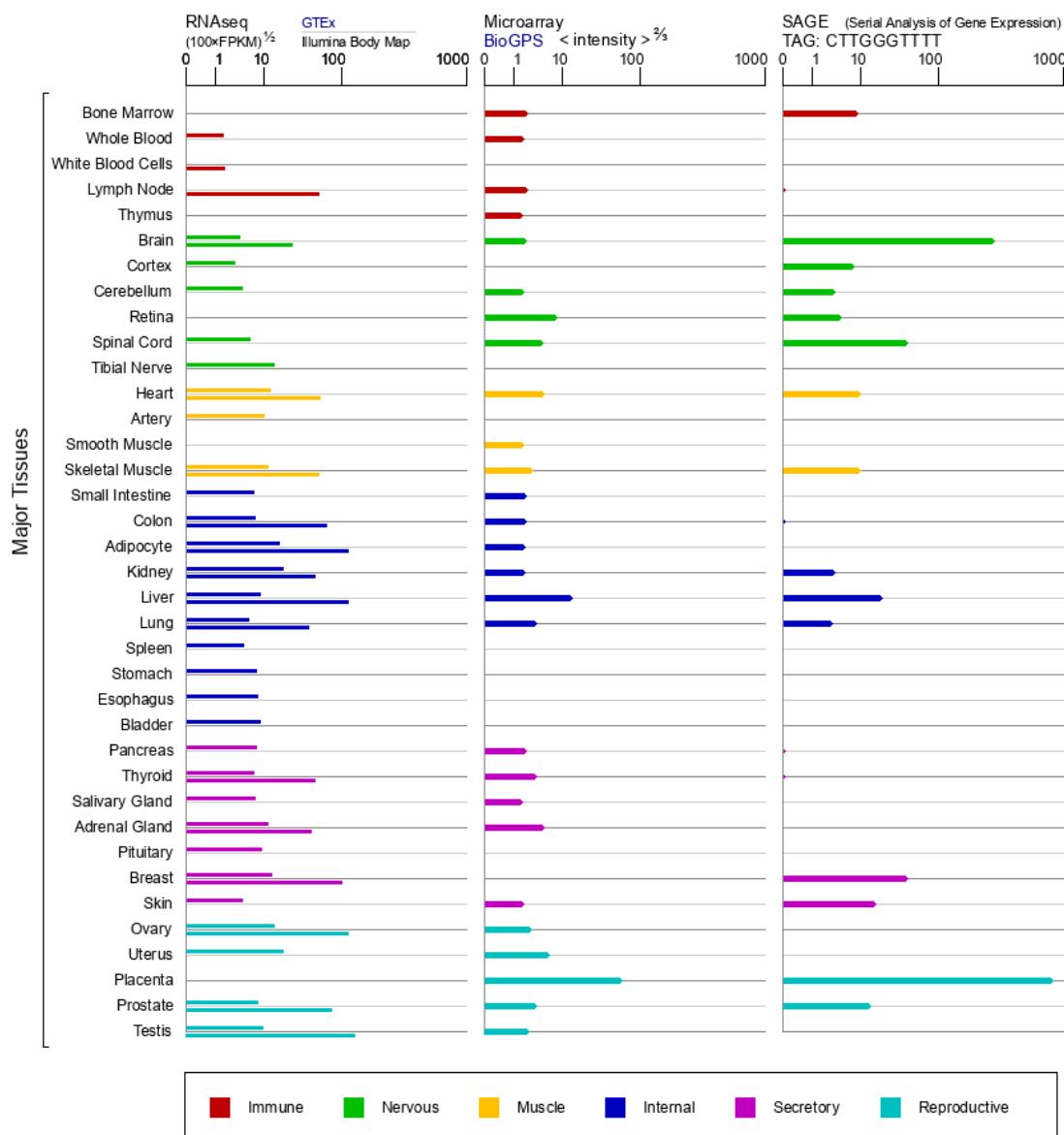


## Supplementary Figure1:



**Supplementary Figure1. The expression of IGF2 among different tissues from the online different datasets.** We used the online RNA-Seq datasets from different projects: the GTEx (<https://www.gtexportal.org/home/>) , BioGPS (<http://biogps.org/>) , and SAGE (<https://www.ncbi.nlm.nih.gov/geo/browse/>) to evaluate the expression of IGF2 among different major tissues.

