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MEETING ABSTRACTS AND CONFERENCE PROCEEDINGS

1. Csonka M*, Meienberg J, Szlavik V, Turco V, Lamberti L, Stengl R, Hegedűs IZ, Ferenczi S, Kovacs KJ, Benke K, Szabolcs Z, Tóth V, **Mátyás G** (2026) GLP-1 analogue in hereditable aortopathy: Effects of liraglutide on the aortic wall in a murine model of vascular Ehlers–Danlos syndrome . Science in Spain, 12th International Symposium on Marfan, LDS, vEDS and Related Conditions, Barcelona, October 4-7, 2026. *oral presentation
2. Meienberg J, Caspar SM, Csonka M, Turco V, Szlavik V, Henggeler C, **Mátyás G** (2026) Rupture sensitivity, pharmacogenetic profiling and co-occurrence of hereditary aortopathies. Science in Spain, 12th International Symposium on Marfan, LDS, vEDS and Related Conditions, Barcelona, October 4-7, 2026.
3. Meienberg J*, Csonka M, Stengl R, Ferenczi S, Kovacs KJ, **Mátyás G** (2026) Manufacturer-specific effects of celiprolol in vEDS mice: Implications for clinical translation. Science in Spain, 12th International Symposium on Marfan, LDS, vEDS and Related Conditions, Barcelona, October 4-7, 2026. *oral presentation
4. Meienberg J, Dubacher N, Csonka M, Lamberti L, Sheppard MB, **Mátyás G** (2026) Losartan in MFS mice: Reduction of aortic dilatation but no improvement in aortic rupture force. Science in Spain, 12th International Symposium on Marfan, LDS, vEDS and Related Conditions, Barcelona, October 4-7, 2026.
5. Stengl R*, Csonka M, Meienberg J, Ferenczi S, Kovács KJ, Benke K, Szabolcs Z, Dézsi L, Szénási G, **Mátyás G** (2026) Intraluminal pressure at aortic rupture in a mouse model of vascular Ehlers-Danlos syndrome. Science in Spain, 12th International Symposium on Marfan, LDS, vEDS and Related Conditions, Barcelona, October 4-7, 2026. *oral presentation
6. Meienberg J, Csonka M, Stengl R, Ferenczi S, Kovacs KJ, **Mátyás G** (2026) Manufacturer-dependent variability of celiprolol in a vEDS mouse model: Implications for clinical translation. ESHG Hybrid Conference, Gothenburg, June 13-16, 2026.
7. Tomio G, Meienberg J, Obermühlner A, Marquis J, **Mátyás G** (2026) Beyond read length: Allelic imbalance in PacBio HiFi sequencing challenges clinical variant detection. ESHG Hybrid Conference, Gothenburg, June 13-16, 2026.
8. Meienberg J, Csonka M, Stengl R, Ferenczi S, Kovacs KJ, **Mátyás G** (2026) Preclinical evidence for manufacturer-specific effects of celiprolol in a vEDS mouse model. SGMG Annual Meeting with Young Investigator Day, Lausanne, April 23-24, 2026.
9. Tomio G, Meienberg J, Obermühlner A, Marquis J, **Mátyás G** (2026) Allelic imbalance in PacBio HiFi sequencing challenges clinical variant detection despite read length. SGMG Annual Meeting with Young Investigator Day, Lausanne, April 23-24, 2026.
10. Csonka M, Meienberg J, Stengl R, Ferenczi S, Kovács KJ, Benke K, Szabolcs Z, **Mátyás G** (2025) Effect of celiprolol in mice modeling vEDS. International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Toronto, September 17-21, 2025.

11. Meienberg J, Geilenkirchen R, Meisterhans S, Henggeler C, **Mátyás G** (2025) Impact of the kallikrein gene family in a Swiss cohort of patients with suspected connective tissue disorders. International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Toronto, September 17-21, 2025.
12. Stengl R, Csonka M, Meienberg J, Ferenczi S, Kovács KJ, Benke K, Szabolcs Z, **Mátyás G** (2025) Burst-pressure-based assay to assess the biomechanical properties of mice modeling vEDS. International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Toronto, September 17-21, 2025.
13. Tomio G, Meienberg J, Siegenthaler T, Cannizzaro C, Nicholson P, Krebs S, **Mátyás G** (2025) Evaluation of long-read whole genome sequencing technologies and tools for SV detection. ESHG Hybrid Conference, Milan, May 24-27, 2025.
