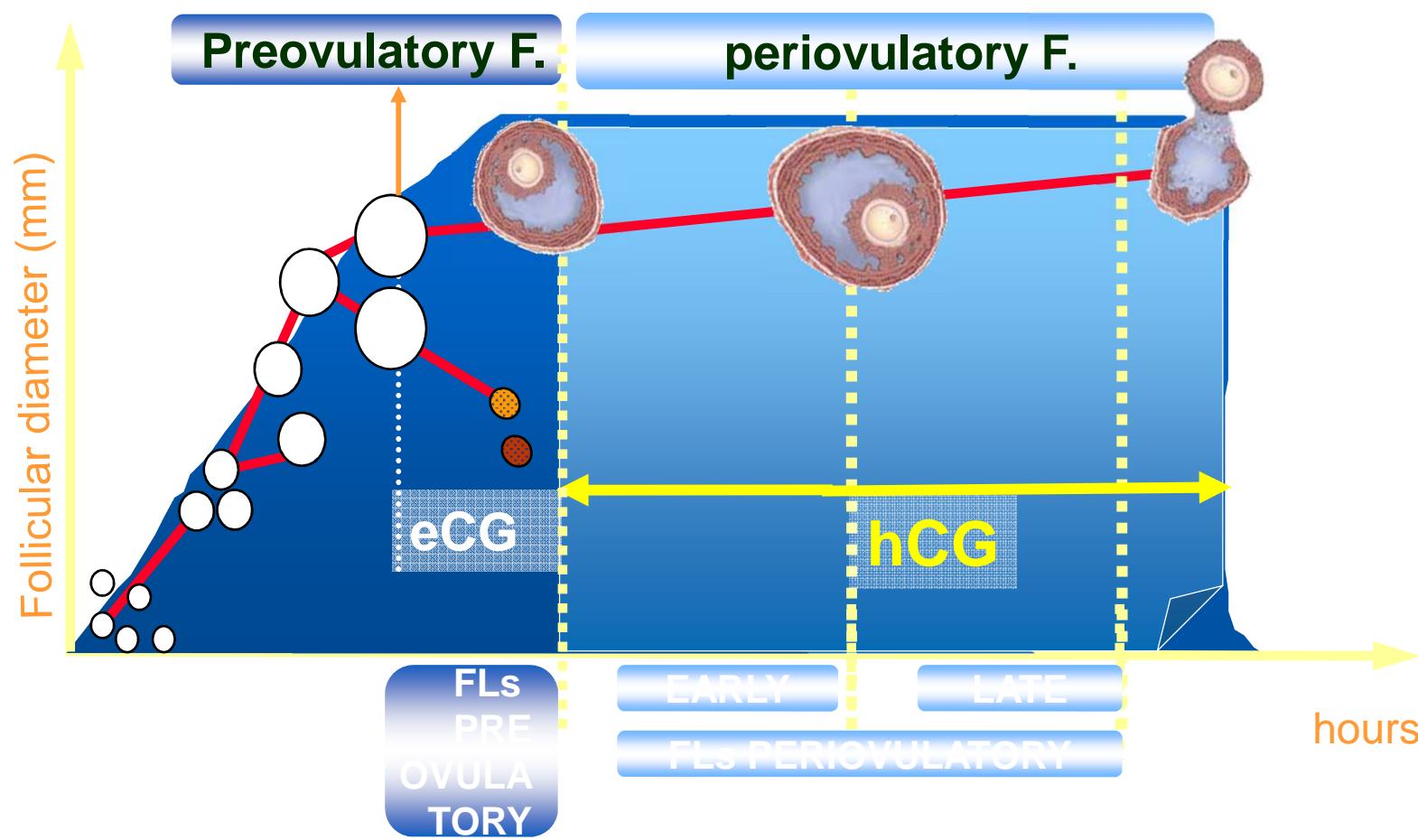
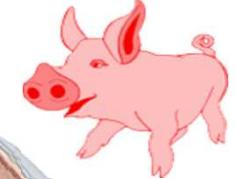
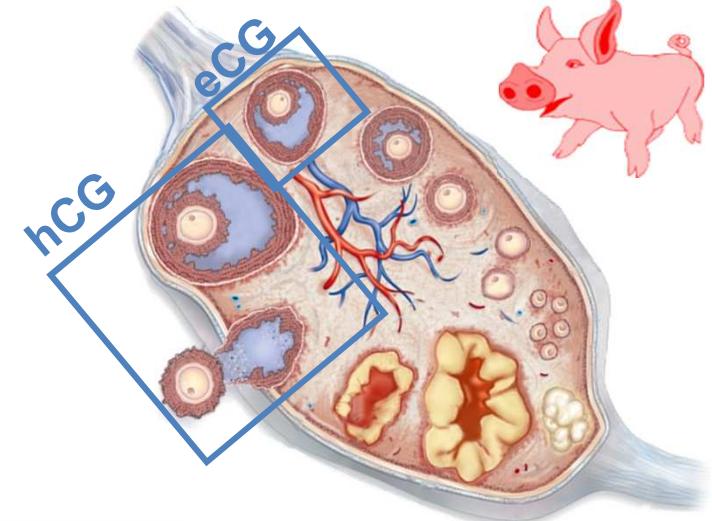
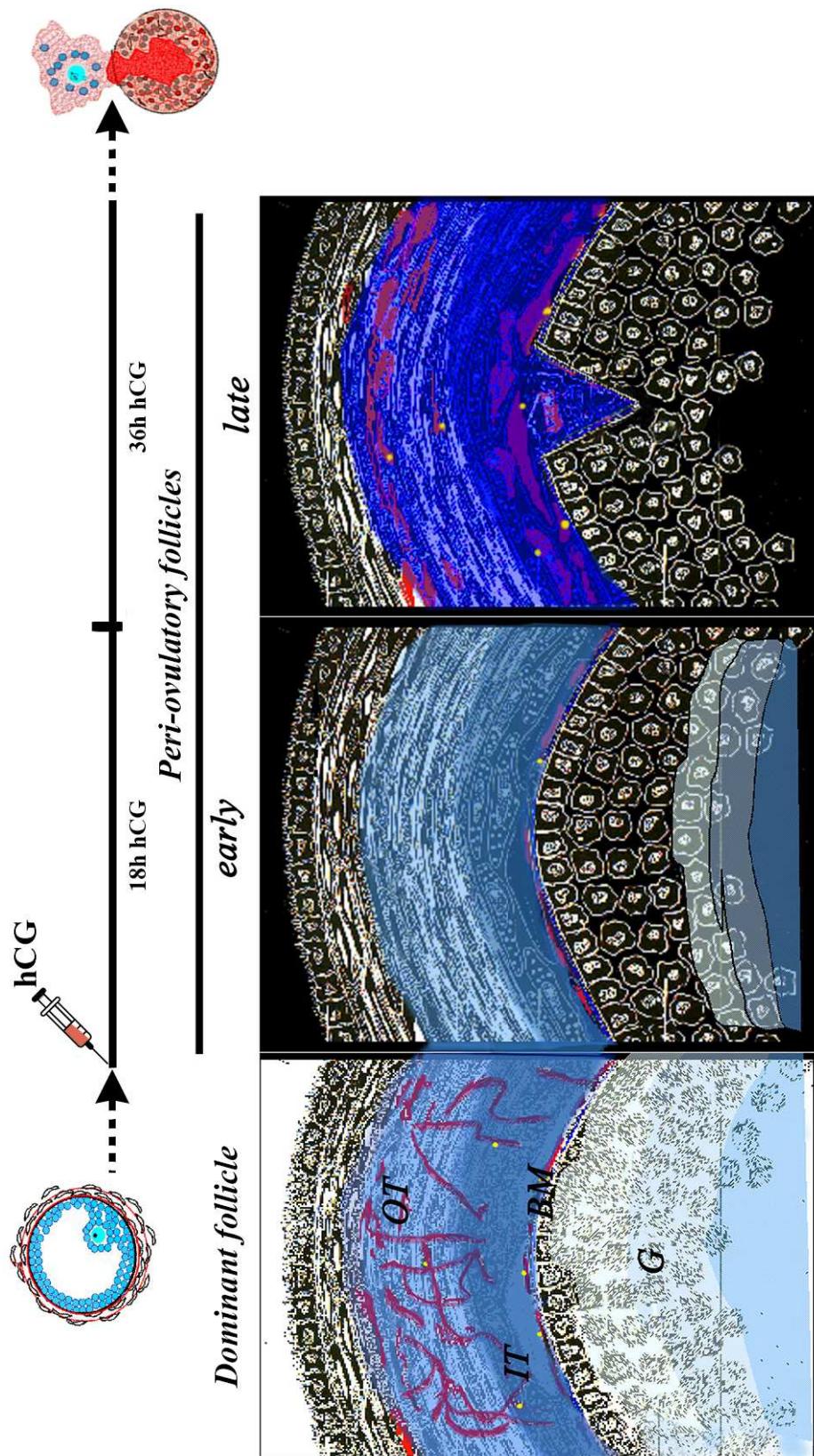


A grayscale micrograph of ovarian tissue. It features several large, irregularly shaped structures, likely ovarian follicles, which appear as bright, granular clusters against a darker background. Interspersed among these are thin, dark, winding lines representing blood vessels. The overall texture is somewhat mottled and cellular.

