



Training the Next Generation

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ISCT

The Forum on Regenerative Medicine
Training the Regenerative Medicine Workforce for the Future: A Workshop

November 15, 2022

MISSION

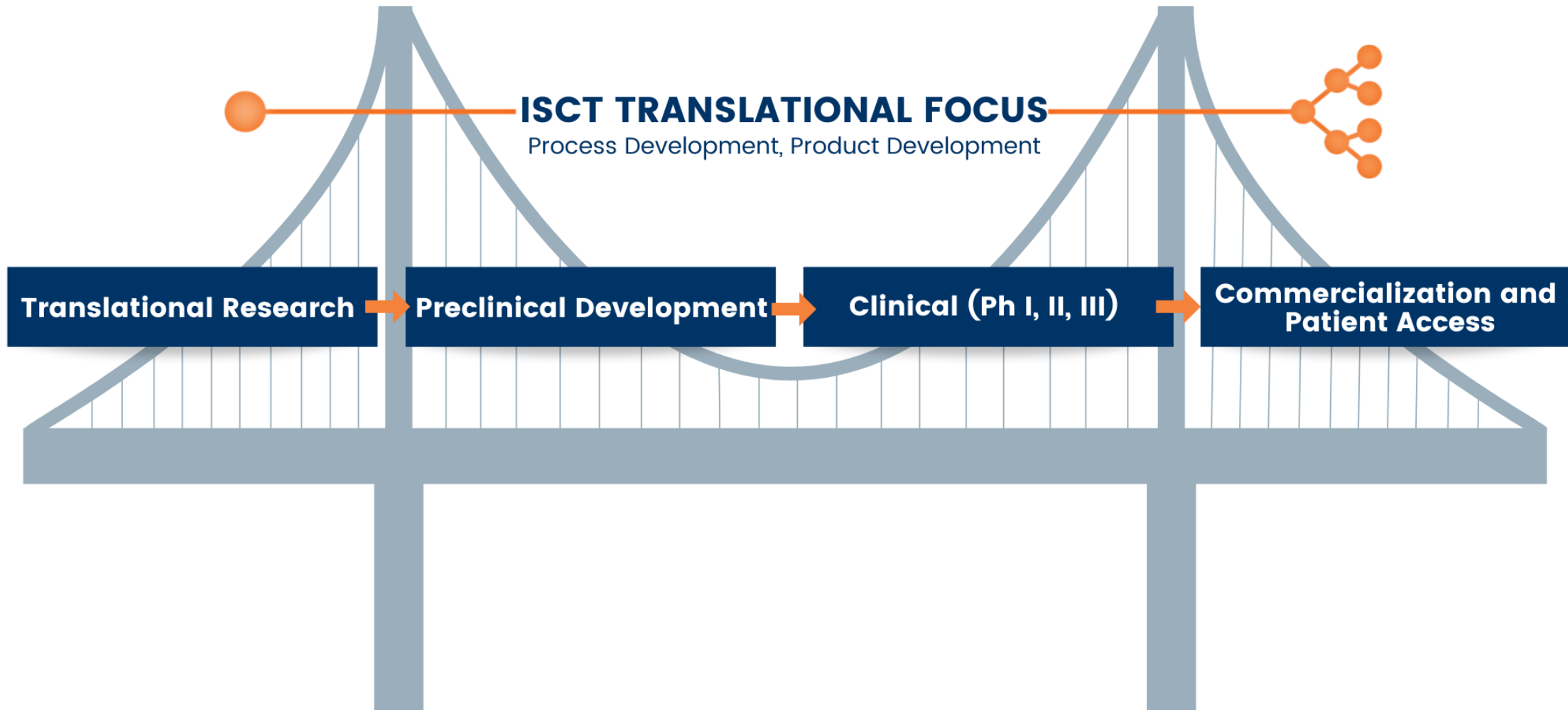
To drive clinical translation of cell and gene therapies worldwide

VISION

To improve lives through safe and effective cell and gene therapies



A Global Translation Society



Three Pillars of Value

Since 1992, ISCT has worked to advance cell and gene therapies through a focus on translational value, bridging experts across scientific, regulatory, and commercial fields to drive consensus and action at a global level.

