Diagram of IGF-I Ribbon Structure removed due to copyright considerations. See Figure 1 in Vajdos, F. F., et. al. "Crystal Structure of Human Insulin-like Growth Factor-1: Detergent Binding Inhibits Binding Protein Interactions." *Biochemistry* 40, no. 37 (2001).

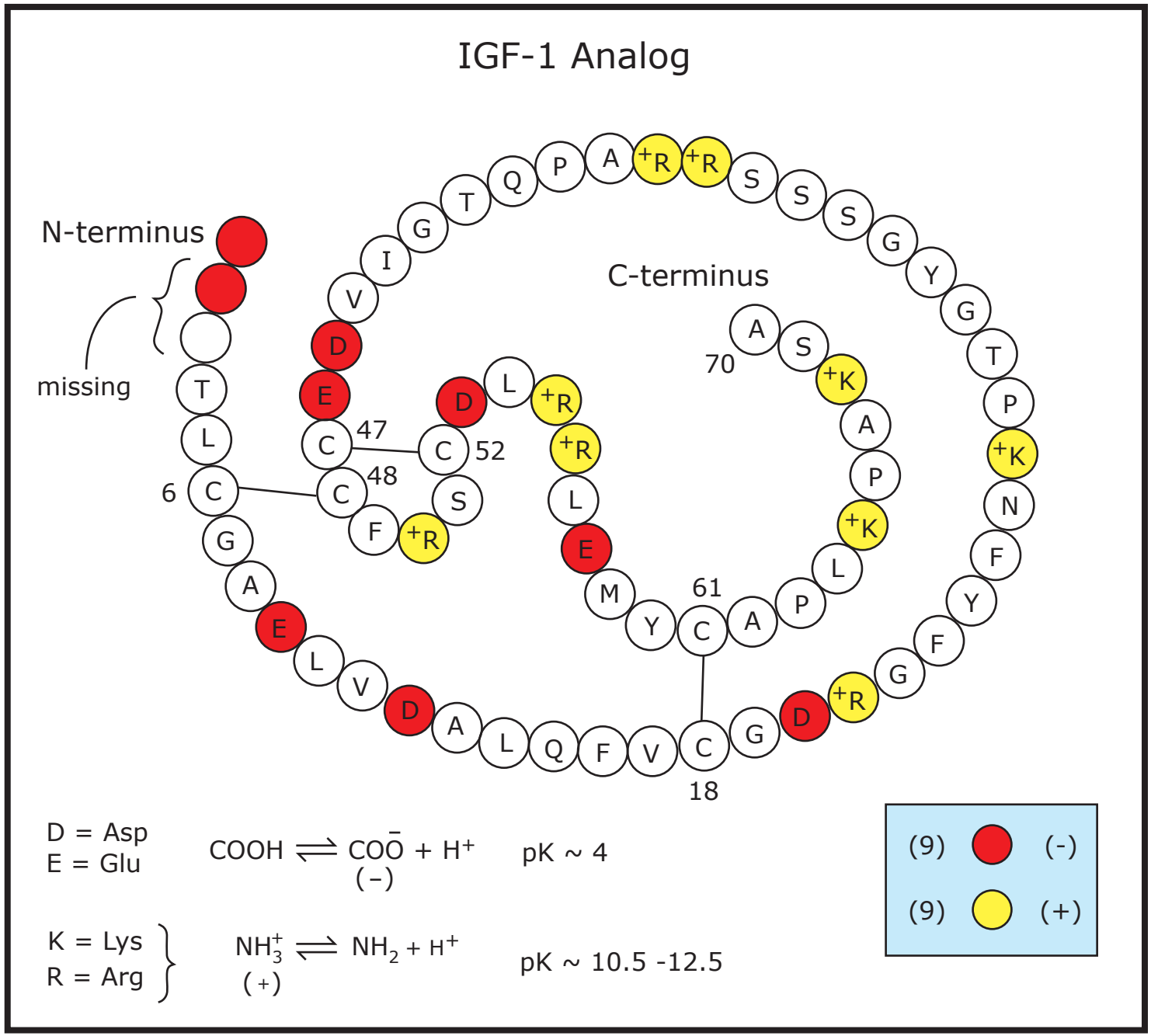
