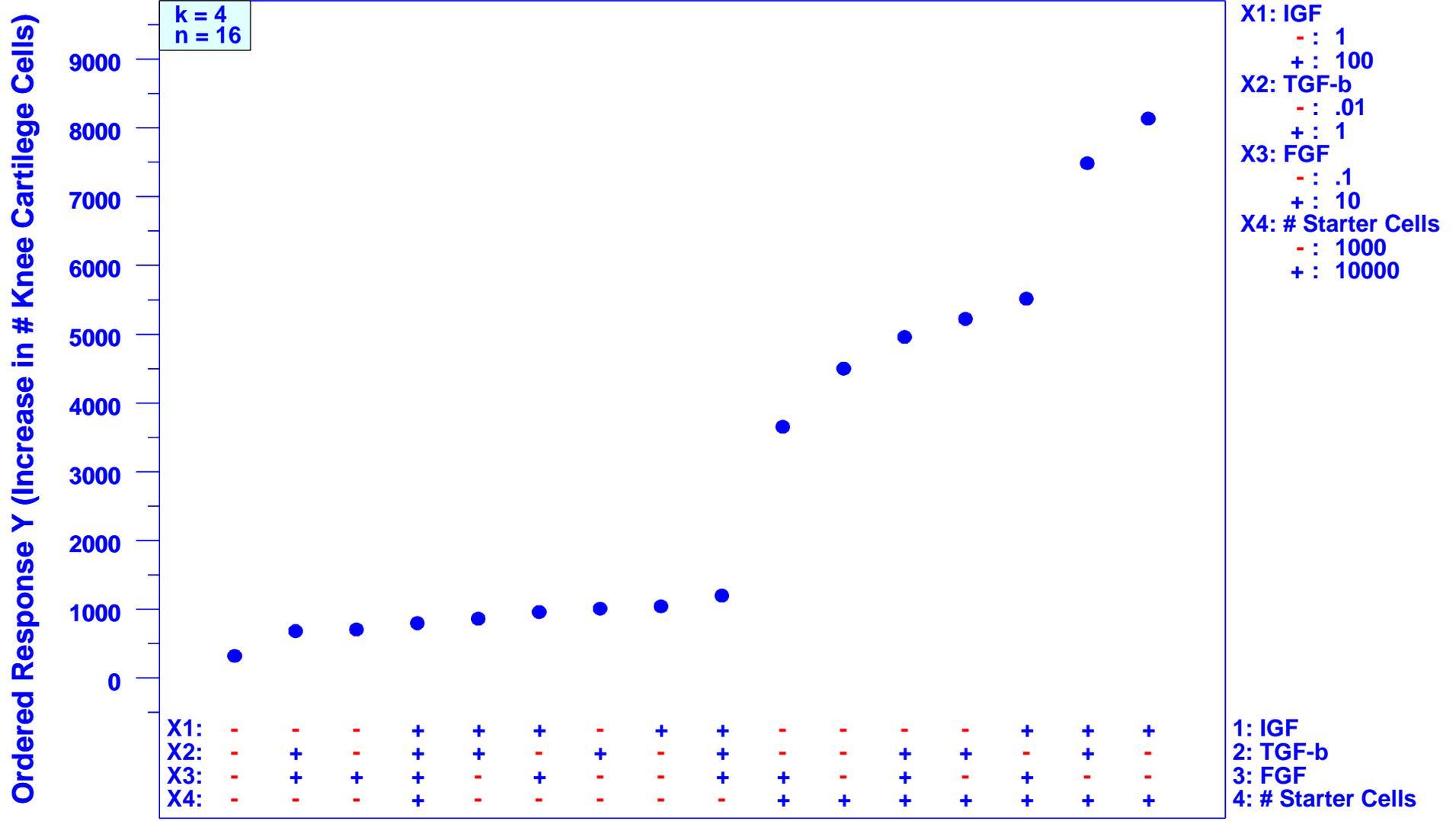


# Factors Promoting Knee Cartilage Regeneration

Design: 2\*\*4 (k=4,n=16)