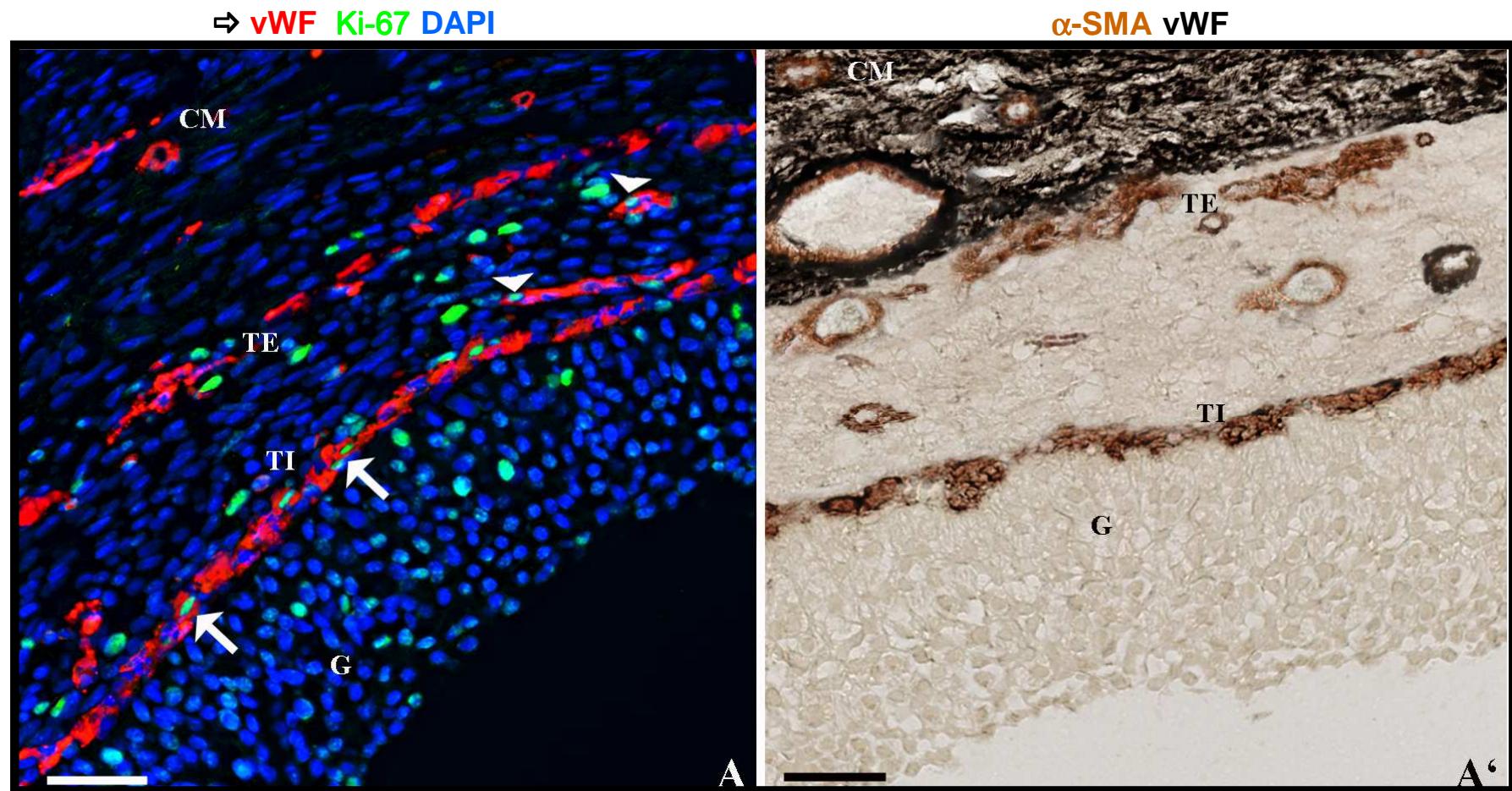
# Ovarian folliculogenesis and angiogenesis: periovulatory follicles



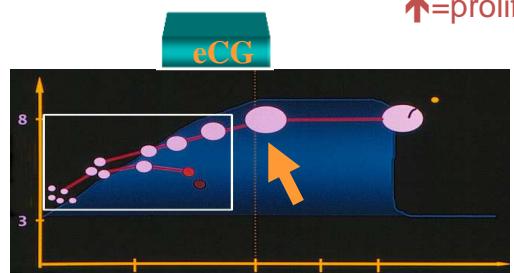
## PERIOVULATORY PHASE



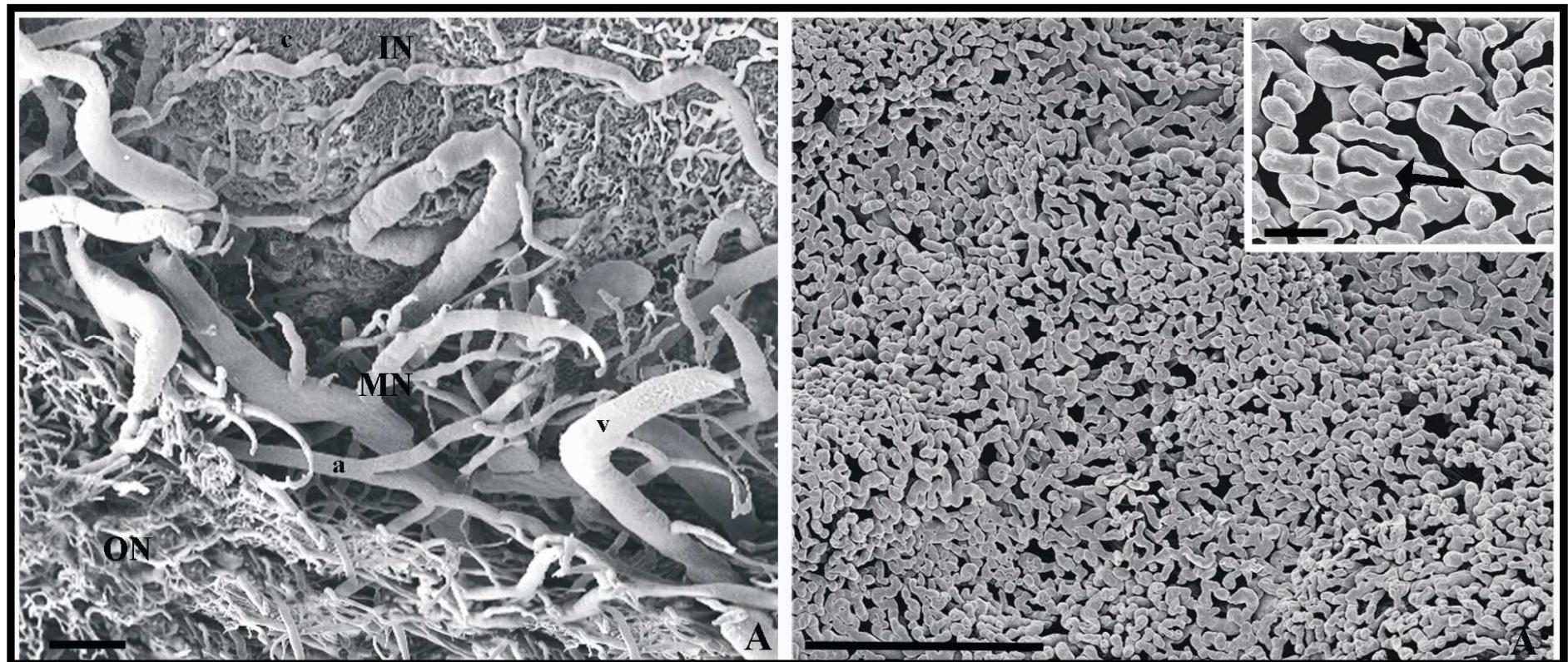
# PREOVULATORY FOLLICLES



LEGEND: G= granulosa cells, TI= theca interna, TE= theca externa, CM=capsule of smooth muscular fibres,  
↑=proliferating endothelial cells in the TI, ▲=proliferating endothelial cells in the TE



