

CALIFORNIA'S STEM CELL AGENCY

#### **CIRM Accelerating Center Proposal: ICOC Presentation**

June 15, 2016



### **Objectives of today's presentation**

- Alignment between Quintiles and CIRM visions
- Introduction to selected team members
- Value proposition of the proposed Accelerating Center:
  - Plans to market the center services to attract clients (including CIRM awardees) and highlight the value of the center to accelerate clinical trials
  - Synergies between the proposed Accelerating Center and CIRM's Alpha Clinics Network and Translating Center
  - > Establishing a sustainable business beyond the 5-year award period
  - > The sum of all value drivers > initial CIRM grant
- Creating momentum for CIRM-Quintiles partnership



### **Organizational alignment and presenting team**



Accelerating stem cell treatments to patients with unmet medical needs

## 

Help our customers make better decisions about drug development, commercialization and drug therapy choices in a manner designed to <u>save</u> them time and money and to <u>deliver better healthcare outcomes</u> for <u>patients</u>



Avi Kulkarni, PhD SVP and Managing Director Quintiles Advisory Services



Adrian McKemey, PhD SVP and Managing Director Quintiles Advisory Services



### The Accelerating Center (AC) is fully aligned with Quintiles' vision



### Quintiles is well positioned to build and run the AC

Quintiles is focused on enabling the medicines of tomorrow and considers stem cells to be a leading edge technology

The stem cell market is financially attractive and poised for significant growth

Quintiles senior leadership fully supports the AC application



Quintiles has supported stem cell partnerships with other clients



The AC services are already core offerings of Quintiles' Clinical, Strategic Drug Dev't and Advisory Services groups



The AC requires a balance of strategic and operational support and an understanding of the unique needs of emerging biopharma and academic customers



# Opportunities exist to improve stem cell therapy development time, cost and probability of success



## The proposed AC will provide end-to-end stem cell clinical development services



#### Business, support and CIRM infrastructure functions

o Business development

- Knowledge management
- o Customer relationship management
- AVAR strategy and operations

Administration

- Clinical operations technology
- CIRM Infrastructure committee
- Communications

# The Accelerating Center will have dedicated staff and leverage Quintiles broad functional capabilities



- Actual number of people per position depends on demand
- Operational structure is modeled after similar successful partnerships
- Strategic functions will be led by senior personnel (Snr. Director/VP)
- AC staff partner with other Quintiles departments

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- Seamless integration of strategy and operations
- The AC roles current exist within these departments
- Flexible capacity to handle demand fluctuations
- Personnel development and knowledge sharing within Quintiles

# By utilizing Quintiles' scale and expertise, the AC will accelerate clinical development and reduce costs

### Acceleration of development efforts

- A full service one stop shop
- Extensive experience planning and optimizing clinical development
- Integrated planning to shorten the critical path
- Access to proven operational best practices

### Access to the experience and expertise of the leading CRO

- ~1,050 PhDs, >1,100 MDs
- 14 Therapeutic Centers of Excellence
- Supported 3,590 clinical studies involving ~1.5M patients at 367K sites in 116 countries in five years

AC Value Proposition

### Advisory and execution support in priority focus areas

- Preclinical IND-enabling or IDEenabling projects (prepared 15 INDs last year)
- Cell-based therapeutics, rare disease and biologics experience
- Full service medical device and diagnostics development offering

### A price competitive service model

- Operating model and pricing attuned to needs of academic and small-cap industry customers
- Ability to access services in packages or a la carte
- Preferred discount to CIRM grantees (target 15%)

### Our model harnesses Quintiles' deep CRO expertise to accelerate stem cell development...



# Targeted AC marketing will leverage the full scale of Quintiles' global business development group



Relationship Management | Promotional Materials | Conferences | Webinars | Targeting Executives



### Synergies between the AC, TC and Alpha Clinics Network will drive acceleration and value



# The Accelerating Center will have all the elements to accelerate and sustain long-term stem cell development



# Additional services will be added to support the maturing demands of the AC and its clients

Examples of currently offered Quintiles service options to enhance AC sustainability

#### Taking a product to market

- Indications strategy
- Market access
- Sales strategy
- Health economics and outcomes research (HEOR)
- Phase transition planning
- Real world outcomes

#### Creating viable commercial entities

- Commercial evaluation and strategy
- Capital strategy
- Exit strategy and planning
- Licensing
  - Due diligence preparation
  - Partner matching

