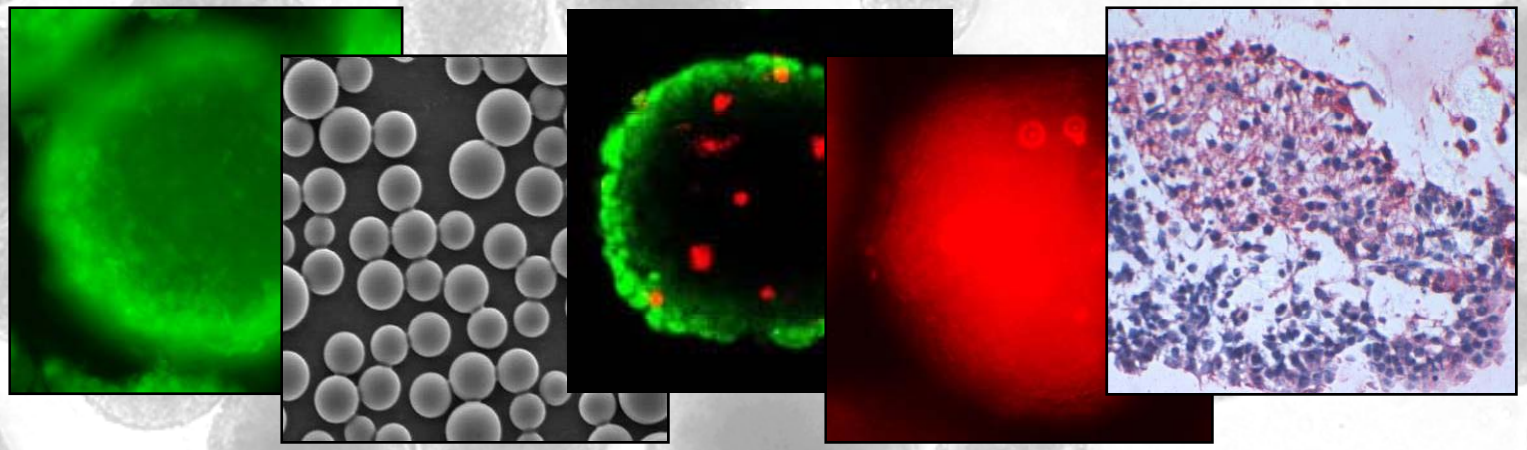
Engineering Stem Cell Technologies



Todd C. McDevitt, Ph.D.

Assistant Professor

The Wallace H. Coulter Department of Biomedical Engineering,

The Parker H. Petit Institute for Bioengineering and Bioscience

http://mcdevitt.bme.gatech.edu

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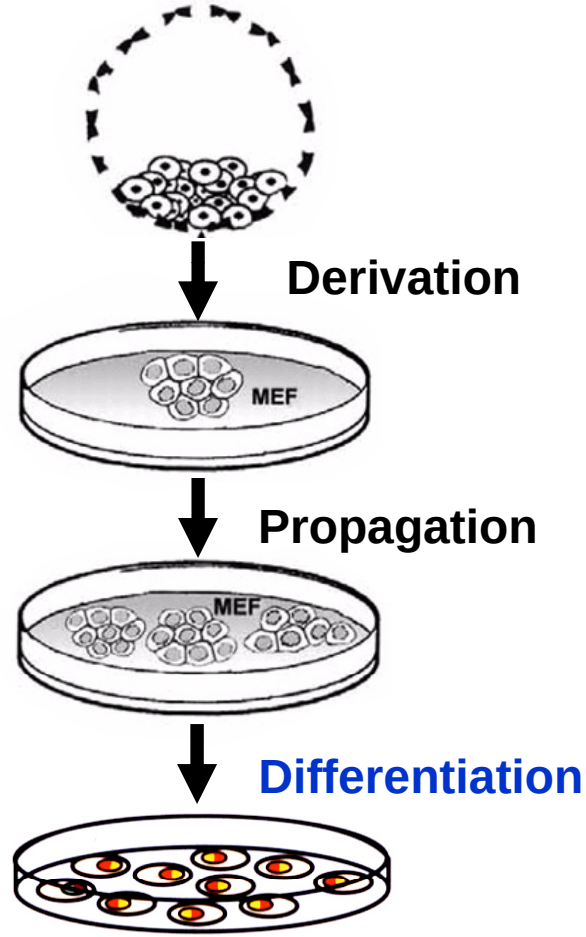
Translation of Stem Cells

