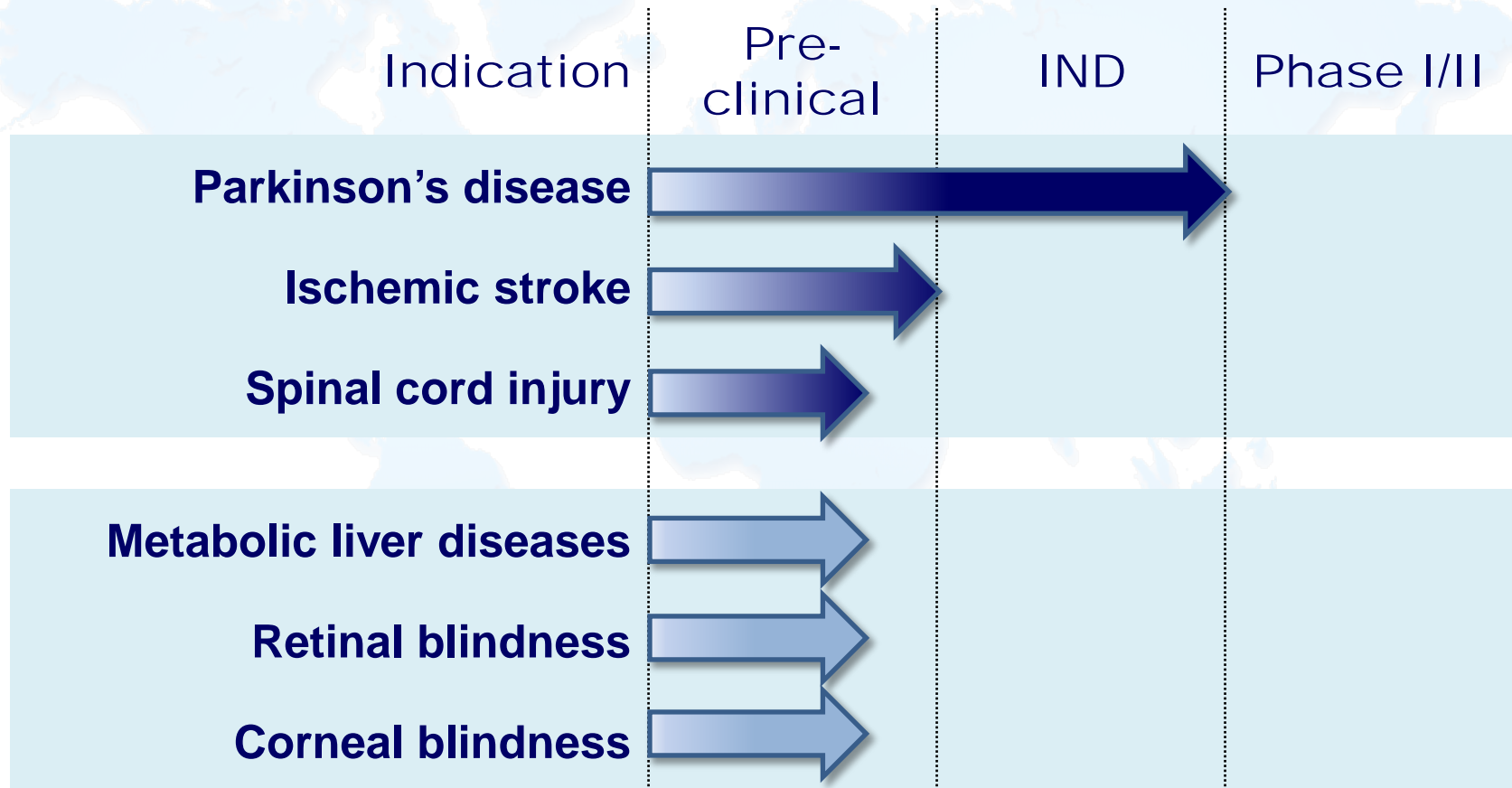
Numerous publications

- Nature's Scientific Reports
- Cell Stem Cell



Broad Pipeline of Targets

Clinical success unlocks significant value



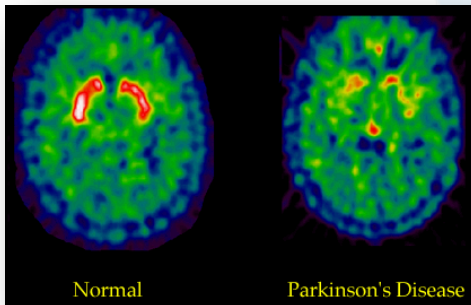
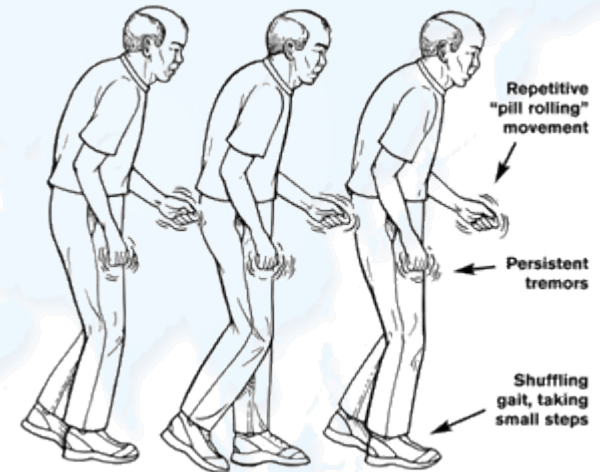
Partner for late-stage clinical development

Parkinson's Disease

2 Neurodegenerative disease

Limited treatment options (symptomatic only)

- About 1 million people in US have PD
- Direct and indirect costs ~\$25 billion
- Rarely diagnosed prior to 50 years of age
- Hallmark motor symptoms
 - Bradykinesia (slow movement)
