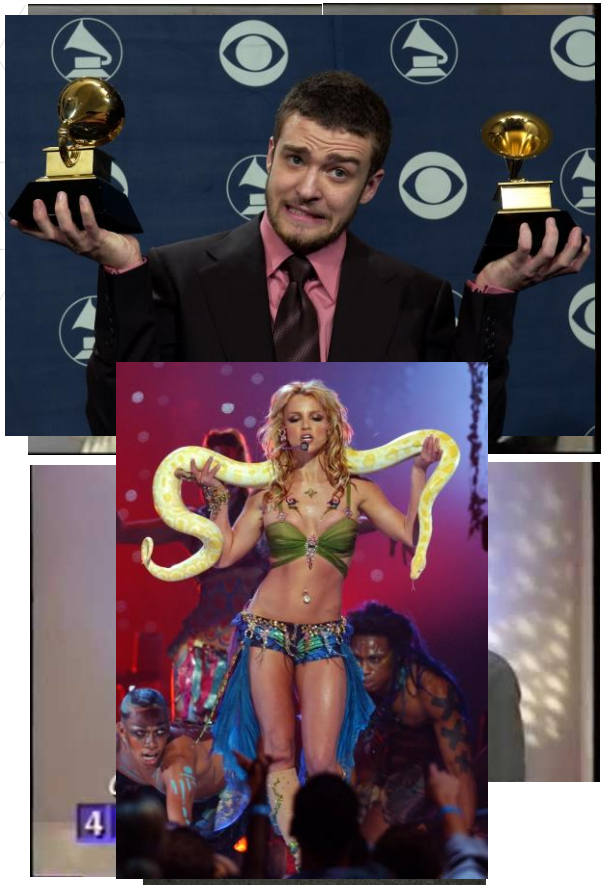
[U18] Sports Medicine
Joe DiMaggio Children's Hospital

Talent Identification: Scouting Young Athletes in Search of the Next Big Thing in Sports

Leonard Gordon Jr., PT, DPT, SCS

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talent

DICTIONARY THESAURUS

talent noun

tal·ent | \ ˈta-lənt \

Definition of *talent*

1 **a** : a special often athletic, creative, or artistic aptitude

b : general intelligence or mental power : ABILITY

2 : the natural endowments of a person

3 : a person of talent or a group of persons of talent in a field or activity

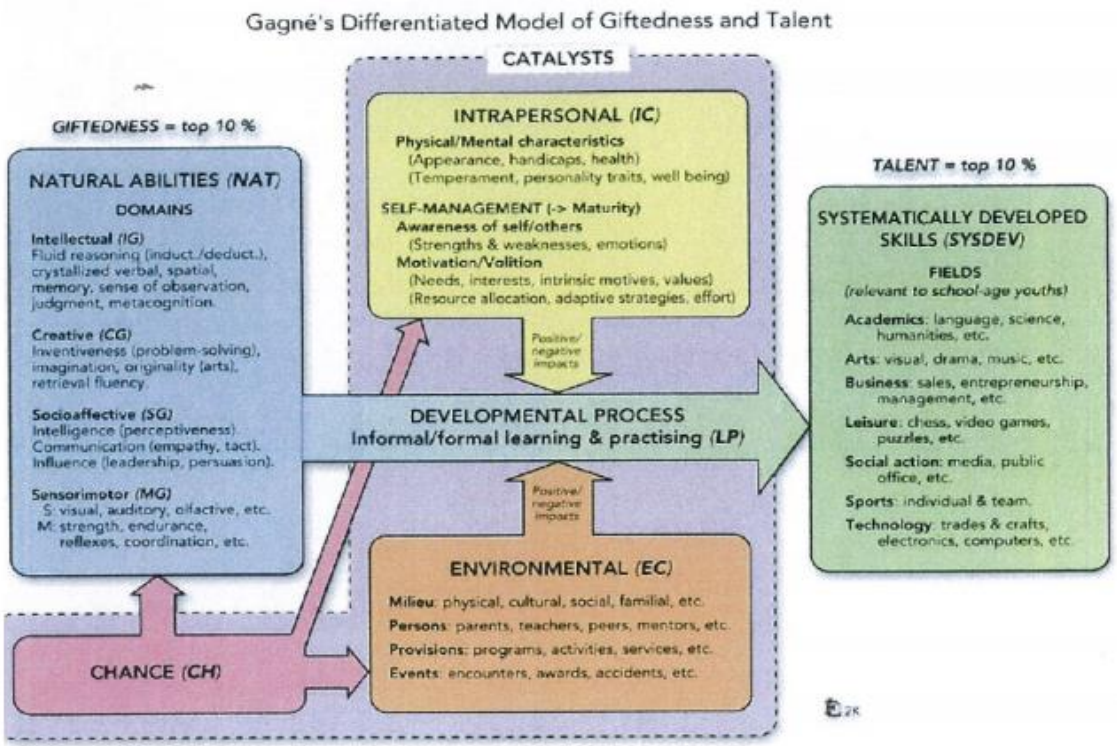
4 **a** : any of several ancient units of weight

b : a unit of value equal to the value of a talent of gold or silver

5 *archaic* : a characteristic feature, aptitude, or disposition of a person or animal