ACADEMIA

Scientific Committees:

- Exosomes
- Immuno & Gene Therapy
- Mesenchymal Stromal Cell
- Orthopedic & Musculoskeletal Therapies
- Stem Cell Engineering
- Targeted Organ (Neuro, Cardio)
- Gastro-intestinal
- iPSC Joint Committee (JSRM)

REGULATORY AND QUALITY/OPERATIONS

Global Regulatory Task Force:

- LRA North America
- LRA Europe
- LRA Australia & New Zealand
- LRA South & Central America

Laboratory Practices Committee (LPC)

COMMERCIALIZATION

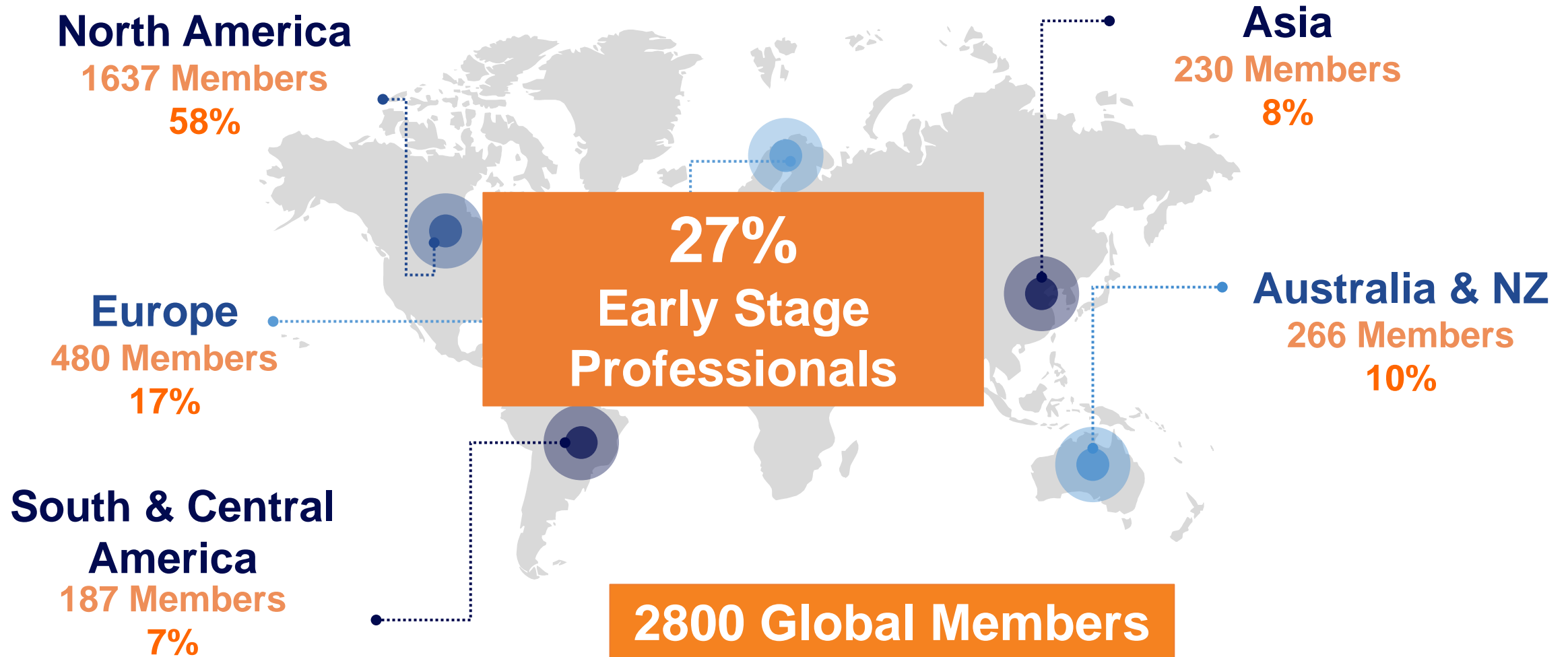
Industry Committee:

- Business Development & Finance
- Clinical Translation
- Process Development & Manufacturing
- Asia-Pacific Regional Industry Committee

Early Stage Professionals Committee
Training the Next Generation

Ethics of Cell and Gene Therapy
Committee
&
Expanded Access Working Group

Truly Global



ISCT Background in Workforce Development

2014

**Establishment
of Early Stage
Professionals (ESP)
Committee**

2015

**Inaugural Cell
Therapy Training
Course**

2016-17

**Pilot ESP
Mentoring
Program**

Greatest Areas of Opportunity

LAB PERSONNEL & TECHNOLOGISTS

ISCT LABORATORY
MEMBERSHIP INCREASED BY

207%

IN THE PAST 5 YEARS

MANUFACTURING

MANUFACTURING
REPRESENTATION OF ISCT
ANNUAL MEETING ATTENDEES

DOUBLED

FROM 2021 TO 2022

EARLY STAGE PROFESSIONALS (ESPS)

SPANNING FULL TRANSLATIONAL
SPECTRUM REPRESENT

**1/3 OF ISCT
MEMBERSHIP**

The ISCT Value Proposition in Workforce Development

Created by ISCT Members, for ISCT Members

TRANSLATION FOCUS

- Full cell and gene therapy development pathway
- All levels and disciplines in translation

GLOBAL REACH

- 5 ISCT regions positioned to identify and tailor programs to address region specific training needs

CURATED CONTENT

- ISCT Leadership and access to 40+ Expert Standing Committees to plan and develop our content

NEW ISCT Workforce Development Committee

Setting the Strategic Direction of Workforce Development Initiatives

Overview of ISCT Training, Development, & Educational Resources

Key considerations in developing our programs:

- ❖ Widely accessible
- ❖ Provide different methods of learning
 - Online, in-person, matrix
- ❖ Global applicability
 - Ability to tailor specific to region