14. Meienberg J*, Dubacher N, Sugiyama K, Smith JD, Nussbaumer V, Csonka M, Ferenczi S, Kovacs KJ, Caspar SM, Lamberti L, Yanagisawa H, Sheppard MB, **Mátyás G** (2025) Thoracic aorta in mouse models of hereditary aortic diseases: Losartan reduces aortic dilatation but has no effect on aortic rupture force in mice modeling Marfan syndrome. Basic Vascular Science Spring Meeting, Lucerne, May 23-24, 2025. *oral presentation
15. Meienberg J*, Caspar SM, Najafi A, **Mátyás G** (2025) Whole-genome sequencing reveals co-occurring hereditary (aortic) diseases and enables pharmacogenetic profiling. Basic Vascular Science Spring Meeting, Lucerne, May 23-24, 2025. *oral presentation
16. Meienberg J, Dubacher N, Sugiyama K, Smith JD, Nussbaumer V, Csonka M, Ferenczi S, Kovacs KJ, Caspar SM, Lamberti L, Yanagisawa H, Sheppard MB, **Mátyás G** (2025) Novel insights into the biomechanical properties of the aorta in mice modeling hereditary aortic diseases. SGMG Annual Meeting with Young Investigator Day, Zurich, April 10-11, 2025.
17. Mroczek M, Zorndt D, Meienberg J, Rejmer P, Henggeler C, Generali M, Baumgartner M, Häberle J, **Mátyás G** (2025) Heterozygous GAA case mimicking late-onset Pompe disease: In vitro assessment of the combination of genetic variants. SGMG Annual Meeting with Young Investigator Day, Zurich, April 10-11, 2025.
18. Tomio G, Meienberg J, Siegenthaler T, Cannizzaro C, Nicholson P, Krebs S, **Mátyás G** (2025) Evaluation and application of long-read whole genome sequencing for SV detection. SGMG Annual Meeting with Young Investigator Day, Zurich, April 10-11, 2025.
19. Chittim N, Hussien A, Dubacher N, **Mátyás G**, Snedeker JG (2025) Ciprofloxacin disrupts murine tendon structure and function with transcriptomic alterations that mimic the human tendinopathic phenotype and implicate nerve axis activation. Orthopaedic Research Society Conference, Phoenix, Arizona, February 7-11, 2025.
20. Mroczek M, Mensova L, Meienberg J, Rejmer P, Parmova O, Henggeler C, **Mátyás G** (2024) Three heterozygous GAA cases mimicking late-onset Pompe disease. 18th International Congress on Neuromuscular Diseases (ICNMD), Perth, Australia, October 25-29, 2024.
21. Tomio G*, Meienberg J, Siegenthaler T, Cannizzaro C, Nicholson P, Krebs S, **Mátyás G** (2024) Whole genome long-read sequencing in SV calling and variant phasing. Long-Rread Sequencing Uppsala (LRUA), Uppsala, October 21-23, 2024. *oral presentation
22. Meienberg J*, Tomio G, Siegenthaler T, Cannizzaro C, Nicholson P, Krebs S, **Mátyás G** (2024) Whole genome long-read sequencing in SV calling and variant phasing. Oxford Nanopore Technologies WYMM Tour, Zurich, October 22, 2024. *oral presentation
23. Mroczek M, Mensova L, Meienberg J, Rejmer P, Parmova O, Henggeler C, **Mátyás G** (2024) Three heterozygous GAA cases mimicking late-onset Pompe disease. Swiss Neurological Society Annual Meeting, Basel, June 6-7, 2024.

24. Meienberg J, Dubacher N, Csonka M, Sheppard MB, **Mátyás G** (2024) Losartan reduces aortic dilatation but does not affect aortic rupture force in MFS mice. ESHG Hybrid Conference, Berlin, June 1-4, 2024.
25. Tomio G, Meienberg J, Siegenthaler T, Nicholson P, Krebs S, **Mátyás G** (2024) PacBio Revio and ONT PromethION long-read sequencing in SV calling and variant phasing. ESHG Hybrid Conference, Berlin, June 1-4, 2024.
26. Meienberg J, Tomio G, Siegenthaler T, Nicholson P, Krebs S, **Mátyás G** (2024) Long-read sequencing in SV calling and variant phasing. SGMG Annual Meeting with Young Investigator Day, Bern, May 16-17, 2024.
27. Mroczek M, Mensova L, Meienberg J, Rejmer P, Parmova O, Henggeler C, **Mátyás G** (2023) Three heterozygous GAA cases mimicking late-onset Pompe disease. 14th Swiss Meeting on Muscle Research, December 3-5, 2023.