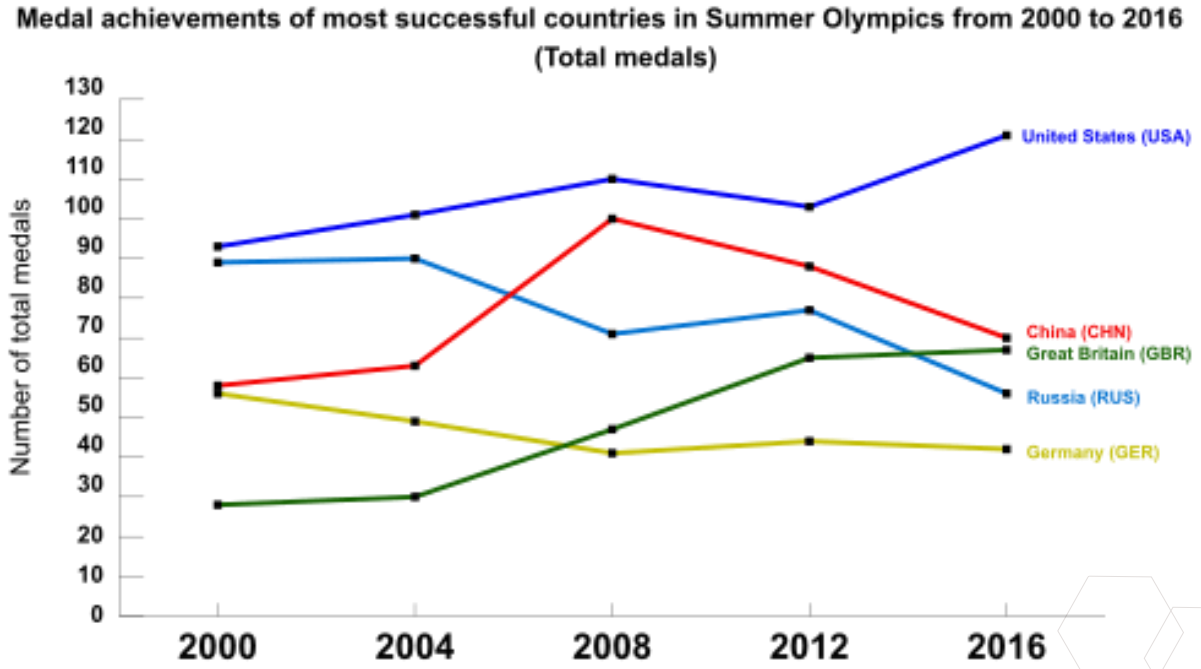
5 properties of talent

1. Innate talent is, at least partly, genetically transmitted
2. Talent will have some ***advanced indications*** & those with training can identify the presence of talent ***before exceptional levels*** of mature performance have been demonstrated
3. Early indications of talent provide a ***basis for predicting likelihood of success***
4. Only a minority are talented
5. Talent is relatively domain-specific


Gagné's Differentiated Model of Giftedness and Talent
CATALYSTS
GIFTEDNESS = top 10 %
NATURAL ABILITIES (NAT)
DOMAINS
Intellectual (IG)
Fluid reasoning (induct./deduct.), crystallized verbal, spatial, memory, sense of observation, judgment, metacognition.
Creative (CG)
Inventiveness (problem-solving), imagination, originality (arts), retrieval fluency.
Socioaffective (SG)
Intelligence (perceptiveness). Communication (empathy, tact). Influence (leadership, persuasion).
Sensorimotor (MG)
S: visual, auditory, olfactive, etc.
M: strength, endurance, reflexes, coordination, etc.
INTRAPERSONAL (IC)
Physical/Mental characteristics
(Appearance, handicaps, health)
(Temperament, personality traits, well being)
SELF-MANAGEMENT (-> Maturity)
Awareness of self/others
(Strengths & weaknesses, emotions)
Motivation/Volition
(Needs, interests, intrinsic motives, values)
(Resource allocation, adaptive strategies, effort)
Positive/ negative impacts
DEVELOPMENTAL PROCESS
Informal/formal learning & practising (LP)
Positive/ negative impacts
ENVIRONMENTAL (EC)
Milieu: physical, cultural, social, familial, etc.
Persons: parents, teachers, peers, mentors, etc.
Provisions: programs, activities, services, etc.
Events: encounters, awards, accidents, etc.
CHANCE (CH)
TALENT = top 10 %
SYSTEMATICALLY DEVELOPED SKILLS (SYSDEV)
FIELDS
(relevant to school-age youths)
Academics: language, science, humanities, etc.
Arts: visual, drama, music, etc.
Business: sales, entrepreneurship, management, etc.
Leisure: chess, video games, puzzles, etc.
Social action: media, public office, etc.
Sports: individual & team.
Technology: trades & crafts, electronics, computers, etc.