# PREOVULATORY FOLLICLES

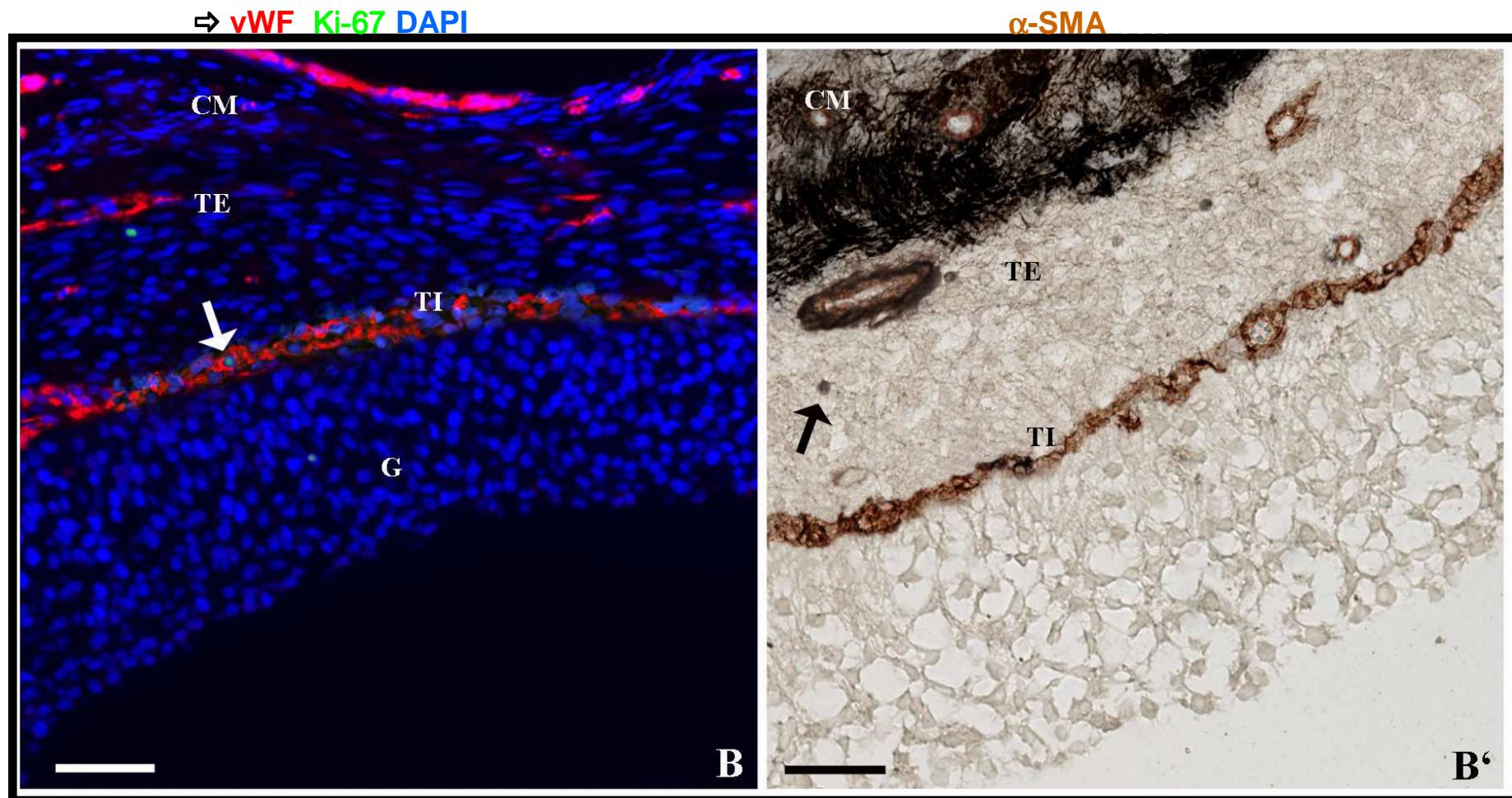


c= capillaries, v= veins, a= arterioles, IN, MN and ON = inner, middle, and outer network, r= resin leakage artifacts, ↑= sprouting, △: budding, \* = infolding-intussusception

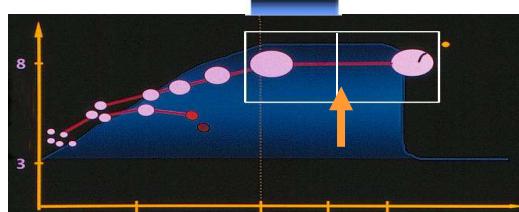
Bar= 100 µm

Bar in insert panel= 25 µm

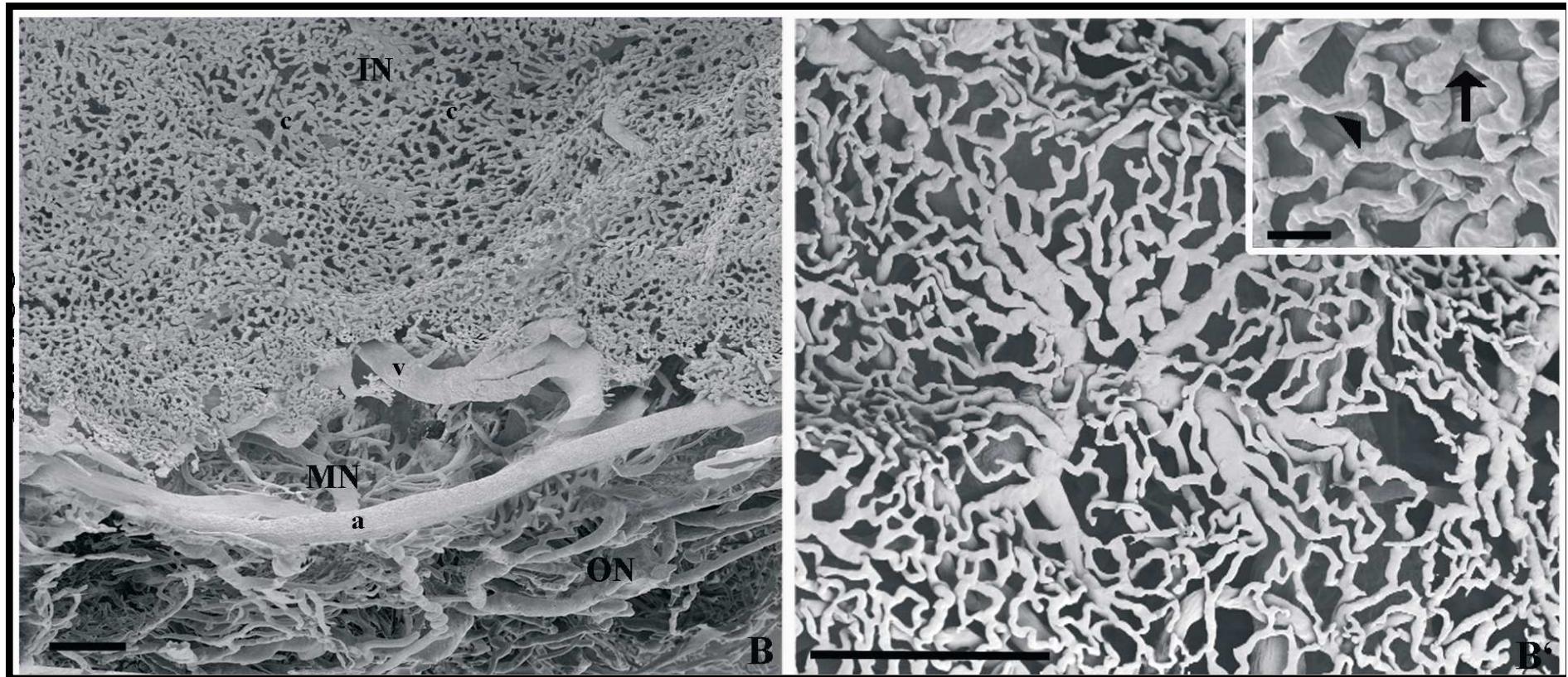
## PERIOVULATORY FOLLICLES (EARLY)



LEGEND: G= granulosa cells, TI= theca interna, TE= theca externa, CM=capsule of smooth muscular fibres,  
↑=proliferating endothelial cells in the TI, ↑= single  $\alpha$ -SMA immunopositive cells



