



UBB WORLD-CLASS CONTRIBUTIONS

Babeș-Bolyai University (Universitatea Babeș-Bolyai/UBB) of Cluj-Napoca, Transylvania, Romania has (1) the oldest academic/university tradition in Romania, (2) is the largest university of the country, and (3) is ranked on the first position in country between 2016-2019, in the University Metaranking, initiated by the Romanian Ministry of Education and Research in 2016. (i.e. by combining all the major international academic rankings of universities, as presented by IREG - <https://ireg-observatory.org/en/>). The British QS STAR audit has evaluated UBB in 2019 as an international university, with excellence in teaching and research (QS****).

The university tradition of UBB started in 1581 as Academia Claudiopolitana Societatis Jesu – by its Royal statute having the right to confer the university titles of *baccalaureus/magister/doctor* -, developed after 1698 until 1786 into Universitas Claudiopolitana, with teachings in Latin and later also in German. The Academia/Universitas Claudiopolitana was followed after 1786 by two institutions with a semiuniversity statute (e.g., offering training at *baccalaureus/magister* level, but not at *doctor* level): (a) the Surgical-Medical Institute and (b) the Academy of Law. Then, starting with 1872, the Royal Hungarian University of Cluj (Franz Joseph University/Cluj Hungarian University) was founded, with teaching in Hungarian, which included the two semiuniversity institutions already existing in Cluj (the main part of the academic tradition of this Hungarian period is shared with the current University of Szeged in Hungary). In 1919, the Hungarian university was transformed/merged by the Romanian University of Cluj (King Ferdinand University of Cluj/Cluj Romanian University). The Romanian and the Hungarian universities in Cluj – derived from Franz Joseph University and King Ferdinand University - were united in 1959 under the name of Babeș-Bolyai University. Victor Babes was a famous Romanian physician/biologist, one of the founders of microbiology and a professor at the King Ferdinand University of Cluj. The name Bolyai is related to the famous Hungarian family of mathematicians from Transylvania (János and Farkas Bolyai). UBB is today a complex multicultural university - with three lines of study in Romanian/Hungarian/German (and programs in English, French, Italian, Chinese, Japanese etc.) -, having programs from art/humanities, social sciences, life and natural sciences, mathematics/computer sciences to engineering and technology.

Throughout its old academic tradition, UBB had numerous fundamental academic contributions, both at national and international level, illustrated among others by quality publications (e.g., highly cited papers, hot papers), top scientists (e.g., highly cited researchers), and innovations (e.g., patents, products/services to society). Also, many UBB professors and/or alumni served key leadership positions in country and abroad (e.g., presidents, prime-ministers, ministers, CEO of major national/international organizations etc.). Finally, UBB professors and alumni have world-class contributions in sports (e.g., Olympic medals, world champions, trainers of champions) and arts (e.g., major recognition in the most important global film festivals like Berlin, Cannes, Locarno, Karlovy Vary, and winners of the Academy Awards - Oscars). Additionally, due to its academic prestige, UBB attracted stellar international scientists/academics and leaders (e.g., emperors, kings, presidents, religious leaders) as adjunct (e.g., adjunct professor) or honorary members (i.e., Doctor Honoris Causa) of the UBB community.

As follows, we feature some of the members of UBB community, who have made global academic and/or leadership contributions world-wide. We organize the selection on professors/alumni by the academic period: (1) Academia/Universitas Claudiopolitana, (2) Cluj Hungarian University, and (3) Cluj Romanian University; we do not yet include here UBB professor/researchers or alumni (after 1959) who are still active or alive. However, the selection for honorary members is focused on the more recent period (after 1959), but we have also included two selections from the past: Henri Poincare for the Hungarian period and Emmanuel de Martonne for the Romanian period. For more information about other UBB/Transylvanian academic personalities please see at https://www.ubbcluj.ro/en/despre/prezentare/istoric_personalitati_universitare.