#DiscoverYour
GOLD
Sign up at uksport.gov.uk/talent

uk sport


Medal achievements of most successful countries in Summer Olympics from 2000 to 2016
(Total medals)
Number of total medals
130
120
110
100
90
80
70
60
50
40
30
20
10
0
2000
2004
2008
2012
2016
United States (USA)
China (CHN)
Great Britain (GBR)
Russia (RUS)
Germany (GER)


UNITED STATES OLYMPIC TEAM
milk life PRESENTS
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THE NEXT OLYMPIC HOPEFUL
Do you have what it takes to represent the United States on the world's largest stage? The United States Olympic Committee is giving you a chance to become the Next Olympic Hopeful and work your way toward the dream of becoming an Olympian.
Sign up now to register for the third season of "Milk Life presents, Scouting Camp: The Next Olympic Hopeful."
Athletes age 14 and older with a background in any sport are encouraged to apply.
"Milk Life presents, Scouting Camp: The Next Olympic Hopeful" is the USOC's talent identification program that brings the nation's top athletes to the U.S. Olympic Training Center to face the same physical and mental challenges Team USA athletes face every day as they train for the Olympic Games. The best of the best will be invited to national team camps to compete for a spot on the U.S. Olympic Team.
If you have the skill, drive and discipline to represent Team USA, sign up now to begin your path to the podium today.
Register
Log in
Need help? Contact the U.S. Olympic Committee by emailing ScoutingCamp@usoc.org.
24 HOUR FITNESS

milk life PRESENTS

SCOUTING CAMP

THE NEXT OLYMPIC HOPEFUL

24 Fitness

JULY 27 | 8 SPORTS | 5 DAYS

BY THE NUMBERS

24 AVERAGE AGE

TALLEST ATHLETE 6'5"

SHORTEST ATHLETE 5'0"

TWO SISTERS

39 COLLEGIATE ATHLETES

COLORADO SPRINGS, CO
US OLYMPIC TRAINING CENTER

265,708 TOTAL MILES TRAVELED

15 ATHLETES FROM CALIFORNIA
THE MOST BY ANY STATE

90 ATHLETES INVITED TO PARTICIPATE
8 WINNERS

SEASON 1 WINNERS

BOBSLED
KYLE PLANTE — ALBANY, N.Y.
JOSHUA WILLIAMSON — LAKE WALES, FLA.

RUGBY
KELLI SMITH — BIRMINGHAM, ALA.
DEVIN SHORT — LAS VEGAS, NEV.

SKELETON
AMANDA ALVAREZ — BURTON, WASH.
QUENTIN BUTLER — ARLINGTON, TEXAS

TRACK CYCLING
KELLY KORTMAN — TUSTIN, CALIF.
COLLIN HEDDEN — FIRESTONE, COLO.

23 ATHLETES INVITED TO TRAINING CAMPS

MEDALS IN INTERNATIONAL COMPETITION

91 TOTAL PARTICIPANTS

8 WINNERS

9,092 MILES TRAVELED TO THE U.S. OLYMPIC TRAINING CENTER BY THE WINNERS

4 SPORTS

4 ATHLETE MENTORS

Naturalizing China's talent search

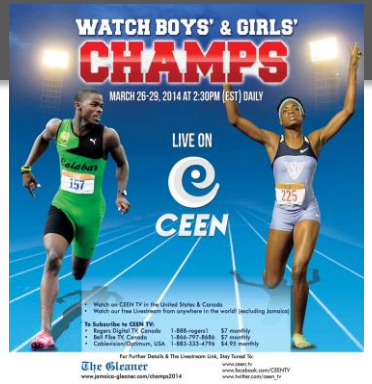
"We have to break from the traditional system in order to seek all available talent and maximize resources."