## PERIOVULATORY FOLLICLES (EARLY)

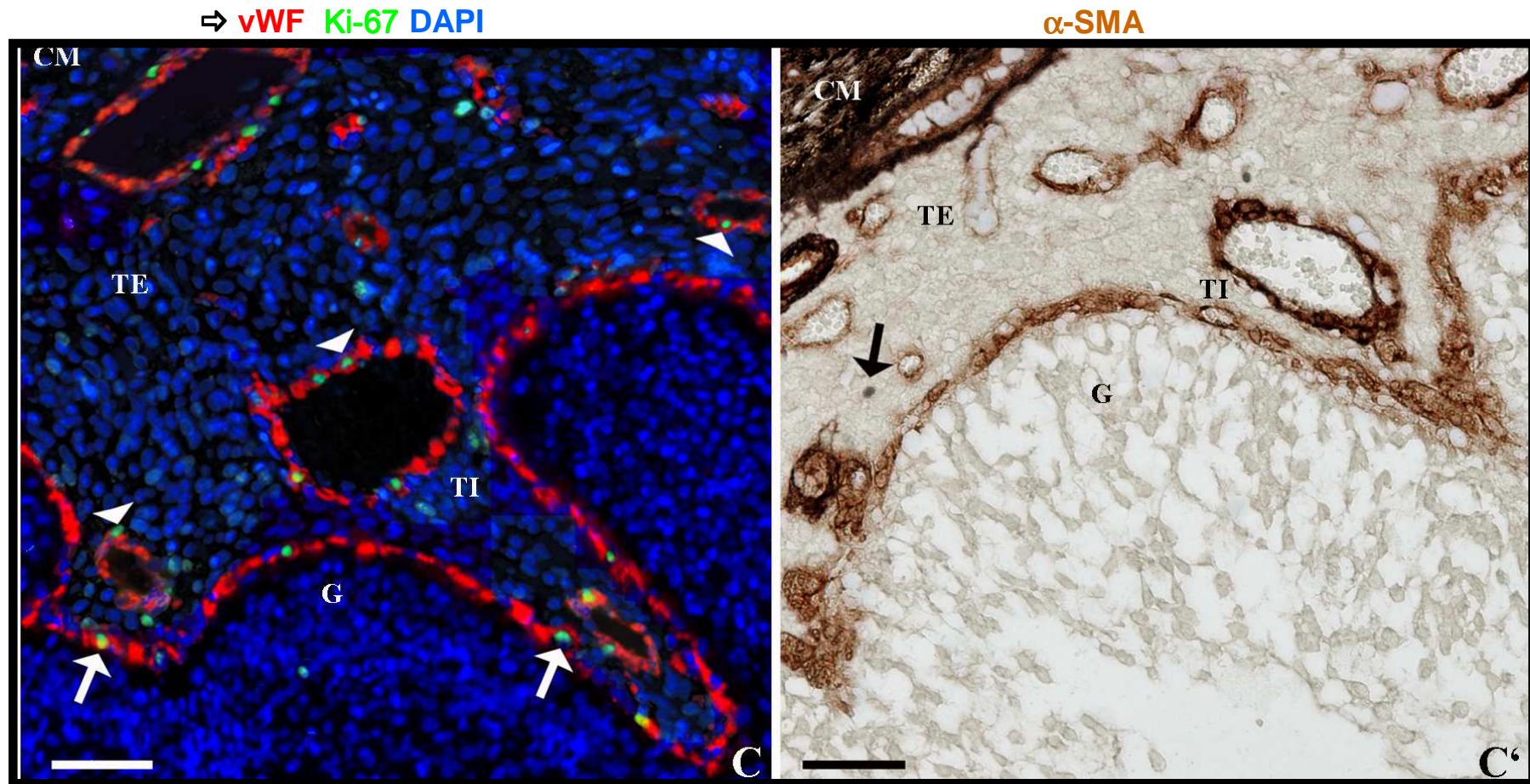


c= capillaries, v= veins, a= arterioles, IN, MN and ON = inner, middle, and outer network, r= resin leakage artifacts,  $\hat{\wedge}$ = sprouting,  $\triangle$ = budding,  $*$ = infolding-intussusception

