FIG. 1

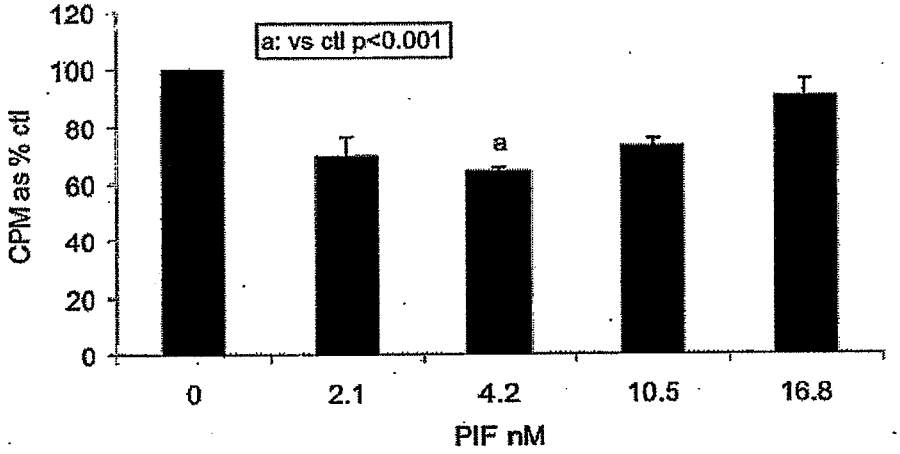

a: vs ctl p<0.001
CPM as % ctl
120
100
80
60
40
20
0
a
0
2.1
4.2
10.5
16.8
PIF nM

FIG. 2

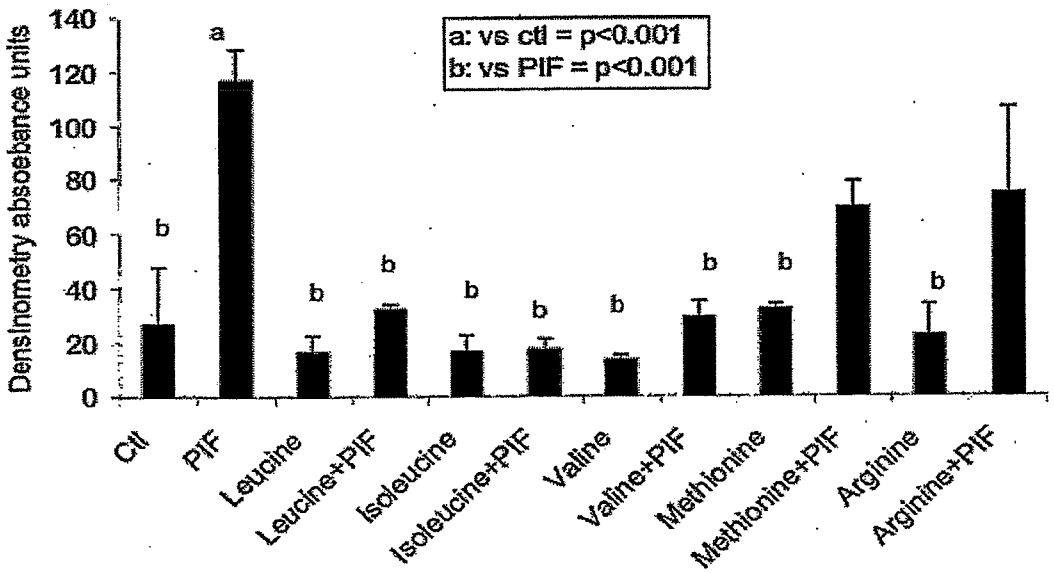

a: vs ctl = p<0.001
b: vs PIF = p<0.001
Densitometry absorbance units
140
120
100
80
60
40
20
0
a
b
Ctl
PIF
Leucine
Leucine+PIF
Isoleucine
Isoleucine+PIF
Valine
Valine+PIF
Methionine
Methionine+PIF
Arginine
Arginine+PIF

