Wnt/beta-catenin signaling in cardiac development

**Canonical**

- **Lrp**
- **Fzd**
- **Axin**
- **APC**
- **GSK3**
- **β-catenin**
- **TCF/LEF**
- **β-catenin**

**Non-Canonical**

- **Fzd**
- **β-catenin**
- **ROCK**
- **JNK**
- **ATF/CREB**

**Signaling Pathways**

- **BMP4** (cardiac morphogenesis)
- **Cyclin D1** (VSMCS proliferation)
- **FGF10** (outflow tract)
- **N-myc** (proliferation and differentiation)

**Nuclear Transcription**

- **eNOS** (endothelial homeostasis)
- **PTEN** (proliferation)
- **TGFβ2** (cardiac morphogenesis)

**Proteosome**

Dr. Edward Morrisey, University of Pennsylvania in collaboration with Abcam

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Upcoming Abcam Cardiovascular Meetings

Cardiac Development and Regeneration
October 10-11, 2008 - Boston, MA USA
Organized by Jonathan Epstein and Edward Morrisey in association with Abcam
Invited Speakers: Cliff Tabin | Margaret Buckingham | Deepak Srivastava | Benoit Bruneau | William Pu | Debbie Yelon | Stephen Duncan | Michael Parmacek | Nathan Lawson | Sean Wu | Kenneth Chien

Upcoming Deadlines:
Oral presentation abstract submission deadline: July 10, 2008
Early Bird discount deadline: August 10, 2008
Poster abstract deadline: September 10, 2008

www.abcam.com/BostonCardio

Molecular Regulation of Cardiac Disease
May 14-15, 2009 - London, UK
Organized by Paul Townsend in association with Abcam

Upcoming Deadlines:
Oral presentation abstract submission deadline: February 6, 2009
Early Bird discount deadline: March 20, 2009
Poster abstract deadline: March 20, 2009

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* = predicted to react