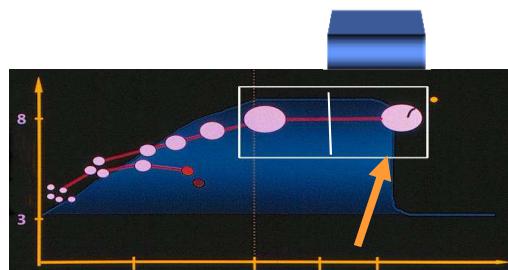
Bar= 100  $\mu$ m

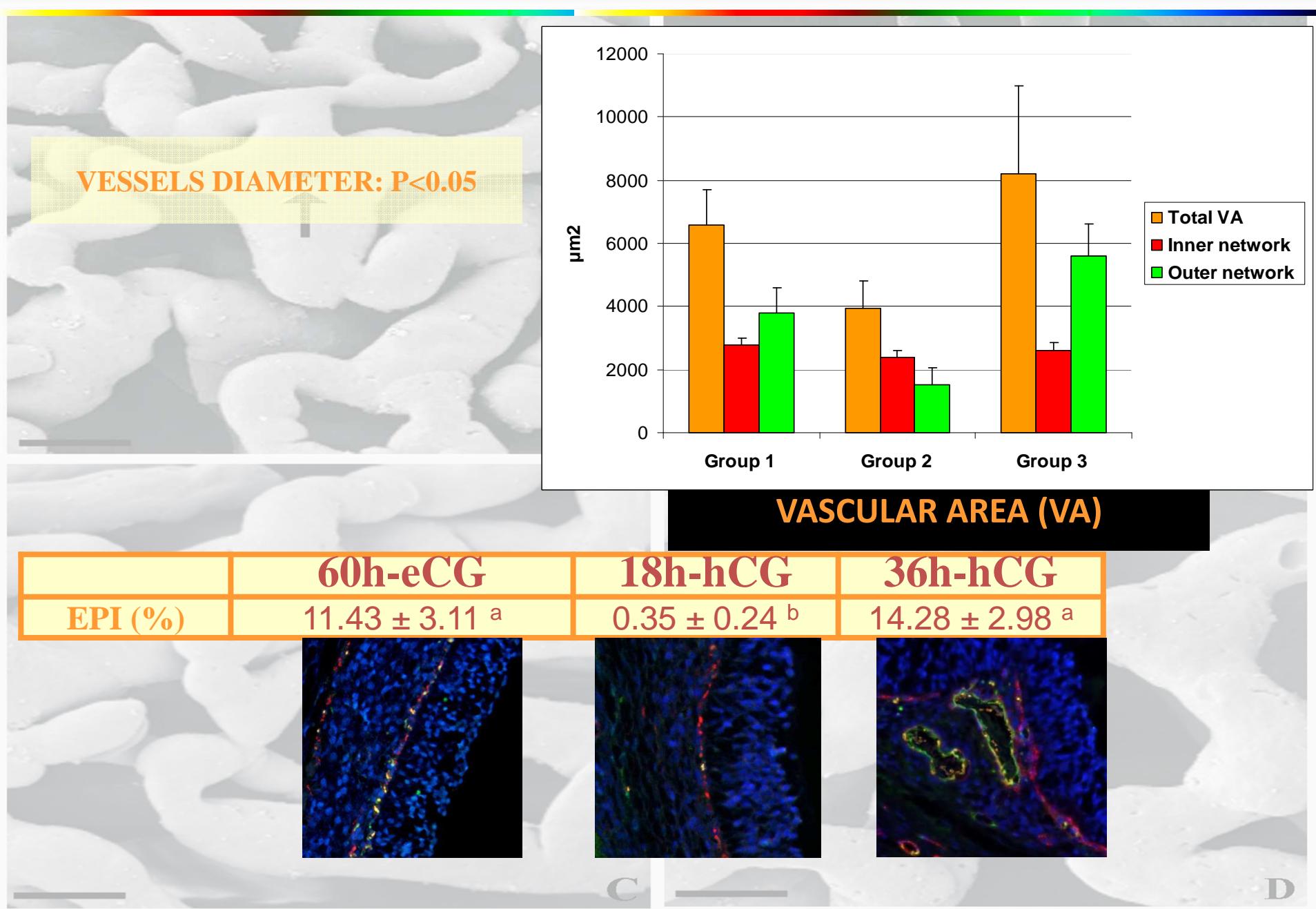
Bar in insert panel= 25  $\mu$ m

# PERIOVULATORY FOLLICLES (LATE)

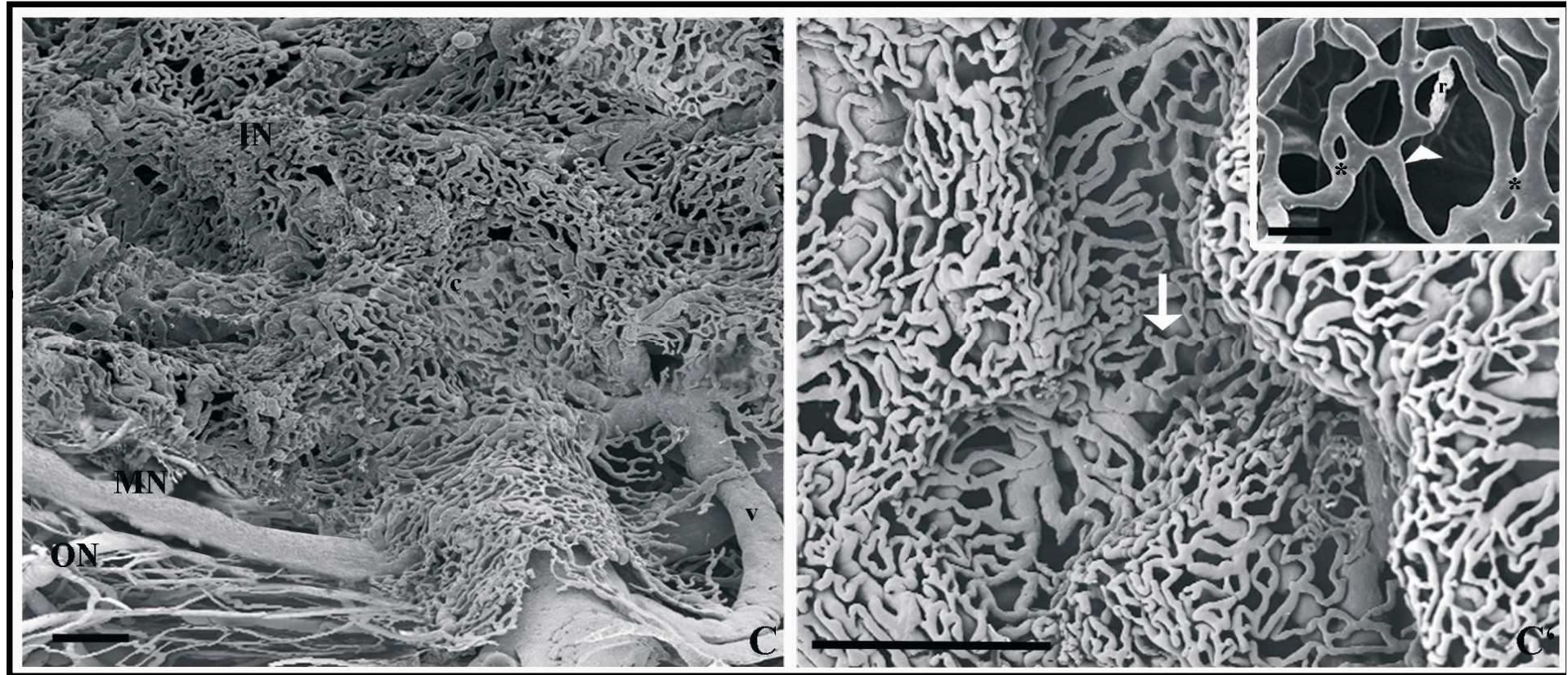


LEGEND: G= granulosa cells, TI= theca interna, TE= theca externa, CM=capsule of smooth muscular fibers, ↑=proliferating endothelial cells in the TI, ↑= single α-SMA immunopositive cells, ▲ = proliferating endothelial cells in the TE





# PERIOVULATORY FOLLICLES (LATE)



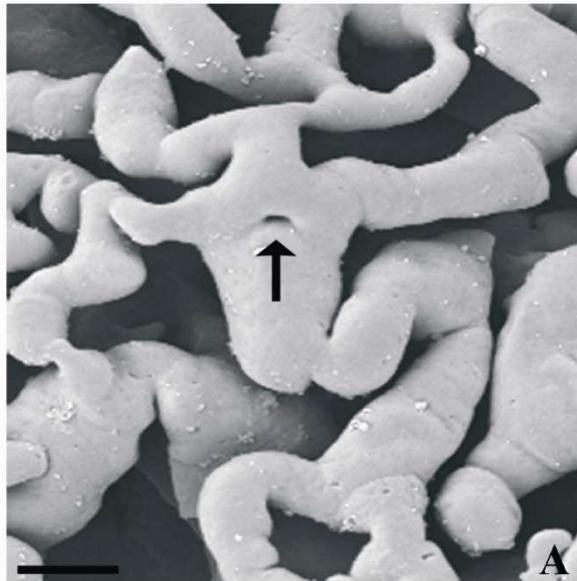
c= capillaries, v= veins, a= arterioles, IN, MN and ON = inner, middle, and outer network, r= resin leakage artifacts, ↑= sprouting, △= budding, \*= infolding-intussusception

Bar= 100 µm

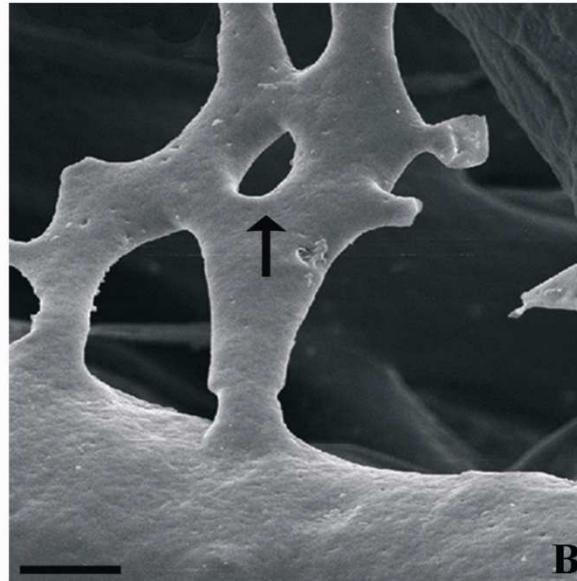
Bar in insert panel= 25 µm

# PERIOVULATORY FOLLICLES (LATE)

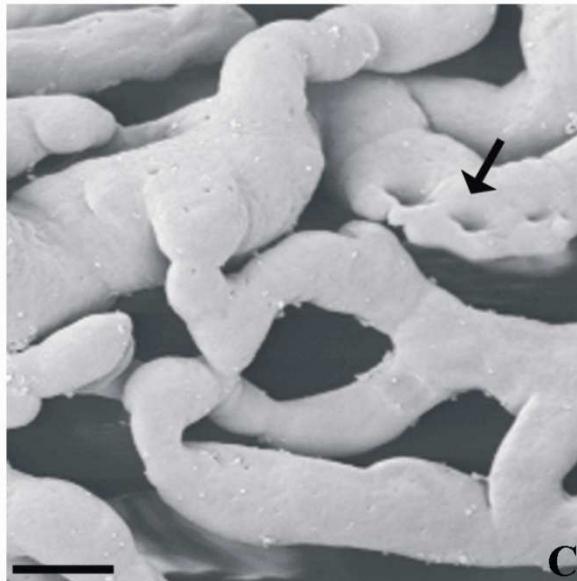
A=  
intussusceptive  
branching  
remodelling



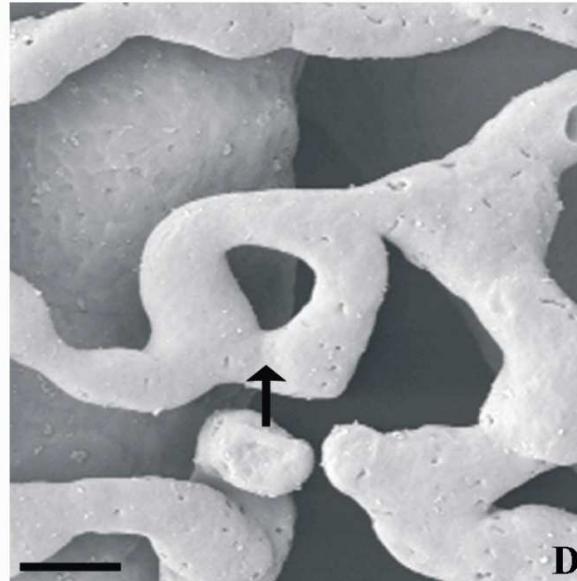
B=  
intussusceptive  
branching  
remodelling