 - Rigidity
 - Tremor



- Motor symptoms arise as a consequence of the degeneration of dopamine neurons in SNPC
- Greater than 50-70% of SNPC neurons degenerate prior to the appearance of overt symptoms

New Treatment Paradigm

One-time MRI-guided injection of NSC

- Disease modifying
- Rebuild nigro-striatal pathway
 - Migrates and innervate
 - Produce DA neurons
- Prevent further damage
 - Express neuro-protective factors

Standard
neurosurgical
procedure

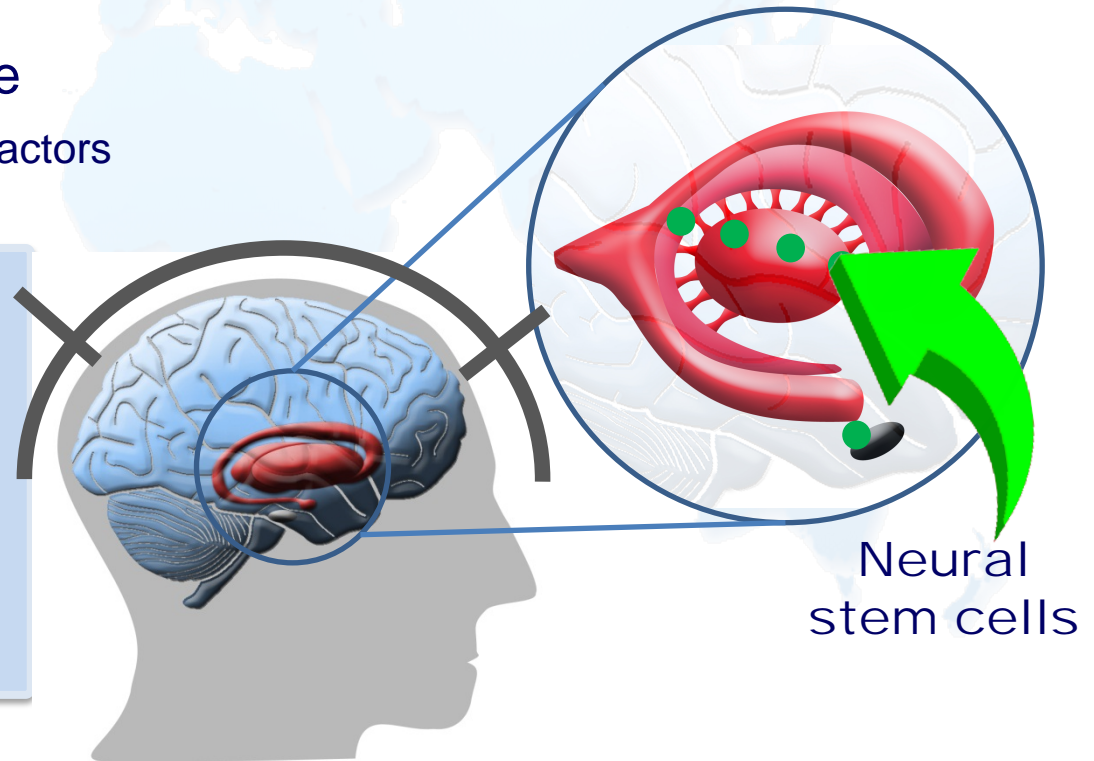
Previous human trials using fetal
tissue with over 400 patients showed:

- Generally good safety and efficacy
- Cells persist > 10 years

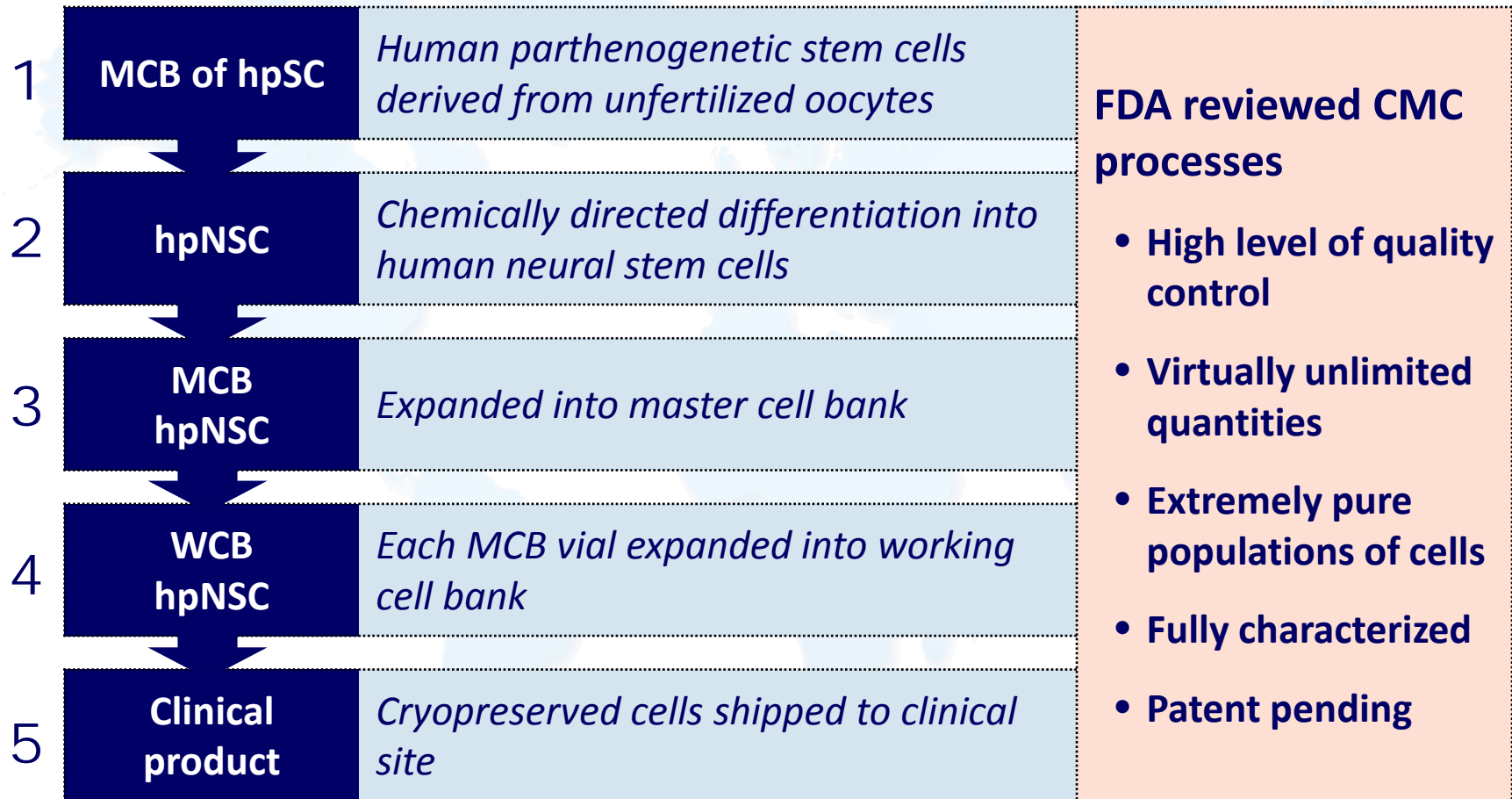
Lack of donors

Ethically controversial

Graft induced dyskinesias



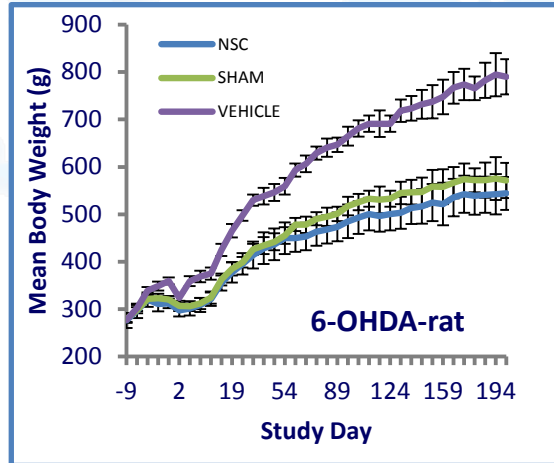