Elite Player Performance Plan

PREMIER LEAGUE

The Audit Tool

[U18] Sports Medicine
Joe DiMaggio Children's Hospital



NCAA

AAU USA

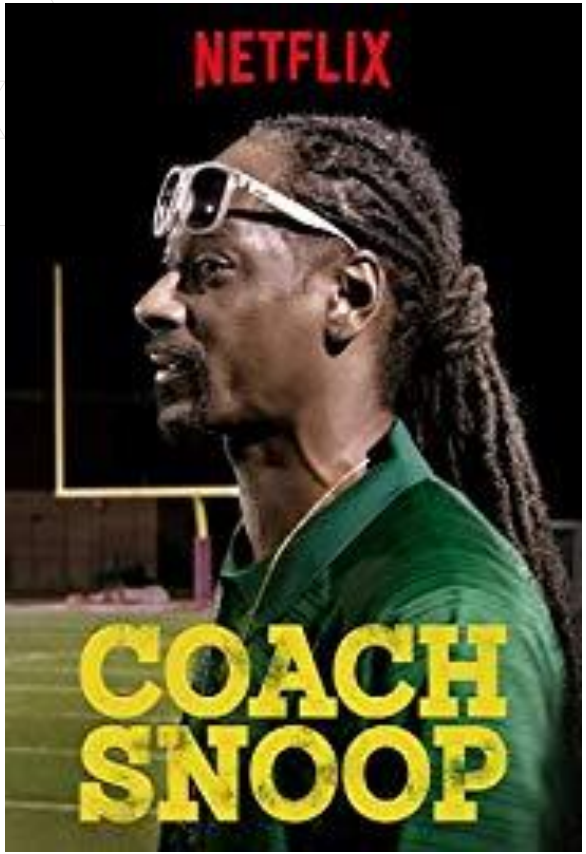
IMG ACADEMY

adidas CAMP SERIES rivals

FYFL

YOUTH FOOTBALL SNOOP LEAGUE

OFFICIAL SITE OF THE SNOOP YOUTH FOOTBALL LEAGUE


NETFLIX
COACH
SNOOP


SNOOP DOGG
ALL STARS
FLO RIDA
ALL STARS
INAUGURAL
FLO RIDA
YOUTH FOOTBALL
SNOOPIER BOWL
MMXLII
SNOOP
FYFL
LOS ANGELES, CA
JANUARY 5TH 2014
PROCEEDS BENEFIT SNOOP YOUTH FOOTBALL LEAGUE | FLORIDA YOUTH FOOTBALL LEAGUE
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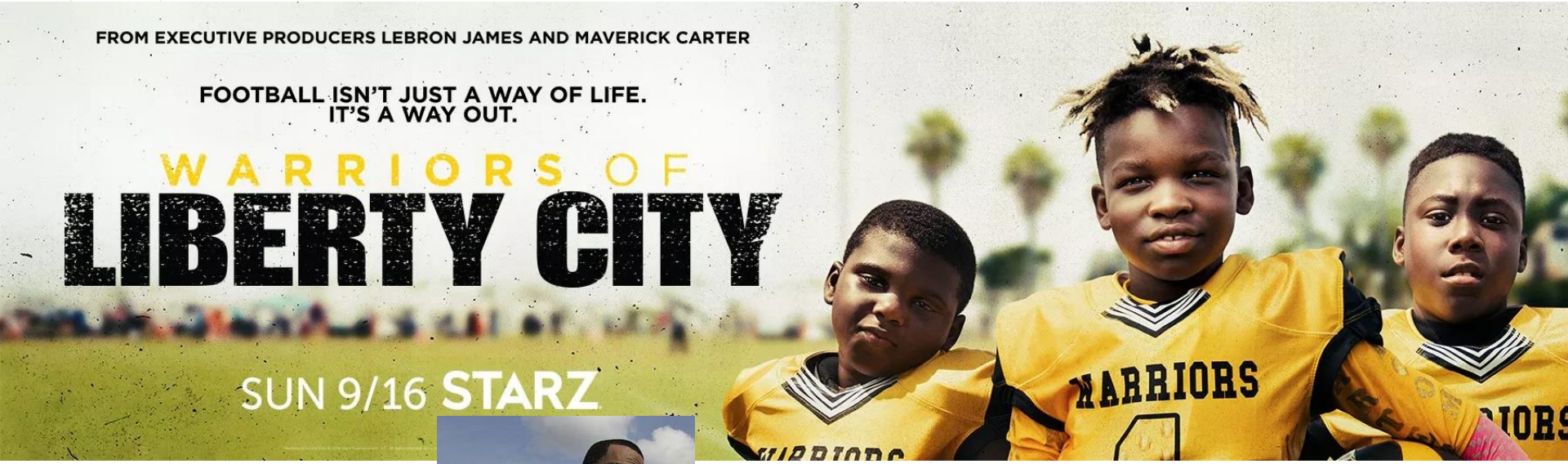
WWW.FLORIDAYOUTHFOOTBALLLEAGUE.COM


FROM EXECUTIVE PRODUCERS LEBRON JAMES AND MAVERICK CARTER
FOOTBALL ISN'T JUST A WAY OF LIFE.
IT'S A WAY OUT.
WARRIORS OF
LIBERTY CITY
SUN 9/16 STARZ
WARRIORS

Aspects of Measurement and Assessment in Young Athletes

1. **Biological**
2. Psychological
   - Motivation
   - Coping with failure
   - Mental toughness
3. Sociological
   - Leadership
   - Team cohesion

Biological Components

- <14 years old
- >14 = Specialization*
- Athletes v non-athlete
- Athletes of different skill levels
- Level of maturation
- Swimmers show promise
- Potential over scoring
- Tests in isolation