C=  
intussusceptive  
arborisation

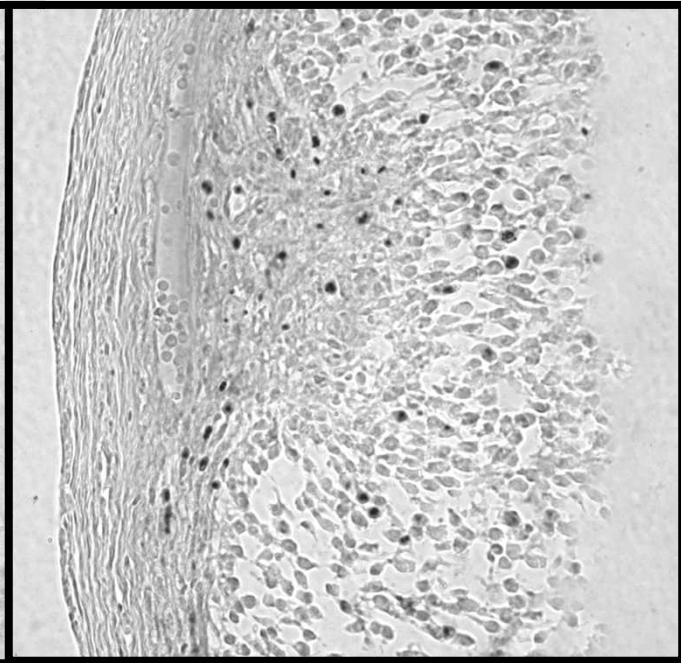
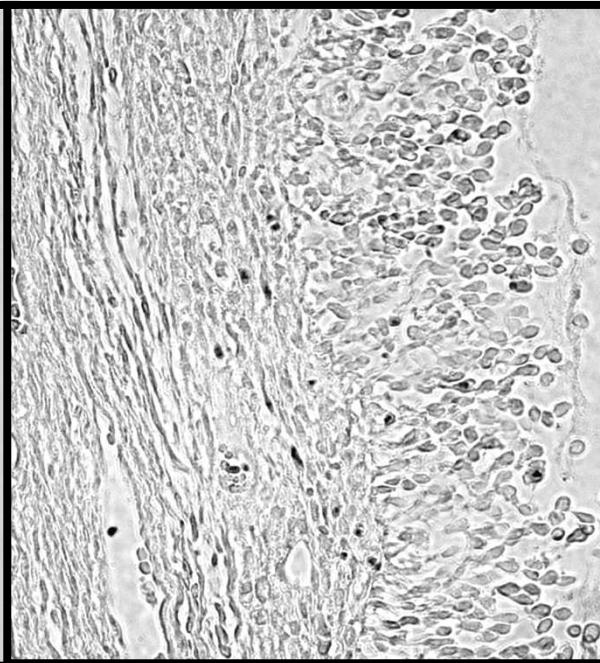
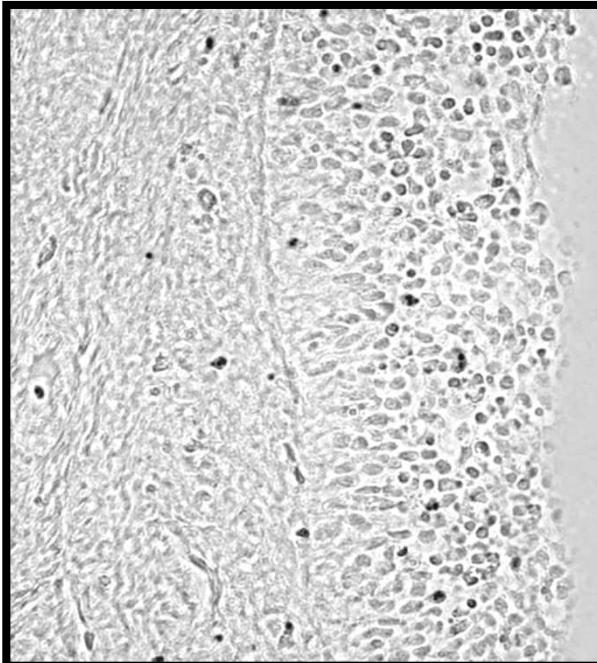
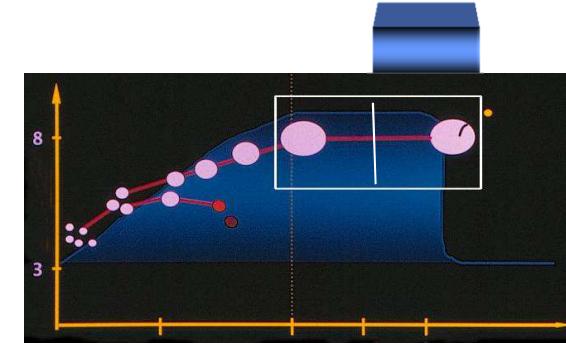
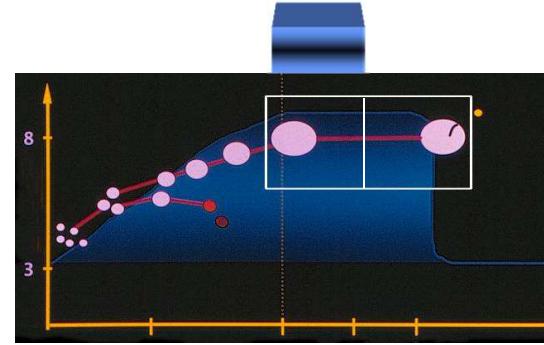
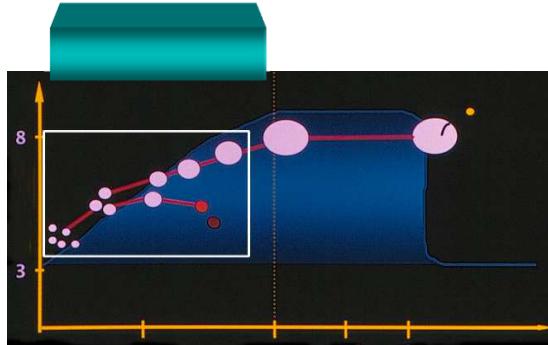