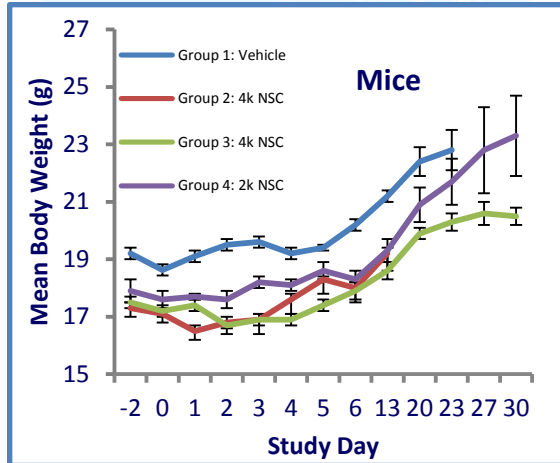
cGMP Manufacturing Process



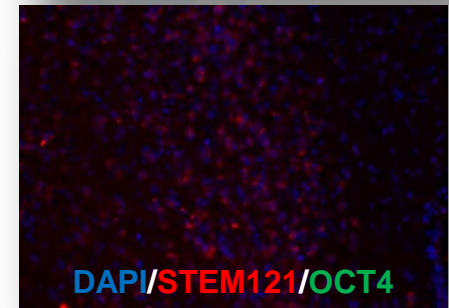
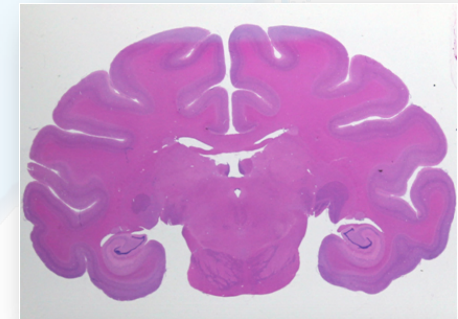
Cell manufacturing strategic asset

