Villous

Proliferation

EVT formation and invasion of the decidua

Decidua

Angiogenesis and spiral artery remodeling

MAPK/PI3K

JNK/c-jun

CTB Cell

Adiponectin

hCG

Leptin

Syncytin-2

STB

E-cadherin

PCT

DCT

MMP-2

MMP-9

mRNA TIMP-2

Stromal cell

evEVT

PGE-2

IL-1β

IL-6

TNF-α
Aims and Scope

Cell Biochemistry and Function is an online journal that publishes original research articles and reviews on the mechanisms whereby molecular and biochemical processes control cellular activity. This should have a particular emphasis on the integration of molecular and cell biology, biochemistry and physiology in the regulation of tissue function in health and disease.

The primary remit of the journal is on mammalian biology both in vivo and in vitro but studies of cells in situ are especially encouraged. Observational and pathological studies will be considered providing they include a rational discussion of the possible molecular and biochemical mechanisms behind them and the immediate impact of these observations to our understanding of mammalian biology.

Areas of particular interest include:

- The control of the cell cycle with respect to cell proliferation, differentiation and death
- DNA and RNA processing and the effects on cellular activity
- The immune system and inflammatory responses
- Lipid peroxidation, free radicals and antioxidants and their role in membrane function
- Intra-cellular organelles and the control of cellular metabolism
- Dysregulation of cellular function in disease

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