



**SZEGEDI TUDÓS AKADÉMIA**  

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**SZEGED SCIENTISTS ACADEMY**

# SZEGED

SCIENTISTS ACADEMY

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## MULTI-GENERATIONAL NEW SCHOOL AND PROGRAMME OF EXCELLENCE

Programme operated by the Foundation for the  
Future of Biomedical Sciences in Szeged

# 2013-2033

25 February, 2019

# HISTORICAL OVERVIEW

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**15 Nobel laureates of Hungarian origin**

Nobel prize in Physiology and Medicine



1901 – 1921 → 20 years



**ALBERT SZENT-GYÖRGYI**

Szeged University **1937**

1942 – 1961 → 20 years



**RÓBERT BÁRÁNY**

**1914** Vienna University

1922 – 1941 → 20 years



**GYÖRGY BÉKÉSY**

**1961** Harvard University





I believe, if you climb a mountain's wrong side that shall not be considered wasted work. During the climb one can learn many things, that those who do not make mistakes will never experience.

**György Békésy**

# HISTORICAL OVERVIEW

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## A TOWN AND A UNIVERSITY – SZEGED

### A welcoming city

**1921** Szeged received the  
Franz Josef University

### A giving city

**For 10 years** it sacrificed to  
build mansions, clinics, and  
laboratories around the  
cathedral

### ...and a Talent

Our university developed into an institution that was capable of attracting and retaining **Albert Szent-Györgyi** as well as providing him with the resources he required to complete the work that would earn him a **Nobel Prize**.



Albert Szent-Györgyi

# S

How can you stand apart from your competitors?

Do you possess strong research and development capabilities?

What internal resources do you have?

What kind of tangible assets (capital, credit, distribution channels or technology) do you own?

# W

Which areas need improvement to beat your strongest competitor?

What does your business lack?

Are there any limited resources?

Is your business in a poor location?

# O

What opportunities exist in your market?

How can these benefit?

Is the perception of your business positive?

Have there been any changes in the market recently?

# T

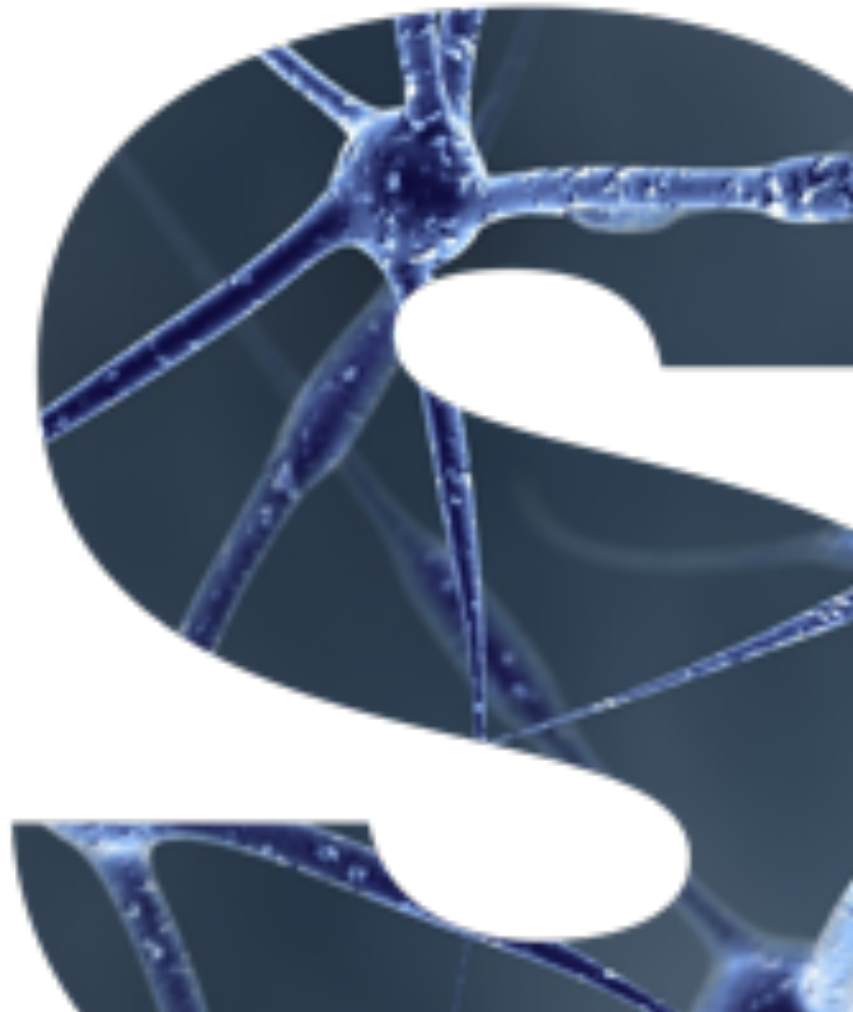
Who are your potential competitors?

Which factors do you need to control to reduce the risks to your business?

Is there anything deteriorating your revenues or profits?

What threatens your marketing efforts?

# STRENGTHS





# STRENGTHS

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The founders of the programme are extremely **dedicated towards their mission**.

The Radnóti Miklós Grammar School Szeged offers an **exceptional Biology education** of outstanding quality.