Good Pre-Clinical Safety Profile

Body weights remains within normal ranges



Coronal section of the monkey brain stained with hematoxylin and eosin showing a normal morphology without the presence of ectopic tissue



Implantation site stained for human specific antibody STEM121 (in red) and OCT4 (in green), a marker of undifferentiated pluripotent stem cells. OCT4 is completely absent in the graft site.

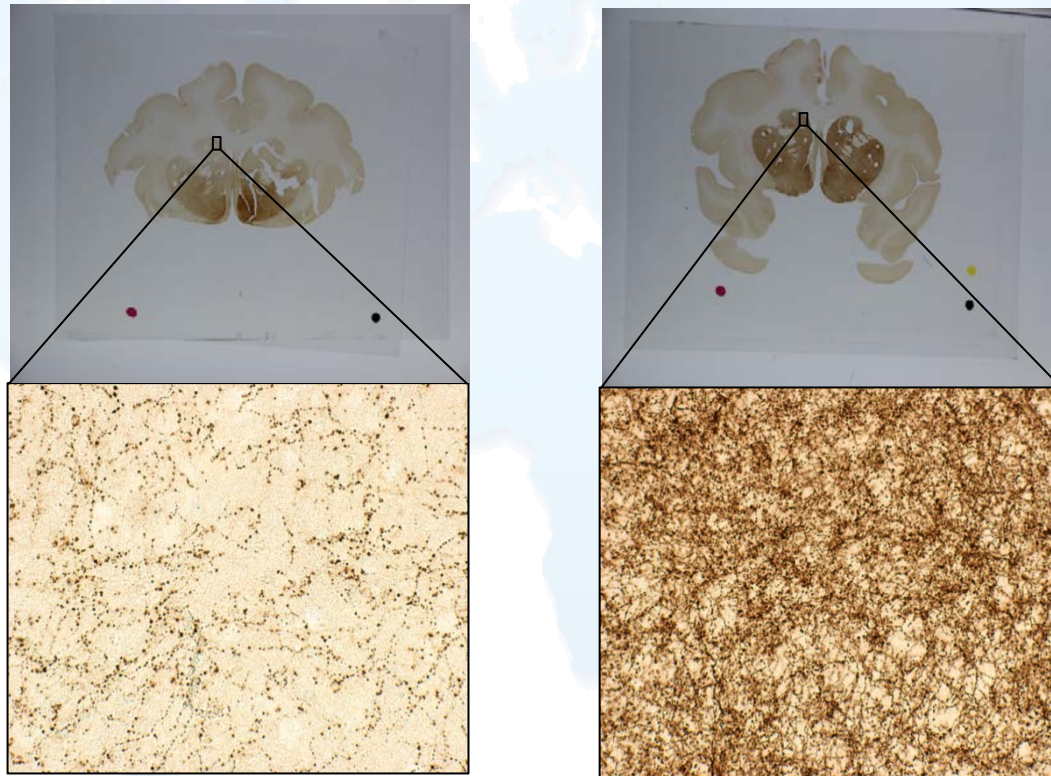
No visible tumors or pluripotent cells