28. Meienberg J*, Tomio G*, Siegenthaler T, Nicholson P, **Mátyás G** (2023) Benefit of PacBio HiFi reads in CNV calling and variant phasing for WGS in clinical research. Revio Launch Day, Bern, November 27, 2023. *oral presentation
29. Csonka M, Schönholzer MT, Ferenczi S, Kovács KJ, Meienberg J, **Mátyás G** (2023) Dose-effect of celiprolol in mice modelling vEDS. ITINERARE 9th Rare Disease Summer School, Kartause Ittingen, Warth TG, July 4-7, 2023.
30. Csonka M, Schönholzer MT, Ferenczi S, Kovács KJ, Meienberg J, **Mátyás G** (2023) Dose-effect of celiprolol in mice modelling vEDS. ESHG Hybrid Conference, Glasgow, June 10-13, 2023.
31. Meienberg J, Caspar SM, **Mátyás G** (2023) Two in one: Pharmacogenetic profiling from whole genomes. ESHG Hybrid Conference, Glasgow, June 10-13, 2023.
32. Mroczek M, Mensova L, Meienberg J, Rejmer P, Parmova O, Henggeler C, **Mátyás G** (2023) Three heterozygous GAA cases mimicking late-onset Pompe disease. ESHG Hybrid Conference, Glasgow, June 10-13, 2023.
33. Tomio G, Saurer N, Meienberg J, **Mátyás G** (2023) The dark side of Moon and other commercial genome analysis or interpretation tools. ESHG Hybrid Conference, Glasgow, June 10-13, 2023.
34. Meienberg J*, Dubacher N, Münger J, Schönholzer MT, Ferenczi S, Kovács KJ, **Mátyás G** (2023) Added value of statins in the drug therapy of vascular Ehlers-Danlos syndrome. SGMG Annual Meeting with Young Investigator Day, Basel, April 27-28, 2023. *oral presentation
35. Meienberg J, Caspar SM, **Mátyás G** (2023) WGS-based personalized PGx profiling. SGMG Annual Meeting with Young Investigator Day, Basel, April 27-28, 2023.
36. Chittim N, Dubacher N, **Mátyás G**, Snedeker JG (2023) Tendinopathic changes to the murine patellar tendon in response to ciprofloxacin treatment. Orthopaedic Research Society Conference, Dallas, Texas, February 10-14, 2023.
37. Mroczek M, Meienberg J, Rejmer P, Henggeler C, Baumgartner MR, **Mátyás G** (2022) A case of atypical inheritance in late-onset Pompe disease. ASHG 2022, Los Angeles, October 25-29, 2022.
38. Dubacher N, Münger J, Ferenczi S, Kovács KJ, Schönholzer MT*, Meienberg J, **Mátyás G** (2022) Added value of statins in the treatment of vascular Ehlers-Danlos syndrome. International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Rome, September 14-17, 2022. *oral presentation
39. Dubacher N, Sugiyama K, Smith JD, Nussbaumer V, Caspar SM, Schönholzer MT, Meienberg J*, Yanagisawa H, Sheppard MB, **Mátyás G** (2022) Mechanical integrity of the thoracic aorta in mice modelling vEDS and related aortic diseases. International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Rome, September 14-17, 2022. *oral presentation

40. Stengl R, Dubacher N, Schönholzer MT, Ferenczi S, Meienberg J, Benke K, Szabolcs Z, **Mátyás G** (2022) Novel burst pressure read-out system to assess the biomechanical integrity of the murine aorta. International Scientific Symposium on the Ehlers-Danlos Syndromes and Hypermobility Spectrum Disorders, Rome, September 14-17, 2022.
41. Dubacher N, Sugiyama K, Smith JD, Nussbaumer V, Caspar SM, Schönholzer MT, Meienberg J*, Yanagisawa H, Sheppard MB, **Mátyás G** (2022) Insights into the biomechanical integrity of the aorta in mice modeling hereditary aortic diseases. Science in Paris featuring the VEDS Scientific Meeting, the International Symposium on Marfan Syndrome, LDS, and Related Conditions, and the GenTAC Aortic Summit, Paris, August 29 – September 1, 2022. *oral presentation
42. Meienberg J, Caspar SM, Stoll P, Fritzmann S, Gut G, Salerno D, **Mátyás G** (2022) ClinVar and HGMD variants in TAAD genes: You cannot interpret what you do not detect. Science in Paris featuring the VEDS Scientific Meeting, the International Symposium on Marfan Syndrome, LDS, and Related Conditions, and the GenTAC Aortic Summit, Paris, August 29 – September 1, 2022.