Basic Science



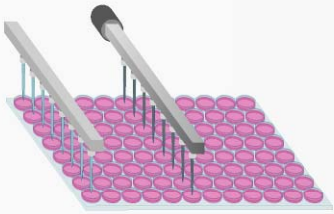
Engineering Stem Cell Technologies

- Environmental control
- Robust & scalable
- Deliverable formats

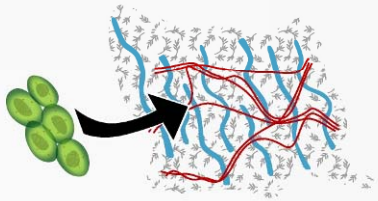
Translate the potential of stem cells into innovative therapies & diagnostics

Applications

Diagnostics



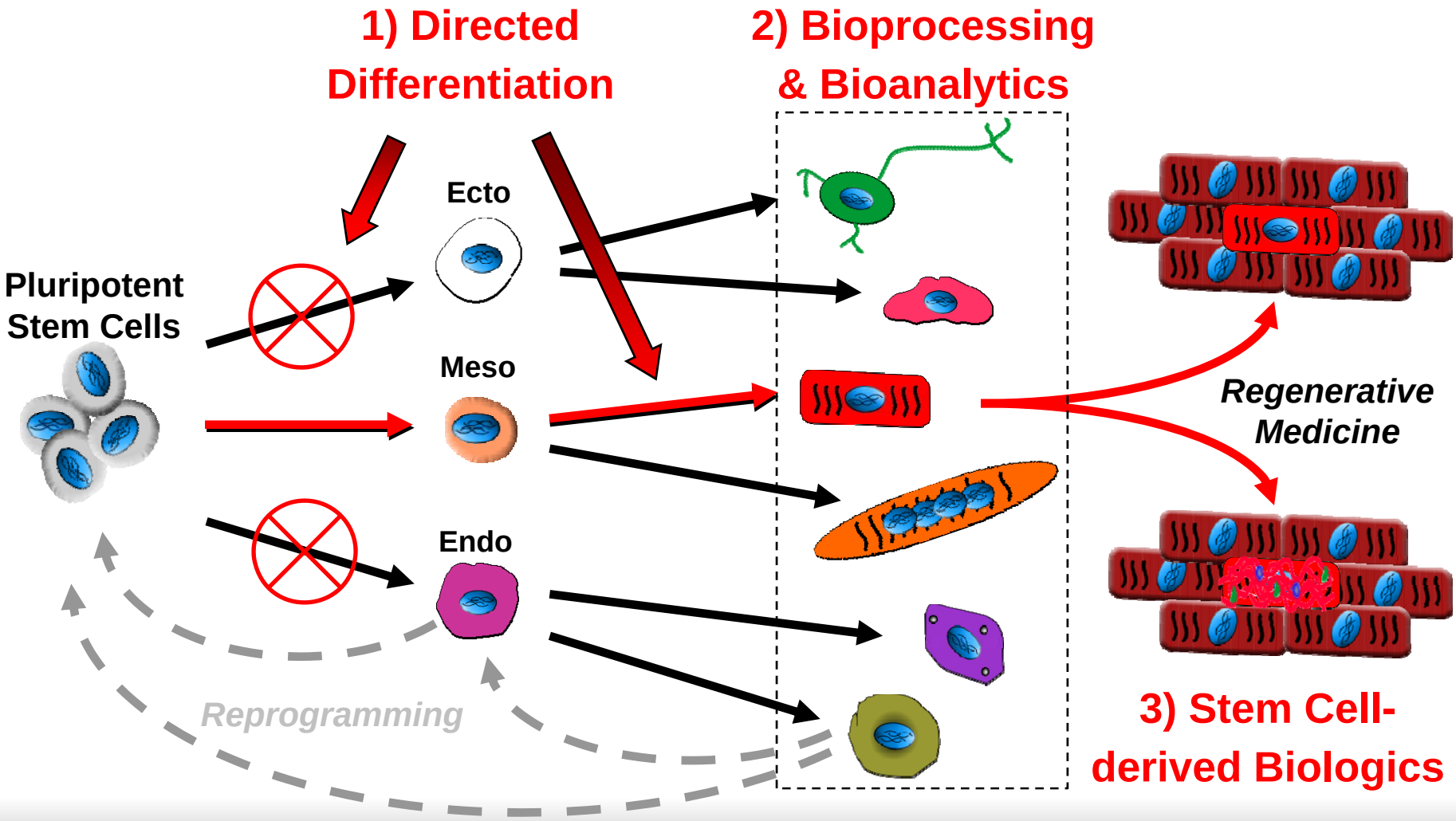
Tissue Repair



Drug Discovery & Pharmaceuticals

Gepstein. Circ Res 2002; http://stemcells.nih.gov/info/media/DSC_1187.jpg; Brock Wester