**Supplementary table 1:**  
**Primer sequences for qRT-PCR.**

Gene	Prime
mGAPDH	F: 5'-CCATGTTCGTCATGGGTGTGAACCA-3' R: 5'-GCCAGTAGAGGCAGGGATGATGTT-3'
mIGF2	F: 5'-AGTTCTGCTGCTGCTTATTG-3' R: 5'-CTACCTGGCTAGTCATTGG-3'
mMT1	F: 5'-CCTATCACCCCTGCCATCAT-3' R: 5'-GAGGCTGTTGCTTGTGTGAC-3'
mMT2	F: 5'- GTTAATGTAGCTTAATAACAAAGCAAAGC-3' R: 5'-TAGTTGGTAGTAGGTGAAATGTATGTG-3'
mMT3	F: 5'-ATTGGATCAACAAATCTCCTAGG-3' R: 5'-TTGTTAATGTTATTGCGTAATAGAGTATG-3'
nDNA(mouse)	F: 5'-ATGGAAAGCCTGCCATCATG-3' R: 5'-TCCTTGTTGTTAGCAGCATCAC-3'
mND1	F: 5'-GCTTACGAGCCGTAGCCA-3' R: 5'-GGGTCAGGCTGGCAGAAGTAA-3'
mND2	F: 5'-CCATCAACTCAATCTCACTTCTATG-3' R: 5'-GAATCCTGTTAGTGGTGGAAAGG-3'
mND3	F: 5'-TAGCCTCGTACCAACACATGA-3' R: 5'-AGTGGTGAAATT CCTGTTGGA-3'
mND4	F: 5'-CGCCTACTCCTCAGTTAGCCA-3' R: 5'-TGATGTGAGGCCATGTGCGA-3'
mND4L	F: 5'-AGCTCCATACCAATCCCCATCAC-3' R: 5'-GGACGTAATCTGTTCCGTACGTGT-3'
mND5	F: 5'-GCCAACACATATTCAACTTTTC-3' R: 5'-CGCATCAGCCTTCGAAC-3'
mND6	F: 5'-CTTGATGGTTGGGAGATTGG-3' R: 5'-ACCCGCAAACAAAGATCACC-3'
CytB	F: 5'-AGACAAAGCCACCTGACCCGAT-3' R: 5'-ACGATTGCTAGGGCCGCGAT-3'
COX1	F: 5'-TCAACATGAAACCCCCAGCCA-3'

	R: 5'-GCGGCTAGCACTGGTAGTGA-3'
COX2	F: 5'-ACCTGGTGAAC TACGACTGCT-3'
	R: 5'-TCCTAGGGAGGGACTGCTC-3'
COX3	F: 5'-CCAAGGCCACCACACTCCTA-3'
	R: 5'-GGTCAGCAGCCTCCTAGATCA-3'
ATP6	F: 5'-CCATAAACTAAGTATAGCCATTCCAC-3'
	R: 5'-AGCTTTTAGTTGTGTCGGAAG-3'
ATP8	F: 5'-AACATTCCC ACTGGCACCTT-3'
	R: 5'-TCGTTCATTTAATTCTCAAGGGT-3'
PGC1α	F: 5'-AGCCGTGACCACTGACAACGAG-3'
	R: 5'-GCTGCATGGTTCTGAGTGCTAAG-3'
SIRT1	F: 5'-AACATT CCTCCACCTGAGC-3'
	R: 5'-TCCCACAGGAGACAG AAACC-3'

**Supplementary Table 2 :**  
**Characteristics of the included studies**

GSE accession	Cases	Controls	Exercise duration	Exercise form
GSE28998	7	Self-control	12-week	Resistance exercise
GSE117525	72	Self-control	24-week	Resistance exercise
GSE9103	20	20	4-year	Aerobic exercise
GSE24235	14	Self-control	12-week	Resistance exercise
GSE27536	12	Self-control	8-week	Resistance exercise
GSE47881	44	Self-control	20-week	Resistance exercise
GSE27543	3	3	3-week	Resistance exercise
GSE45426	7	8	24-hour	Resistance exercise
GSE83352	42	Self-control	8-month	Aerobic exercise & Resistance exercise
GSE139258	6	Self-control	18-day	Aerobic exercise