43. Schönholzer MT*, Dubacher N, Münger J, Ferenczi S, Kovács KJ, Meienberg J, **Mátyás G** (2022) Added value of statins in vascular Ehlers-Danlos syndrome. Science in Paris featuring the VEDS Scientific Meeting, the International Symposium on Marfan Syndrome, LDS, and Related Conditions, and the GenTAC Aortic Summit, Paris, August 29 – September 1, 2022. *oral presentation
44. Stengl R*, Dubacher N, Schönholzer MT, Ferenczi S, Meienberg J, Benke K, Szabolcs Z, **Mátyás G** (2022) Novel assay to assess the aortic rupture of mice modeling aortic diseases. Science in Paris featuring the VEDS Scientific Meeting, the International Symposium on Marfan Syndrome, LDS, and Related Conditions, and the GenTAC Aortic Summit, Paris, August 29 – September 1, 2022. *oral presentation
45. Brühwiler B, Koller S, Baehr L, Rohrbach M, Steiner B, Baumer A, **Mátyás G**, Kivrak Pfiffner F, Berger W, Gerth-Kahlert C (2022) Genotype-phenotype spectrum in patients with novel variants in the ADAMTSL4 gene. SOG Jahreskongress 2022, Basel, August 24-26, 2022.
46. Caspar SM, Stoll P, Fritzmann S, Gut G, Salerno D, Meienberg J, **Mátyás G** (2022) Whole-genome sequencing: The long and the short of it. ESHG Hybrid Conference, Vienna, June 11-14, 2022.
47. Dubacher N, Sugiyama K, Smith JD, Nussbaumer V, Caspar SM, Schönholzer MT, Meienberg J, Yanagisawa H, Sheppard MB, **Mátyás G** (2022) Aortic rupture force in mice modelling hereditary aortic diseases. ESHG Hybrid Conference, Vienna, June 11-14, 2022.
48. Caspar SM, Stoll P, Fritzmann S, Gut G, Meienberg J, **Mátyás G** (2022) You cannot interpret what you do not detect: How not to miss clinically-relevant ClinVar and HGMD variants. SGMG Annual Meeting 2022 and Young Investigator Day, Online Venue, April 7-8, 2022.
49. Caspar SM, Stoll P, Meienberg J, **Mátyás G** (2021) Need for speed in whole-genome sequencing data analysis: Benchmarking the new generation of alignment and variant calling tools. ESHG Virtual Conference, August 28-31, 2021.
50. Dubacher N*, Caspar SM, Meienberg J, **Mátyás G** (2021) New uses for old drugs: Added value of celiprolol and pravastatin in vascular EDS. ESHG Virtual Conference, August 28-31, 2021. *oral presentation
51. Caspar SM, Stoll P, Meienberg J, **Mátyás G** (2021) Whole-genome sequencing data analysis: Performance of novel ultra-fast alignment and variant calling tools. 5th Curating the Clinical Genome, Virtual Conference, May 12-14, 2021.
52. Dubacher N*, Caspar SM, Meienberg J, Mátyás G (2021) Drug repositioning: Added value of celiprolol and pravastatin in vascular EDS. 4th Scientific Meeting on Vascular Ehlers-Danlos Syndrome, Virtual Meeting, April 9, 2021. *oral presentation

53. Caspar SM*, Najafi A, Meienberg J, **Mátyás G** (2021) Clinical whole-genome sequencing: Co-occurring rare diseases and pharmacogenetic profiling. The Virtual World Conference on Rare Diseases (RARE2021), February 22-23, 2021. *oral and poster presentation
54. Dubacher N, Caspar SM, Meienberg J, **Mátyás G** (2021) From diagnosis to therapy: Novel approach reveals celiprolol as medical therapy of choice for vascular Ehlers-Danlos syndrome. The Virtual World Conference on Rare Diseases (RARE2021), February 22-23, 2021.
55. Dubacher N, Münger J, Gorosabel MC, Crabb J, Ksiazek AA, Caspar SM, Bakker E NTP, van Bavel E, Ziegler U, Carrel T, Steinmann B, Zeisberger S, Meienberg J, **Mátyás G** (2021) From diagnosis to therapy: Novel approach reveals celiprolol but not losartan and bisoprolol as medical therapy of choice for vascular Ehlers-Danlos syndrome. RE(ACT) Congress and IRDiRC Conference 2021, International Congress on Research of Rare and Orphan Diseases, Virtual Meeting, January 13-15, 2021.
56. Caspar SM, Najafi A, Meienberg J, **Mátyás G** (2021) New insights into clinical whole-genome sequencing: co-occurring rare diseases and pharmacogenetic profiling. SGMG Annual Meeting 2021, Online Venue, January 21-22, 2021.