Stem Cell Technologies



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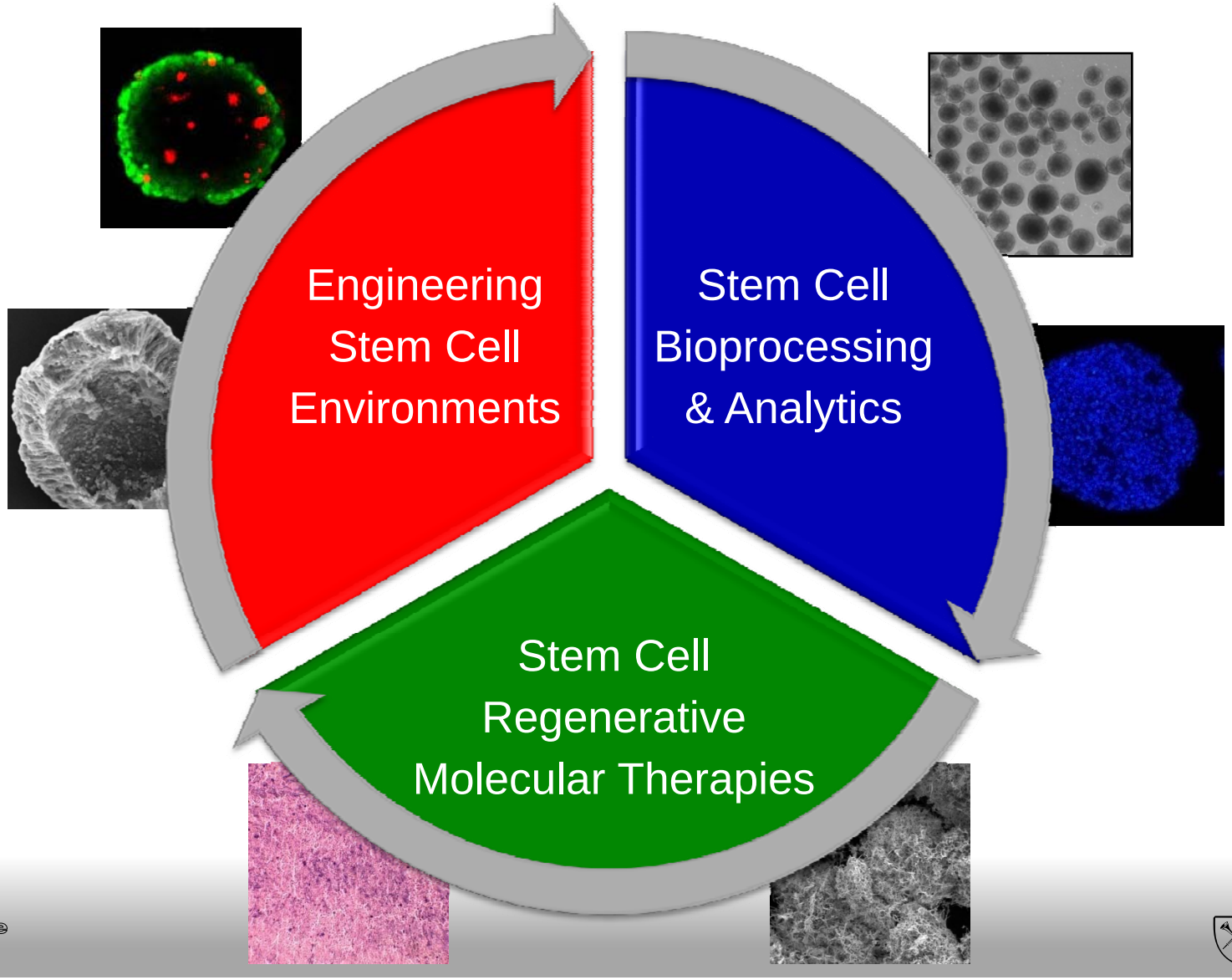
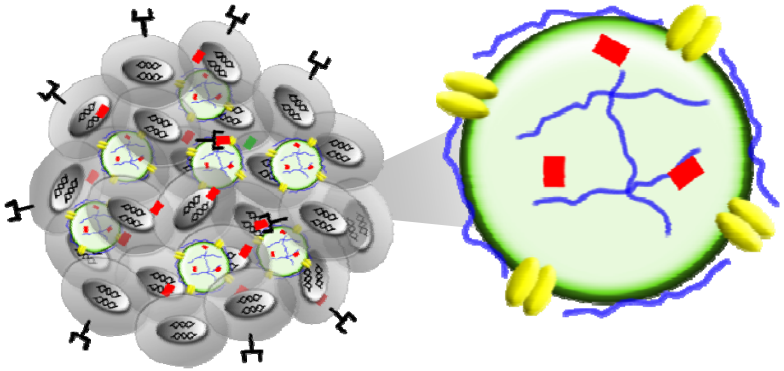
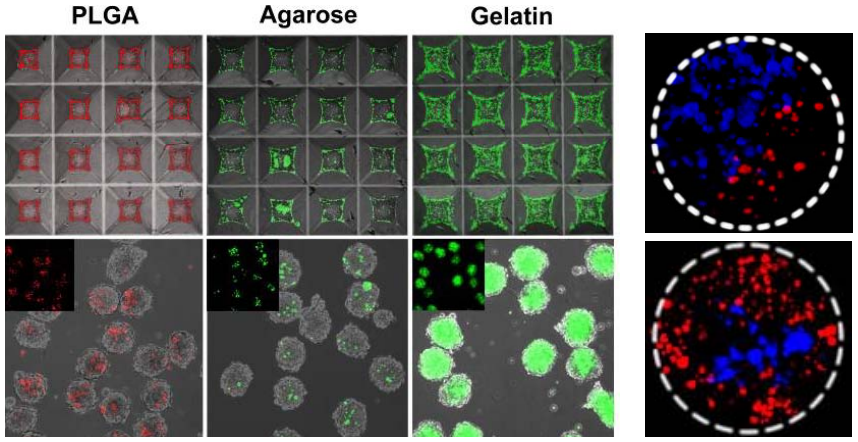


