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Assembly of the Vasculature and Its Regulation | Robert J ... The overall scope of this new series will be to evolve an understanding of the genetic basis of (1) how early mesoderm commits to cells of a heart lineage that progressively and irreversibly assemble into a segmented, primary heart tube that can be remodeled into a four-chambered organ, and (2) how blood vessels are derived and assembled both in the heart and in the body.

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Biophysical Regulation of Vascular Differentiation and ...
Thus, communication between the forming vasculature and the tissue parenchyma, as well as interactions among cells of the vascular wall, all appear to influence vascular development and growth.—Beck, L., Jr., D'Amore, P. A. Vascular development: cellular and molecular regulation. FASEB J. 11,365-373(1997)

Vascular development: cellular and molecular regulation ...
• No vasculature Self-assembly ... The formation of a stable network is accompanied by the up-regulation of several genes including growth factors (Angiopoietin 1) matrix components (collagens 8, 14, 16, 18), and adhesion molecules (ICAM1, VCAM1 and Integrins α4, 6, 7, ...

Self-assembly of vascularized tissue to support tumor ...
Every organ depends on blood vessels for oxygen and nutrients, but the vasculature associated with individual organs can be structurally and molecularly diverse. The central nervous system (CNS) vasculature consists of a tightly sealed endothelium that forms the blood-brain barrier, whereas blood vessels of other organs are more porous. Wnt7a and Wnt7b encode two Wnt ligands produced by the ...

Canonical Wnt Signaling Regulates Organ-Specific Assembly ...
Oliver et al. comprehensively review the anatomy, development, and functional roles of the lymphatic vasculature in health and disease. They highlight emerging evidence suggesting that the lymphatic system plays more diverse physiological roles that previously appreciated.

The Lymphatic Vasculature in the 21st Century: Novel ...
Regulation of Endothelial Cell Proliferation and Vascular Assembly through Distinct mTORC2 Signaling Pathways Shan Wang , a Katherine R. Amato , b Wenqiang Song , a Victoria Youngblood , b Keunwook Lee , c, g Mark Boothby , c Dana M. Brantley-Sieders , a, e and Jin Chen a, b, d, e, f

Potassium channel diversity in the pulmonary arteries and pulmonary veins: Implications for regulation of the pulmonary vasculature in health and during pulmonary hypertension Author links open overlay panel Sébastien Bonnet b Stephen L. Archer a

Potassium channel diversity in the pulmonary arteries and ...
The cranial vasculature is essential for the survival and development of the central nervous system and is important in stroke and other brain pathologies. Cranial vessels form in a reproducible and evolutionarily conserved manner, but the process by which these vessels assemble and

Regulation of cardiovascular collagen synthesis by ...
The kidney vasculature has a unique and complex architecture that is central for the kidney to exert its multiple and essential physiological functions with the ultimate goal of maintaining homeostasis. An appropriate development and coordinated assembly of the different vascular cell types and thei ...

Development of the renal vasculature
Vascularization-Associated Cell Proliferation Is Required for De Novo Organ Regeneration in Arabidopsis. We found that excised whole leaves of Arabidopsis can root without hormone supplementation, similarly to leaf blades as previously described (Chen et al., 2014) and at similar percentages (Supplemental Fig. S1, A and B).Because some species can regenerate entire functional plants from whole ...

Regulation of Hormonal Control, Cell Reprogramming, and ...
OVERVIEW OF THE FLOWERING TIME PATHWAYS. The regulation of the timing of the floral transition is an intricate one. Multiple pathways are able to regulate the expression of “floral integrator genes” (Moon et al., 2005).These integrators are network hubs that link the pathways that measure environmental and developmental competence to the downstream targets that cause the patterning of ...

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The fibronectin-binding integrins are particularly important in the assembly and development of the heart and vasculature, demonstrated using knockout mutations of fibronectin or the α5β1 and αv integrins. α1β1 has been identified on cardiac fibroblasts and is important for angiotensin II-mediated contraction in collagen gels.
acquire their stereotypic patterning remains unclear. Here, we examine the stepwise assembly and patterning of ...

**Assembly and patterning of the vascular network of the ...**
The plant hormone abscisic acid (ABA) acts as a developmental signal and as an integrator of environmental cues such as drought and cold. Key players in ABA signal transduction include the type 2C protein phosphatases (PP2Cs) ABI1 and ABI2, which act by negatively regulating ABA responses. In this study, we identify interactors of ABI1 and ABI2 which we have named regulatory components of ABA ...

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Development of testes in the mammalian embryo requires the formation and assembly of several cell types that allow these organs to achieve their roles in male reproduction and endocrine regulation. Testis development is unusual in that several cell types such as Sertoli, Leydig, and spermatogonial c ...

**Building the mammalian testis: origins, differentiation ...**
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