57. Dubacher N*, Münger J, Gorosabel MC, Meienberg J, **Mátyás G** (2021) Medical therapy of vascular Ehlers-Danlos syndrome: challenging the paradigm of interchangeable antihypertensive drugs. SGMG Annual Meeting 2021, Online Venue, January 21-22, 2021. *oral presentation as finalist for the young investigator award.
58. Caspar SM*, Najafi A, Meienberg J, **Mátyás G** (2020) Clinical Whole-Genome Sequencing: Co-Occurring Fibrillinopathies and Pharmacogenetic Profiling. GenTAC Aortic Summit 2020 Virtual Conference, September 29, October 8-10, 2020. *oral presentation.
59. Dubacher N*, Münger J, Meienberg J, **Mátyás G** (2020) Novel Approach Reveals Celiprolol but not Losartan and Bisoprolol as Medical Therapy of Choice for Vascular Ehlers-Danlos Syndrome. GenTAC Aortic Summit 2020 Virtual Conference, September 29, October 8-10, 2020. *oral presentation.
60. Meienberg J, Caspar SM, Schneider T, **Mátyás G** (2020) Zusatznutzen der Ganzgenomsequenzierung: Pharmakogenetisches Profil. Careum Forum 2020, Zürich, 27. August, 2020.
61. Caspar SM, Najafi A, Meienberg J, Schneider T, Henggeler C, **Mátyás G** (2020) Added value of clinical whole-genome sequencing: Co-occurring rare diseases and pharmacogenetic profiling. ESHG 2020.2 Virtual Conference, June 6-9, 2020.
62. Dubacher N, Caspar SM, Meienberg J, **Mátyás G** (2020) Medical therapy of vascular Ehlers-Danlos syndrome: Challenging the paradigm of interchangeable antihypertensive drugs. ESHG 2020.2 Virtual Conference, June 6-9, 2020.
63. Caspar SM*, Niederberger D, **Mátyás G** (2020) Whole-Genome-Sequencing-Based Pharmacogenetic Profiling for Precision Medicine. Life Science Zurich Impact Conference, Zurich, February 3, 2020. *oral presentation.
64. Caspar SM*, Niederberger D, **Mátyás G** (2019) Pharmacogenetics from Whole Genomes: At the Leading Edge of Precision Medicine Using the Medication Safety Card. Swiss Genomics Forum Geneve, September 27, 2019. *oral presentation.
65. Caspar SM*, Niederberger D, **Mátyás G** (2019) Whole-Genome-Sequencing-Based Pharmacogenetic Profiling – Leading Edge of Precision Medicine. 15th Symposium of the ZIHP, Zurich, August 23, 2019. *oral presentation.
66. Dubacher N*, Münger J, Gorosabel MC, Crabb J, Ksiazek AA, Caspar SM, Bakker E NTP, van Bavel E, Ziegler U, Carrel T, Steinmann B, Zeisberger S, Meienberg J, **Mátyás G** (2019) Novel approach reveals celiprolol but not losartan as medical therapy for vascular Ehlers-Danlos syndrome − Lessons from a mouse model. ISACB + ISVTE 2019, Zurich, June 19-21, 2019. * Poster teaser.

67. Dubacher N, Münger J, Gorosabel MC, Crabb J, Ksiazek AA, Caspar SM, Bakker E NTP, van Bavel E, Ziegler U, Carrel T, Steinmann B, Zeisberger S, Meienberg J, **Mátyás G** (2019) Novel approach reveals celiprolol but not losartan as medical therapy for vascular Ehlers-Danlos syndrome. ESHG 2019, Gothenburg, June 15-18, 2019.
68. Caspar SM*, Meienberg J, Plüss M, Dubacher N, **Mátyás G** (2019) New Insights into the molecular diagnostics of rare (aortic) disorders in the current genomics era. SGMG General Assembly, Lausanne, April 4-5, 2019. *oral presentation.
69. Dubacher N*, Münger J, Gorosabel MC, Crabb J, Ksiazek AA, Caspar SM, Bakker E NTP, van Bavel E, Ziegler U, Carrel T, Steinmann B, Zeisberger S, Meienberg J, **Mátyás G** (2019) From diagnosis to therapy: novel approach reveals celiprolol but not losartan as medical therapy for vascular Ehlers-Danlos syndrome. SGMG General Assembly, Lausanne, April 4-5, 2019. *oral presentation.
70. Caspar SM, Najafi A, Dubacher N, Meienberg J, **Mátyás G** (2018) ExAC/gnomAD and the largest Swiss database of Marfan genomes reveal challenges in the diagnosis of fibrillinopathies. Central-Eastern European Marfan Symposium, Budapest, Hungary, October 26, 2018.