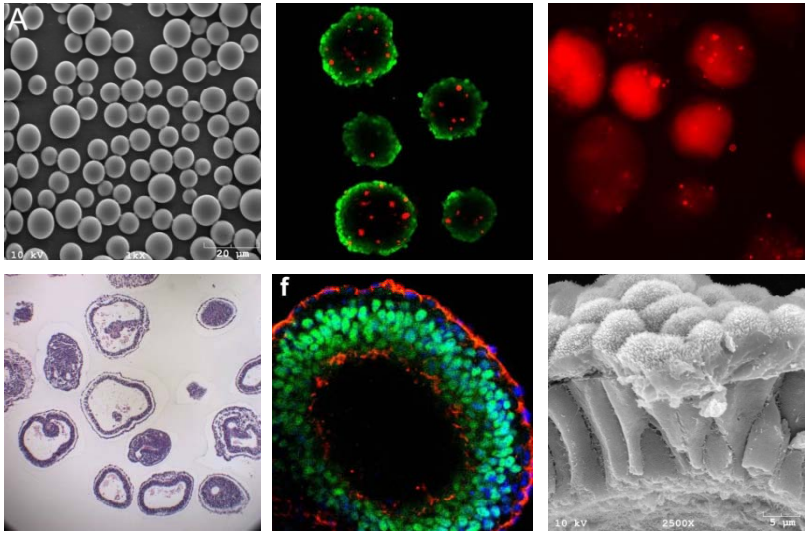
Engineering Stem Cell Environments



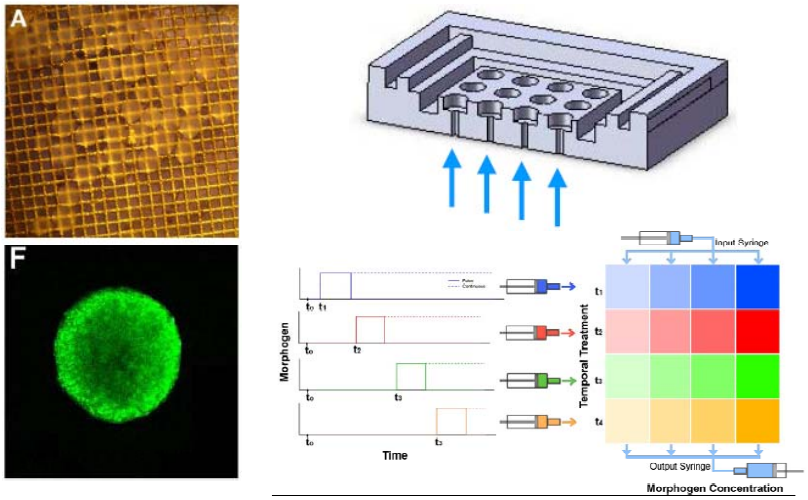
Bratt-Leal *et al*., Biotechnol Prog, 2009.



Bratt-Leal *et al*., *in preparation*.



Carpenedo *et al*., Biomaterials, 2009.



Kinney *et al*., *in preparation*.

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Collaborators: A. Lyon, N. Murthy, A. Glezer,
W. Murphy (U. Wisconsin), P. Zandstra, M. Ungrin (U. Toronto)

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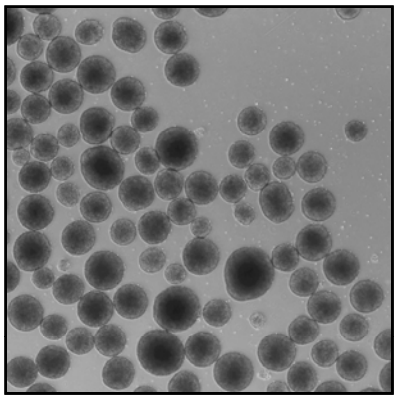
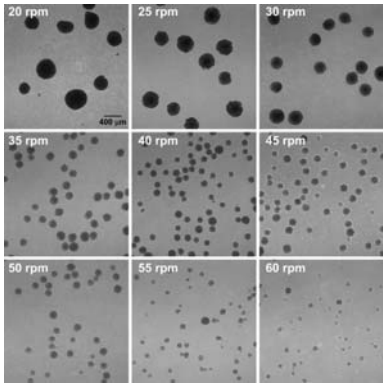
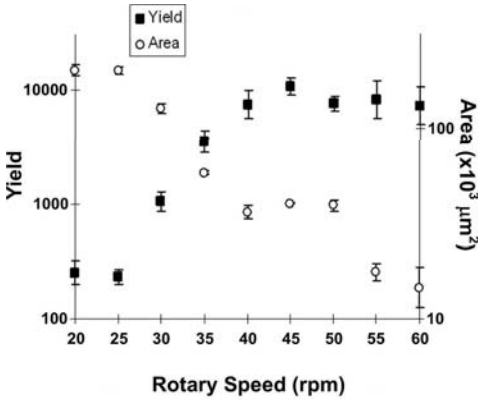
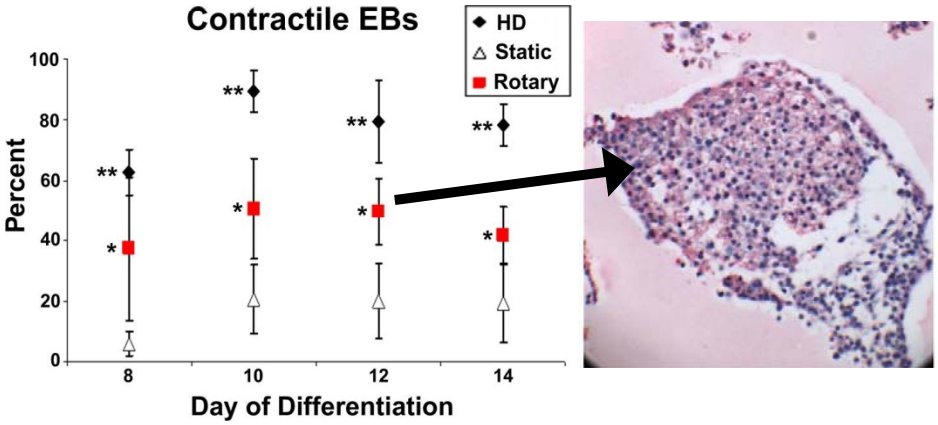
Bioprocessing & Bioanalytics