FIG. 3

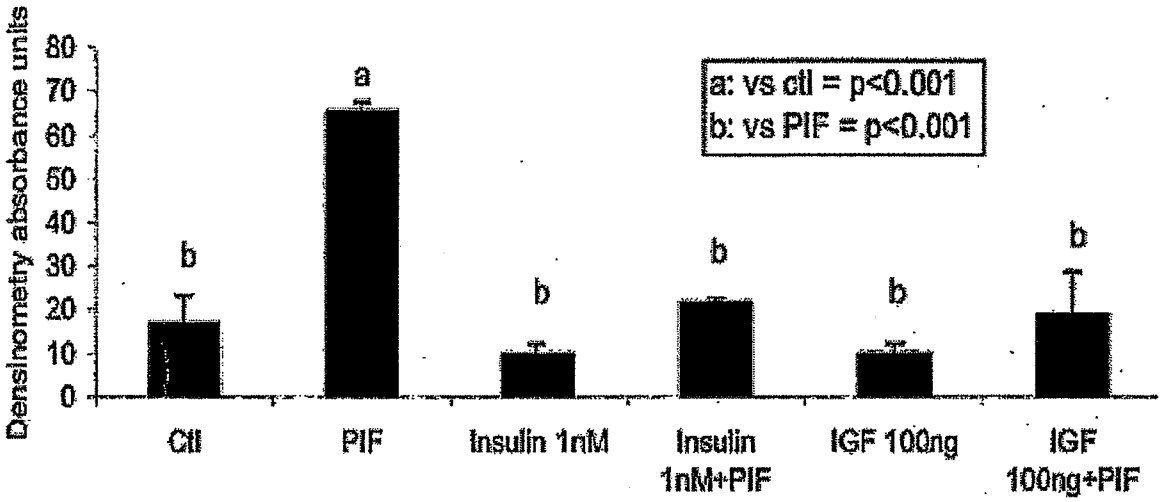

Densinometry absorbance units
80
70
60
50
40
30
20
10
0
a
b
b
b
b
b
a: vs ctl = p<0.001
b: vs PIF = p<0.001
Ctl
PIF
Insulin 1nM
Insulin 1nM+PIF
IGF 100ng
IGF 100ng+PIF