Academics with world-class scientific contributions (selection)



Jakub Wujek/Vangrovitius (Academia/Universitas Claudiopolitana - Rector)

Famous Jesuit theologian (the translator of Bible into Polish – the "Wujek Bible")



Maximilian Hell (Academia/Universitas Claudiopolitana)

One of the most important astronomers of the 18th century/director of Vienna's Observatory



István Apáthy (Cluj Hungarian University - Rector)

Zoologist and histologist, innovator in microscope techniques (Nobel Prize nominee in 1904)



Gyula Farkas (Cluj Hungarian University - Rector)

Mathematician and physicist, with key contributions in mathematical optimization (see Farkas' lemma) and thermodynamic



Alfréd Haar (Cluj Hungarian University)

Mathematician; the Haar measure, Haar wavelet, and Haar transform are named in his honor



Hugo von Meltzl (Cluj Hungarian University - Rector)

Professor of German history and language, one of the founders of comparative literature



Frigyes Riesz (Cluj Hungarian University)

Mathematician, known world-wide for Riesz representation theorem, Riesz-Fischer theorem, Riesz space, Riesz's lemma, and Radon-Riesz property



Victor Babeș (Cluj Romanian University)

Physician, one of the founders of microbiology (Nobel Prize nominee in 1924)



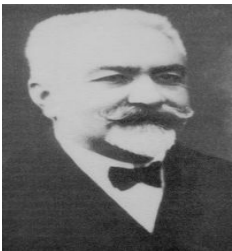
Augustin Maior (Cluj Romanian University)

Physicist, one of the key contributors to multiple telephony (the coordinator of Hermann Oberth's graduation thesis - one of the founders of rocketry and astronautics)



Dimitrie Pompeiu (Cluj Romanian University)

Mathematician, known for his concept of areolar derivative and the definition of Hausdorff-Pompeiu distance



Emil Racoviță (Cluj Romanian University - Rector)

Biologist, the founder of biospeology, Antarctica explorer, the first biologist to study arctic life

I. Alumni with world-class academic contributions (selection)



Péter Pázmány (Academia/Universitas Claudiopolitana) – Famous Jesuit theologian, Cardinal, one of the creators of the Hungarian literary language



Jenő Janovics (Cluj Hungarian University) – Actor and film director, the founder of Corvin Film Studio, influencing Alexander Korda and Michael Curtiz, who were working in the Studio



Karl Polanyi (Cluj Hungarian University) - One of the 20th century canonical thinkers in political economy



Hermann Oberth (Cluj Romanian University) - One of the founders of rocketry and astronautics



Erwin Wittstock (Cluj Romanian University) - Influential writer, Doctor Honoris Causa of the University of Heidelberg



Abraham Wald (Cluj Romanian University) - One of the founders of the field of statistical sequential analysis

II. Honorary members of the UBB academic community (i.e., Doctor Honoris Causa), with global scientific and/or leadership contributions (selection)

• SCIENCE



Günter Blobel
Nobel Prize in Physiology – 1999



Richard Ernst
Nobel Prize in Chemistry – 1991



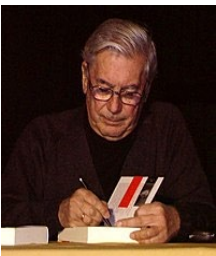
Stefan W. Hell
Nobel Prize in Chemistry – 2014



Sir Richard Timothy Hunt
Nobel Prize in Physiology – 2001



Jean-Marie Lehn
Nobel Prize in Chemistry – 1987



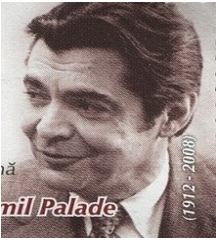
Mario Vargas Llosa
Nobel Prize in Literature – 2010



Emmanuel de Martonne
A leading international geographer, one of the founding fathers of geomorphology



Eric Maskin
Nobel Prize in Economic Sciences – 2007



Emil Palade
Nobel Prize in Medicine – 1974



Henri Poincaré
Famous mathematician, well known for Poincare conjecture



Jan Tinbergen
Nobel Prize in Economic Sciences-1969



Ahmed Zewail
Nobel prize in Chemistry – 1999

- **GLOBAL LEADERSHIP**



Angela Merkel, German Chancellor



Bartholomew I of Constantinople, the Ecumenical Patriarch



Charles, Prince of Wales



Joseph Ratzinger, Pope Benedict XVI