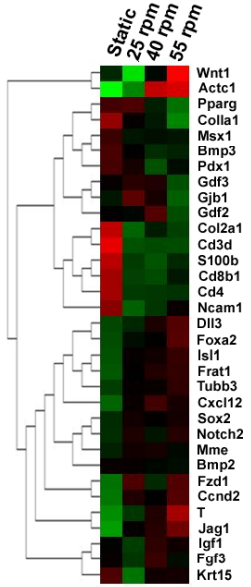


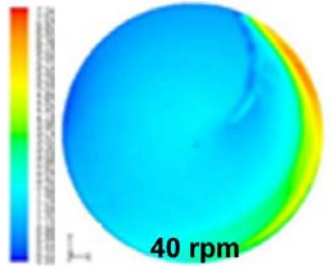


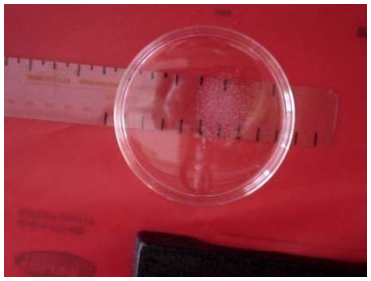


Carpenedo *et al*., Stem Cells, 2007.









Sargent *et al*., Tissue Engineering A, 2009.

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Collaborators: E. Berson (U. Louisville)

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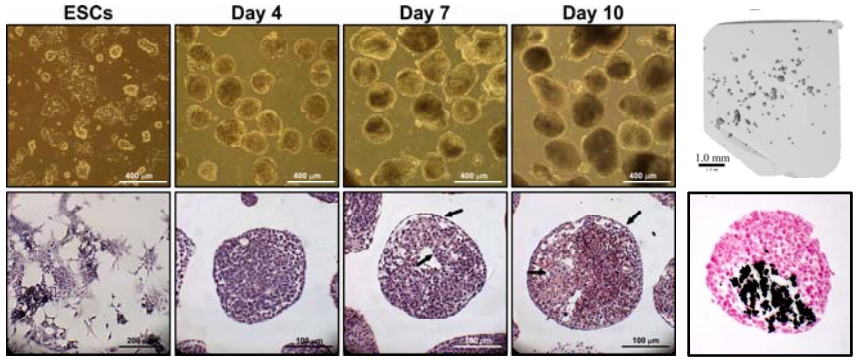
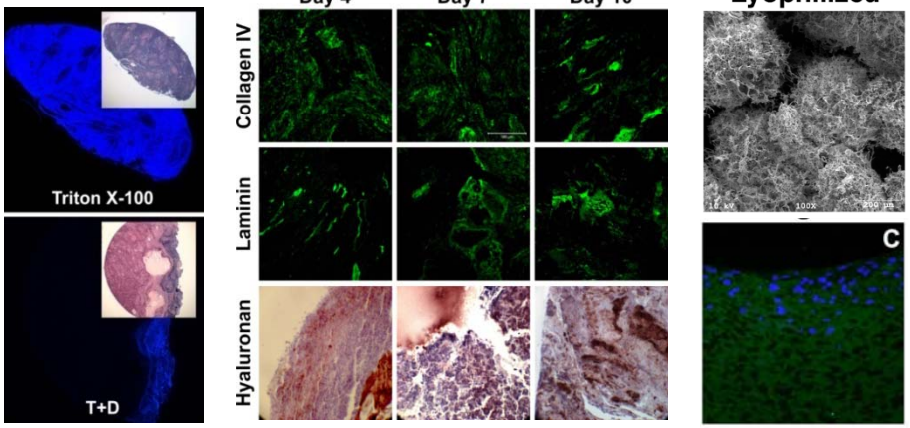
Regenerative Molecular Therapeutics