71. Meienberg J*, Dubacher N, Münger J, Gorosabel MC, Crabb J, Bakker E NTP, van Bavel E, Ziegler U, Zeisberger S, **Mátyás G** (2018) Candidate drug testing in a murine model of vascular Ehlers-Danlos syndrome using biomechanical integrity as novel read-out. International Symposium of the Ehlers-Danlos Syndromes, Ghent, Belgium, September 26-29, 2018. *oral presentation.
72. Meienberg J, Najafi A, Caspar SM, Rohrbach M, Steinmann B, **Mátyás G** (2018) New Insights into Fibrillinopathies and Pitfalls of Variant Filtering in the Current Genomics Era. 6th International Meeting on Aortic Diseases, Liège, Belgium, September 12-14, 2018.
73. Dubacher N, Meienberg J, Münger J, Gorosabel MC, Crabb J, Bakker E NTP, van Bavel E, Ziegler U, Zeisberger S, **Mátyás G** (2018) Candidate drug testing in murine models of aortic diseases using biomechanical integrity as novel read-out. 6th International Meeting on Aortic Diseases, Liège, Belgium, September 12-14, 2018.
74. Dubacher N, Münger J, Meienberg J, Crabb J, Bakker E NTP, van Bavel E, Ziegler U, Zeisberger S, **Mátyás G** (2018). Paving the way for assessing the effect of candidate drugs on the mechanical integrity of the murine aorta: A hitherto unprecedented read-out system. 14th Symposium of the ZIHP, Zurich, August 31, 2018.
75. Dubacher N, Münger J, Meienberg J, Crabb J, Bakker E NTP, van Bavel E, Ziegler U, Zeisberger S, **Mátyás G** (2018).Novel read-out system paves the way for assessing the effect of candidate drugs on the mechanical integrity of the aorta in murine models. 6th Rare Diseases Summer School, Kartause Ittingen, Warth TG, July 11-13, 2018.
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161. Gugerli F, Sperisen C, **Mátyás G**, Senn J, Anzidei M, Vendramin GG (2001) Molecular markers help to reveal postglacial re-colonisation routes of forest tree species in the Alpine Region. Interdisciplinary Mountain Research, Young Scientists Conference, Stilfserjoch/Stelvio National Park, Italy, September 25-28, 2001, Abstract no. 62.

162. **Mátyás G***, De Paepe A, Halliday D, Boileau C, Pals G, Steinmann B (2001) Evaluation and application of denaturing HPLC for mutation detection in Marfan syndrome. 6th International Symposium on Marfan Syndrome. Seattle, USA, August 12-13, 2001; *oral presentation.

163. **Mátyás G**, De Paepe A, Boileau C, Handford P, Pals G, Steinmann B (2001) Marfan syndrome: Mutation detection in the *FBN1* gene by DHPLC – A sensitivity study. 6th International Symposium on Marfan Syndrome. Seattle, USA, August 12-13, 2001.

164. **Mátyás G**, De Paepe A, Boileau C, Handford P, Pals G, Steinmann B (2000) Marfan syndrome: Mutation detection in the *FBN1* gene by DHPLC – A sensitivity study. Swiss Pediatric Research Meeting, Lausanne, Switzerland, November 30, 2000.

165. **Mátyás G,** Nuytinck L, De Paepe A, Halliday D, Handford P, Steinmann B (2000) Where is the Marfan mutation? Sensitivity study of denaturing HPLC (DHPLC) for routine mutation detection in the Marfan syndrome. EMBO course «Advanced Techniques in Molecular Medicine», Uppsala, Sweden, August 24-30, 2000.

INVITED ORAL PRESENTATIONS

1. Meienberg J*, **Mátyás G** (2025) Hereditary Aortic Diseases, Pharmacogenetic Profiling and Rupture Sensitivity. 33rd Semmelweis Symposium. Budapest, November 17, 2025. *oral presentation.
2. **Mátyás G** (2025) Polygenic Connective Tissue Diseases: Heritable Thoracic Aortic Aneurysms and Dissections (TAAD). 11. Dreiländertagung der D-A-CH Gesellschaften für Gefässchirurgie & 25. Unionstag der Schweizerischen Gesellschaft für Gefässkrankheiten. Luzern, Oktober 23, 2025.
3. **Mátyás G** (2019) Personalisierte Medizin und Gendiagnostik. Health Business School 2019, St. Gallen, März 6, 2019.
4. **Mátyás G** (2018) Differential Diagnostics of Marfan Syndrome and other Aortopathies with Genetic Background. Central-Eastern European Marfan Symposium, Budapest, Hungary, October 26, 2018.