### Ordered Data Plot

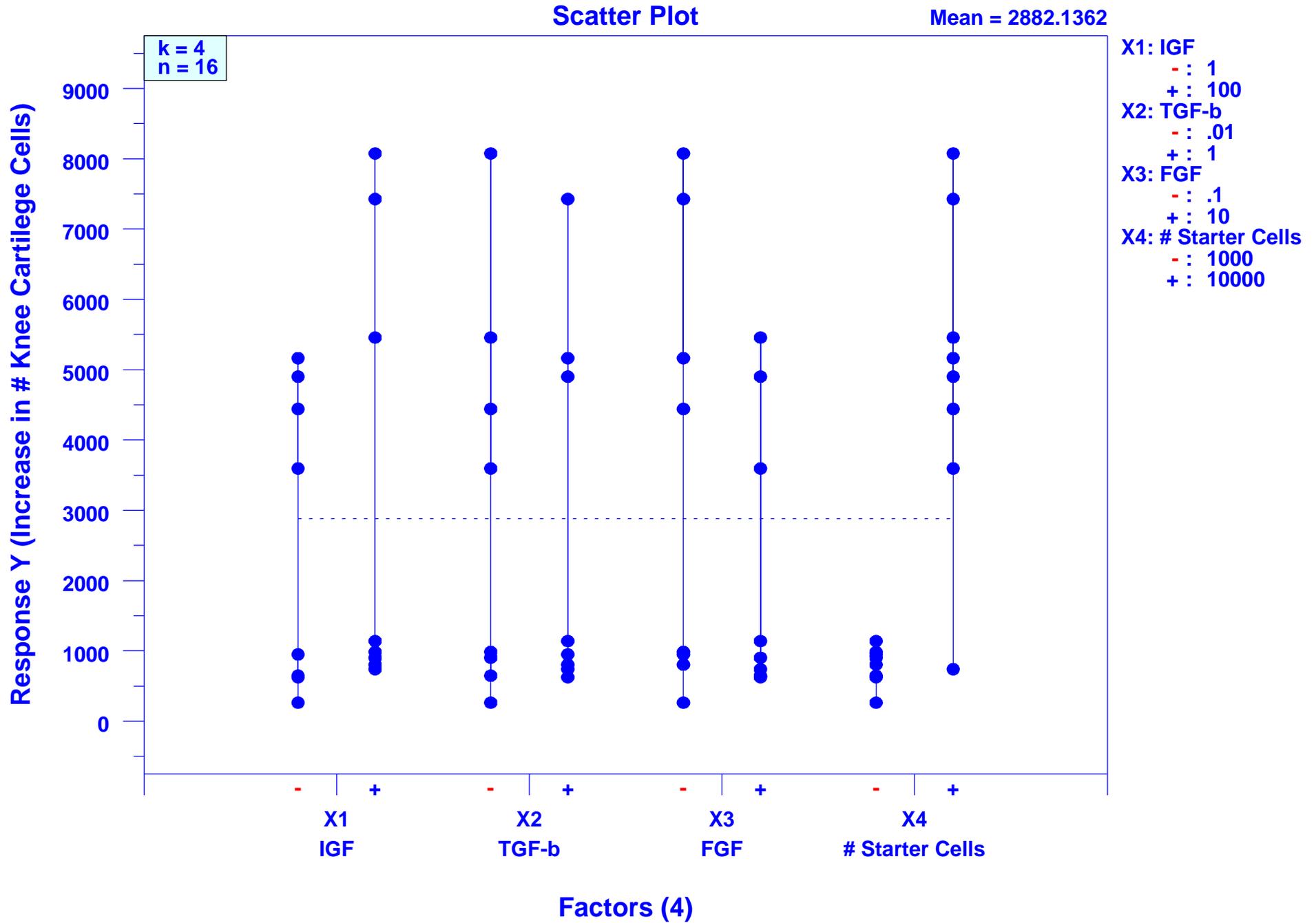
Mean = 2882.1362



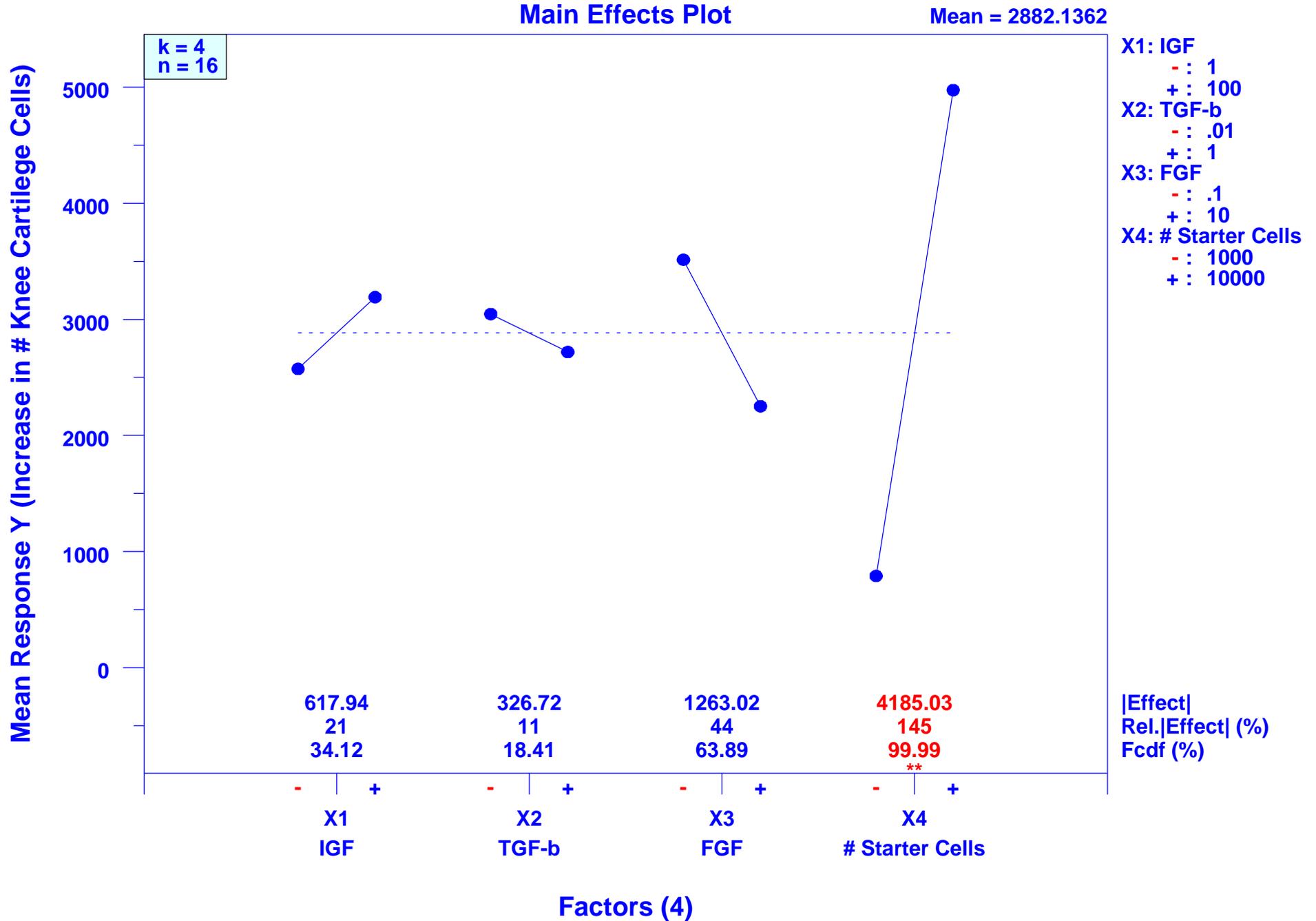