**Fiscal security** with the financial support of the Government, City and the University of Szeged.

# WEAKNESSES





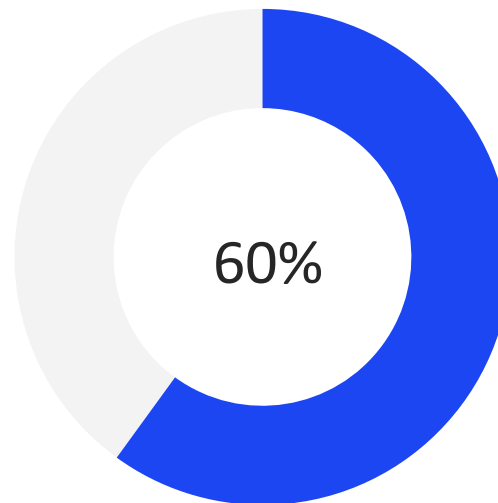
# INTENSIFIED EXODUS

OF YOUNG PEOPLE FROM HUNGARY IN  
RECENT YEARS

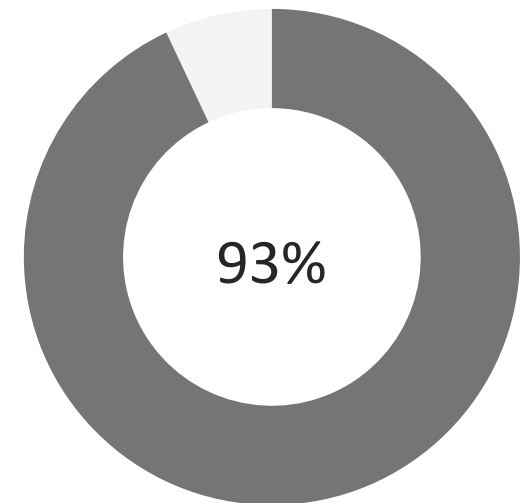
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**Nearly half a  
million have left  
the country since  
2009**

(leading Hungarian think tank,  
Kopint-Tárki)



**Aged between  
25 and 45**



**Elite talents**

A NEW TYPE OF  
EDUCATION SYSTEM  
FOR EXCELLENCE IS  
CRUCIALLY NEEDED  
FROM THE AGE OF  
16 TO 36.

1

The national OKTV champions are offered **scholarships by foreign universities.**

2

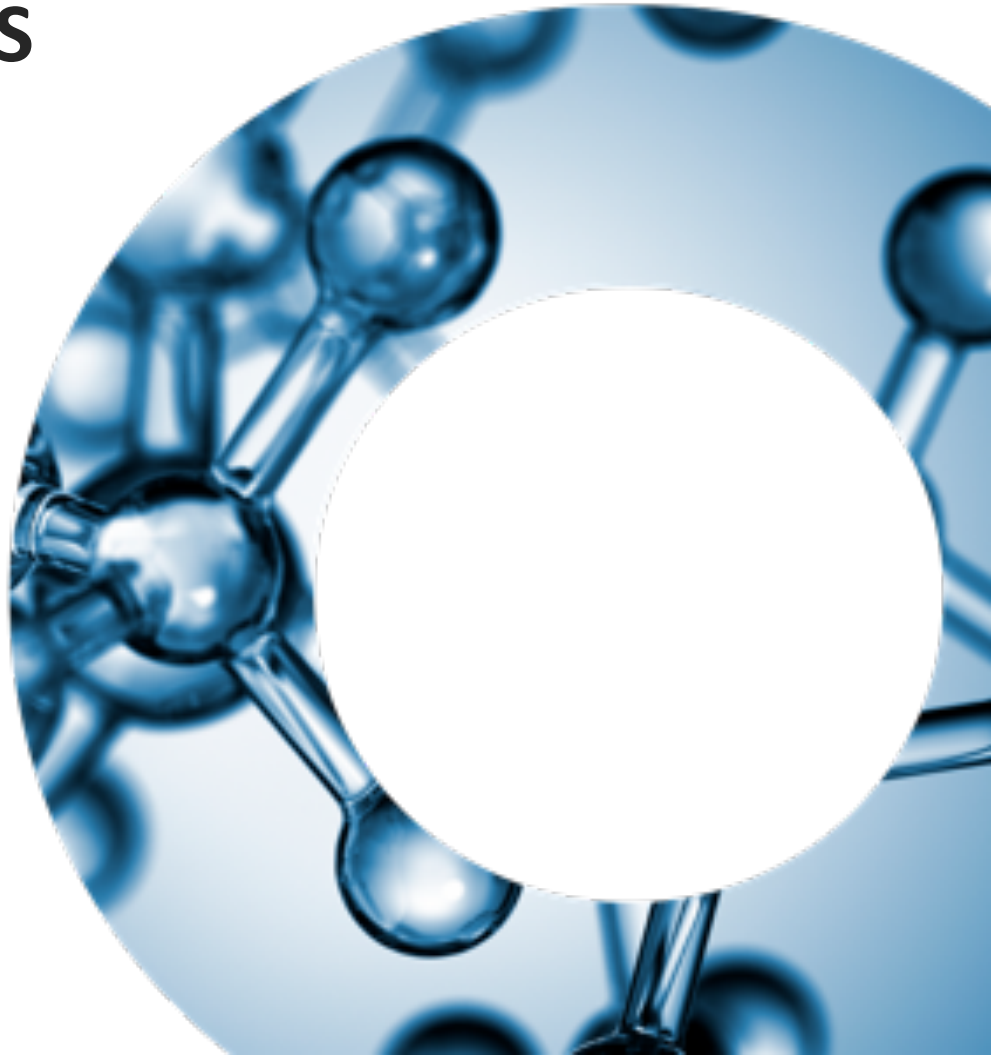
The best and the brightest choose **not to pursue a career in the sciences.**

3

**Not always the most talented** ones who end up at the top research laboratories.

THERE IS NO SUCH  
SCHOOL SYSTEM

# OPPORTUNITIES





# LONG-TERM GROWTH

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The continuous support of the Government makes **long-term planning** possible.