D=  
intussusceptive  
microvascular  
growth

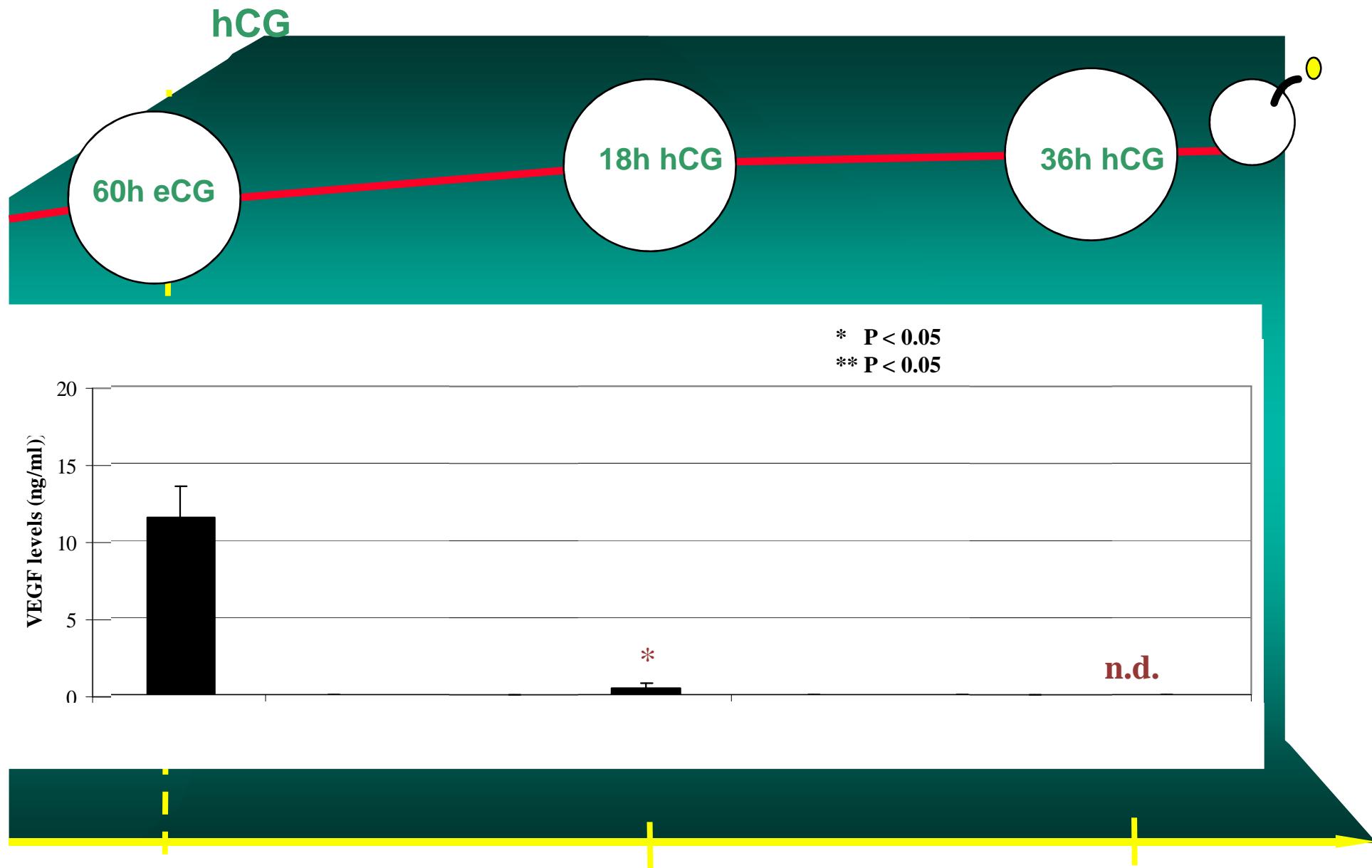


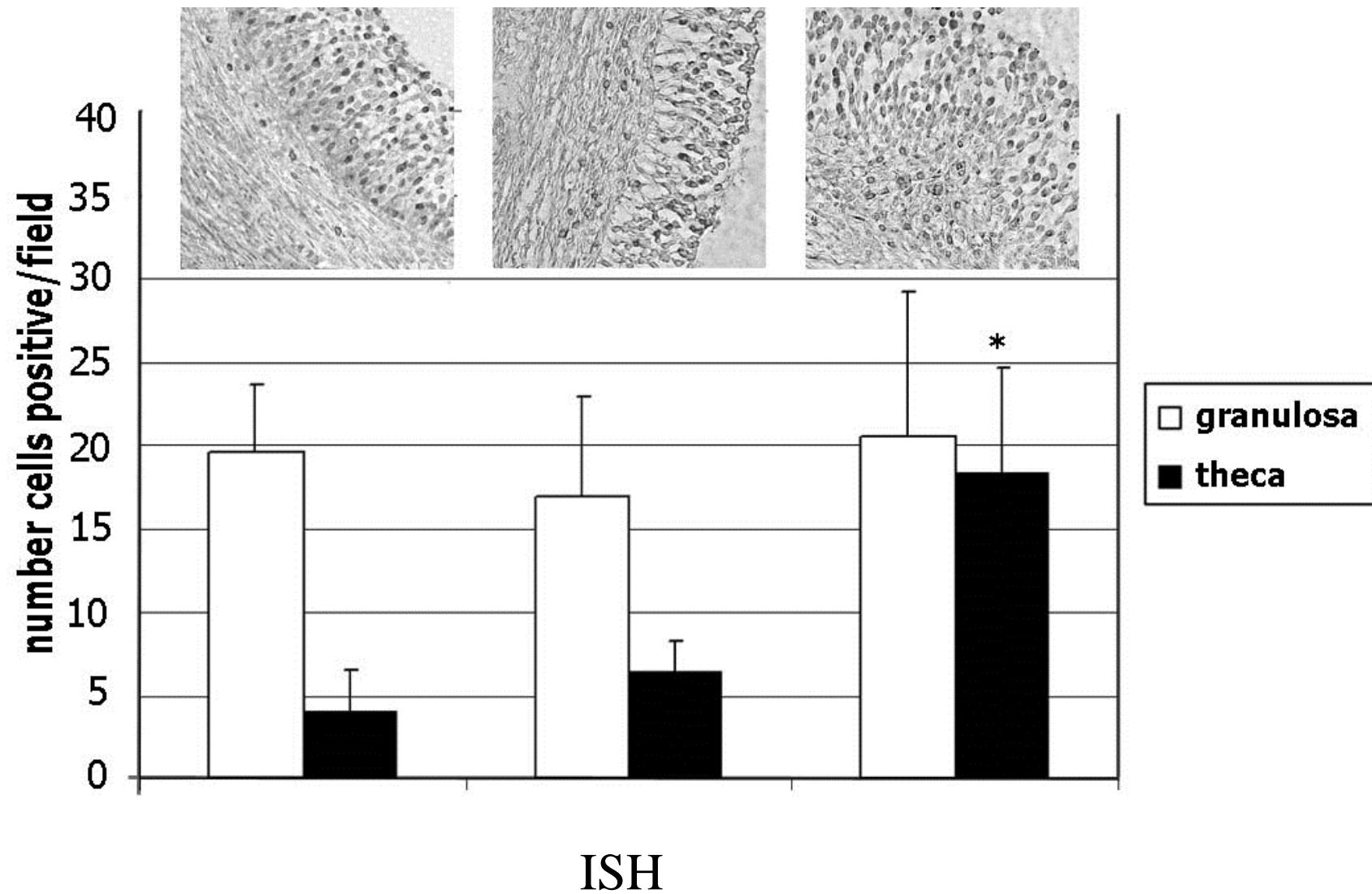
Bar= 100 µm

# VEGF localization

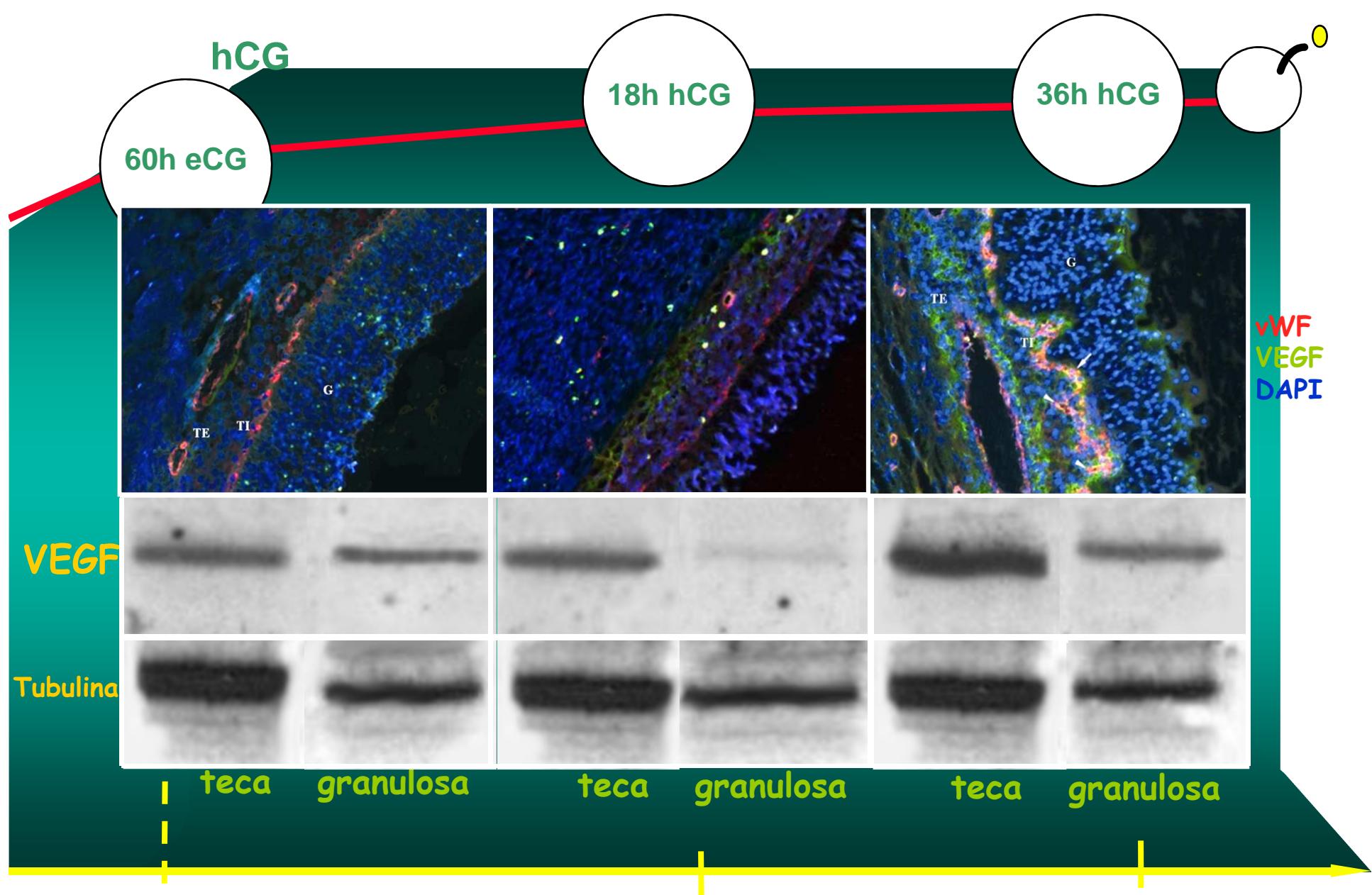


# VEGF in follicular fluid

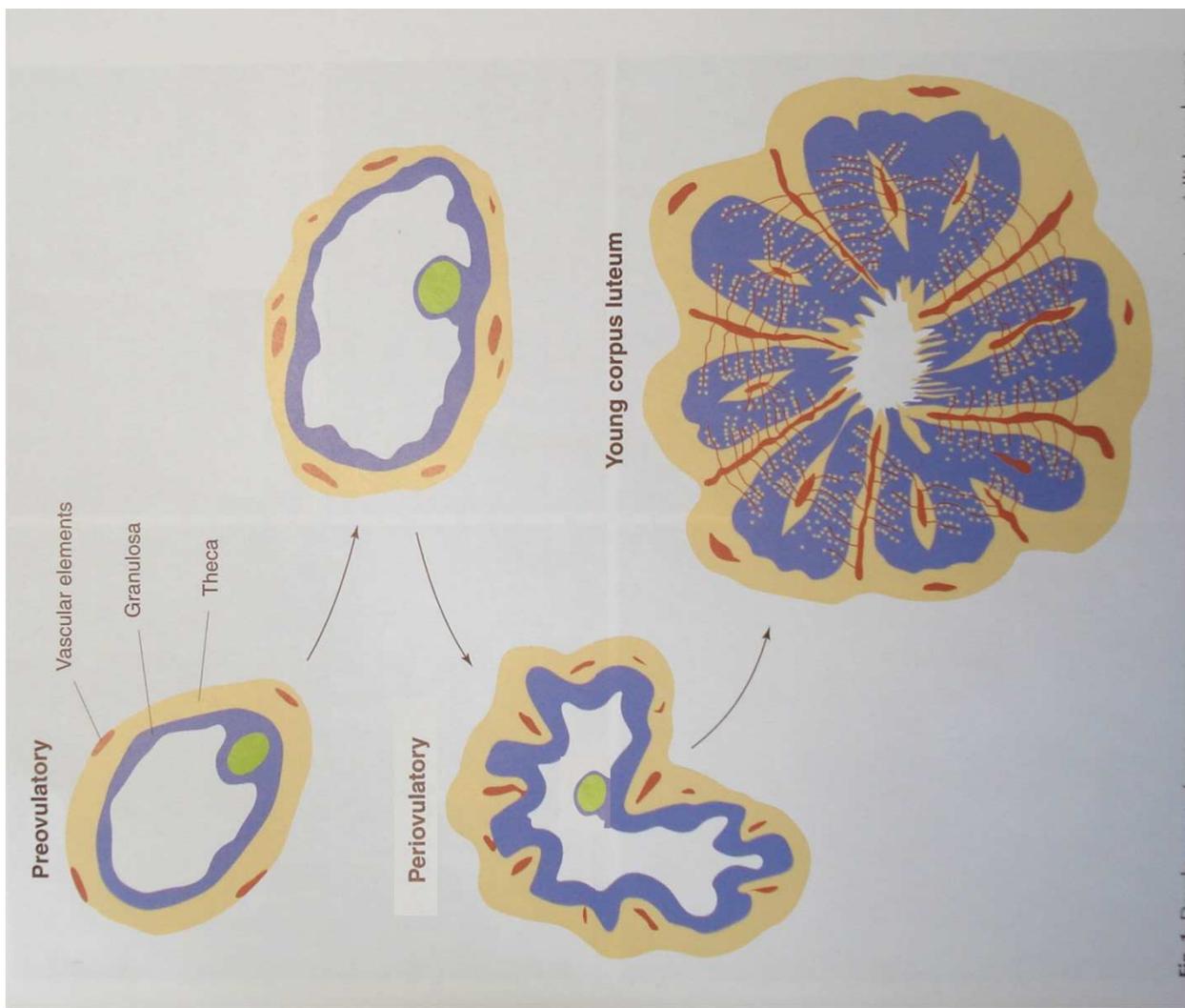




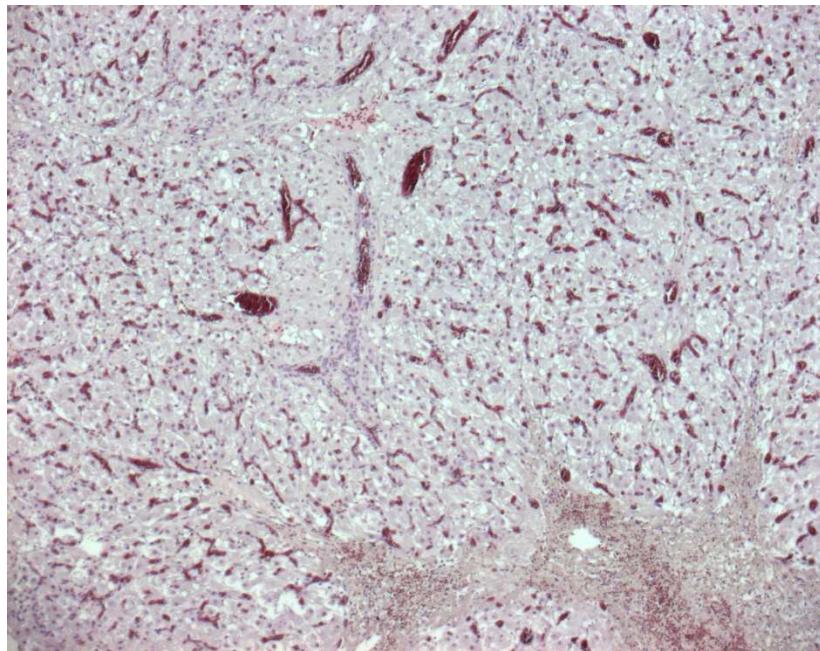
# VEGF







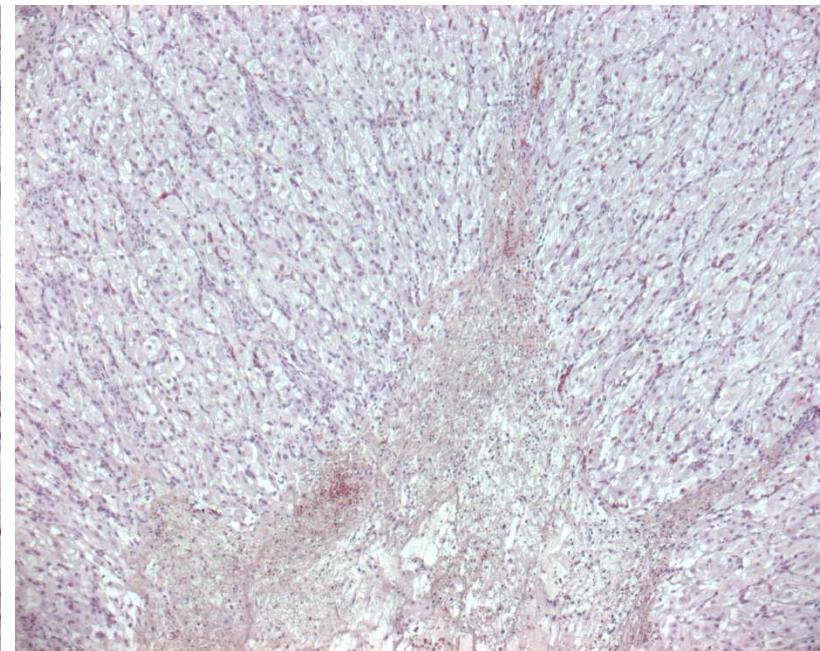