### Factor Settings

# Factors Promoting Knee Cartilage Regeneration

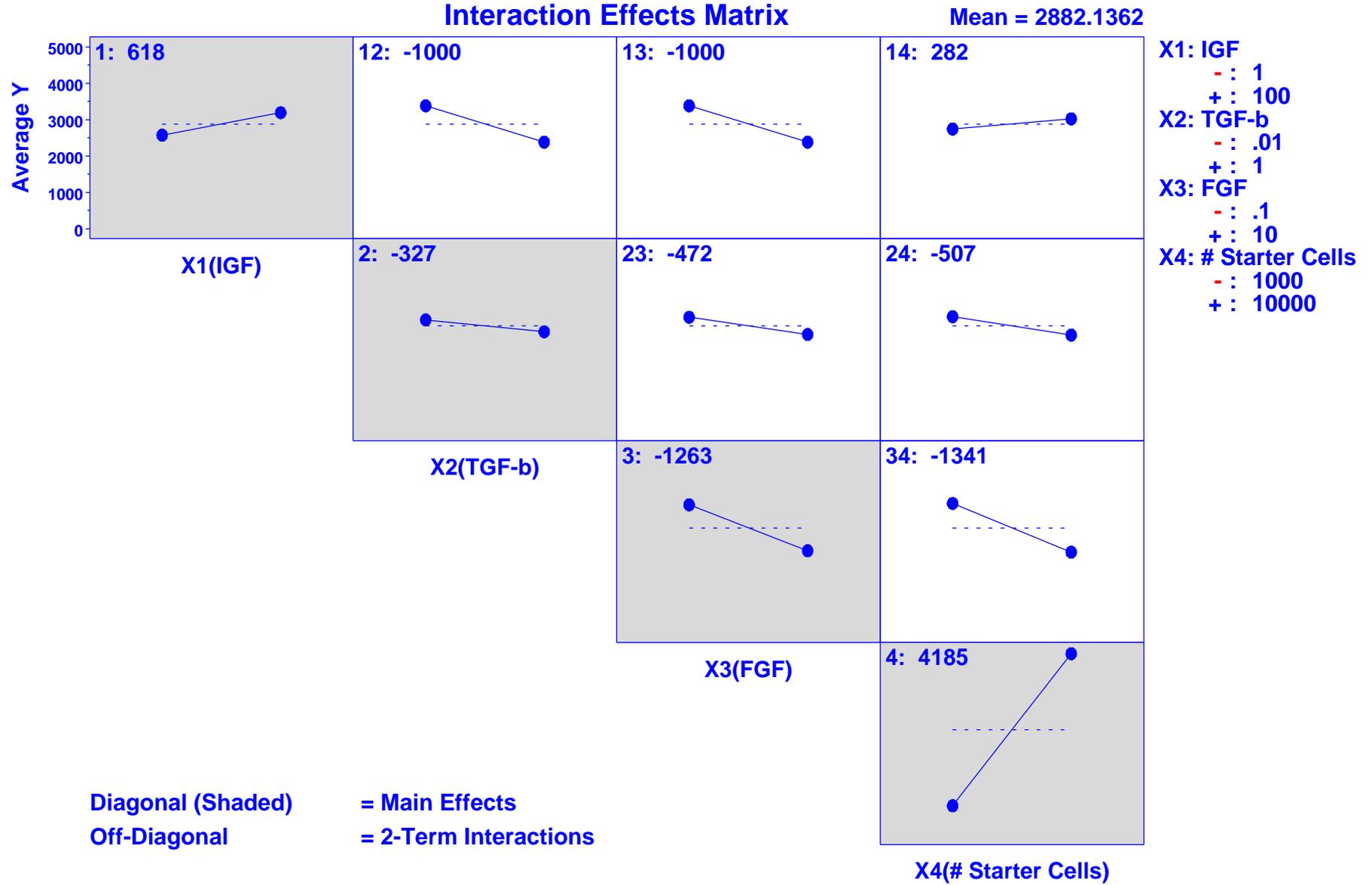
Design: 2\*\*4 (k=4,n=16)