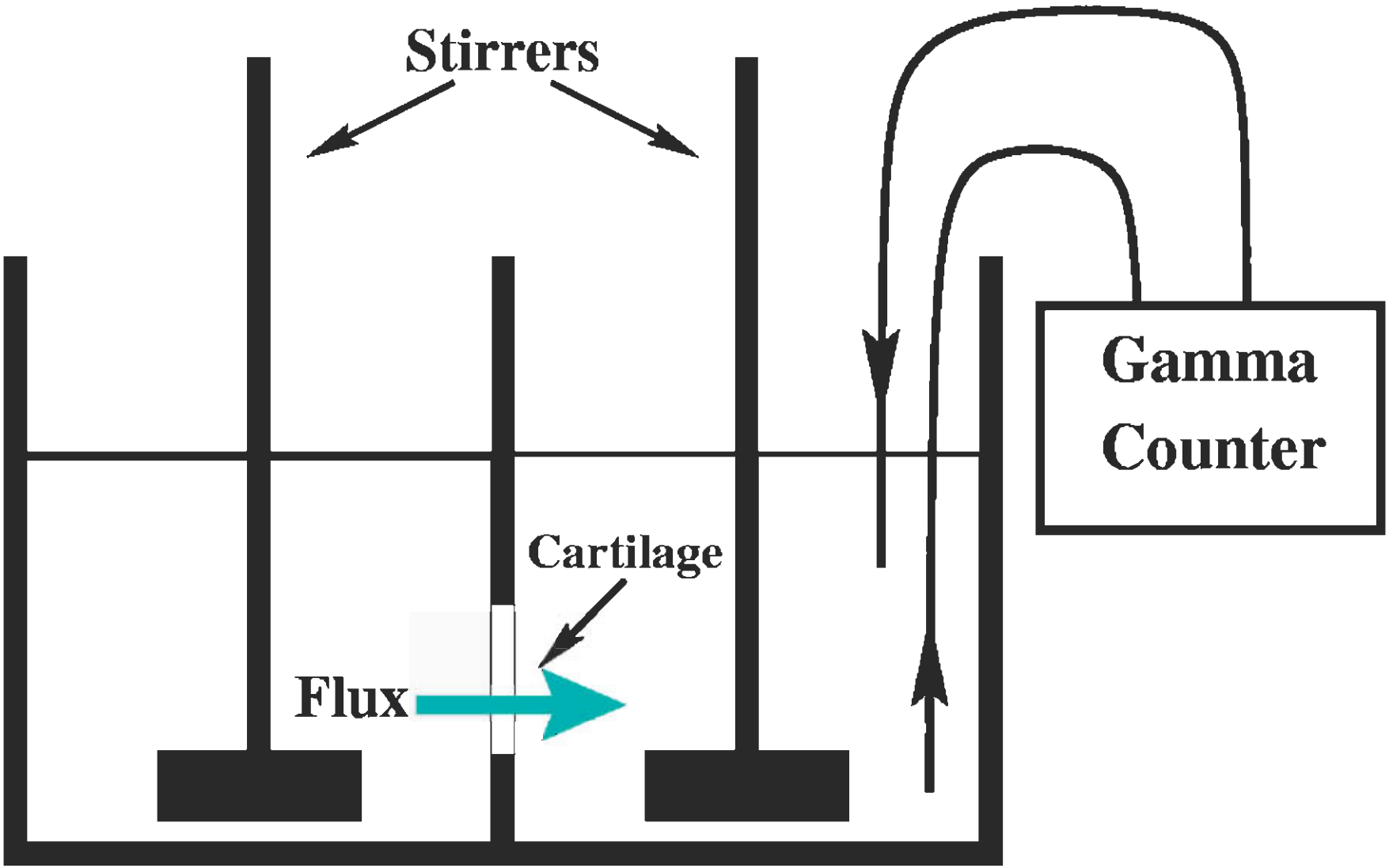
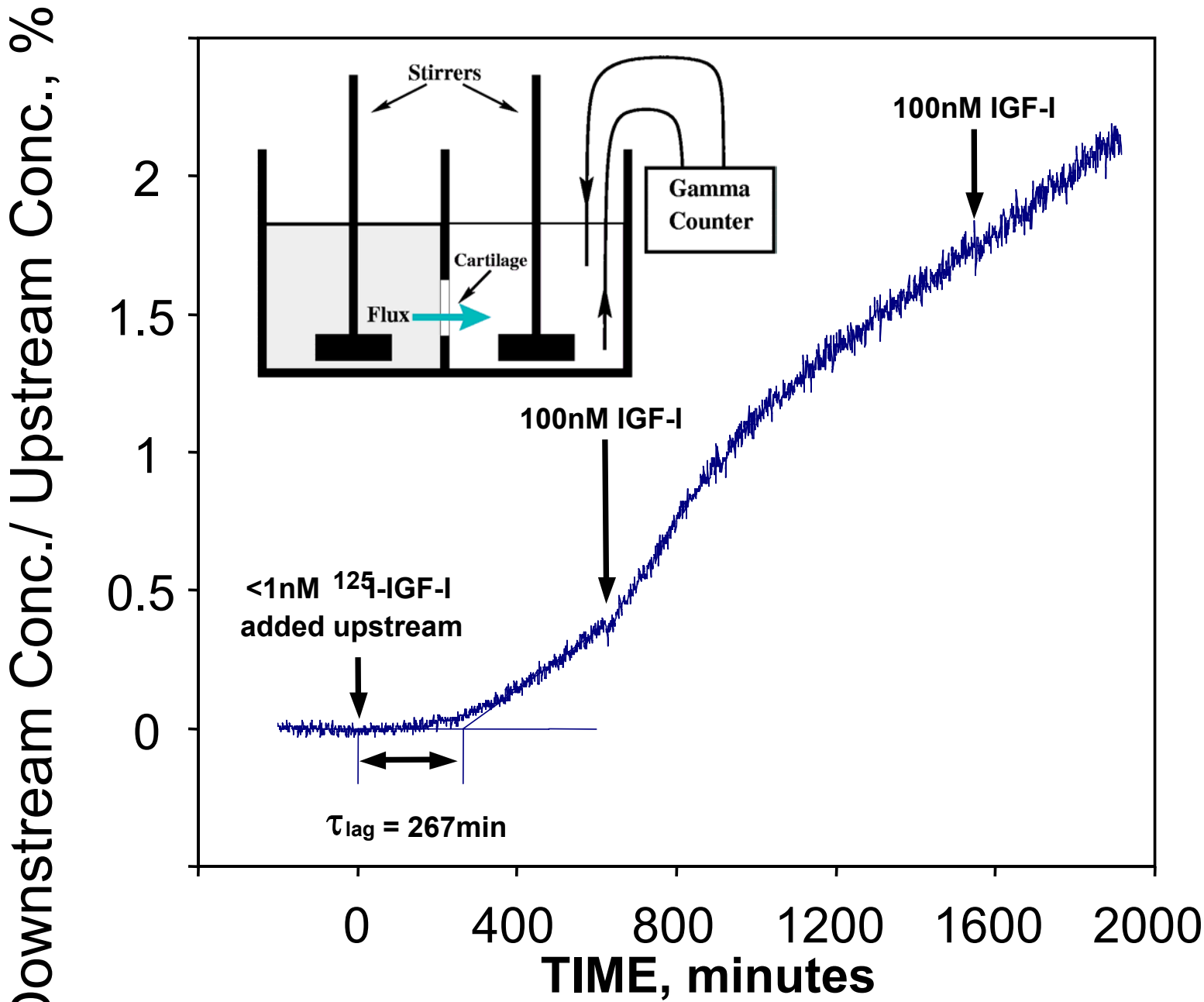
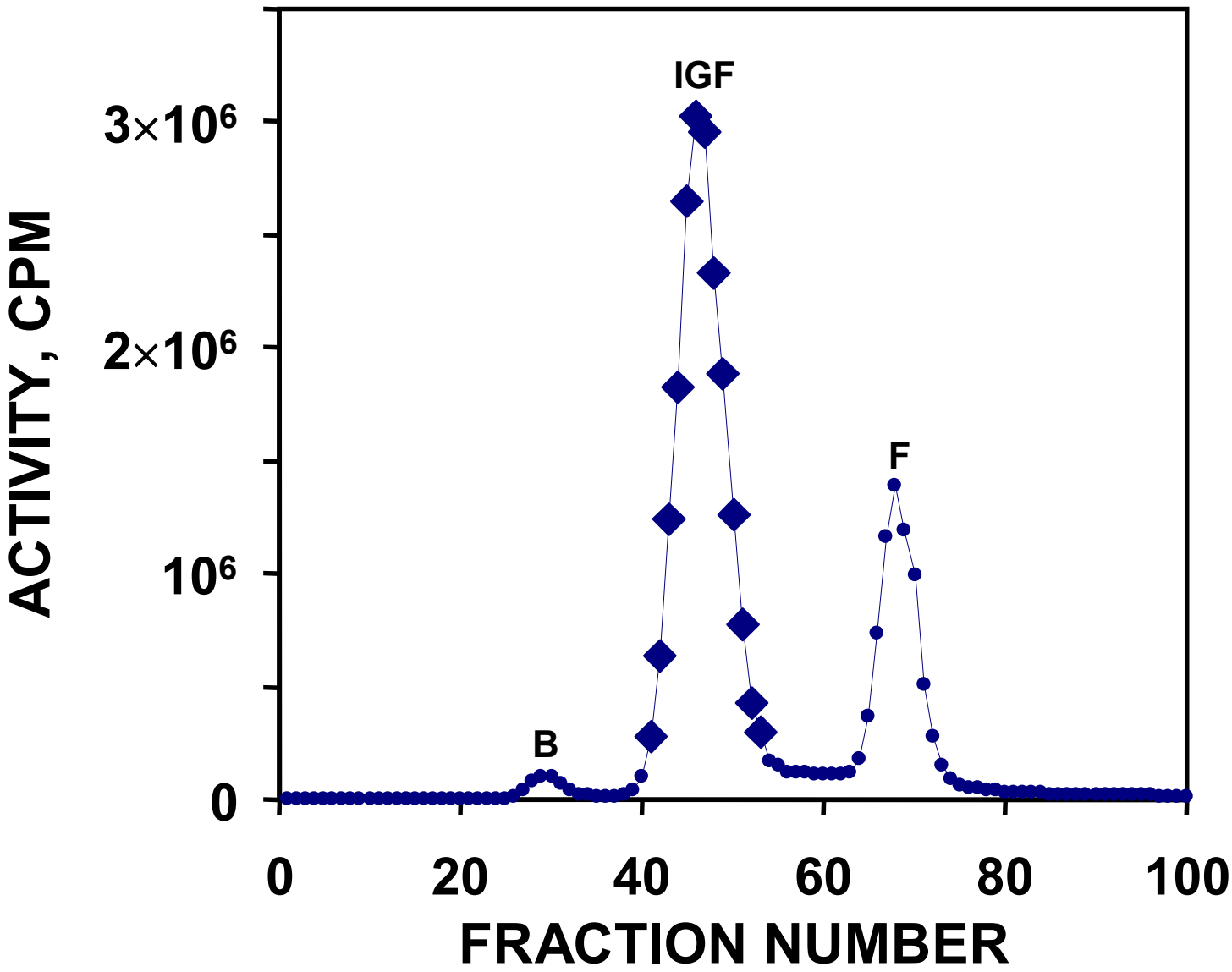