Necropsies showed organs to be normal

Biodistribution indicates no human cells in peripheral organs

Transplanted Cells Integrate

Dopamine Fiber Innervation



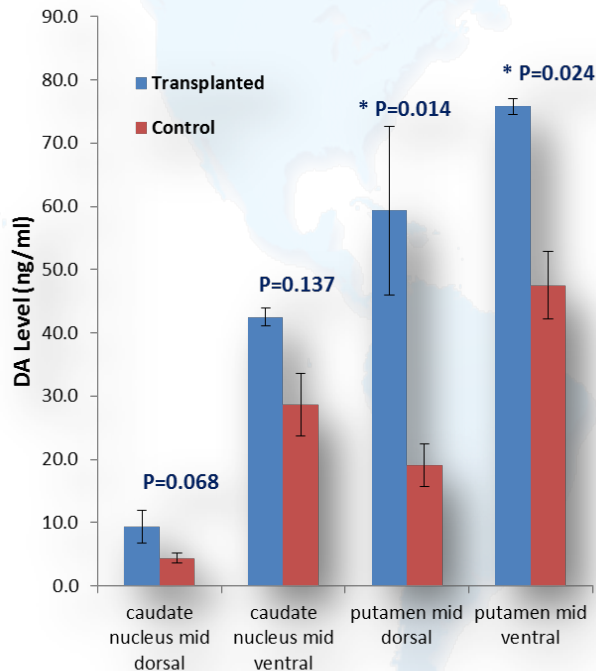
Control

Treatment

Non-Human Primates (6 Month)

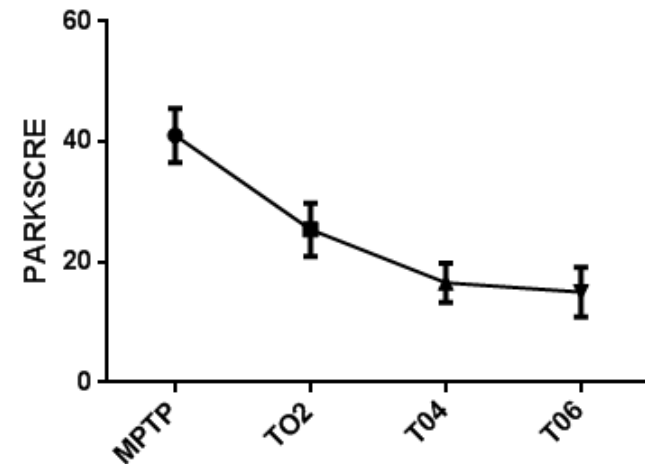
Functional Activity Established

Elevated DA levels 3 Month study



(n=6, asymptomatic)

Return of normal behaviors (12 Month Study)

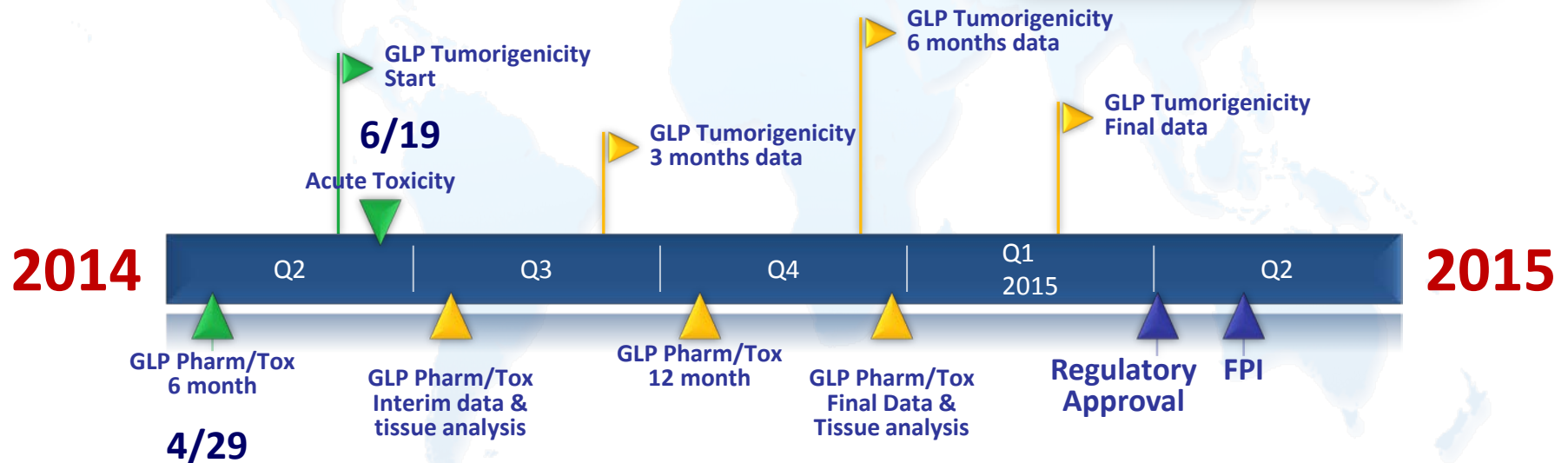
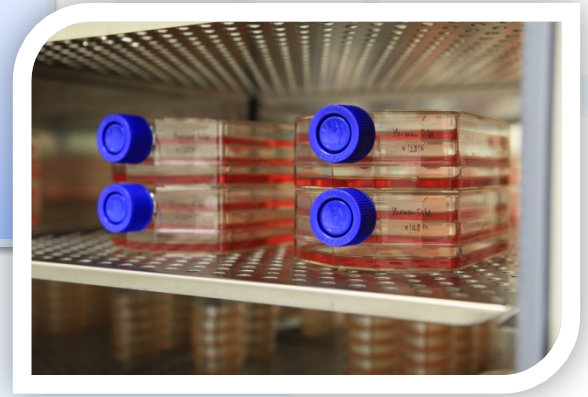