Factors Promoting Knee Cartilage Regeneration  
Design: 2\*\*4 (k=4,n=16)



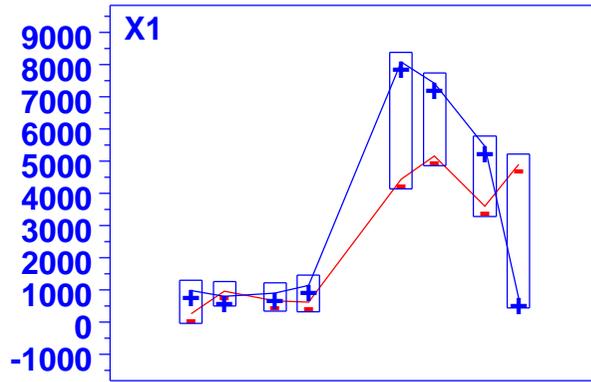
Factors Promoting Knee Cartilage Regeneration  
Design: 2\*\*4 (k=4,n=16)



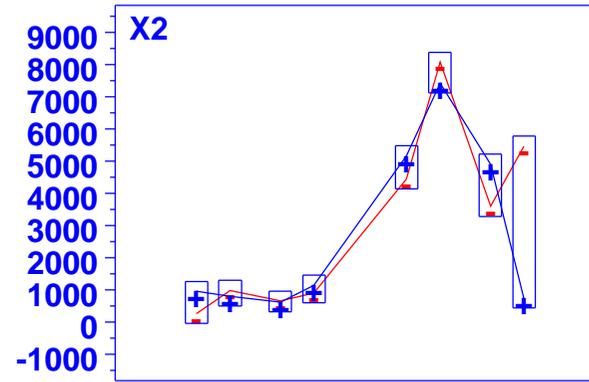
Factors Promoting Knee Cartilage Regeneration  
Design: 2\*\*4 (k=4,n=16)

Block Plot

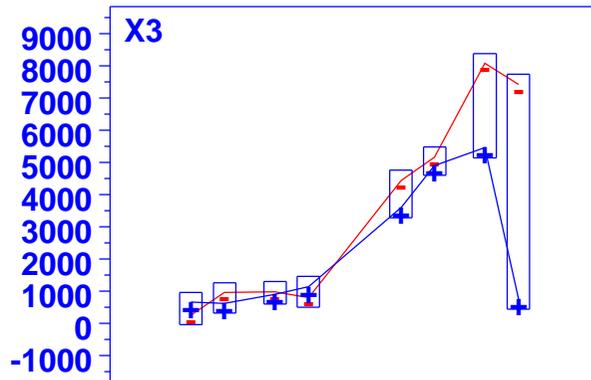
X1: IGF  
 - : 1  
 + : 100  
 X2: TGF-b  
 - : .01  
 + : 1  
 X3: FGF  
 - : .1  
 + : 10  
 X4: # Starter Cells  
 - : 1000  
 + : 10000