FIG. 4

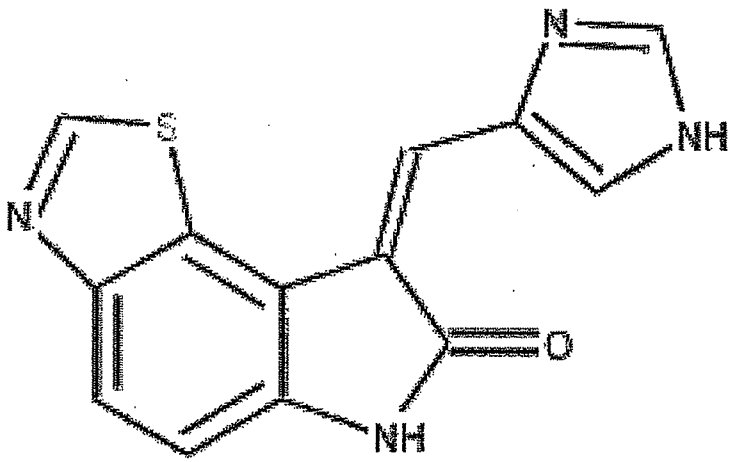

N
NH
S
N
O
NH

FIG. 5

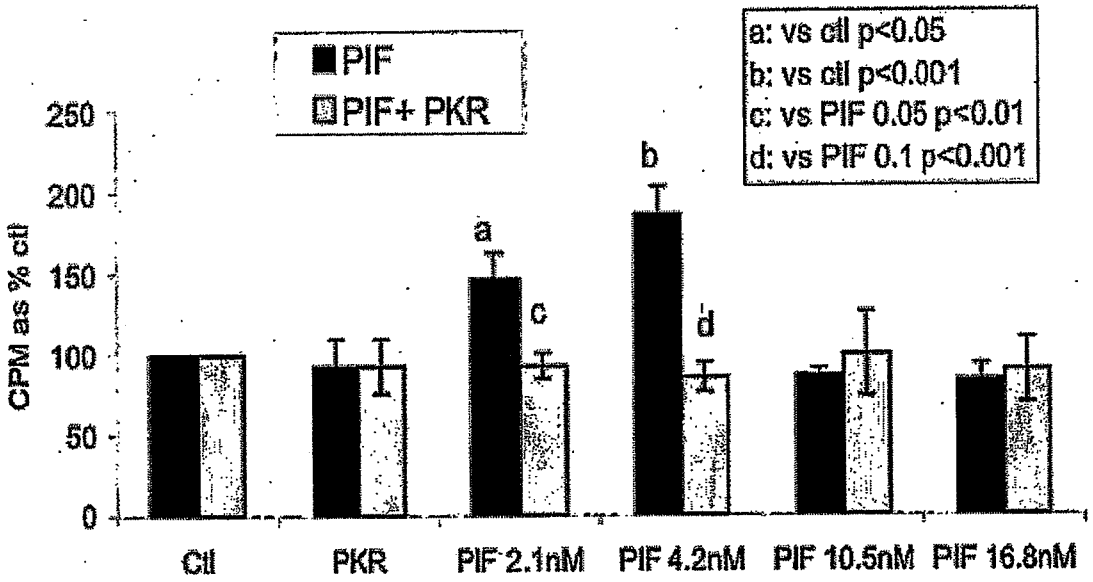

PIF
PIF+ PKR
a: vs ctl p<0.05
b: vs ctl p<0.001
c: vs PIF 0.05 p<0.01
d: vs PIF 0.1 p<0.001
CPM as % ctl
250
200
150
100
50
0
a
b
c
d
Ctl
PKR
PIF 2.1nM
PIF 4.2nM
PIF 10.5nM
PIF 16.8nM

FIG. 6

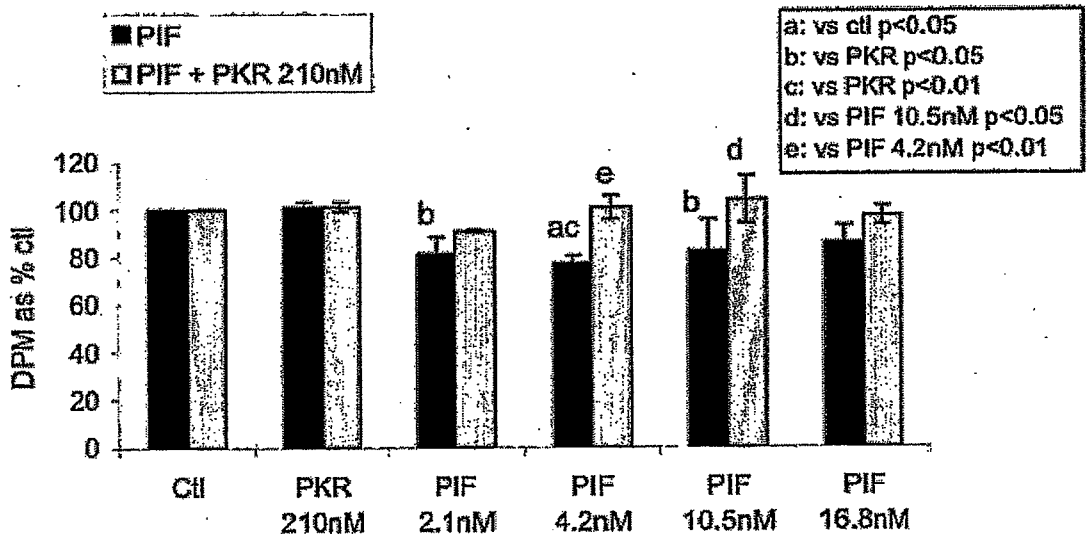

PIF
PIF + PKR 210nM
a: vs ctl p<0.05
b: vs PKR p<0.05
c: vs PKR p<0.01
d: vs PIF 10.5nM p<0.05
e: vs PIF 4.2nM p<0.01
DPM as % ctl
120
100
80
60
40
20
0
b
ac
e
b
d
Ctl
PKR 210nM
PIF 2.1nM
PIF 4.2nM
PIF 10.5nM
PIF 16.8nM