Shukla & Nair *et al*., *submitted*; Sutha *et al*., *in preparation*;
Nair & Ngangan *et al*., *in preparation.*



Nair *et al*., JBMSPE, 2008; Nair *et al*., JBMR A, 2008;
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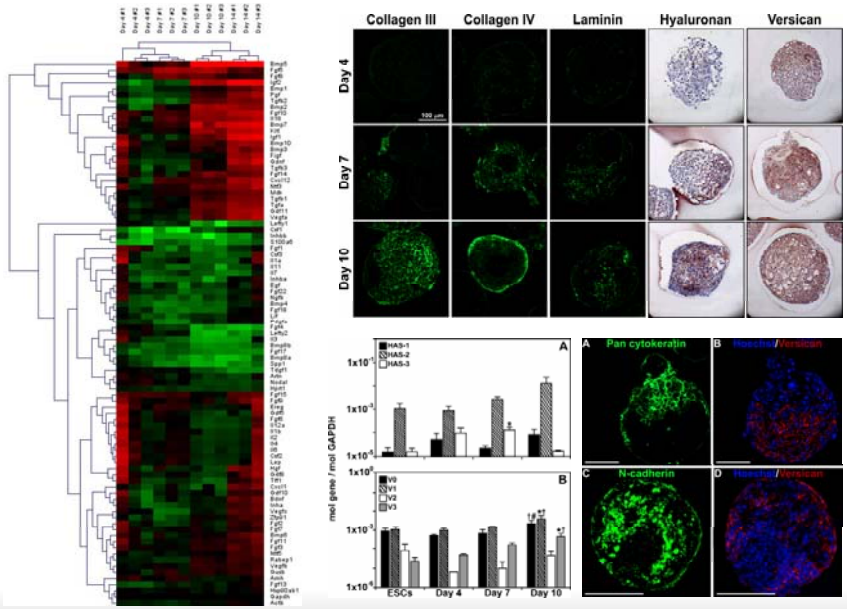

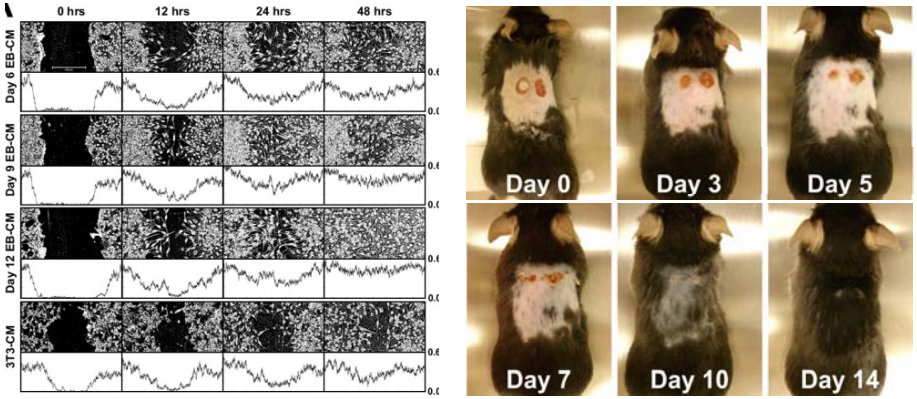

Waring *et al*., *in preparation*; Nair *et al*., *in preparation.*

Georgia Institute of Technology

Collaborators: B. Boyan, B. Guldberg, M. Kemp, Y.S. Yoon (Emory),
T. Kyriakides (Yale), T. Wight (U. Washington), M. Rolle (WPI)