X4: - - - - + + + +  
 X3: - - + + - - + +  
 X2: - + - + - + - +

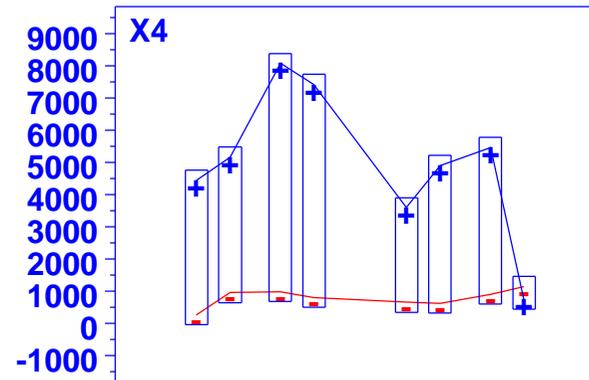


X4: - - - - + + + +  
 X3: - - + + - - + +  
 X1: - + - + - + - +



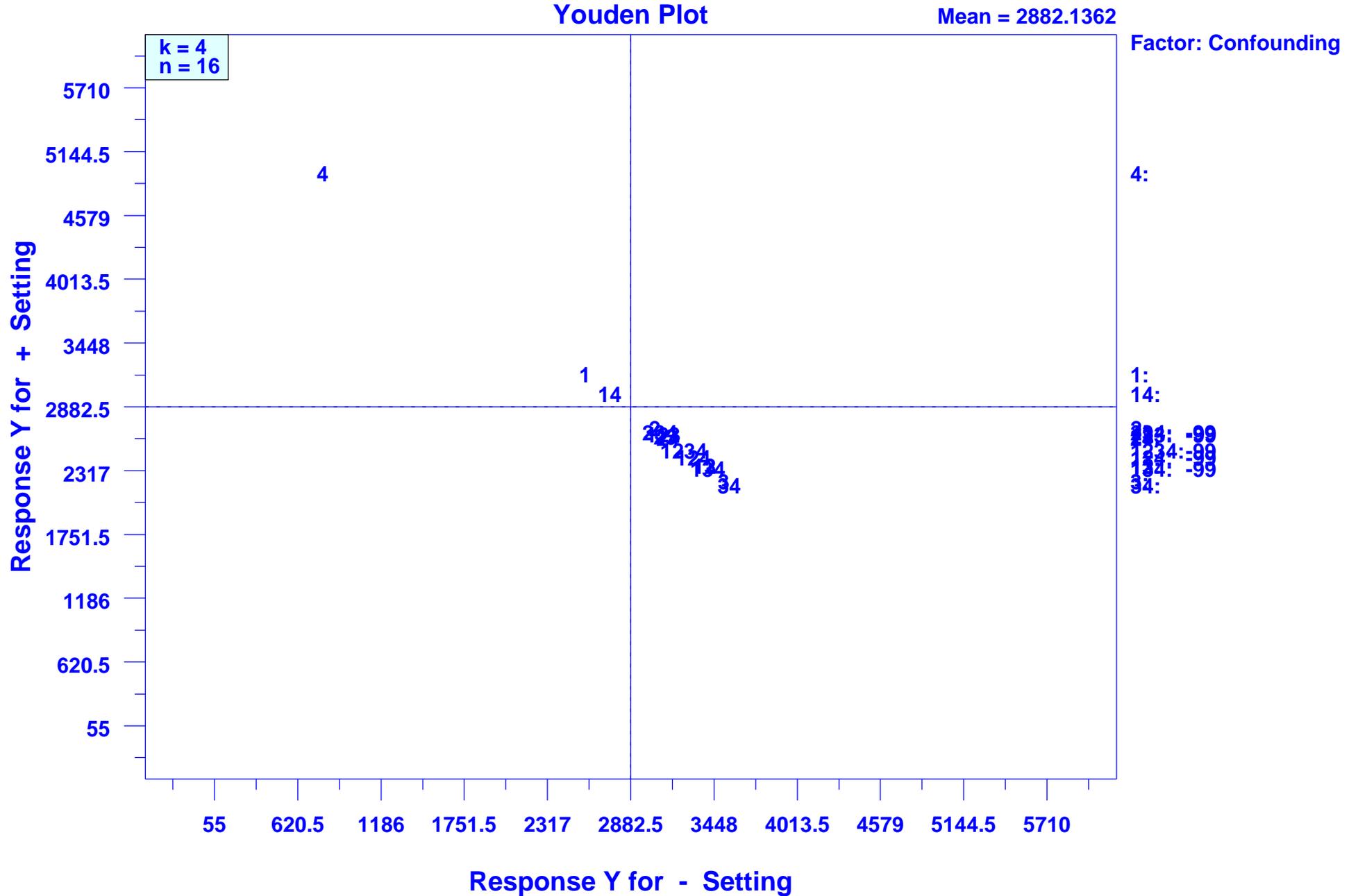
X4: - - - - + + + +  
 X1: - - + + - - + +  
 X2: - + - + - + - +