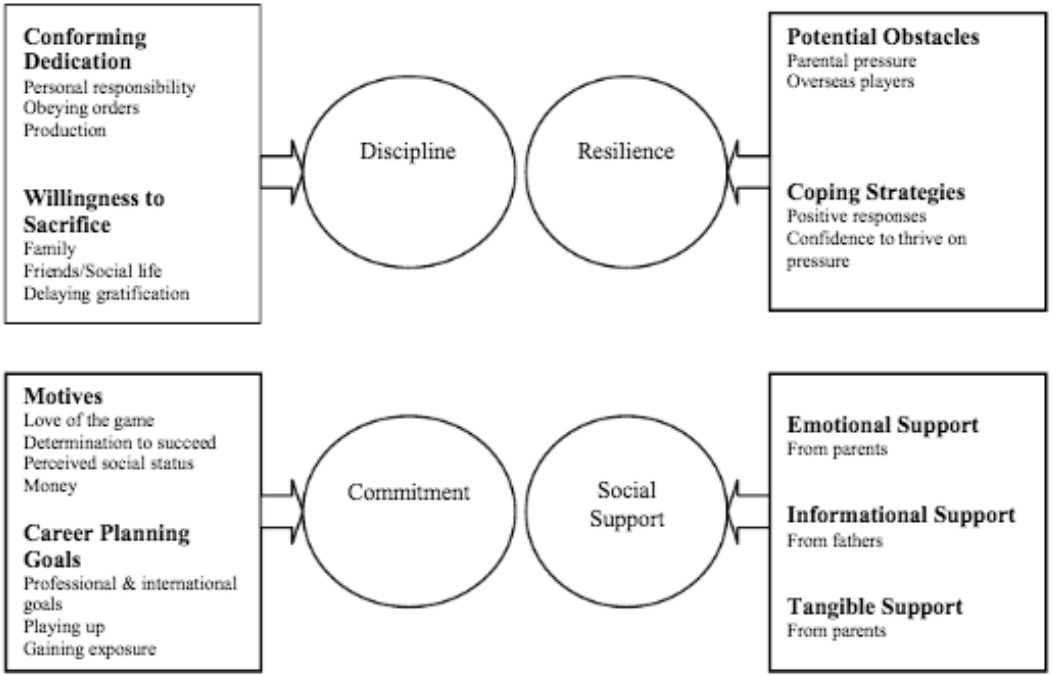


Figure 1. Overview of concepts, sub-categories, and categories pertaining to psychosocial competencies associated with soccer success during adolescence.

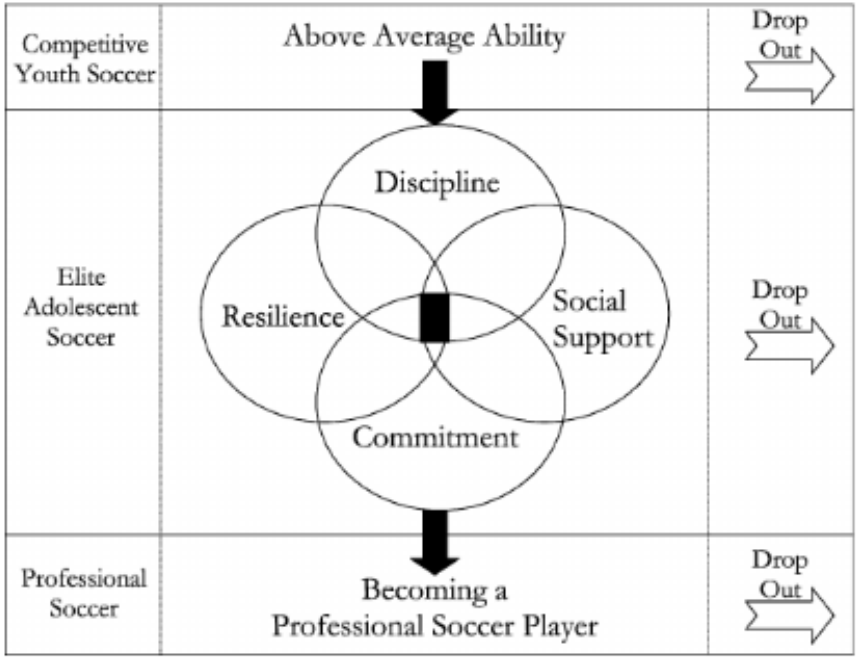


Figure 2. A grounded theory of the psychosocial competencies and environmental conditions associated with soccer success during adolescence.