The growth of support makes the **expansion of the programme** possible geographically and also the involvement of other disciplines.

# THREATS





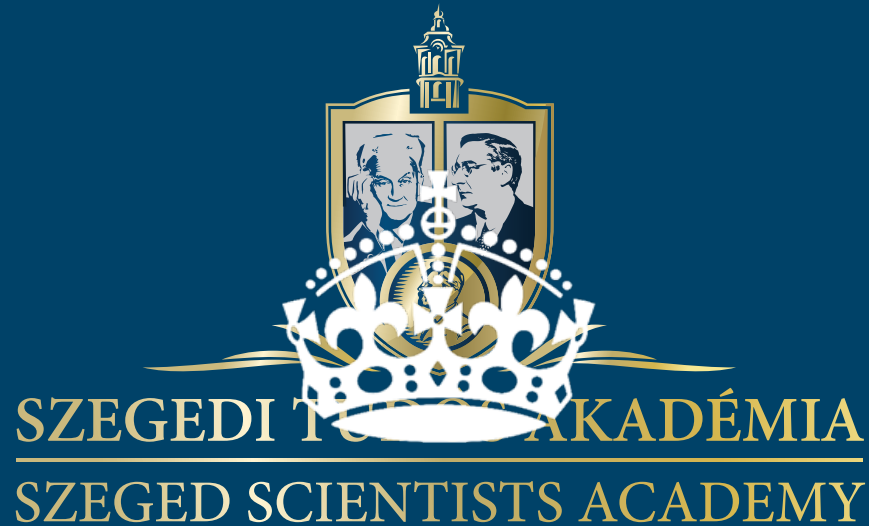
# SCIENCE IS IN DANGER

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Foreign brain-drain programmes attract the talented students, as a result there will be a **decline in the number of domestic biomedical researchers**.

If we can not **involve other disciplines** soon, we can not compete foreign universities in areas outside medical biology.





**FORGET CALM**  
**LET'S**  
**DO**  
**SOMETHING**

**S**  
**SPECIFIC**

**M**  
**MEASURABLE**

**A**  
**ATTAINABLE**

**R**  
**REALISTIC**

**T**  
**TIMELY**

**REALISTIC**





NOTHING IS  
IMPOSSIBLE,  
THE WORLD ITSELF SAYS  
“I’M POSSIBLE!”

Audrey Hepburn

WHAT WE HAVE DONE

# RESPECT YOUR HISTORY

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75<sup>th</sup> anniversary of the awarding of the Nobel Prize to the world-famous Hungarian scientist, Albert Szent-Györgyi.

9 NOBEL PRIZE-WINNING  
RESEARCHERS ATTENDED



2012

WHAT WE HAVE DONE

# BUILD UP YOUR FUTURE

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Establishment of the Foundation

DEVELOPMENT OF THE SZEGED  
SCIENTISTS ACADEMY (SZSA),

A NEW TYPE OF EDUCATION  
SYSTEM FOR EXCELLENCE



2013



2014



2015



MAGYARORSZÁG HIVATALOS LAPJA  
2015. december 29., kedd

## A Kormány 2028/2015. (XII. 29.) Korm. határozata a Szegedi Tudós Akadémia támogatásának egyes kérdéseiről

A Kormány Szent-Györgyi Albert életművét szellemi elődjének a tehetséggondozás és a helyi tudományos műhelyek fejlesztése érdekében

1. támogatja a Szegedi Orvosbiológiai Kutatások Jövőjéért Alapítvány „Szegedi Tudós Akadémia” programjának megvalósítását, valamint a Szent-Györgyi Kollégium – vonatkozó jogszabályoknak megfelelően történő – létrehozását;
2. felhívja a nemzetgazdasági minisztert, hogy az 1. pontban foglaltak megvalósítása érdekében gondoskodjon
  - a) a Szent-Györgyi Kollégium székhelyeként szolgáló, Szeged, Vörösmartyú u. 9. szám alatti ingatlan megvásárlásához szükséges legfeljebb 200 millió forint, továbbá az ingatlan felújításához szükséges legfeljebb 1300 millió forint forrás biztosításáról a 2016. évi központi költségvetés terhére az Emberi Erőforrások Minisztériuma fejezetben,
  - b) a Szegedi Tudós Akadémia működtetéséhez szükséges 250 millió forint forrás bázisba épülő módon történő biztosításáról a 2016. évi központi költségvetés terhére az Emberi Erőforrások Minisztériuma fejezetben,
  - c) a szegedi székhelyű Radnóti Miklós Gimnázium felújításához szükséges 150 millió forint forrás biztosításáról a 2016. évi központi költségvetés terhére az Emberi Erőforrások Minisztériuma fejezetben.