Robustness Factor Setting

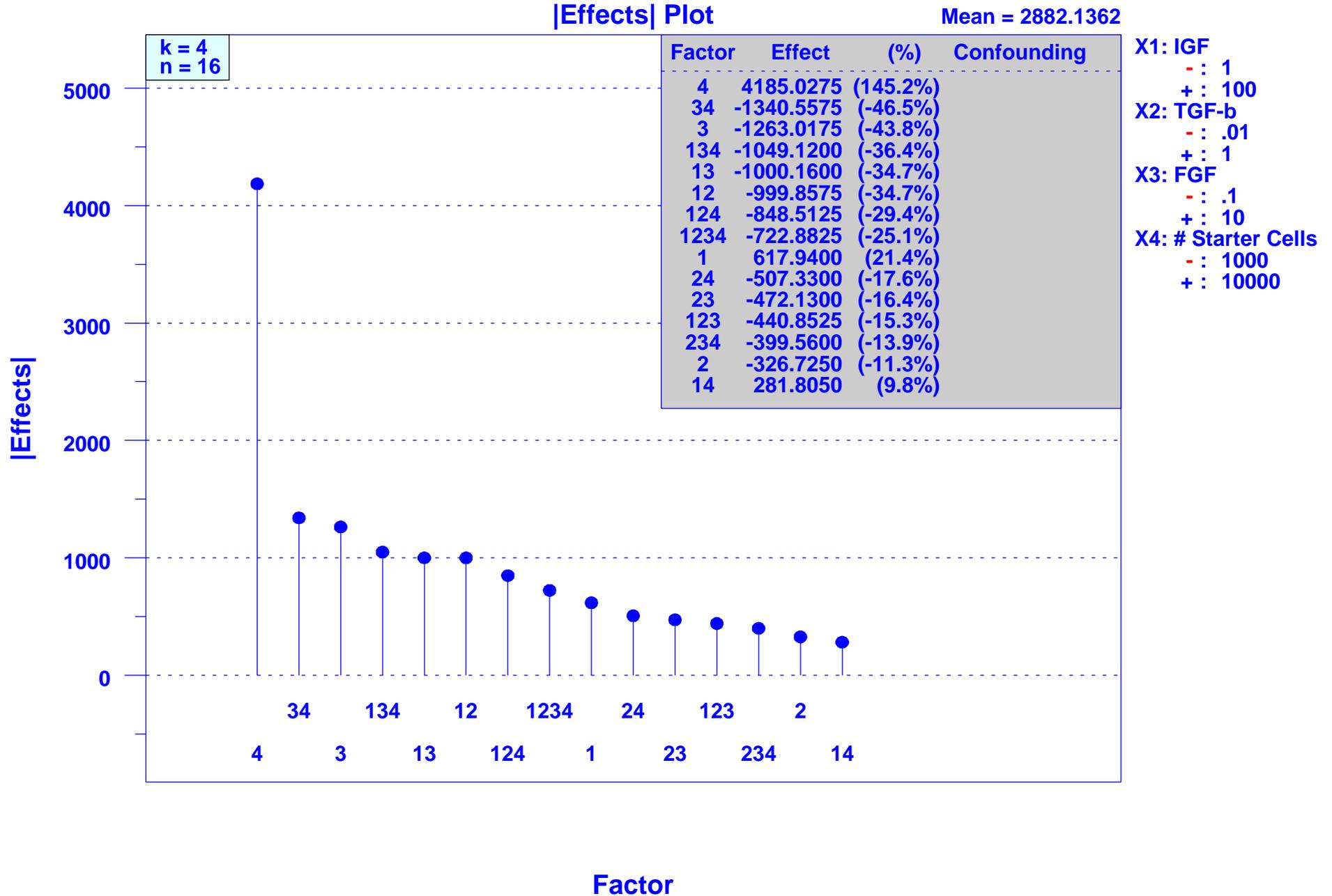


X3: - - - - + + + +  
 X1: - - + + - - + +  
 X2: - + - + - + - +

Factors Promoting Knee Cartilage Regeneration  
Design: 2\*\*4 (k=4,n=16)



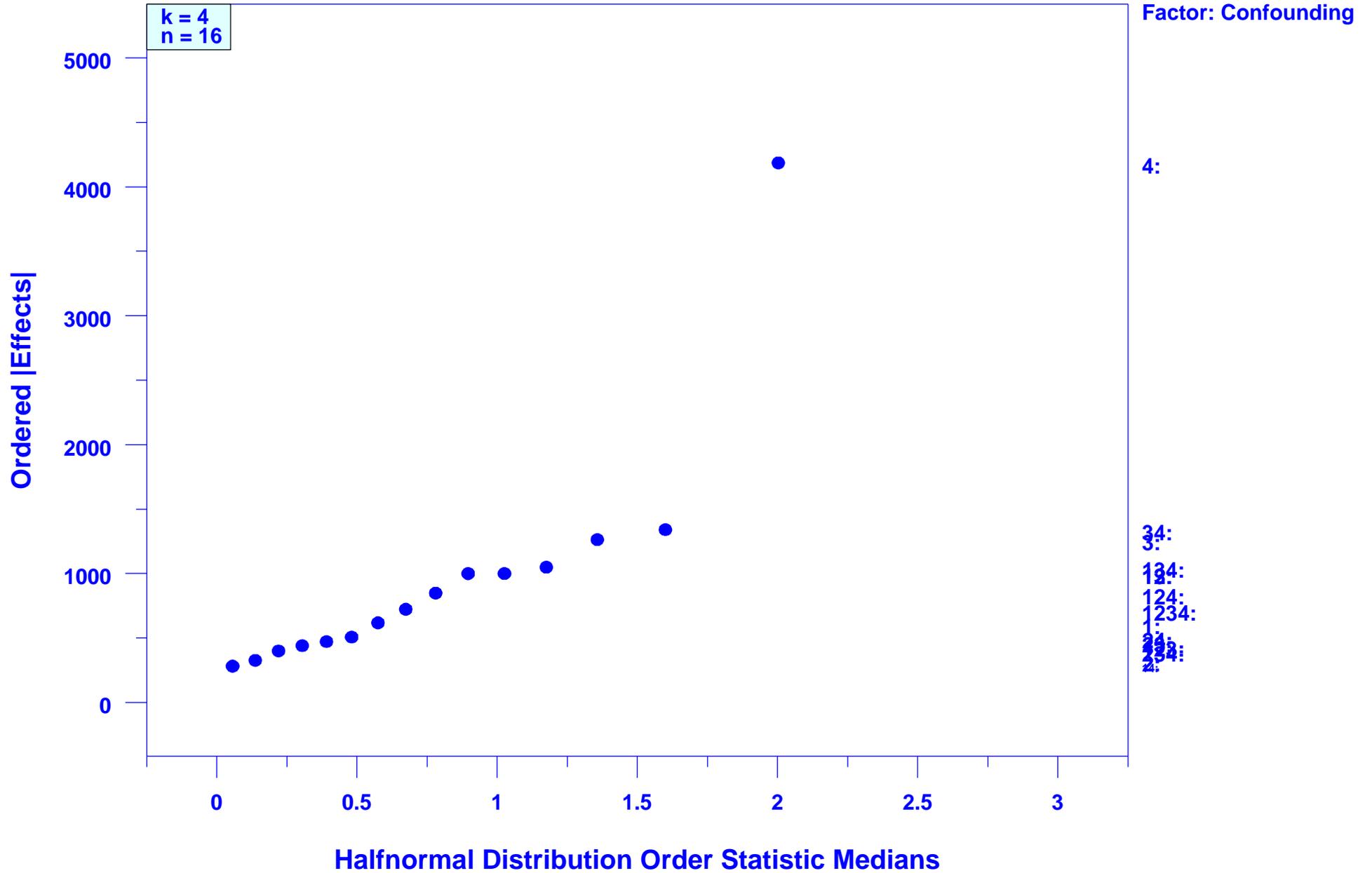
Factors Promoting Knee Cartilage Regeneration  
Design: 2\*\*4 (k=4,n=16)