FIG. 7

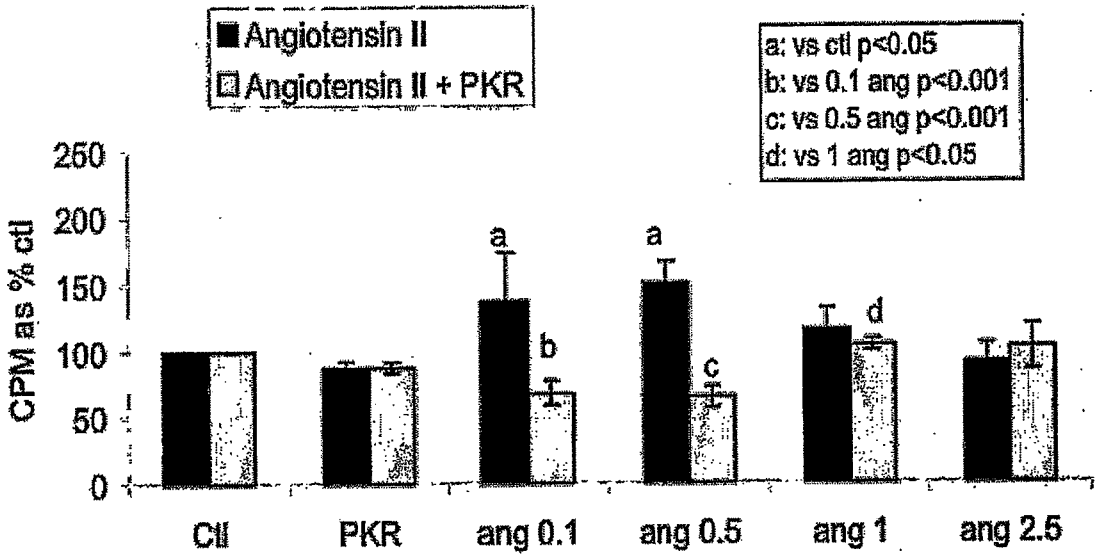
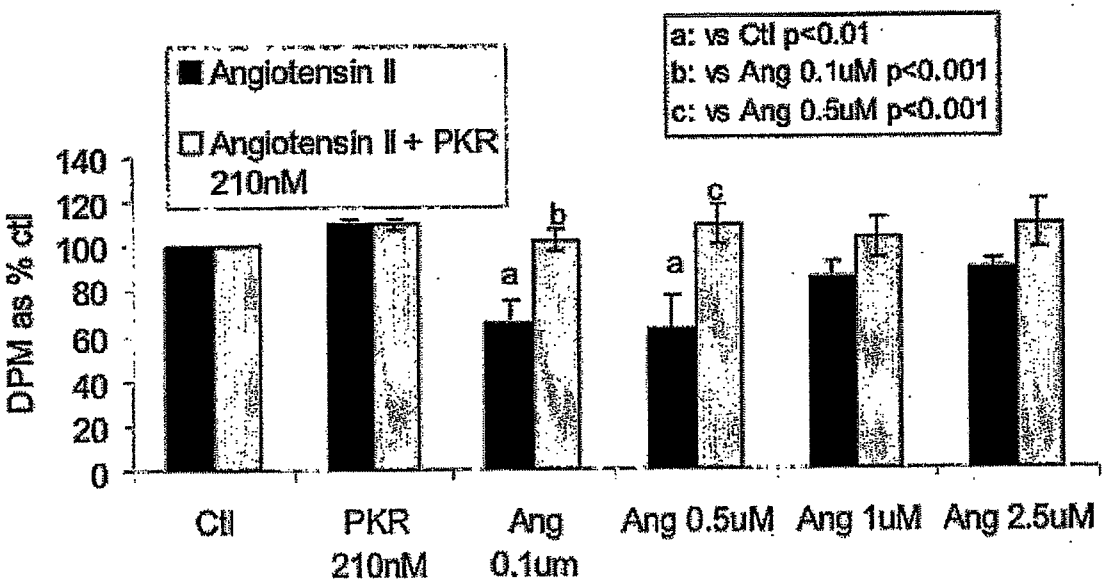

Angiotensin II
Angiotensin II + PKR
a: vs ctl p<0.05
b: vs 0.1 ang p<0.001
c: vs 0.5 ang p<0.001
d: vs 1 ang p<0.05
CPM as % ctl
250
200
150
100
50
0
a
b
a
c
d
Ctl
PKR
ang 0.1
ang 0.5
ang 1
ang 2.5

FIG. 8


Angiotensin II
Angiotensin II + PKR
210nM
a: vs Ctl p<0.01
b: vs Ang 0.1uM p<0.001
c: vs Ang 0.5uM p<0.001
DPM as % ctl
140
120
100
80
60
40
20
0
a
b
a
c
Ctl
PKR
210nM
Ang
0.1um
Ang 0.5uM
Ang 1uM
Ang 2.5uM