Figure by MIT OCW.


Stirrers
Gamma
Counter
Cartilage
Flux


Downstream Conc./ Upstream Conc., %
2
1.5
1
0.5
0
Stirrers
Gamma Counter
Cartilage
Flux
100nM IGF-I
100nM IGF-I
<1nM 125I-IGF-I
added upstream
τlag = 267min
0
400
800
1200
1600
2000
TIME, minutes


IGF
F
B
3×10⁶
2×10⁶
10⁶
0
ACTIVITY, CPM
0
20
40
60
80
100
FRACTION NUMBER

Binding of Insulin-Like Growth Factor-1 (IGF-1) to IGF Binding Proteins in Extracellular Matrix (NOT CELL SURFACE RECEPTORS)

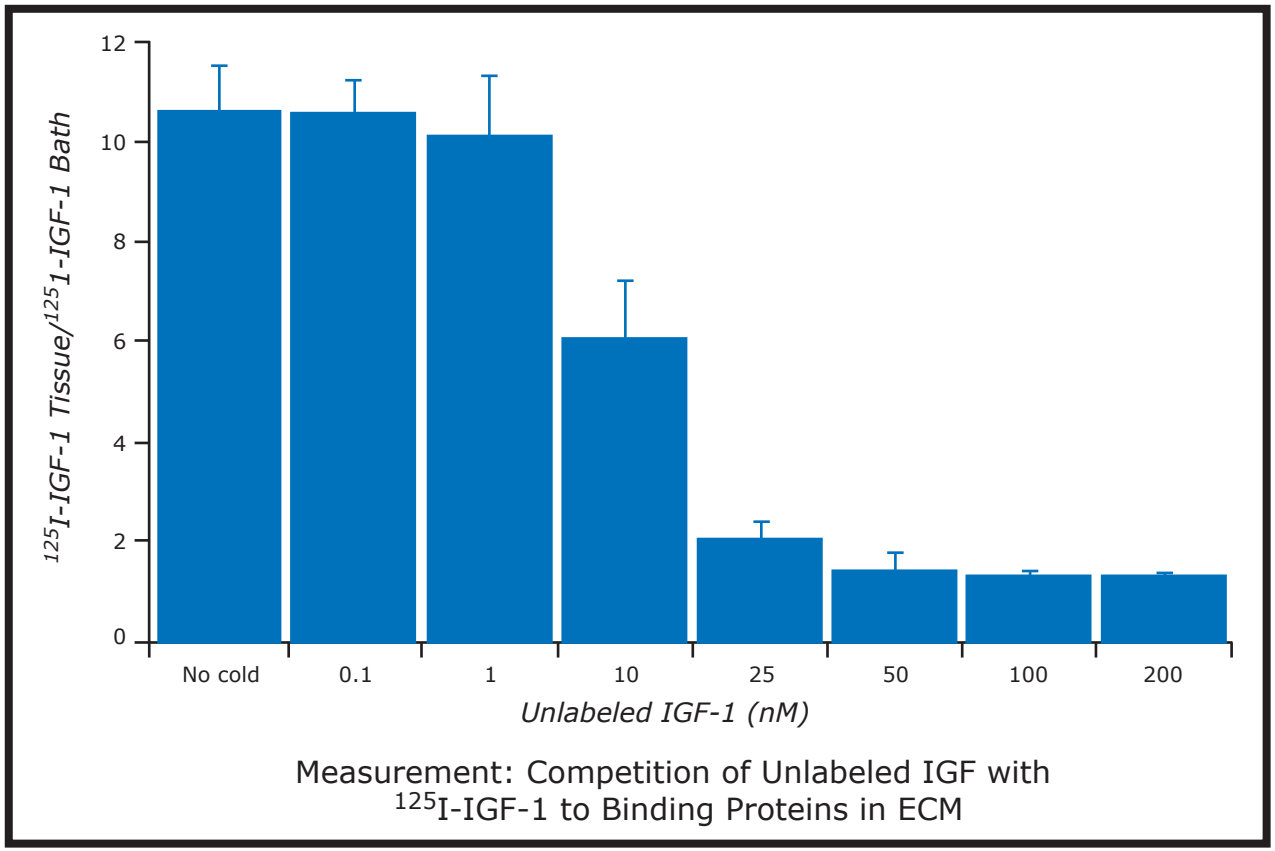


Figure by MIT OCW. After Figure 2A in Bhakta, N. R., et. al. "The Insulin-like Growth Factors (IGFs) I and II Bind to Articular Cartilage via the IGF-binding Proteins." *J Biol Chem* 275, no. 8 (2000).