# Factors Promoting Knee Cartilage Regeneration

Design: 2\*\*4 (k=4,n=16)

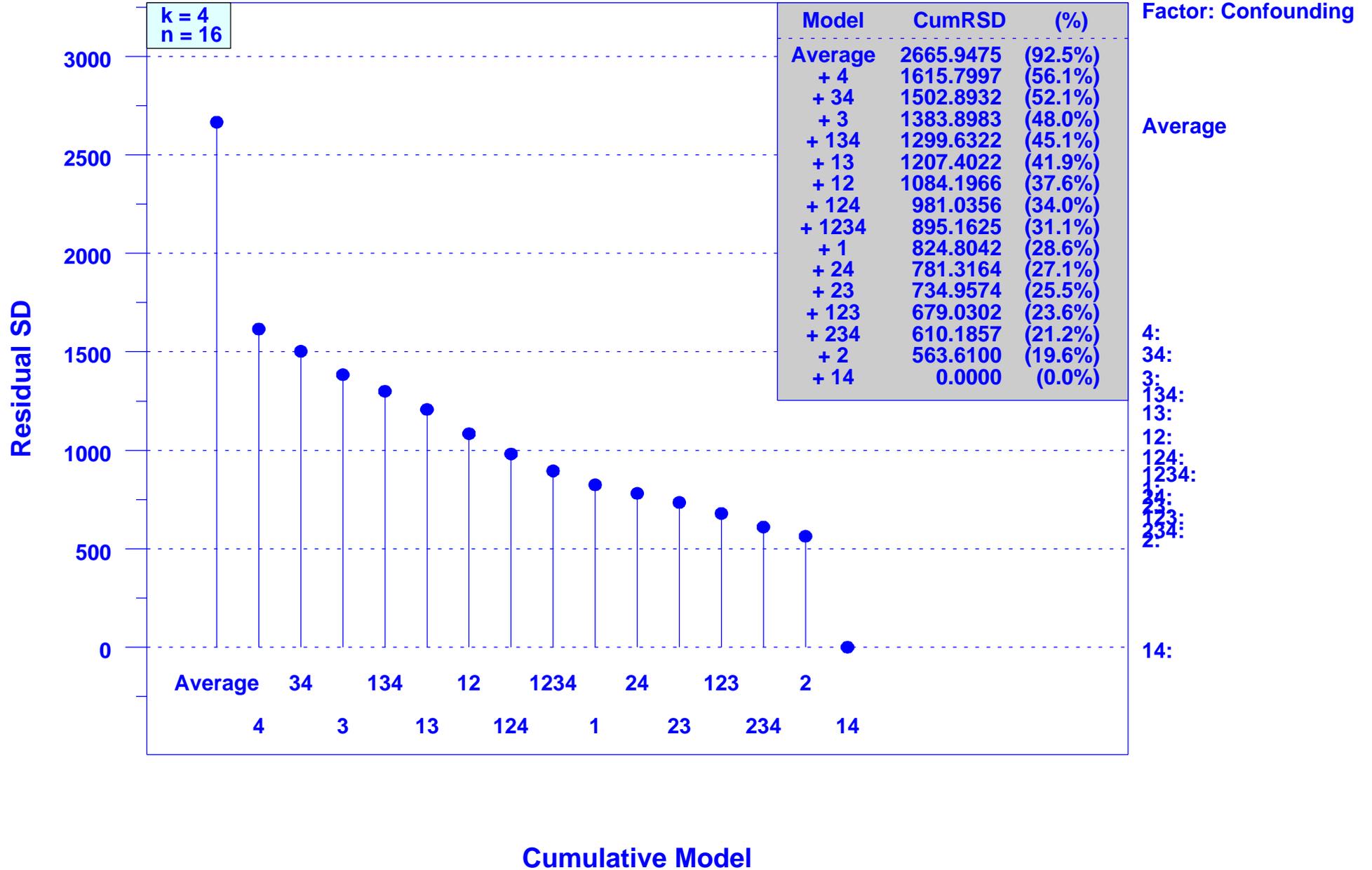
### Halfnormal Probability Plot of |Effects|