TRAINING

Building fundamental knowledge, upskilling, advancing expertise

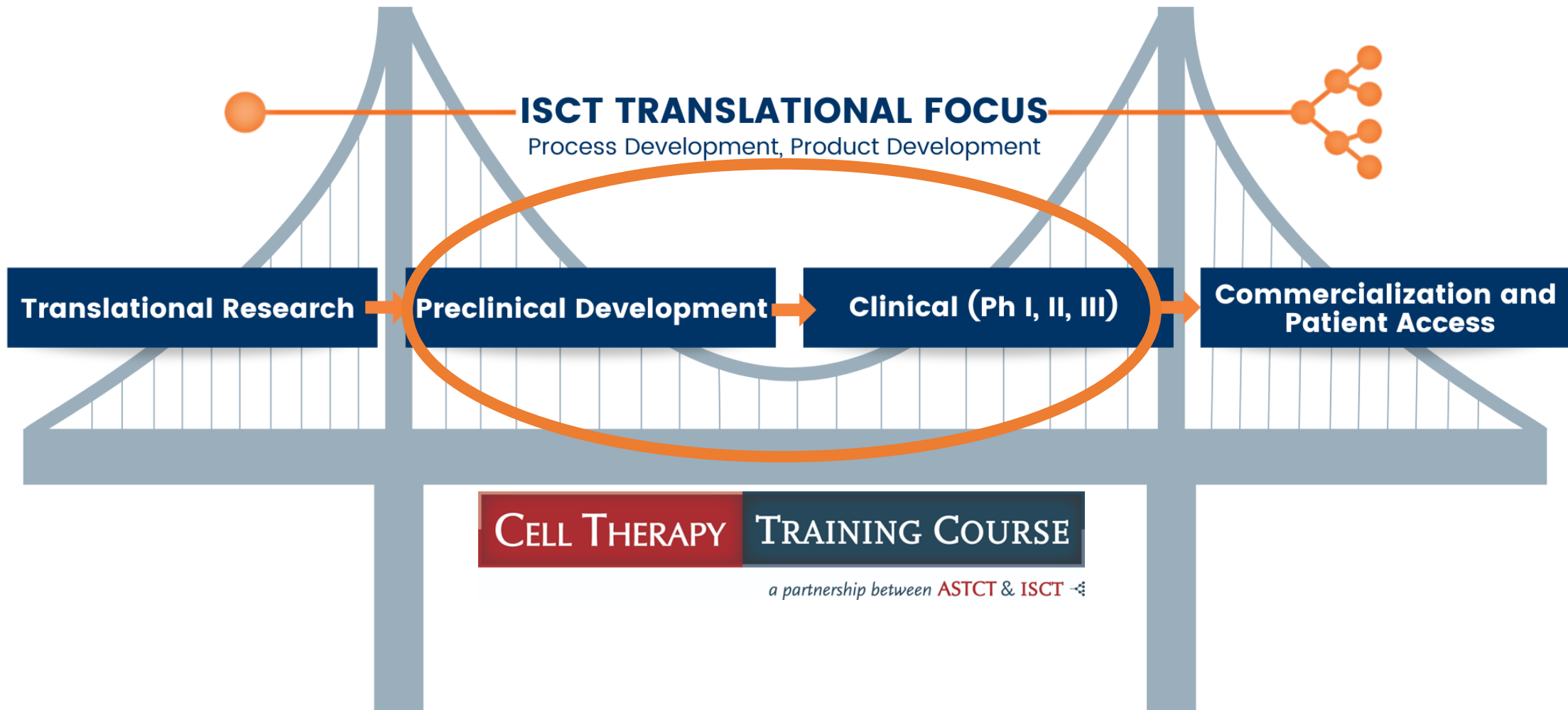
DEVELOPMENT

Career development at all levels (early stage, newcomers to the field, upper management, etc.)

