

# Innovation and IP Protection Imperatives

Concluding Remarks  
2<sup>nd</sup> Global Forum on Innovation, Creativity and Intellectual Property  
US-India Business Council



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1. Reliance Innovation Context

2. IP Protection Improvements

3. Innovation Ecosystem

# Reliance Life Sciences - Initiatives



- ❖ Building a global, research-driven, biotechnology-based business:
  - ❖ **Medical Biotechnology**  
(biopharmaceuticals, pharmaceuticals, clinical research services, regenerative medicine, molecular medicine)
  - ❖ **Plant Biotechnology**  
(plant tissue culture, plant metabolic engineering)
  - ❖ **Industrial Biotechnology**  
(biofuels, biopolymers, biochemicals)
- ❖ Portfolio of 267 patents so far (issued and in-process)



*Reliance Life Sciences is building one of the most diverse and integrated life sciences initiatives in the world.*

# Reliance Life Sciences - Innovation



## ❖ Biopharmaceuticals

- ❖ Monoclonal antibodies
- ❖ Fusion proteins
- ❖ siRNA molecules

## ❖ Regenerative Medicine

- ❖ Stem cell therapies
- ❖ Tissue engineered products

## ❖ Molecular Medicine

- ❖ Cancer biomarkers

## ❖ Biofuels

- ❖ Hybrid biodiesel crops
- ❖ Transgenic biodiesel crops
- ❖ Second generation biofuel technologies (Bioethanol and Biobutanol)



*Reliance Life Sciences is developing a number of innovation-driven products and services.*

# Reliance Group - Innovation Context



- ❖ Traditionally licensed technologies from global majors
- ❖ Innovations mostly in process technology and management methods
- ❖ RLS the first major node for science and technology-driven innovation
- ❖ Graduating from being a user of intellectual property to becoming a creator of intellectual capital
- ❖ Formed **Reliance Innovation Council** in 2007 with the agenda to drive innovation across Reliance



*Reliance is graduating from being a user of intellectual property to becoming a creator of intellectual capital.*

# Reliance Principles



- ❖ Respect others' intellectual property and ensure others respect Reliance IP
- ❖ Ensure:
  - ❖ Patent protection
  - ❖ Publications in international peer-reviewed journals
  - ❖ Presentations in international conferences of repute
  - ❖ Submit information to repositories under 'protection' clause (e.g. Genbank)
- ❖ Operate in areas where patents have expired or where there is freedom to operate



*Reliance Group has a track record of not having a single case of patent infringement in its thirty-year history.*

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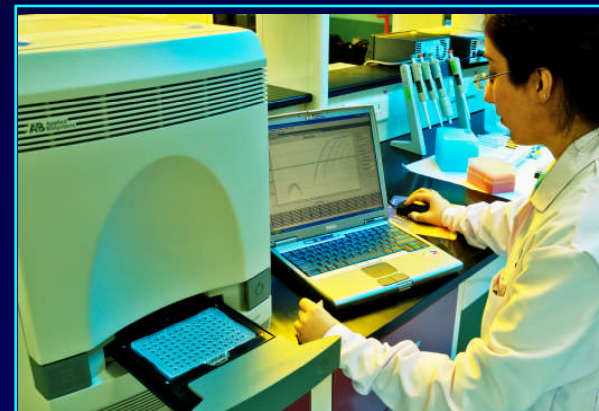
3. Innovation Ecosystem

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# IP Protection Improvements



- ❖ 'Microorganism' definition to include cells
- ❖ Patents to be granted for:
  - ❖ Stem cell therapy
  - ❖ Tissue engineered products
  - ❖ Gene therapy
  - ❖ Animal models
  - ❖ Transgenic plants
  - ❖ 'Specific therapeutic use'
- ❖ Data protection required for:
  - ❖ Pre-clinical studies
  - ❖ Clinical studies
- ❖ Need to have 'International Depository Authority' for cells



*Improvements are required to IP protection laws in India – related to regenerative medicine, use clause & clinical data.*

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# Innovation Ecosystem



## ❖ Fostering Creativity and Innovation

- ❖ Venture funding
- ❖ US University- Indian industry collaborations

## ❖ Promoting IP Literacy

- ❖ IP as a compulsory subject in law schools
- ❖ IP courses in science, engineering and medical education
- ❖ Training of scientists and executives on patent mapping, patent portfolios and valuation



## ❖ Enabling IP Creation

- ❖ Capacity for patent filing, review and grant
- ❖ Incentives for IP-driven revenues

*There are several imperatives in creating an ecosystem for creativity, innovation and intellectual property in India.*



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*Thank You*

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