Factors Promoting Knee Cartilage Regeneration  
Design: 2\*\*4 (k=4,n=16)

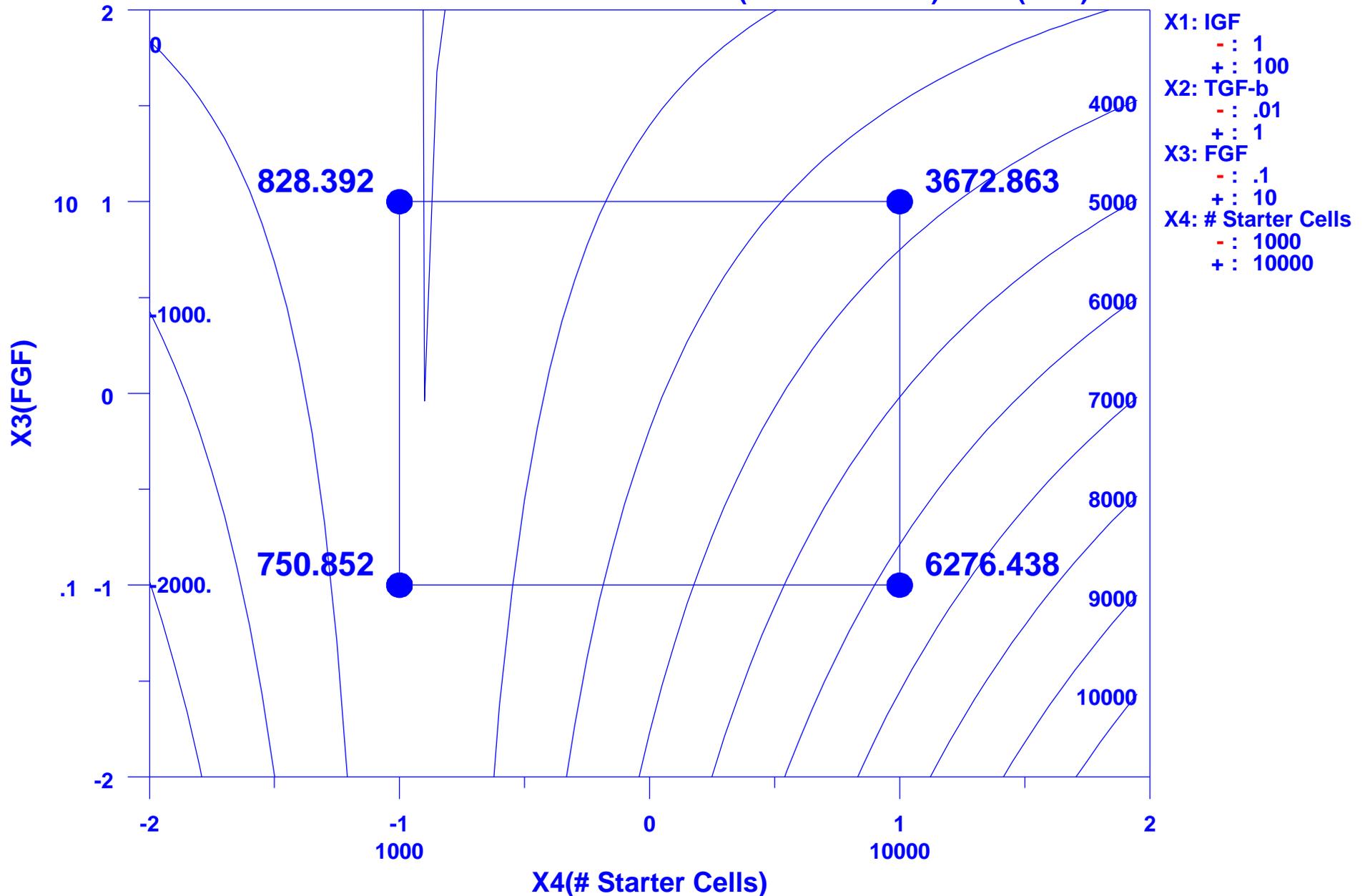
Cumulative Residual SD Plot

Mean = 2882.1362



## Factors Promoting Knee Cartilage Regeneration Design: 2\*\*4 (k=4,n=16)

Contour Plot of 2 Dominant Factors: X4 (# Starter Cells) & X3 (FGF)



Center-Point Predicted Value (From 2-Factor Edge-based Model) = 2882.1362