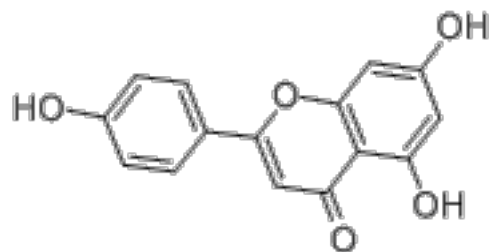
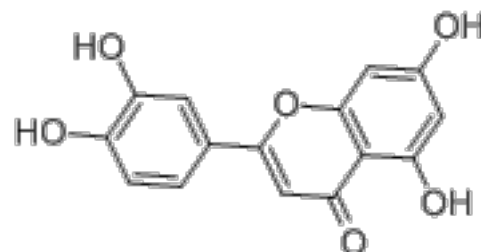


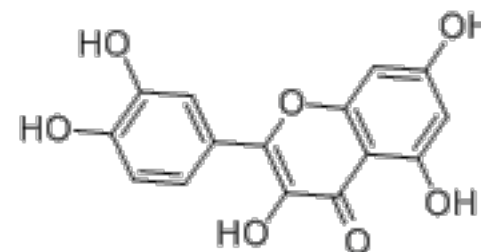
## Flavonoids



Apigenin

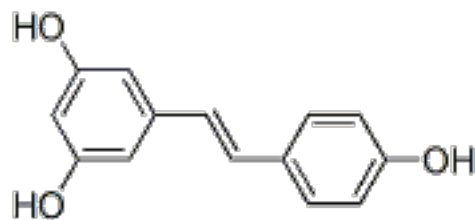


Luteolin



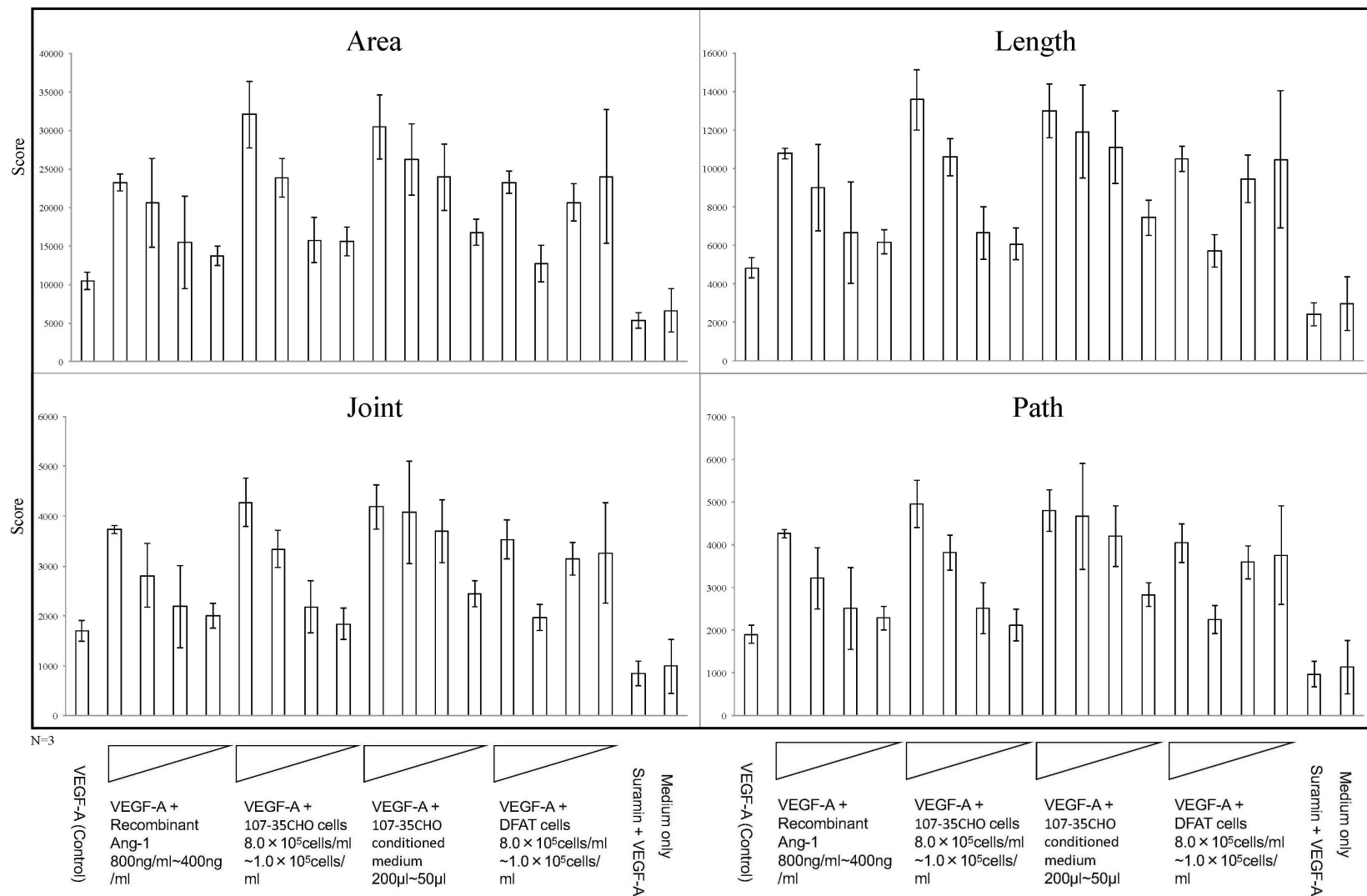
Quercetin

## Polyphenol

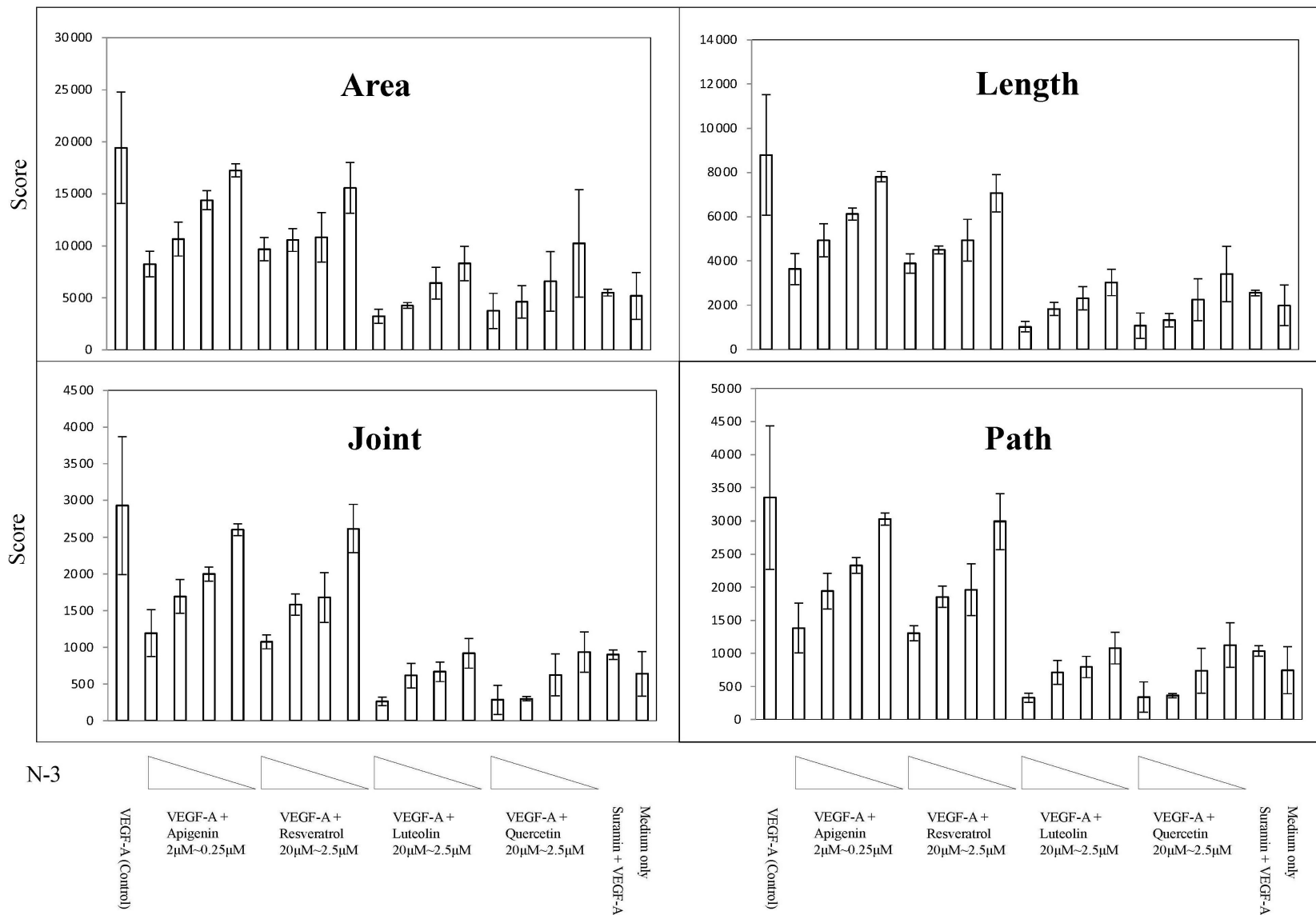


Resveratrol

**Figure S1. Structure of Flavonoids and Polyphenol used in this paper.**



**Figure S2. Results of quantitative analysis by using *KURABO Angiogenesis Image Analyzer* (Promotion)** The promoting factor added to the cultures were Ang-1 that is known to stabilize the blood vessel. The results of quantitative analysis suggested that Ang-1 has a promoting effect on angiogenesis. Result of triplicated experiments for each sample were shown with standard deviations.