(n=18, severely symptomatic)

***Prof. Gene Redmond,
Yale School of Medicine**

Parkinson's Disease Milestones

- ✓ Manufacturing optimized
- ✓ Primate proof of concept
- ✓ GLP Pre-clinical safety



Phase 1 Clinical Trial Design

12 month single arm dose escalating study

- Doses based on primate data
- 12 subjects with idiopathic Parkinson's disease
- UPDRS < 49 in off-phase
- Stable on medications



Primary endpoints

- Safety
 - No worsening of symptoms
 - Brain lesions (MRI)
- Efficacy
 - Improvement in off-phase UPDRS score

Expected mid-2015

Strategic Partners

Rohto Pharmaceutical Company Inc.



DukeMedicine

Duke University

Parkinson's clinical program

Prof. Stacy MD, Vice Dean of Clinical Research

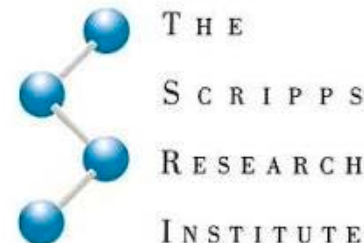
– World-renowned movement disorder expert

Academic

Dr. Evan Y. Snyder, MD PhD, Sanford-Burnham

Dr. D. Eugene Redmond Jr. MD - Yale

Dr. Jeanne Loring, PhD - Scripps



ISCO Growth Opportunities



Regenerative Medicine Biotech

– \$6.2 million (2013) revenues

Pipeline addressing large unmet medical needs

- Pre-clinically validated targets
- Upcoming catalysts

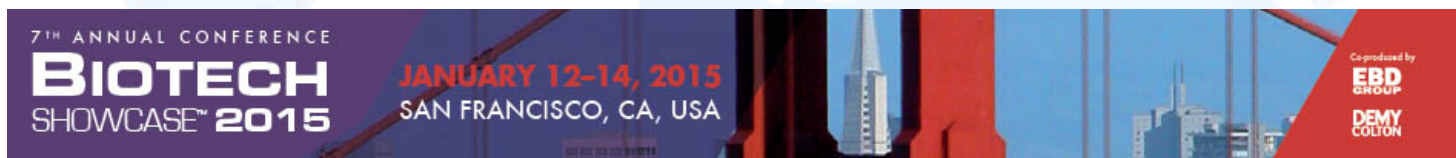


Broadly applicable platform

- Almost inexhaustible source
- Good IP, distinct advantages in EU



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