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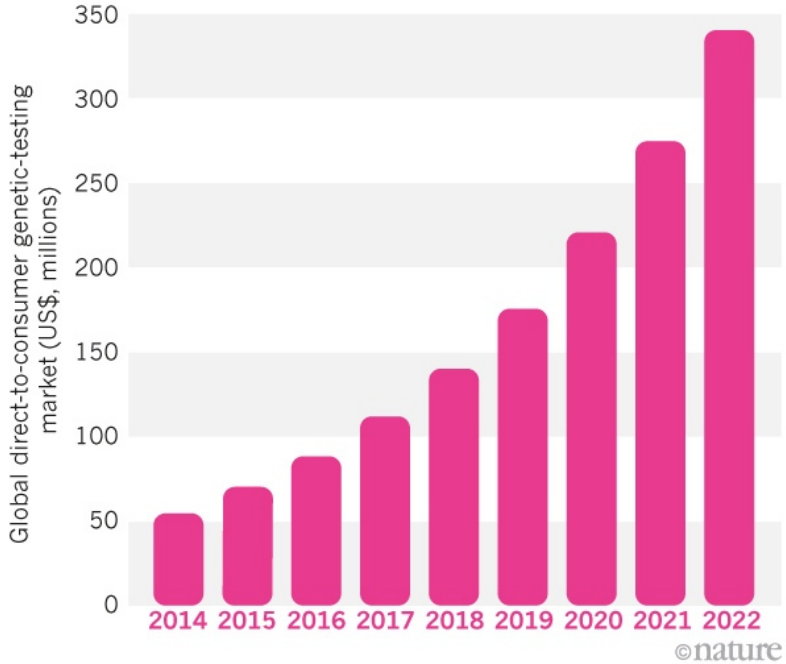
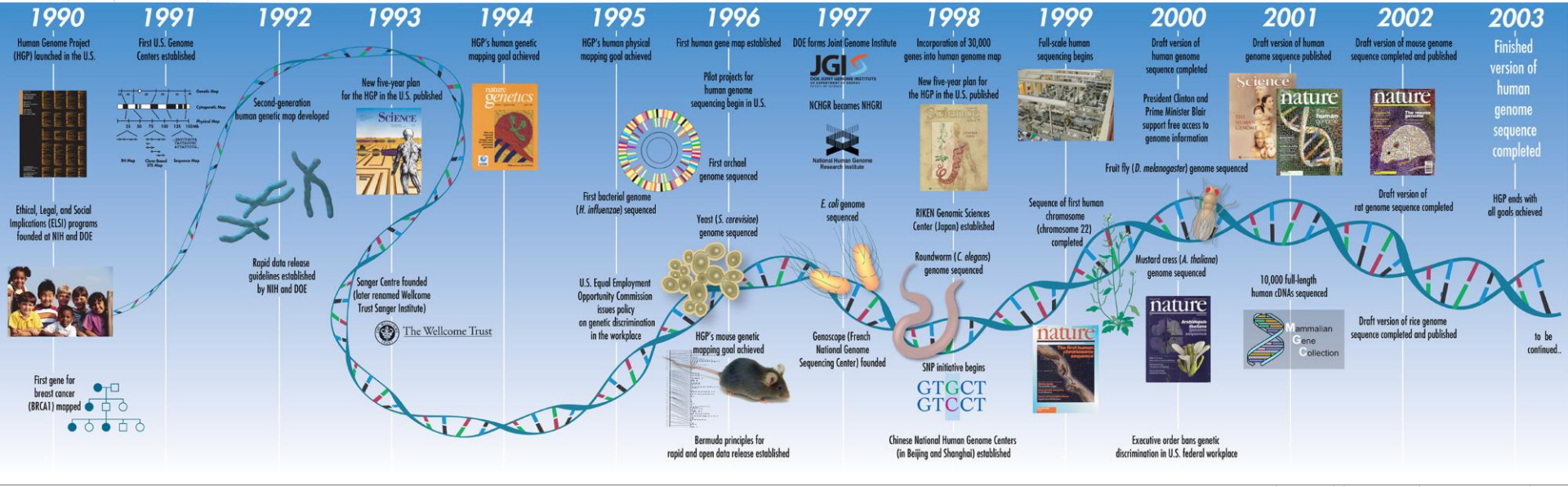
GENE DRIVE