**Thank You** 

#### **Public Comments / Q&A**





### **APPENDIX**



# The stem cell market is actively growing and has a large potential pipeline

- Stem cell therapies account for ~52% of the regenerative medicine market (remainder covers gene therapy, tissue engineering, and biomaterials)
- These therapies use adult, embryonic, or induced pluripotent stem cells to augment, repair, replace, or regenerate organs and tissue, and have potential applications in every disease area
- With a maturing pipeline, it is anticipated that there will be a growing need for stem cell-specific trial expertise and clinical trial services



 Sources: Alliance for Regenerative Medicine Annual Report 2014; Global Stem Cell Therapeutics Market - Growth, Trends and Forecasts (2014-2019), Mordor Intelligence; Global Regenerative Medicines Market - Growth, Trends and Forecasts (2015-2020), Mordor Intelligence

## Quintiles offers end to end drug development services to its customers



#### Core AC services shown in red

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### **Case Study: Stem Cell Clinical Development Alliance**



### **Client Benefits**

An efficient operational platform to drive flexible and highly efficient Phase 1-4 clinical development activities for stem cell therapies

Customer Challenge

- A top 5 biopharma was seeking a strategic partner to develop an allogeneic cell therapy for patients with ophthalmic diseases and other assets
- Traditional outsourcing was viewed to possess disadvantages including lack of integration, lack of shared risk, costly duplication and oversight

Creation of a fully integrated "virtual development" infrastructure which complements the customer's organization

**Our Solution** 

 Joint governance and management to converge on a optimal operational strategy and approach for clinical execution



- Efficiency/productivity benefits a dedicated "boiler-room" focused entirely on driving efficiency and productivity gains to facilitate more cost-effective development
- Application of development operations expertise and bestin-class approaches



# The AC marketing strategy will complement Quintiles' emerging biopharmaceutical marketing

#### Near Term (Start-up Phase)

- Begin working with Quintiles Emerging BioPharma, Novella, regenerative medicine and rare disease related sales groups within Quintiles
- Hire business development position focused initially on CA customers
- Leverage the marketing power and brand of CIRM and Quintiles
- Contact and meet with CIRM grantees
- · Begin working with Alpha Network sites and Quintiles existing sales network to identify leads
- Presence at Stem Cell Meeting on the Mesa (San Diego, Oct 2016)
- Contact stem cell related groups such as the Alliance for Regenerative Medicine
- Public relations releases in scientific and financial media such as Fierce and Xconomy

#### Long Term (Operate Phase)

- · Work with Translating Center to identify leads
- Sponsor meetings
- Symposiums
- Presence at stem cell meetings
- Advertising
- Webinars
- Cultivate relationships with KOLs
- Assist potential CIRM grantees with budget planning
- Establish and leverage relationship with FDA
- Publications and white papers: ex. stem cell clinical development, regulatory environment

### AVAR and knowledge sharing communications strategy



Functional line based meetings

- Clinical Operation, Regulatory, Data Management, etc.
- Quarterly meetings
- Sub-group meetings as needed
- Functional line representatives as appropriate
- Goals
  - AVAR development and implementation
  - AVAR needs
  - Knowledge sharing

# Opportunity for AVARs and synergies to drive clinical acceleration and improved operations

## Accelerating Center & Alpha Clinics Network

- Best practices
- Consistent
  infrastructure
- Data integration
- Expansion
- Hub and Spoke model
- Multi-site trial
  - Support
  - IRB approval
  - Integration
  - Coordination
- Recruitment
- Site usage optimization
- Sponsor vetting

#### Accelerating Center & Translating Center

- Cooperative planning
- Consistent and repeated regulatory interactions
- Data transfer systems
- IND assembly and submission systems

#### All CIRM Infrastructure Groups

- Cooperative strategy
- Communications
- Data sharing
- Integrated planning
- Marketing
- Performance tracking
- Transition planning
- Cooperative feedback and influence on regulators

## There are synergies at every point of AC and TC interaction





## There are synergies at every point of AC and ACN interaction





## The AC will lead the process to develop, evaluate, and implement AVARs

Proposal	CIRM Steering Committee Review	Development	Implementation
CIRM Infrastructure Group Grantees Trial sponsors Other groups	Need •Who benefits? Urgency Utility and benefits •Direct and indirect Development cost Cost to operate Development time Feasibility Resources needed Capacity Source of funds and resources	Implementation team formation • Typically functional line based • Project leader appointed Develop of project plan Design AVAR • User feedback Implement of project plan Testing • User feedback Periodic CIRM Steering Committee progress review	Transfer of AVAR to user Testing •User feedback Go live Refinement Upkeep