EDUCATIONAL RESOURCES

Extensive online library of resources and content

Training Programs Highlight



Training Programs Highlight

CELL THERAPY TRAINING COURSE

a partnership between **ASTCT** & **ISCT**

Training the Next Generation of Translational Experts in Cell and Gene Therapy

Focus

- Clinical translation

Learning Format

- In-person: On location at partnering centers of excellence

Program Duration

- 1-week, intensive

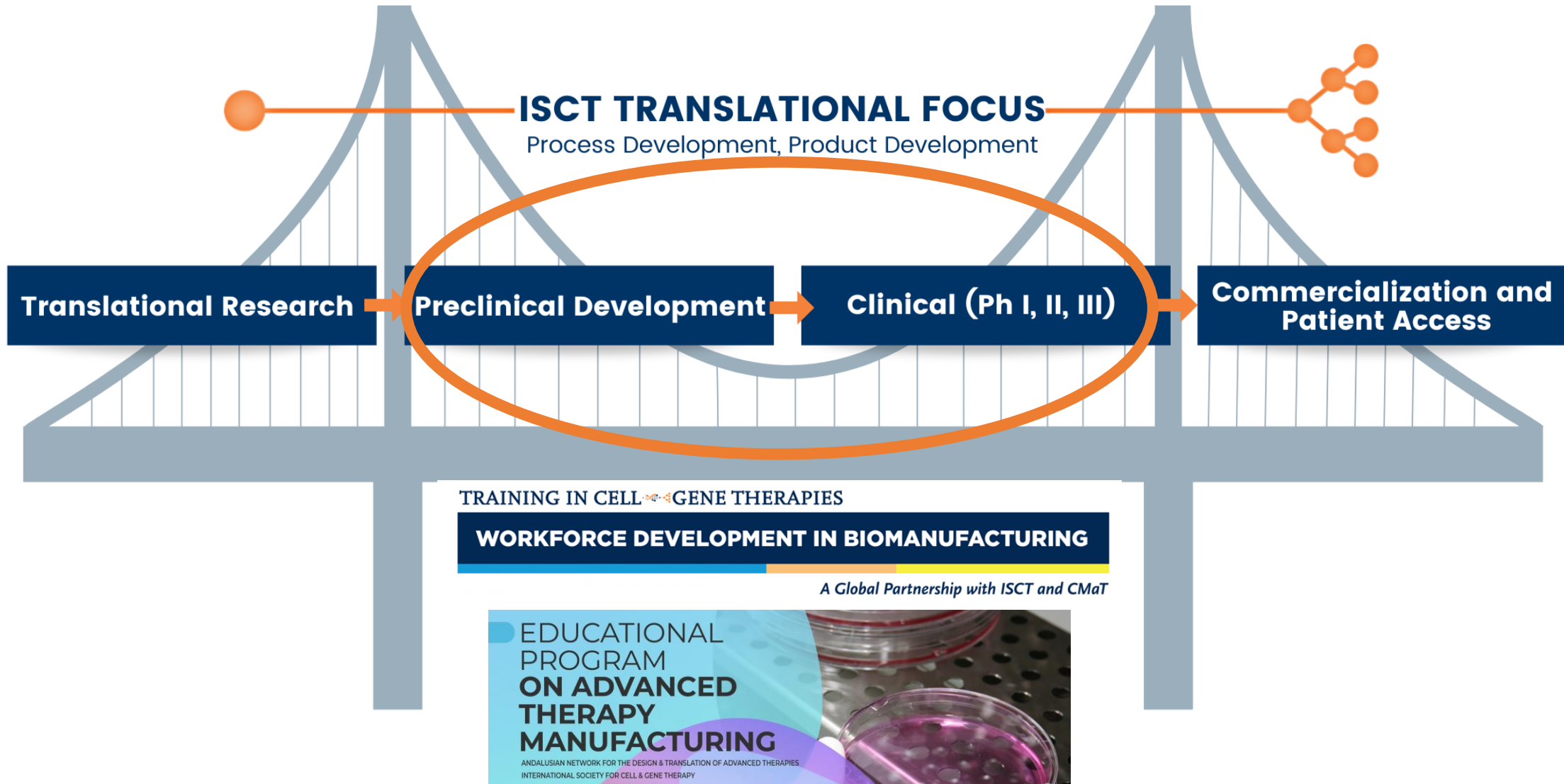
Access

- Full-tuition scholarship program

Next Course

- October 23-27, 2023 at Penn Medicine, PA, USA
 - Applications now open

Training Programs Highlight



Training Programs Highlight

TRAINING IN CELL & GENE THERAPIES

WORKFORCE DEVELOPMENT IN BIOMANUFACTURING

A Global Partnership with ISCT and CMat

Introducing Key Topics in Cell and Gene Therapy Manufacturing and Development

Focus

- ❖ Biomanufacturing

Learning Format

- ❖ Online: Self paced lectures & live discussions

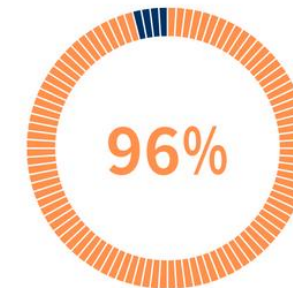
Program Duration

- ❖ 9 weeks

Next Course

- ❖ February 15 - April 21, 2023
 - Registration opens January 2023

Feedback from inaugural course:

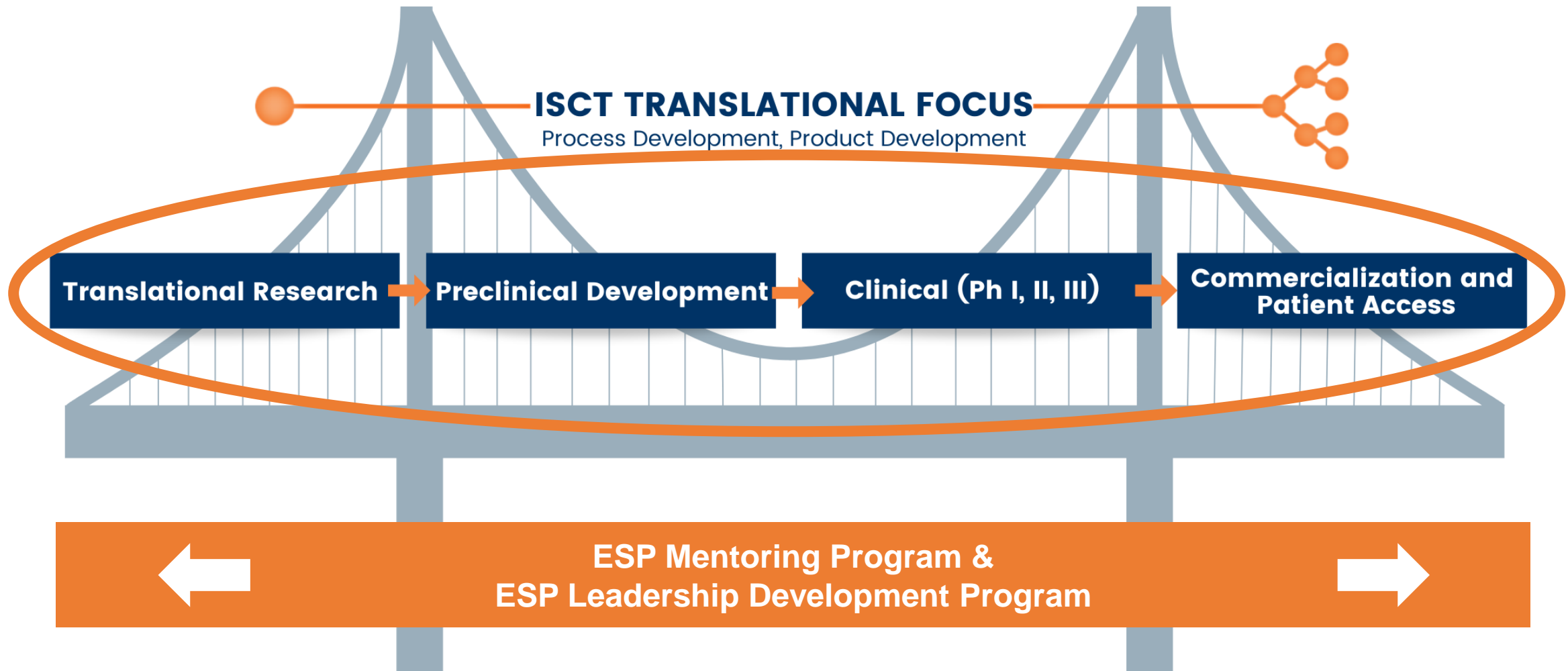


**Indicated training
was relevant to
their needs**



**Indicated they
would recommend
course to a
colleague**

Training Programs Highlight



Development Programs Highlight

ESP Mentoring Program

- ❖ Small group mentoring
 - 2:1 Mentee to Mentor ratio
 - Expertise driven matching across translation

Focus

- ❖ Career and professional development for ESPs

Learning Format

- ❖ Online mentoring meetings
 - Close out in-person meeting at ISCT Annual Meeting

Program Duration

- ❖ 8 months

ESP Leadership Development Program

- ❖ Formal ESP position on ISCT expert committees across all areas of CGT translation

Focus

- ❖ Leadership skills development for ESPs

Learning Format

- ❖ Online committee meetings and project participation

Program Duration

- ❖ 2 years

Educational Resources Snapshot

❖ ISCT Annual & Regional Meeting Presentations & Abstracts

❖ *Cytotherapy*® Publications

❖ Webinars

- Produced by our expert Committees
- Cover key topics and address current challenges

❖ Laboratory Life Line

- Interactive resource for the CGT community to engage, troubleshoot and collaborate

In Development – Estimated launch 2023

❖ Guide Documents

- Best practices and methods



Partnership Opportunities

ISCT partners with organizations that share our motivation and passion to create impactful learning opportunities to advance the field

Partners to date include:



Looking to develop additional partnerships to expand our training, development, and education portfolio

❖ **Off-the-Shelf Training Programs**

- Derived from existing program(s) or uniquely developed
- Address unmet needs

Conclusion

❖ *Providing CGT Workforce Development solutions through:*

- Addressing the biggest bottlenecks
- Ensuring the widest reach
 - Global & regional
- Maximizing extensive network of SMEs and KOLs



Thank you!

**Contact ISCT for more information about our Training Programs,
Development Programs, & Educational Resources in CGT Translation**

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ISCT

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