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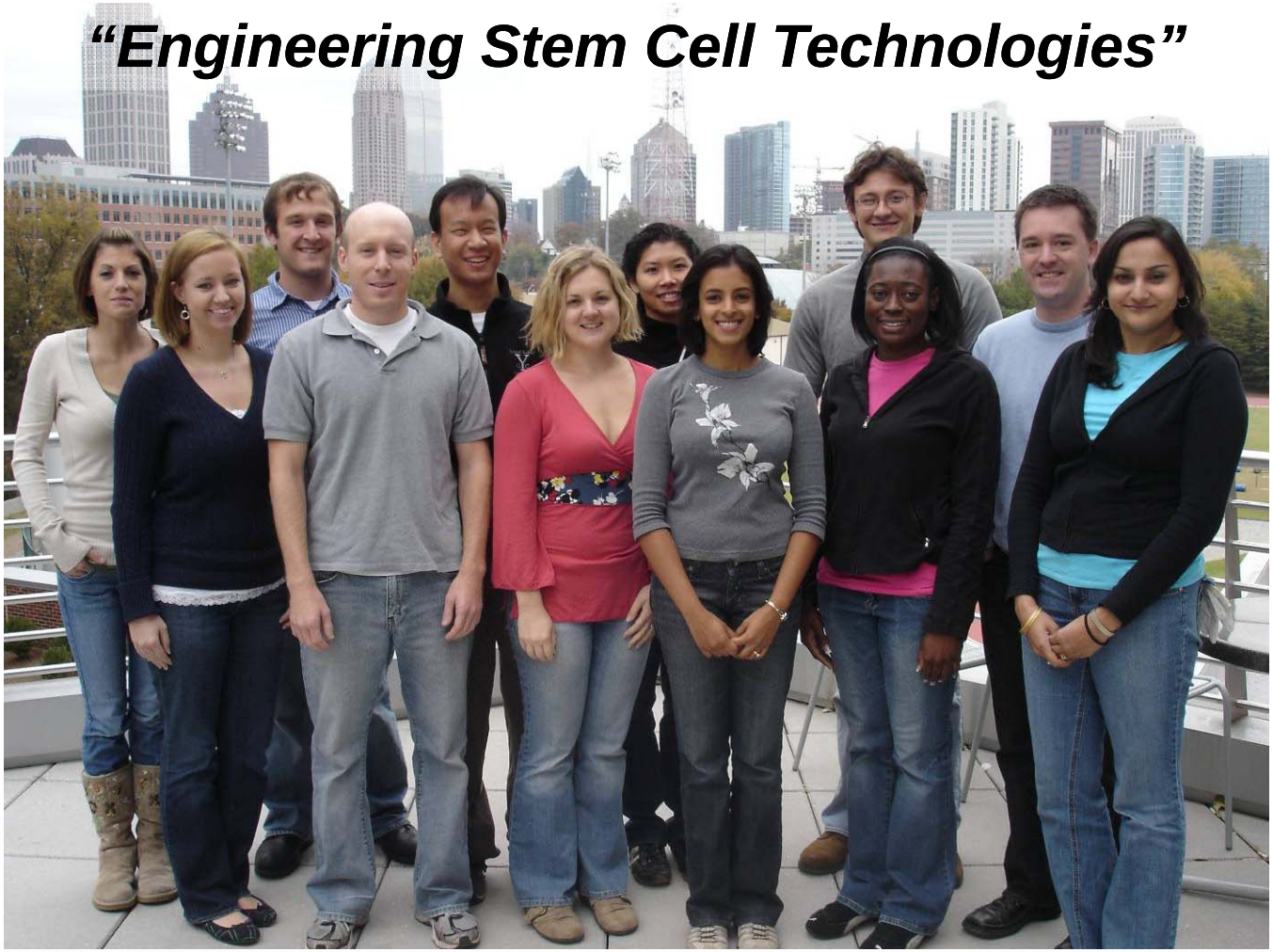
"Engineering Stem Cell Technologies"



Georgia Institute of Technology

http://mcdevitt.bme.gatech.edu

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Acknowledgments

Group Members:

Priya Baraniak, PhD
Andrés Bratt-Leal
Rich Carpenedo
Marissa Cooke
Melissa Kinney
Rekha Nair
Alyssa Ngangan
Barbara Nsiah
Carolyn Sargent
Ken Sutha

Megan Coale
Katy Hammersmith
Natalie Joe
Keith Jones
Scott Seaman
James Waring

Lab Alumni:

Ima Ebong, MS
Shreya Shukla
Geoffrey Berguig
Ross Marklein
G. Balasubramaniam
Luke Hiatt
Courtney Scott

Collaborators:

Barbara Boyan
Bob Guldberg
Zvi Schwartz
Melissa Kemp
Young-sup Yoon
Andrés García
Ken Gall
Bob Nerem
John McDonald
Nathan Bowen
Andrew Lyon
Yuhong Fan
Niren Murthy
Michelle LaPlaca
Ari Glezer

Steve Stice (UGA)
Themis Kyriakides (Yale U)
Marsha Rolle (WPI)
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