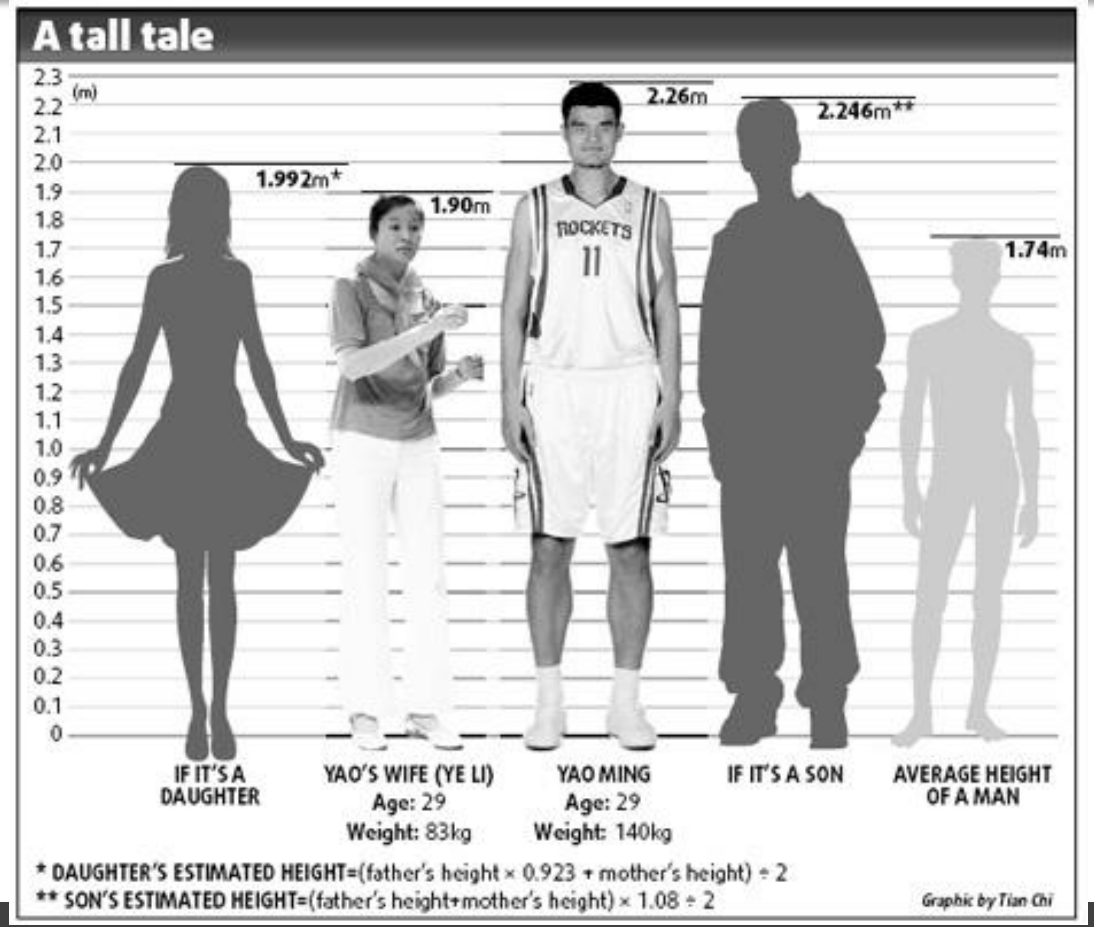
The direct-to-consumer genetic-testing industry is predicted to grow to US$340 million in the next five years. This is still a small fraction of the overall market for DNA testing, which is expected to reach $10 billion in that time.

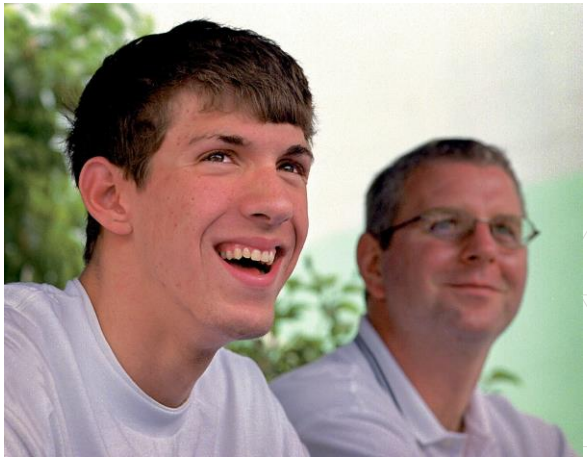



ACTN3
POWER
Carbohydrate Response
ADRB2
NOS3
FUT2
Aerobic
VO2 Max
VITAMIN B12
Injury Repair
Flexibility
(COL5A1)
(CYP1A2)
ACE
Caffeine Sensitivity