2040 MILLION HUF + ANNUAL BUDGET 250 MILLION HUF



**SPECIFIC**





# MULTI-GENERATIONAL NEW SCHOOL AND PROGRAMME OF EXCELLENCE

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Szeged Scientists Academy

## THE UNIVERSITY EDUCATION PROGRAMME

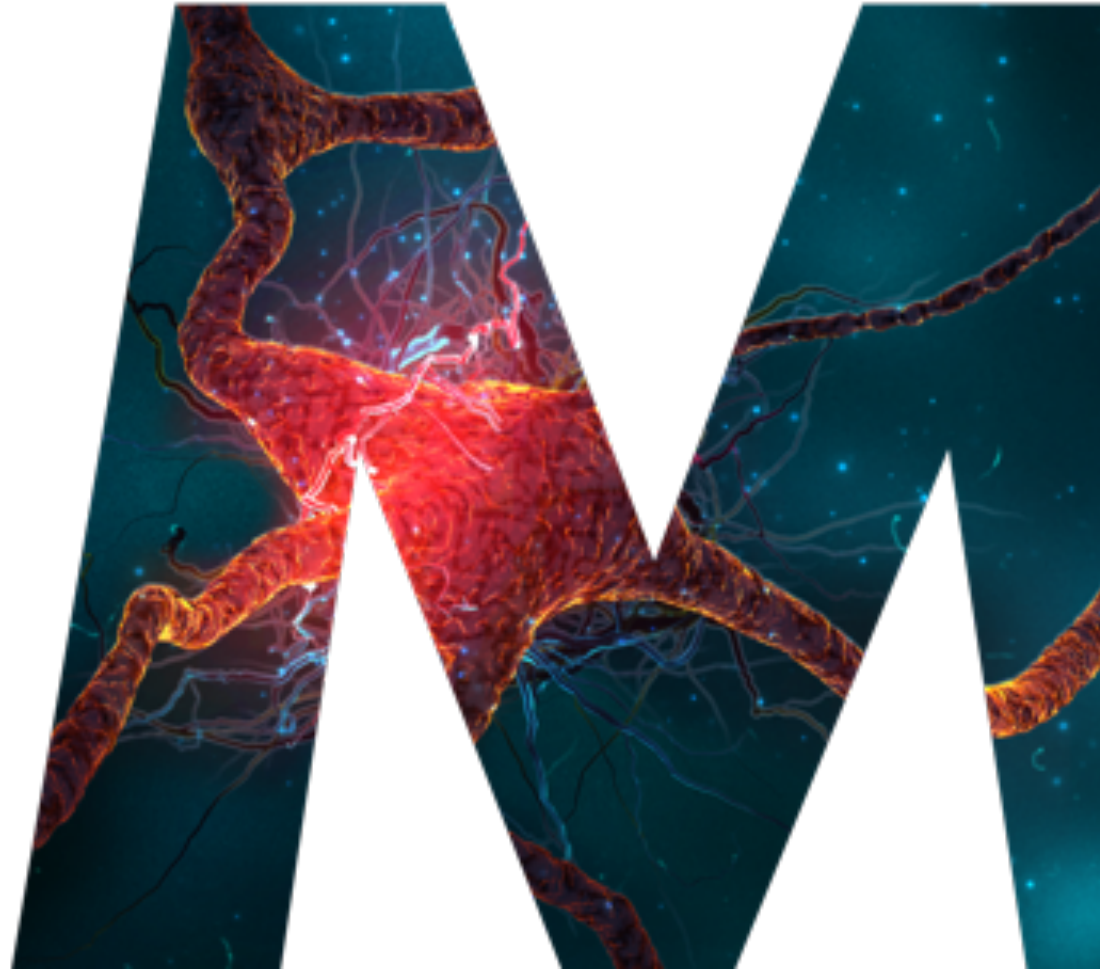
6-years    12<sup>th</sup> class pupils

## THE SECONDARY SCHOOL EDUCATION PROGRAMME

2-years    10<sup>th</sup> class pupils



