

CURRICULUM VITAE

Name: MATYAS, Gabor
 Academic title: Priv.-Doz. UZH Dr. sc. nat. ETH
 Year of birth: 1967
 Citizenship: Swiss (Zurich) and European Union (Republic of Hungary)
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EDUCATION

- 2005 – 2010
Specialist FAMH in Medical Genetics (*Spezialist für medizinisch-genetische Analytik FAMH*), Switzerland
- 2007 – 2008
Habilitation and *Venia Legendi* in Medical Molecular Genetics, University of Zurich, Switzerland
- 1996 – 1999
Ph.D. in Natural Sciences, Swiss Federal Institute of Technology Zurich, Switzerland
- 1994 – 1995
Postgraduate studies at the Swiss Federal Institute of Technology Zurich, Switzerland
- 1993 – 1994
Postgraduate studies at the University of Sopron, Hungary
- 1992 – 1993
Postgraduate studies at the Swiss Federal Institute of Technology Zurich, Switzerland
- 1986 – 1991
M.Sc. in Forestry (*summa cum laude*), University of Sopron, Hungary

POSITIONS, PROFESSIONAL EXPERIENCE

- **Head, Founding Director, Center for Cardiovascular Genetics and Gene Diagnostics**, Schlieren-Zurich, Switzerland, 2012 – until present.
- **Senior scientist / group leader**, University of Zurich, Institute of Medical (Molecular) Genetics (Prof. Dr. rer. nat. W. Berger), Schwerzenbach, Switzerland, 2003 – 2011:
Leading and supervision of gene diagnostics as well as principal investigator (PI) of research projects on the molecular bases of Marfan syndrome and related (aortic) disorders.
- **Postdoctoral Research**, University Children's Hospital (Prof. Dr. med. B. Steinmann), Zurich, Switzerland, 1999 – 2002:
Establishment of the molecular analysis of Marfan syndrome.
- **Doctoral Research**, Swiss Federal Research Institute WSL, Division Biodiversity, Birmensdorf, Switzerland, 1996 – 1999.
- **Research Assistant**, Swiss Federal Research Institute WSL, Division Biodiversity, Birmensdorf, Switzerland, 1994 – 1996.

TEACHING (University of Zurich)

- **Seminars** (English/German)
 - *Genetisches Literaturseminar und Diskussion wissenschaftlicher Arbeiten* (WS 2002/03 – HS 2011)
 - *Aktuelle Themen der medizinischen Genetik* (WS 2003/04 – FS 2010)
- **Lectures** (German)
 - *Mantelstudium Neurowissenschaften, Molekulare Medizin, Onkologie/Immunologie* (WS 2004/05 – HS 2011)
- **Course** (German)
 - *BIO408 Molekulare Humangenetik* (WS 2006/07 – HS 2010)
 - *BIO323 Modern Genetics and Genomics* (since HS 2013)
 - *Hereditäre Aortenkrankheiten* (HS 2015 – FS 2017)

THESIS SUPERVISION

- **Master students**
 - Completed theses 12× (1× *awarded by the University of Zurich*)
 - Ongoing thesis 1×
- **PhD/MD students**
 - Completed theses 6×
 - Ongoing thesis 1×

REVIEWER ACTIVITIES

• Invited reviewer for journals

Acta Biochimica et Biophysica Sinica, AJMG Part A, Analytical Biochemistry, Bioinformatics and Biology Insights, BioMed Research International, BMC Medical Genetics, BMC Medical Genomics, Cardiovascular Genetics, Cardiovascular Research, Case Reports in Genetics, Circulation, Circulation: Genomic and Precision Medicine, Clinical Chemistry, Clinical Genetics, Dataset Papers in Genetics, Disease Markers, European Journal of Cardio-Thoracic Surgery, European Journal of Human Genetics, European Journal of Medical Genetics, European Journal of Pediatrics, Expert Review of Molecular Diagnostics, Fetal Diagnosis and Therapy, Frontiers in Genetics, Genes, Genetic Syndromes & Gene Therapy, Genome Medicine, G3, Heart and Vessels, Human Genetics, International Journal of Biochemistry & Cell Biology, International Journal of Molecular Sciences, Journal of Genetic Syndromes & Gene Therapy, Journal of Medical Genetics, Journal of Vascular Research, Medicina, Medizinische Genetik, Methods in Molecular Biology, Molecular Cytogenetics, OMICS Group, Oncotarget, Scientific Reports, Swiss Medical Weekly