**Figure S3. Results of quantitative analysis by using KURABO Angiogenesis Image Analyzer (Polyphenols)**  
 The stained images were subjected to the quantitative microscope analysis by using the software attached to the kit. Flavonoids or polyphenol showed inhibitory effects on angiogenesis in a dose dependent manner. Particularly, luteolin and the quercetin showed remarkable effects. Result of triplicated experiments for each sample were shown with standard deviations.

**Table S1. PCR primers for analyzed genes analyzed**

Primer		Tm1	Tm2	
vWF	F	54	54	5'- AGC CTT GTG AAA CTG AAG CAT -3'
237 bp	R	58	54	5'- GCC CTG GTT GCC ATT GTA ATT C -3'
PECAM	F	58	55	5'- ACC GTG ACG GAA TCC TTC TCT -3'
246 bp	R	57	53	5'- GCT GGA CTC CAC TTT GCA C -3'
$\alpha$ SMA	F	57	55	5'- CTG AGC GTG GCT ATT CCT TC -3'
480 bp	R	60	55	5'- GCT GGA AGG TGG ACA GAG AG -3'
Flk1	F	57	55	5'- CAG CTT CCA AGT GGC TAA GG -3'
463 bp	R	51	48	5'- ATT TCC CAA ATG TTC CAC CA -3'
GAPDH	F	57	53	5'- ACC CAG AAG ACT GTG GAT GG -3'
421 bp	R	55	53	5'- CCC TGT TGC TGT AGC CAA AT -3'

Primer		Tm1	Tm2	
COX-1	F	55	51	5'- TCA TCG AGG AGT ACG TGC -3'
661 bp	R	57	53	5'- AGG GAC AGG TCT TGG TGT TG -3'
COX-2	F	53	53	5'- TAA ACT GCG CCT TTT CAA GG -3'
620 bp	R	51	48	5'- GTG ATA CTT TCT GTA CTG CT -3'
PPAR $\gamma$	F	60	58	5'- CAG GAG CAG AGC AAA GAG GTG -3'
250 bp	R	56	53	5'- CAA ACT CAA ACT TGG GCT CCA -3'
GAPDH	F	57	53	5'- ACC CAG AAG ACT GTG GAT GG -3'
421 bp	R	55	53	5'- CCC TGT TGC TGT AGC CAA AT -3'

Primer		Tm1	Tm2	
eNOS	F	65	63	5'- GCT GCG CCA GGC TCT CAC CTT C -3'
105 bp	R	61	61	5'- GGC TGC AGC CCT TTG CTC TCAA -3'
GAPDH	F	57	53	5'- ACC CAG AAG ACT GTG GAT GG -3'
421 bp	R	55	53	5'- CCC TGT TGC TGT AGC CAA AT -3'