# Corpus luteum (5gg)



VA ( $\mu\text{m}^2$ )

**$634.79 \pm 125.46$**

CTR

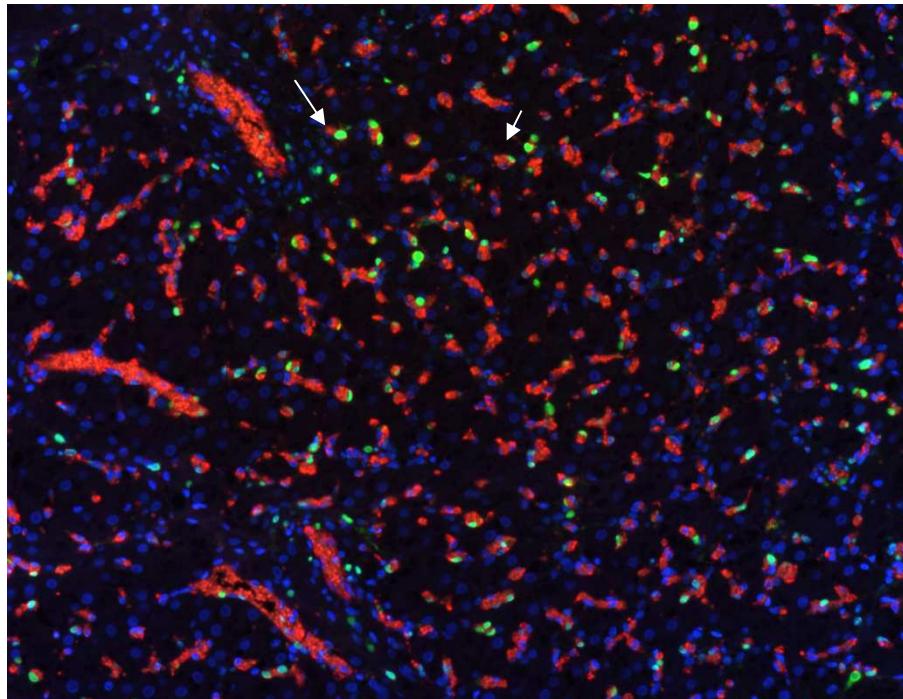


VA ( $\mu\text{m}^2$ )

**$223.45 \pm 98.21 *$**

\*  $P < 0.001$

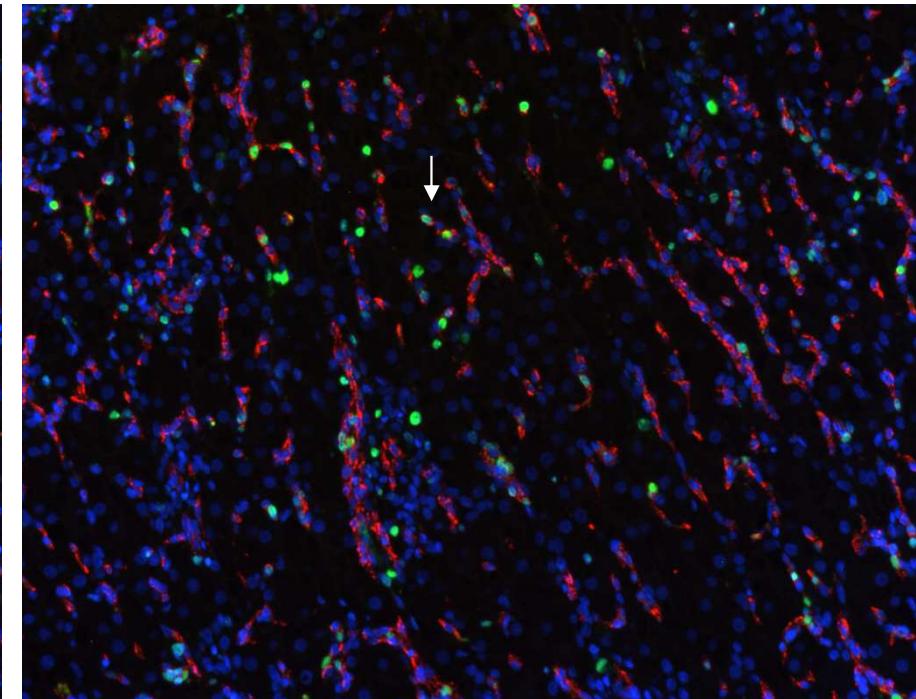
# Corpus luteum (5gg)



PI (%)

$13.42 \pm 2.01$

CTR



PI (%)

$6.14 \pm 2.28$

FvW-Ki-67-DAPI