**MEASURABLE**





# MEMBERS

Szent-Györgyi Teacher

**100 TEACHERS**

Szent-Györgyi Pupil

**400-500 YOUTH**

Szent-Györgyi Mentor

**100 MENTORS**

40 INTERNATIONAL

60 NATIONAL

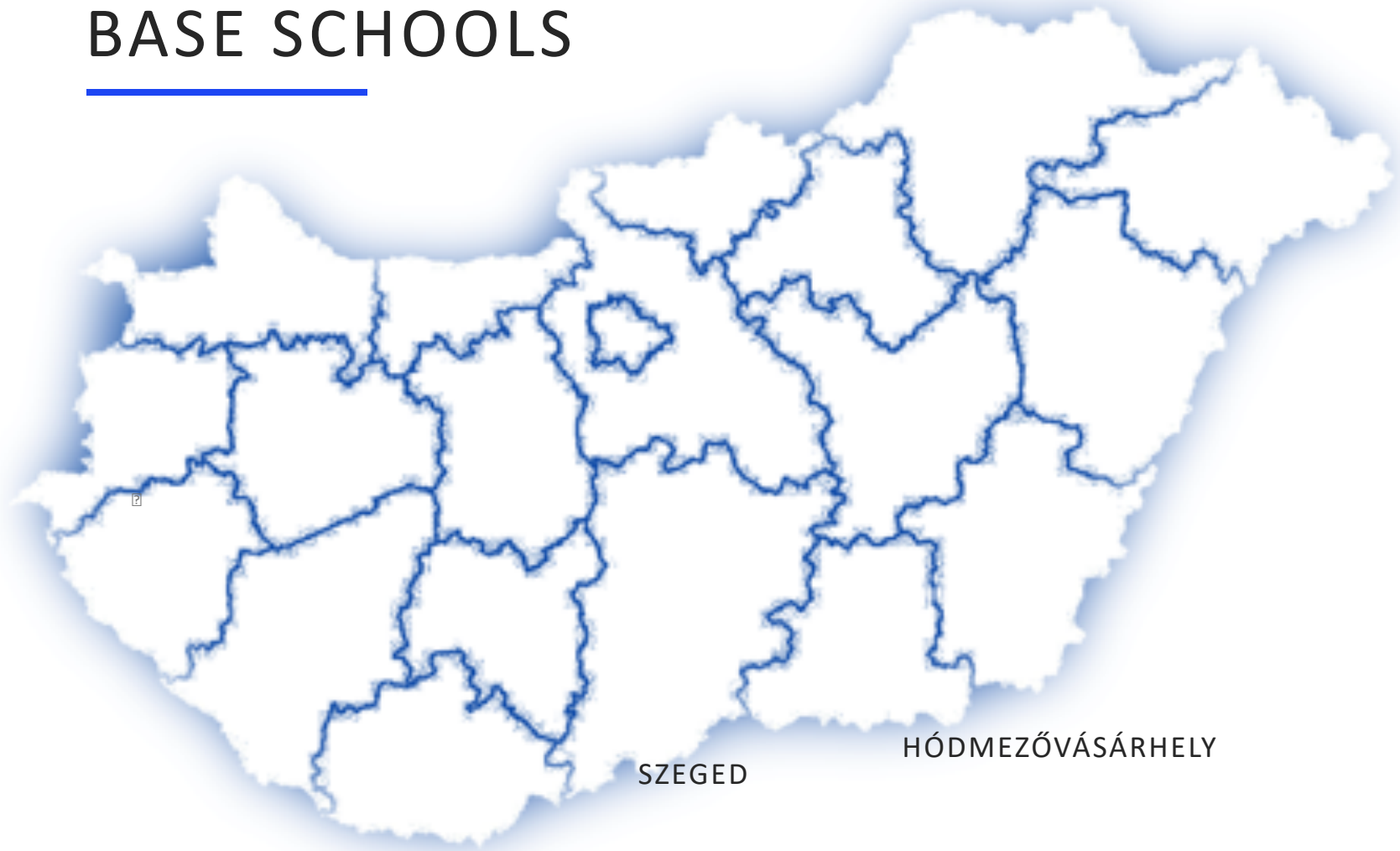
Szent-Györgyi Student

**60 STUDENTS**

**in and out**

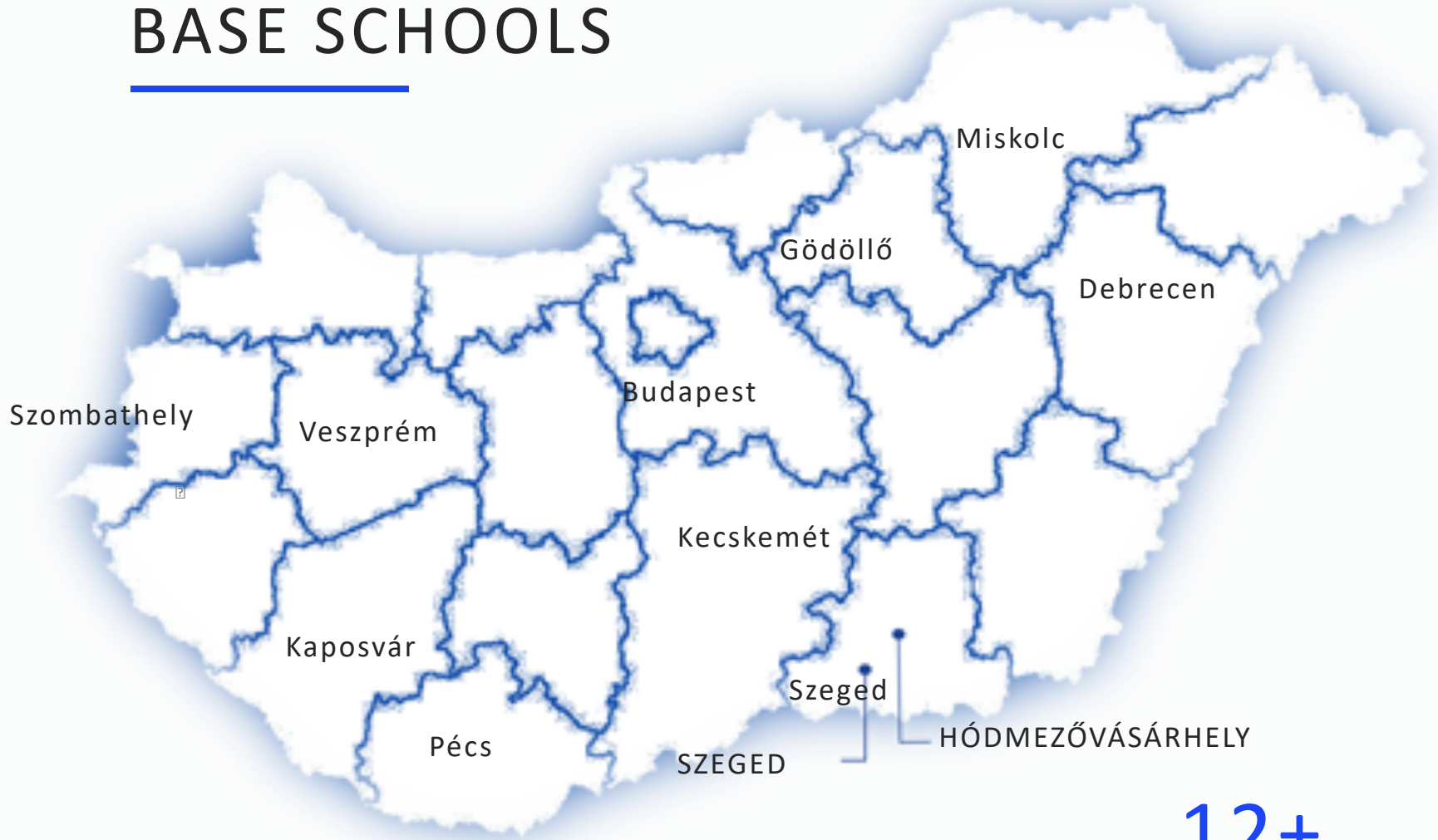
# NATIONAL BASE SCHOOLS

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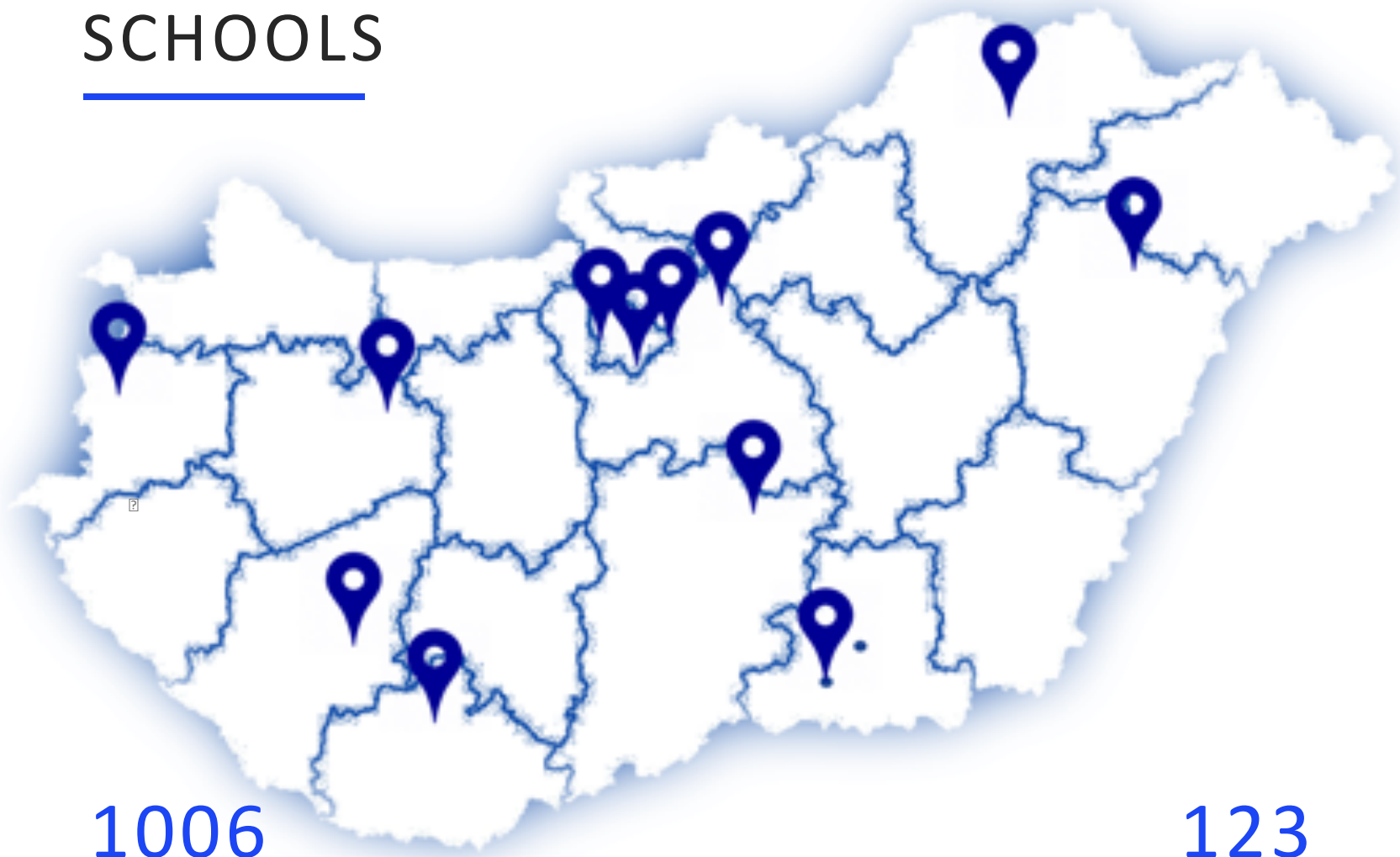
# REGIONAL BASE SCHOOLS

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# SECONDARY SCHOOLS

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1006

PUPILS

123

SCHOOLS





**Dunajská Streda**  
(Dunaszerdahely)

**Cluj-Napoca**  
(Kolozsvár)

**Târgu Mureș**  
(Marosvásárhely)

**Senta**  
(Zenta)

# FREQUENTLY ASKED QUESTIONS

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# WHERE WILL I LIVE?