Figure removed due to copyright considerations. See Figure 1 in Garcia, A. M., et. al. "Transport and Binding of Insulin-like Growth Factor I through Articular Cartilage." *Archives of Biochemistry and Biophysics* 415, no. 1 (July 1, 2003): 69-79.

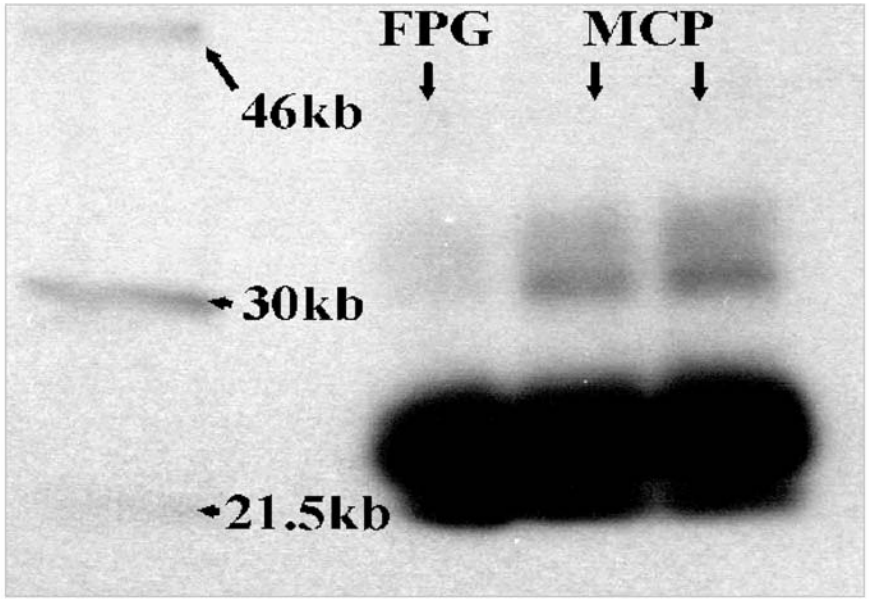


Figure removed due to copyright considerations. See Figure 2 in Garcia, A. M., et. al. "Transport and Binding of Insulin-like Growth Factor I through Articular Cartilage." *Archives of Biochemistry and Biophysics* 415, no. 1 (July 1, 2003): 69-79.