Human Genome Project



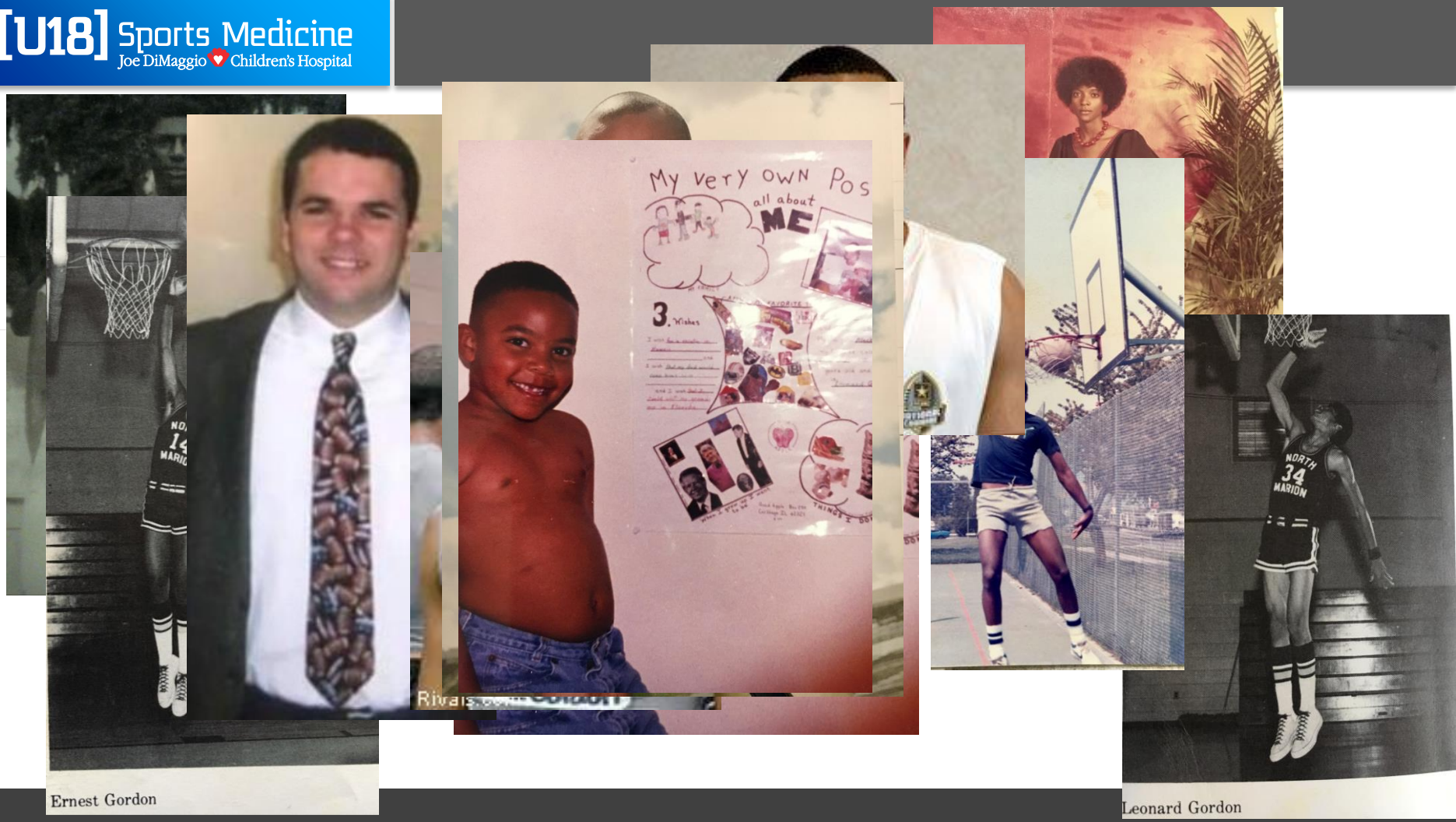

A tall tale
(m)
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1.992m*
1.90m
2.26m
2.246m**
1.74m
ROCKETS
11
IF IT'S A DAUGHTER
YAO'S WIFE (YE LI)
Age: 29
Weight: 83kg
YAO MING
Age: 29
Weight: 140kg
IF IT'S A SON
AVERAGE HEIGHT OF A MAN
* DAUGHTER'S ESTIMATED HEIGHT=(father's height × 0.923 + mother's height) ÷ 2
** SON'S ESTIMATED HEIGHT=(father's height+mother's height) × 1.08 ÷ 2
Graphic by Tian Chi



No.	Player	Birth Date	Position
1	Marcel Gecov	Jan. 1, 1988	MF
2	Ludek Frydrych	Jan. 3, 1987	GK
3	Petr Janda	Jan. 5, 1987	MF
4	Jakub Dohnalek	Jan. 12, 1988	DF
5	Jakub Mares	Jan. 26, 1987	MF
6	Michal Held	Jan. 27, 1987	DF
7	Marek Strestik	Feb. 1, 1987	FW
8	Jiri Valenta	Feb. 14, 1988	MF
9	Jan Simunek	Feb. 20, 1987	DF
10	Tomas Oklestek	Feb. 21, 1987	MF
11	Lubos Kalouda	Feb. 21, 1987	MF
12	Radek Petr	Feb. 24, 1987	GK
13	Ondrej Mazuch	Mar. 15, 1989	DF
14	Ondrej Kudela	Mar. 26, 1987	MF
15	Marek Suchy	Mar. 29, 1988	DF
16	Martin Fenin	Apr. 16, 1987	FW
17	Tomas Pekhart	May 26, 1989	FW
18	Lukas Kuban	Jun. 22, 1987	DF
19	Tomas Cihlar	Jun. 24, 1987	DF
20	Tomas Frystak	Aug. 18, 1987	GK
21	Tomas Micola	Sep. 26, 1988	MF

Implications & Future Work

- Concept Utility
- Physical measurements
- Performance ≠ Talent
- Poor replication
- Extension of talent
- Multidimensional construct
- Probabilistic not deterministic
- Talent on a continuum
- Dangers of simplicity
- Poor long-term prediction accuracy in talent selection


My very own Pos
all about
ME
3. Wishes
Ernest Gordon
Leonard Gordon

References