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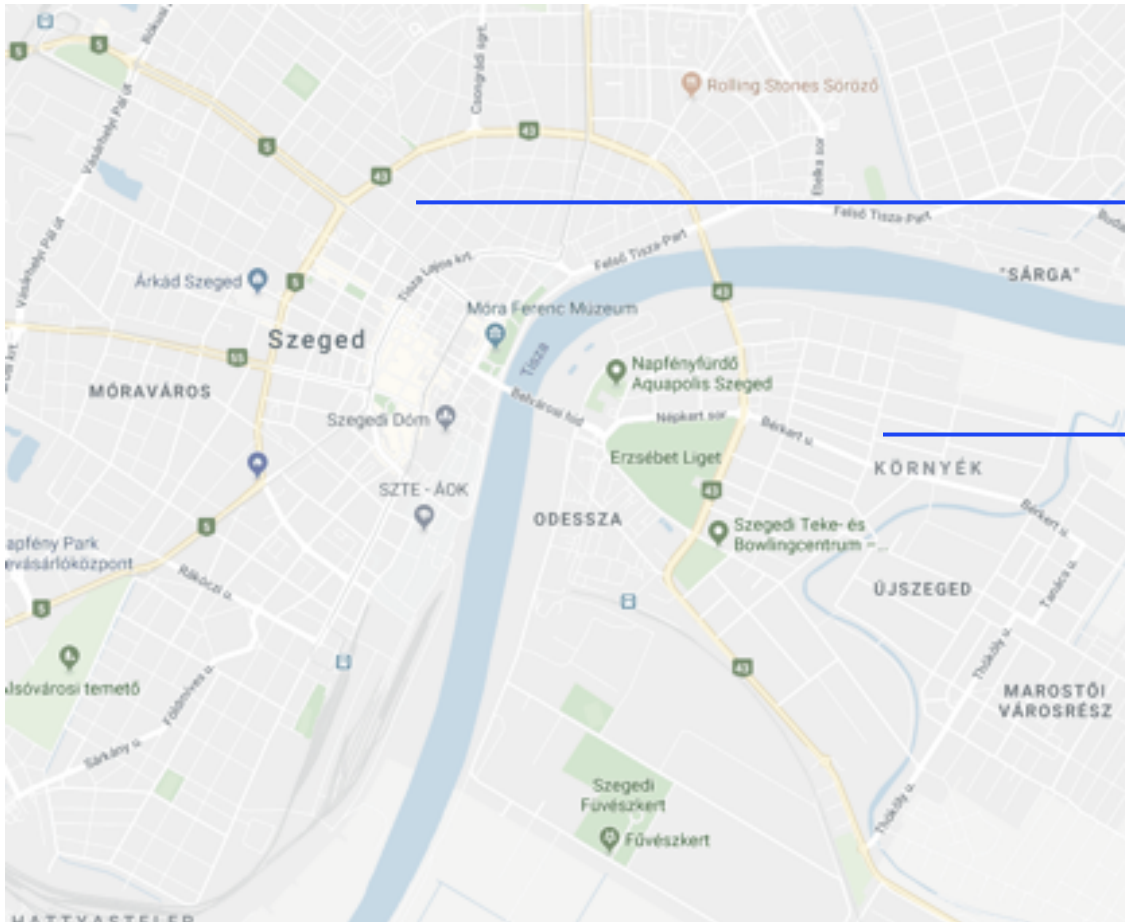






# WHO WILL TEACH ME?

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**MENTORS: 18**

UNIVERSITY OF SZEGED



**MENTORS: 20**

BIOLOGICAL RESEARCH  
CENTRE



# MENTORS

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There are **three types** of mentors involved in the work of the Szeged Scientists Academy:

**SZENT-GYÖRGYI MENTOR**  
**JUNIOR MENTOR**  
**INTERNATIONAL MENTOR**



ANDÓ ISTVÁN



BARI FERENC



BATA-CSÖRGŐ ZSUZSANNA



BÉRENYI ANTAL



BOLDOGKŐI ZSOLT ENDRE



BOROS IMRE MIKLÓS



BOROS MIHÁLY



CSONT TAMÁS



DELI MÁRIA



DÉR ANDRÁS



DUX LÁSZLÓ



FARKAS ESZTER



GÁCSEER ATTILA



HARACSKA LAJOS



HEGYI PÉTER



HOHMANN JUDIT



HORVÁTH PÉTER



HUNYADI ATTILA



JUHÁSZ GÁBOR



KASZAI JÓZSEF



KEMÉNY LAJOS



KIRICSI MÓNIKA



KRIZBAI ISTVÁN



MARTINEK TAMÁS



MÁTÉS LAJOS



MIHÁLY JÓZSEF



PÁL CSABA



PAPP BALÁZS



PETÁK FERENC



PÓSFAI GYÖRGY



RAKONCZAY ZOLTÁN



SIKLÓS LÁSZLÓ



SZÉLL MÁRTA



TAMÁS GÁBOR



TIMINSZKY GYULA



VARRÓ ANDRÁS



VÉCSEI LÁSZLÓ



VÍGH LÁSZLÓ



ZIMÁNYI LÁSZLÓ



ZUPKÓ ISTVÁN

# MENTORS AND JUNIOR MENTORS

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**Mentors** and **Junior mentors** receive a regular assignment fee. The Mentors are leaders of inter-nationally recognized laboratories at the University of Szeged or at the Hungarian Academy of Sciences Biological Research Centre.

The **Mentor** is encouraged to nominate a talented young researcher who will become a **Szent-Györgyi Junior mentor** and who will have an active role in the day-to-day training of the Student.

# INTERNATIONAL MENTORS

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NUMBER OF  
INTERNATIONAL  
MENTORS:

40

NORTH AMERICA



EUROPE







Photo: Anna Bobkó

## XII. MEETING OF NOBEL LAUREATES AND TALENTED STUDENTS

AND SZENT-GYÖRGYI SECONDARY SCHOOL

A joint program of the  
Sciences in Szeged, the  
Academy



SZEGEDI TUDÓS AKADÉMIA  
SZEGED SCIENTISTS ACADEMY

Photo: Balázs Papdi

## XIII MEETING OF NOBEL LAUREATES AND TALENTED STUDENTS

24-26  
February  
2019  
Szeged

A joint programme of the Foundation for the Future of Biomedical  
Sciences in Szeged, the Biological Research Centre,  
Szeged and the University of Szeged



SZEGEDI TUDÓS AKADÉMIA  
SZEGED SCIENTISTS ACADEMY



Foundation for the Future  
Sciences in Szeged  
University of Szeged



SZEGEDI TUDÓS AKADÉMIA  
SZEGED SCIENTISTS ACADEMY

NO  
ÉS  
8.  
ÉS

## X<sup>TH</sup> MEETING OF TALENTED STUDENTS AND NOBEL LAUREATES

SZENT-GYÖRGYI SECONDARY SCHOOL

Joint program of the Un  
Sciences Biological

SZE  
SZE

# NOBEL LAUREATES IN SZEGED

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Bert **Sakmann** (Medicine, 1991)

Sir Richard Timothy **Hunt** (Medicine, 2001)

Eric F. **Wieschaus** (Medicine, 1995)

Robert **Huber** (Chemistry, 1988)

Aaron **Ciechanover** (Chemistry, 2004)

Erwin **Neher** (Medicine, 1991)

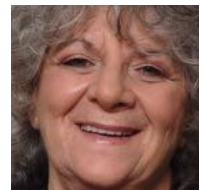
Ada E. **Yonath** (Chemistry, 2009)

Andrew W. **Schally** (Medicine, 1977)

Peter C. **Doherty** (Medicine, 1996)

John E. **Walker** (Chemistry, 1997)

Kurt **Wüthrich** (Chemistry, 2002)



# WHAT KIND OF SKILLS DO I NEED TO HAVE?

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# CURIOSITY



# WHAT KIND OF SKILLS DO I NEED TO HAVE?

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## **PASSION**

„I have no special talents.  
I am only passionately curious.”

# WHAT KIND OF SKILLS DO I NEED TO HAVE?

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## **PASSION**

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Albert Einstein

## **CURIOSITY**

„Millions saw the apple fall,  
but Newton asked why.”

# WHAT KIND OF SKILLS DO I NEED TO HAVE?

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## PASSION

„I have no special talents.  
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Albert Einstein



Bernard Baruch

## CURIOSITY

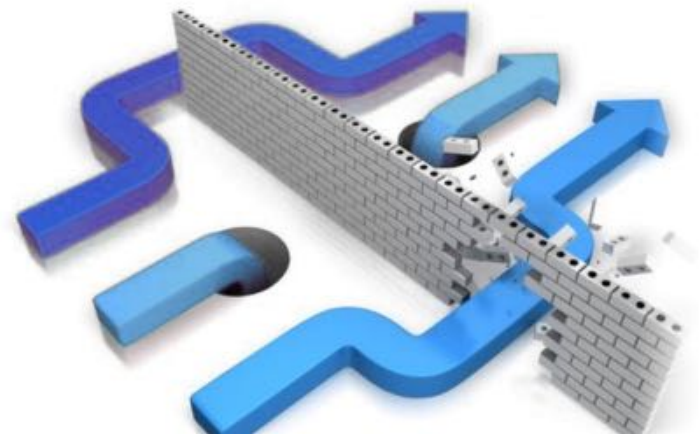
„Millions saw the apple fall,  
but Newton asked why.”

## LUCK

„I find I'm luckier  
when I work harder.”



**VISION  
YOUNG TALENTS  
OBJECTIVES  
ETHICS  
STRATEGY  
INSPIRATION  
PARTNERSHIP**



**VISION**  
**YOUNG TALENTS**  
**OBJECTIVES**  
**ETHICS**  
**STRATEGY**  
**INSPIRATION**  
**PARTNERSHIP**