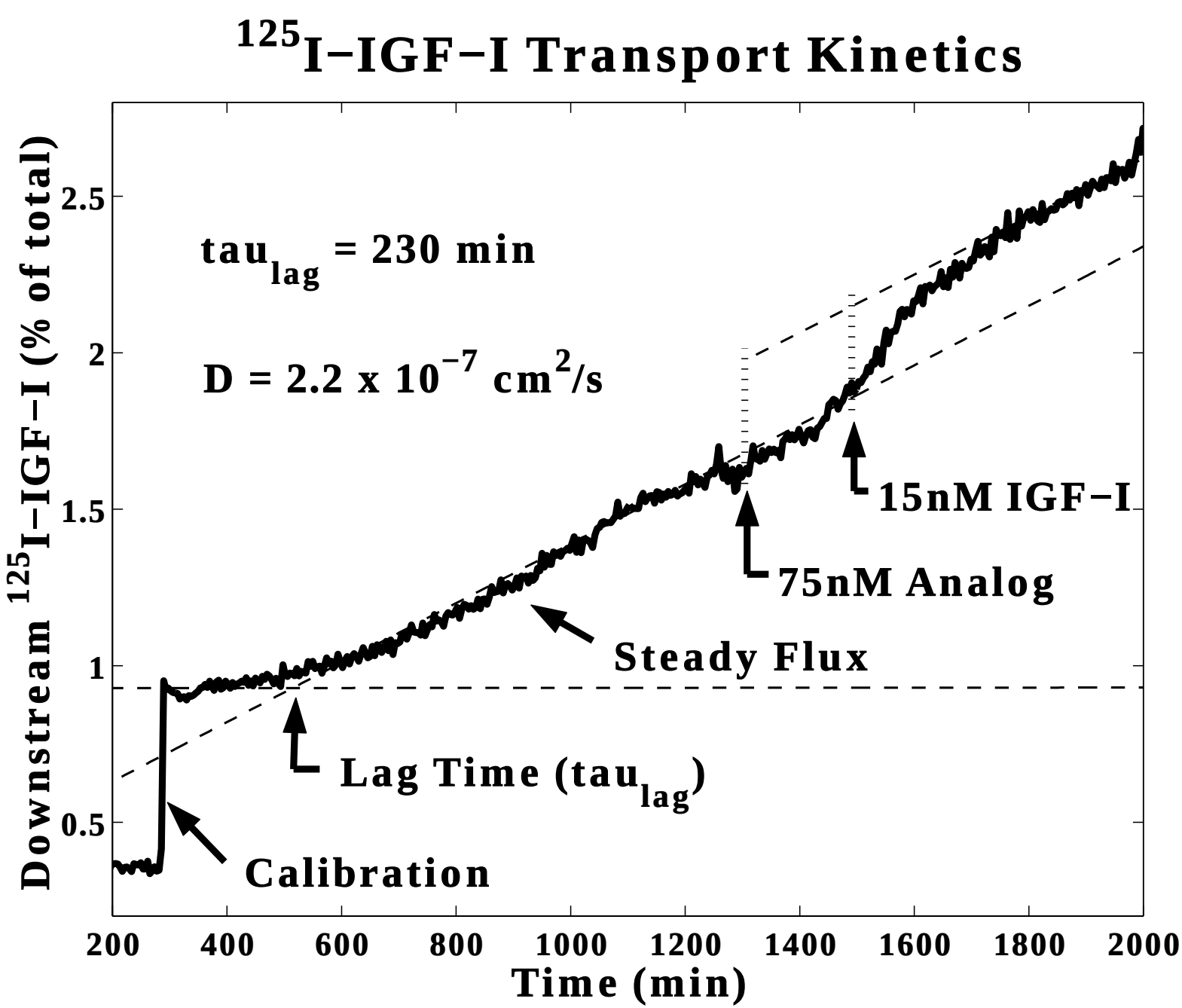

125I–IGF–I Transport Kinetics
tau lag = 230 min
D = 2.2 x 10−7 cm2/s
15nM IGF–I
75nM Analog
Steady Flux
Lag Time (tau lag)
Calibration
Downstream 125I–IGF–I (% of total)
Time (min)
0.5
1
1.5
2
2.5
200
400
600
800
1000
1200
1400
1600
1800
2000

Figure removed due to copyright considerations. See Figure 3B in Garcia, A. M., et. al. "Transport and Binding of Insulin-like Growth Factor I through Articular Cartilage." *Archives of Biochemistry and Biophysics* 415, no. 1 (July 1, 2003): 69-79.