5. **Mátyás G** (2017) Cardiac Genomics. Live-Symposium «Moderne Herzmedizin» des Herzzentrums Hirslanden, Zürich, September 21, 2017.
6. **Mátyás G** (2017) Genetic Evaluation of Aortopathies. 15. Zürcher Review Kurs in Klinischer Kardiologie, Zurich, April 8, 2017.
7. **Mátyás G** (2017) Rare Genomics am Zentrum für Kardiovaskuläre Genetik und Gendiagnostik. Genomics Board Hirslanden, Zürich, March 6, 2017.
8. **Mátyás G** (2016) Personalisierte Medizin und Gendiagnostik. Health Business School 2016, Schaffhausen, November 9, 2016.
9. **Mátyás G** (2016) Loeys-Dietz Syndrom Typ 5 (TGFB3-Mutation): Eine Differenzialdiagnose des Marfan Syndroms. Universitätsspital, Zürich, October 31, 2016.

10. **Mátyás G** (2016) Genetik beim Marfan-Syndrom: Hilfe für Diagnose und Differentialdiagnose. Echoforum Hirslanden, Zürich, February 2, 2016.
11. **Mátyás G** (2015) Mechanische Stabilität der Aorta im Mausmodell für EDS vaskulärer Typ (EDS IV). Universitätsspital, Zürich, October 19, 2015.
12. **Mátyás G** (2015) Verdacht auf MFS: Ein Update über die genetische Abklärung. Universitätsspital, Zürich, April 20, 2015.
13. **Mátyás G** (2014) Genetische Untersuchungen und Risikoprüfung anhand von Fallbeispielen. ASA/SVV Fortbildungsreihe «Genetik 2014», Modul 3: Umsetzung für Versicherungsmediziner, Underwriter und Versicherungsfachleute aus der Risiko- und Leistungsprüfung. Olten, November 20, 2014.
14. **Mátyás G** (2014) Rare Genomics at the Genetic Center of the Foundation for People with Rare Diseases. Interdisziplinäres Kolloquium Regenerative Medizin I, Universitätsspital, Zürich, October 28, 2014.
15. **Mátyás G** (2014) Aortenkrankheiten und Orphan Diseases. ASA/SVV Fortbildungsreihe «Genetik 2014», Modul 2: Lesen und Interpretation von genetischen Informationen. Olten, August 28, 2014.
16. **Mátyás G** (2014) Erfassung, Beschreibung und Bedeutung von Sequenzvarianten sowie Umgang mit Datenbanken. ASA/SVV Fortbildungsreihe «Genetik 2014», Modul 2: Lesen und Interpretation von genetischen Informationen. Olten, August 28, 2014.
17. **Mátyás G** (2014) Life Science Zurich Young Scientist Network (LSZYSN). Company Visit: Bio-Technopark. Schlieren, August 21, 2014.
18. **Mátyás G** (2014) Grundlagen und Terminologie von genetischen Untersuchungen. ASA/SVV Fortbildungsreihe «Genetik 2014», Modul 1: Basiswissen zur Genetik. Olten, May 22, 2014.
19. **Mátyás G** (2014) Ehlers-Danlos-Syndrom (EDS IV). Fortbildung Gefässmedizin, Universitätsspital, Zürich, May 13, 2014.
20. **Mátyás G** (2014) Genetische Aortenkrankheiten. Angiologische Kolloquien, Universitätsspital, Basel, April 29, 2014.
21. **Mátyás G** (2014) Marfan oder nicht Marfan, das ist hier die Frage. Echoforum Hirslanden, Zürich, March 18, 2014.
22. **Mátyás G** (2014) Genetische Abklärung zu medizinischen Zwecken. SIM Jahrestagung 2014. Olten, March 13, 2014.
23. **Mátyás G** (2013) Gendiagnostik, aller Anfang ist Forschung. Weiterbildung GSK, UCB “Orphan Disease”. Münchenbuchsee, December 4, 2013.
24. **Mátyás G** (2013) Genetic Aortic Diseases – Diagnosis and Therapy of Marfan Syndrome (MFS) and Related Aortic Diseases (AD). 16. Dreiländertagung, Angiologie 2013, Graz, Austria, September 17, 2013.
25. **Mátyás G** (2013) Novel insights into the molecular bases of Marfan syndrome (MFS) and related aortic diseases (AD). EMSN conference and Swiss Marfan Days, Zurich, September 3, 2013.
26. **Mátyás G** (2013) Genetische Abklärungen zu medizinischen Zwecken. 3. Forum Risikoprüfung in der Personenversicherung, Zurich-Adliswil, June 6, 2013.