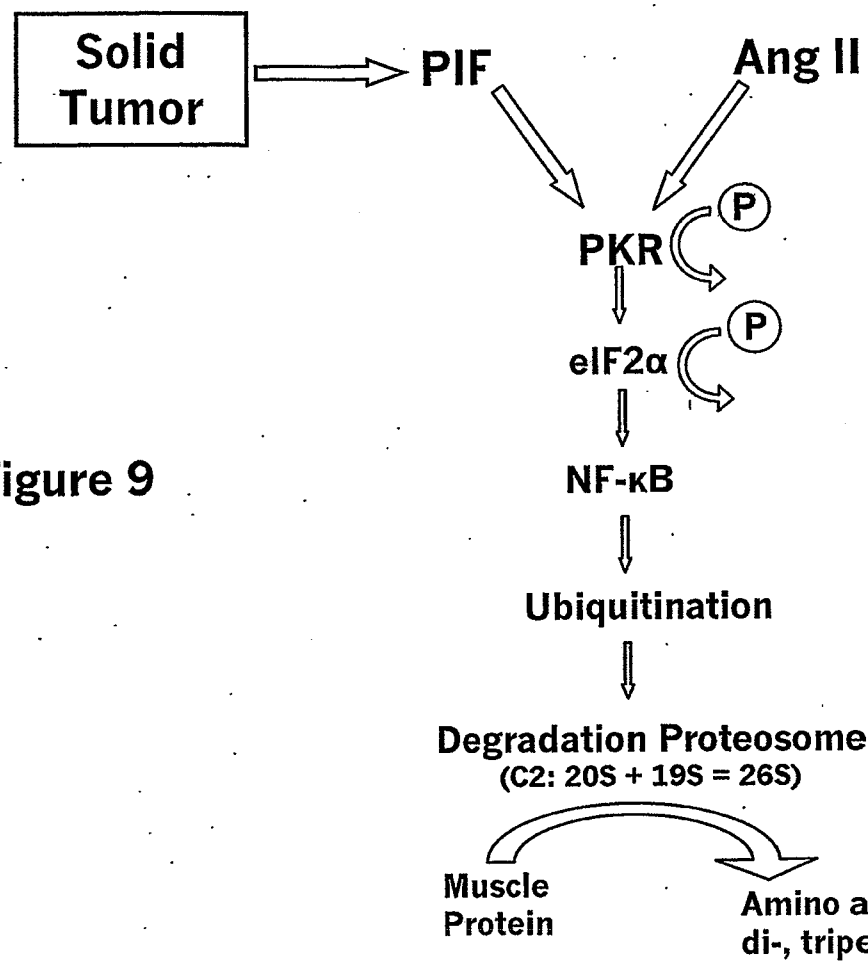
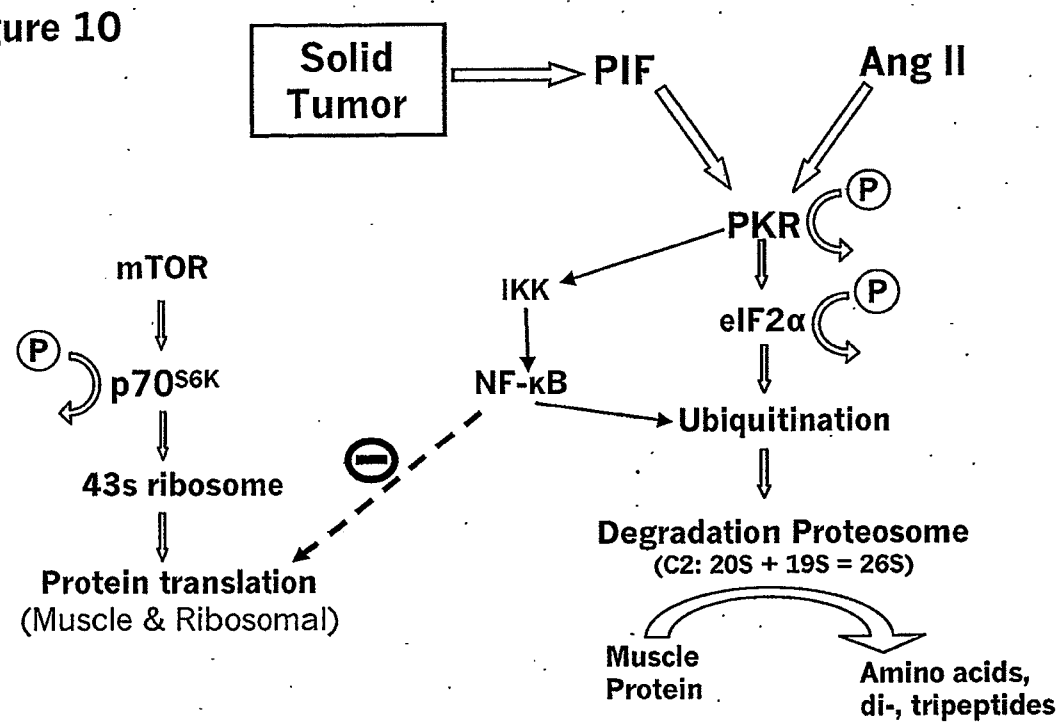


Figure 9

Mechanisms of Cancer Cachexia

Figure 10



Mechanisms of Cancer Cachexia