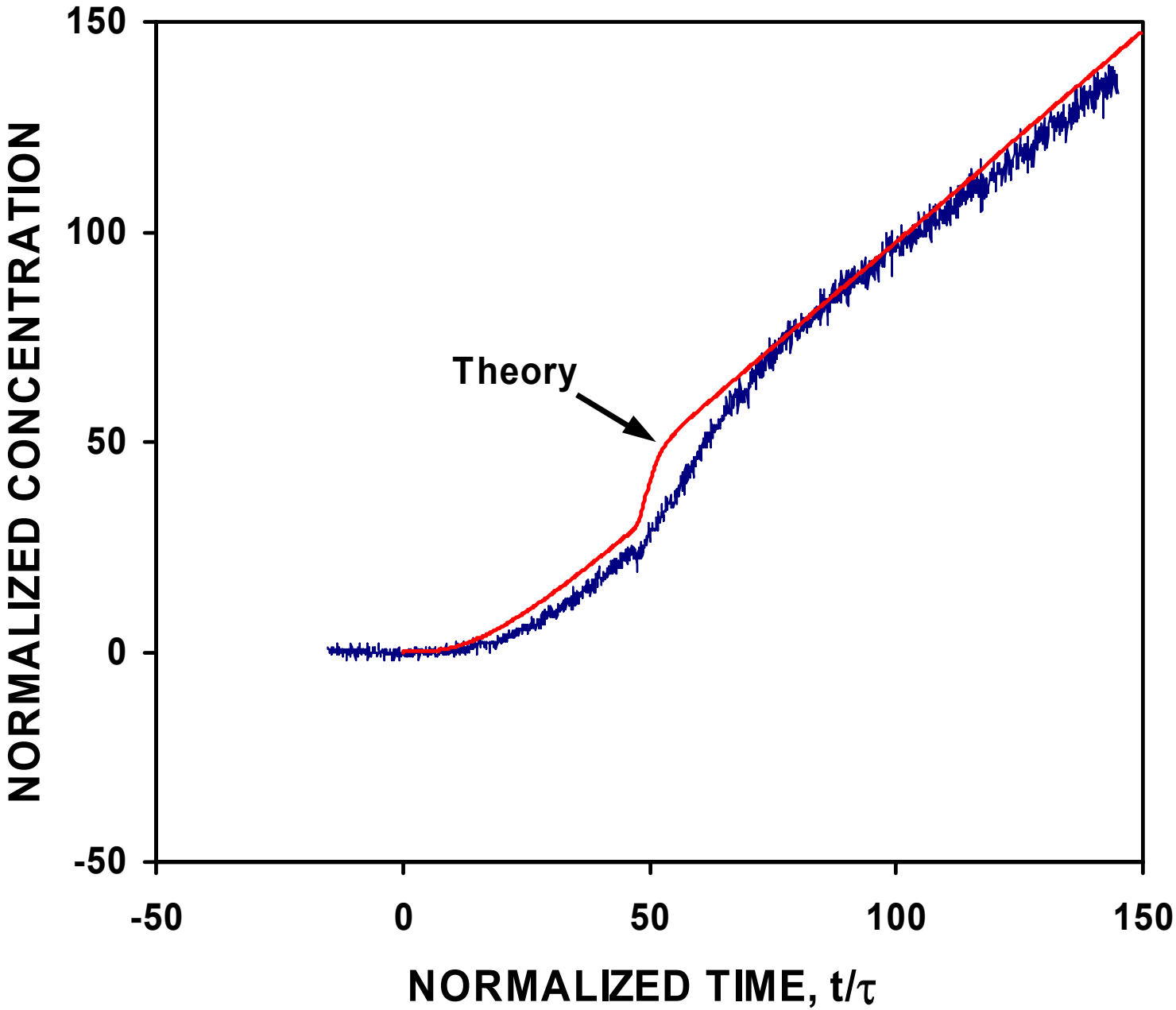

150
100
50
0
-50
NORMALIZED CONCENTRATION
Theory
-50
0
50
100
150
NORMALIZED TIME, t/τ

Figure removed due to copyright considerations. See Figure 5 in Garcia, A. M., et. al. "Transport and Binding of Insulin-like Growth Factor I through Articular Cartilage." *Archives of Biochemistry and Biophysics* 415, no. 1 (July 1, 2003): 69-79.

Figure removed due to copyright considerations. See Figure 4 in Garcia, A. M., et. al. "Transport and Binding of Insulin-like Growth Factor I through Articular Cartilage." *Archives of Biochemistry and Biophysics* 415, no. 1 (July 1, 2003): 69-79.