27. **Mátyás G** (2013) Gendiagnostik von Marfan-Syndrom und verwandten Aortenkrankheiten. Fortbildung «Herzchirurgie», Basel, February 4, 2013.
28. **Mátyás G** (2013) Genetische Untersuchungen beim Menschen - eine gesellschaftliche Herausforderung. Einführung in die Gendiagnostik. ProGenom Forum, Zurich, January 22-23, 2013.
29. **Mátyás G** (2012) The role of geneticists in aortic diseases: Molecular genetic testing of aortic diseases in Switzerland. 2nd Swiss Russian Health Forum, Basel, September 11, 2012.
30. **Mátyás G** (2012) Gendiagnostik der Aortendissektion/Aortenerkrankungen. Symposium Erkrankungen der Aorta, University Hospital, Zurich, September 6, 2012.
31. **Mátyás G** (2012) Interdisziplinarität und Nachhaltigkeit am Zentrum für Kardiovaskuläre Genetik und Gendiagnostik. Strickhof Lindau, July 11, 2012.

32. **Mátyás G** (2012) Simplified characterization of large deletions using the PacBio sequencing platform (Workshop – Revealing the Genome through SMRT Biology: Discoveries and Applications). European Human Genetics Conference 2012, Nurnberg, Germany, June 23, 2012.
33. **Mátyás G** (2012) Genetic assessment in patients with a large aorta. 10. Zürcher Review Kurs in Klinischer Kardiologie, Zurich, April 20, 2012.
34. **Mátyás G** (2012) Gendiagnostik von Marfan-Syndrom und verwandten Aortenkrankheiten. Weiter- und Fortbildungs-Symposium «Molekulare Diagnostik», Zurich, March 8, 2012.
35. **Mátyás G** (2011) Genetik und Zukunft. Marfan-Tag, Aarau, October 1, 2011.
36. **Mátyás G** (2010) Genetische Abklärungsmöglichkeiten in der Schweiz. Ärzte Gesellschaft des Kantons Zürich AGZ, Zürich, December 6, 2010.
37. **Mátyás G** (2010) Gendiagnostik bei Marfan-Syndrom und ähnlichen Aortenaneurysma-Syndromen. Kinderspital Zürich, July 27, 2010.
38. **Mátyás G** (2009) Gendiagnostik des Marfan-Syndroms und verwandter Bindegewebskrankheiten. 28. Marfan-Tag, Aarau, September 5, 2009.
39. **Mátyás G** (2009) Molekulare Polkörperdiagnostik am Beispiel der myotonen Dystrophie Curschmann-Steinert. Kinderspital Zürich, March 4, 2009.
40. **Mátyás G** (2008) Molekulare Polkörperdiagnostik bei myotoner Dystrophie Curschmann-Steinert. University of Zurich, Schwerzenbach, Mai 15, 2008.
41. **Mátyás G** (2008) Genes, Genomes and Genetic Systems: Human Genetics. Swiss Federal Institute of Technology Zurich, Zurich, April 29, 2008.
42. **Mátyás G** (2008) Mutationsanalyse bei Patienten mit Marfan Syndrom und ähnlichen Befunden. Kinderspital Zürich, February 14, 2008.
43. **Mátyás G** (2007) Einblicke in die molekularen Ursachen des Marfan-Syndroms. Zentrum für Labormedizin, Kantonspital Aarau, November 8, 2007.
44. **Mátyás G** (2007) Variability in Marfan Syndrome and Related Disorders: Implication for Molecular Genetic Testing. European Marfan Support Network (EMSN) Meeting Berne, September 22, 2007.
45. **Mátyás G** (2007) Insights into the Molecular Basis of Marfan Syndrome. University Children's Hospital Zurich, September 18, 2007.
46. **Mátyás G** (2007) Insights into the Molecular Basis of Marfan Syndrome. Universitäts-Augenklinik Tübingen, Germany, May 15, 2007.
47. **Mátyás G**, Imboden M, Probst-Hensch N, Steinmann B, Berger W (2004) Recent tools for DNA extraction, mutation detection and SNP genotyping. International Swiss MedLab and 8th Alps Adria Congress, Lucerne, October 5-9, 2004.
48. **Mátyás G** (2004) Molekulare Diagnostik des Marfan-Syndroms - Suche nach der Nadel im Heuhaufen. 1. Schweizerische Stoffwechseltagung, Zurich, January 28, 2004.
49. **Mátyás G** (2002) Molecular Diagnosis of Marfan Syndrome. Centre Médical Universitaire, Genève, December 10, 2002.
50. **Mátyás G** (2002) Molecular Diagnosis of Marfan Syndrome. Institute of Medical Genetics, University of Zurich, Schwerzenbach, November 28, 2002.