• Invited reviewer of grant proposals

Fondazione Telethon, F2E/Pasteur, Medical Research Council (Molecular and Cellular Medicine Board), NHLS Research Trust (South African Medical Research Council), Swiss National Science Foundation

SCHOLARSHIPS, PRIZES, AND AWARDS

- 2012 Prize of the *Rubin Fonds* of the Swiss Charity Award (best Swiss project)
- 2007 “*Marfan-Passage*” of the Swiss Marfan Foundation
- 2006 Nestlé Research Prize
- 1994 – 1995 Postgraduate scholarship from the Swiss government (*Bundes-Exzellenz-Stipendium*)
- 1991 Award for diploma from the University of Sopron, Hungary
- 1989 – 1991 Undergraduate scholarship (Hungarian Republic Scholarship)
- 1984 Paul Kitaibel Award (Hungarian National Biology Competition)

GRANTS

- 2011 – 2023 ◦ COFRA Foundation, Ebnet-Stiftung, Ernst Göhner Stiftung, Gebauer Stiftung
◦ G & J Bangerter-Rhyner-Stiftung, Prof. Otto Beisheim-Stiftung
◦ Wolfermann-Nägeli-Stiftung, Isaac Dreyfus-Bernheim Stiftung, and more
- 2008 – 2011 ◦ Swiss National Science Foundation, Jubiläumsstiftung Swiss Life
- 2007 ◦ Foundation for Research at the Medical Faculty of the University of Zurich
◦ Swiss Heart Foundation
- 2005 – 2006 ◦ Research Funding of the University of Zurich
◦ Swiss Heart Foundation

RESEARCH INTEREST

- **Main research interest:** Molecular basis of inherited forms of aortic aneurysm as well as pathogenesis and pharmacological therapy of Marfan syndrome and related disorders (e.g. Loeys-Dietz syndrome, familial thoracic aortic aneurysms and dissections, arterial tortuosity syndrome, Ehlers-Danlos syndrome vascular type, aneurysms-osteoarthritis syndrome).
- **Special fields of interests:** (Epi-)Genetics of rare monogenic disorders, such as Barth syndrome, dentatorubral-pallidoluysian atrophy, fragile X syndrome, Huntington disease, hereditary lymphedema, myotonic dystrophy type 1, Charcot-Marie-Tooth neuropathy, hereditary neuropathy with liability to pressure palsies, Noonan syndrome, Rett syndrome, hereditary nonsyndromic hearing loss and deafness, spinal muscular atrophy, spinal and bulbar muscular atrophy, spinocerebellar ataxias, as well as techniques to detect mutations and bioinformatics methods to assess unclassified sequence variants.

MEMBERSHIP

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| • European Board of Medical Genetics (EBMG) | European Registered Clinical Laboratory Geneticist |
| • European Society of Human Genetics (ESHG) | Full member |
| • Foederatio Analyticorum Medicinalium Helveticorum (FAMH) | Full member |
| • Foundation for People with Rare Diseases | Member of foundation and management boards |
| • University of Zurich / University of Berne | Senior Lecturer (Priv.-Doz.) / Adjunct Lecturer |
| • Swiss Society of Medical Genetics (SGMG) | Full member |
| • Zurich Center for Integrative Human Physiology (ZIHP) | Associated member |