CURRICULUM VITAE

Monika Göőz, M.D., Ph.D.
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Citizenship United States / Hungarian (dual citizenship)

Education

1991 M.D. Semmelweis University, Budapest, Hungary
Dissertation: Methods and possibilities of cochlear implantation.
Advisor: István Sziklai M.D.

2004 Ph.D. Semmelweis University, Budapest, Hungary
Thesis: Regulation of endogenous ouabain-like factor production in the adrenal gland and in volume expanded physiological and pathophysiological states.
Advisors: Miklós Tóth, M.D., Ph.D. and Katalin Szalay M.D., Ph.D., D.Sc.

Postdoctoral Training:

07/01/1998- 06/2001 **Postdoctoral Fellow**, Department of Medicine, Division of Gastroenterology, Medical University of South Carolina (MUSC), Charleston, SC

07/01/2001-10/2002 **Postdoctoral Fellow**, Department of Medicine, Division of Rheumatology, Medical University of South Carolina (MUSC), Charleston, SC

11/1/2002-06/2004 **Postdoctoral Fellow**, Department of Medicine, Division of Nephrology, MUSC, Charleston, SC

Positions and Employment

1987-1991 **Lecturer**, 2nd Department of Anatomy, Semmelweis University, Budapest, Hungary

1991 **Research Fellow**, 2nd Department of Anatomy, Semmelweis University, Budapest, Hungary

1993-1995 **Ph.D. Student**, 1st Department of Medicine, Semmelweis University, Budapest, Hungary

1995-1998 **Research Fellow**, Institute of Experimental Medicine, Hungarian Academy of Sciences, Budapest, Hungary

1995-1998 **Guest Researcher**, Department of Physiology, University of Oulu, Finland

1998-2001 **Postdoctoral Fellow**, Department of Medicine, Division of Gastroenterology, Medical University of South Carolina (MUSC), Charleston, SC

2001-2002 **Postdoctoral Fellow**, Department of Medicine, Division of Rheumatology, Medical University of South Carolina (MUSC), Charleston, SC

2002-06/2004	**Postdoctoral Fellow**, Department of Medicine, Division of Nephrology, MUSC, Charleston, SC
07/2004-06/2006	**Instructor**, Department of Medicine, Division of Nephrology, MUSC, Charleston, SC
07/2006-07/2010	**Assistant Professor**, Department of Medicine, Division of Nephrology, MUSC, Charleston, SC

Other Experience and Professional Memberships

2000	**Member**, American Physiological Society (APS)
2002	**Member**, American Association for Advancement of Science
2004	**Member**, International Society of Nephrology
2005	**Associate Member**, College of Graduate Studies, MUSC, Charleston, SC
2005-	**Ad hoc reviewer**: *Gut, Gastroenterology, American Journal of Medical Sciences, American Journal of Physiology-Renal, Kidney International*
2006	**Member**, Graduate Student Advisory Committee
8/2006-10/2007	**Member**, Veteran Administration (VA) Animal Subcommittee (IACUC), Ralph H Johnson VA Medical Center (VAMC)
10/2007-present	**Vice-Chair,** VA Animal Subcommittee (IACUC), Ralph H Johnson VAMC
10/2007-present	**Member**, VA Biosafety Subcommittee, Ralph H Johnson VAMC
2008	**Affiliate Member**, Hollings Cancer Center, Cancer Genes & Molecular Recognition Program, MUSC, Charleston, SC
2008	**Member**, Society of Clinical Research and Translational Early Scientists (SOCRATES, MUSC)
2008	**Member**, Southern Society of Clinical Investigators (SSCI)
2008	**Section Editor**: Molecular and Cellular Medicine, the American Journal of Medical Sciences
2008	**Grant reviewer**: Hungarian Science Foundation (OTKA)
2009	**Member**, American Society for Nephrology
2010	**Section co-editor:** Trainee Research Report, the American Journal of Medical Sciences
2010	**Editorial Board Member**: AJP-Renal Physiology
2010	**Ad hoc reviewer**: South Carolina Clinical and Translational Research Institute's Pilot Project Program

Honors/Awards:

1989	**Rector's Award** (1st prize), Semmelweis University, Budapest, Hungary
1989	**Student Research Day (**2nd prize) Semmelweis University, Budapest, Hungary
1990	**Rector's Award** (1st prize), Semmelweis University, Budapest, Hungary
1995	**Research Fellowship**, Hungarian Academy of Sciences
1998	**Humboldt Fellowship**, Humboldt Foundation, Germany
1998	**Eötvös Fellowship**, Ministry of Education, Hungarian Government
2000	**Poster of Distinction**: American Gastroenterology Association DDW Meeting
2001	**Poster of Distinction**: American Gastroenterology Association DDW Meeting
2010	**Nominee, Developing Scholar Award**, Medical University of SC

Foreign Languages

German preliminary language exam (1985)
Russian basic language exam (1986)
English preliminary exam [Oxford international] (1997)

Research Support

Present Support:

12/16/09-11/30/10 NIH/NIDDK ARRA supplement 3K01DK070054-05S1 PI
Title: Crosstalk among growth factors, ADAMs and integrins (post-doc salary support application)

06/01/05 – 11/30/10 NIH/NIDDK K01 DK070054-05 PI effort: 92%
Title: Crosstalk among growth factors, ADAMs and Integrins

12/01/08-11/30/10 Paul Teshan Research Fund DCI PI effort: 5%
Title: Role of ADAM-17/TACE in the development of chronic kidney disease

Pending Support:

NIH/NIDDK R01 (PI: Gooz)
Title: ADAM17 and Integrins in Chronic Kidney Disease PI effort: 50%

NIH/NIDDK R01 (PI: Bell) Co-Investigator effort: 10%
Title: EGF and TRPV Channels in Polycystic Kidney Disease

NIH/NIDDK R01 (PI: Smolka) Co-Investigator effort: 10%
Title: Mechanisms of *H. pylori*-induced hypochlorhydria

Completed Support:

07/2010 VA Research Enhancement Award Program (VA REAP)
Title: Kinase activation during A-II and bradykinin signaling in podocytes

07/2009 VA Research Enhancement Award Program (VA REAP) (Sumter: PI, Gooz: Mentor)
Title: Comparison of bradykinin and angiotensin-II induced signaling pathways in podocytes

07/01/08-06/30/09 DCI PI
Title: Role of ADAM-17/TACE in the development of chronic kidney disease: regulation of its activity by binding partners

01/01/08-12/31/08 ACS-IRG sub-award PI
Title: Role of TACE and integrins in *H. pylori*-induced gastric carcinogenesis

12/01/08-11/30/08 DCI PI
Title: Role of ADAM-17/TACE in the development of chronic kidney disease

04/01/07-03/31/08 DCI PI
Title: Crosstalk among growth factors, ADAMs and integrins

2006/2007 VA Research Enhancement Award Program (VA) Pilot project
Title: Role of ADAM17 in chronic kidney disease

07/1998-09/1998 Eötvös Fellowship, Hungarian Government PI
Title: Real-time monitoring of c-fos, c-jun expression in chromaffine cells: indirect effect of growth factors on adrenomedullin secretion.

1998 Humboldt Stipend, German Government PI
Title: Regulation of adrenomedullin secretion by paracrine mechanisms in the adrenal gland

Academic Committee Activities

8/2006-10/2007 Member of the VA Animal Subcommittee (IACUC), Ralph H Johnson VAMC
10/2007-present Vice-Chair of VA Animal Subcommittee (IACUC), Ralph H Johnson VAMC
10/2007-present Member of the VA Biosafety Subcommittee, Ralph H Johnson VAMC

Mentoring

Undergraduate

2001 **Maria Shaker** (Summer student) Co-Mentor
Brendon Steelman (Summer student) Co-Mentor

2006 **Rany Abdallah** (MD/PhD Student) Co-Mentor, class of 2010

2007 **Hannah Bell** (MD Student, NIH NIDDK Summer Health Professions Research Program) class of 2010
McKenzie Robison (high school student)
Jennifer A. von der Heiden (College of Charleston student) Co-Mentor
- Recipient of 1st Prize in MUSC Student Research Day Undergraduate II Poster category (2007),
- Finalist for APS undergraduate award: Experimental Biology 2008, Co-Mentor

2008 **Nicole Swavely** (MD Student, NIH NIDDK Summer Health Professions Research Program): class of 2011
- Recipient of Ralph H. Johnson VAMC Student Research Honorable Mention Certificate (2008)
- Chosen for oral presentation at the SSCI Southern Meeting (New Orleans, February, 2009)

Mamon Dey (volunteer, research specialist; now graduate student at USD California)
Invited for oral presentation at FASEB Experimental Biology May, 2009
Arindam Saha (PhD student) Co-Mentor (now Postdoctoral Fellow, USD California)
- Recipient of Ralph H. Johnson VAMC Student Research Honorable Mention Certificate (2008)
- Chosen for oral presentation at the AGA 2008, 2009 Meetings

2009 **Dezmond Sumter** (MD Student, NIH NIDDK Summer Health Professions Research Program, Minority Student)
- Recipient of VA REAP pilot project 2009 ($10,000)
- Poster presenter at the 2009 ASN Renal Week, San Diego, CA
- 2nd place in Clinical Prof/ Master category at MUSC Student Research Day 2009
- Recipient of Ralph H. Johnson VAMC Student Research Honorable Mention Certificate (2009)

Graduate

2004 **Henry Ayiku**, **MD**, NIH Training Fellow (now in private practice)

2004 **Sema Sivritas, MD**, Research Fellow (Co-Mentor) (now Clinical Fellow, Germany)

2006-2008 **Claudia L Rocha, Ph.D.** NIH Training Fellow (now Assistant Professor, Biology Department, The Citadel)
- Recipient of Ralph H. Johnson VAMC Student Research Honorable Mention Certificate (2007)

Graduate Student Advisory Committee

2006-2008 **Rany Abdallah,** M.D./Ph.D. Candidate, Department of Medicine, MUSC

2009 **Boglarka Banizs** M.D., Ph.D. Candidate, Semmelweis University, Budapest, Hungary

Major Research and Clinical Interests

Present
Major research interest: Inter-receptor crosstalk. Current research focuses on analyzing the role of integrins and matrix metalloenzymes (including the disintegrin and metalloenzyme ADAM group) in crosstalk between G-protein coupled receptors and receptor tyrosine kinases in (1) chronic kidney diseases; (2) in malignancies. In vivo studies involve characterization of adult bone marrow cells in the development and/or attenuation of kidney fibrosis; and feasibility of bone marrow cells as therapeutic tools in diabetic kidney disease.
Past
Previous research focused on effect of glucocorticoids on pulsatil growth hormone secretion; regulation of endogenous ouabain-like factor production in the adrenal gland and in volume expanded physiological and pathophysiological states; and *Helicobacter pylori* pathophysiology. Clinical research involved studying methods and possibilities of cochlear implantation; characterizing blood level of endogenous ouabain-like factor (OLF) in preterm versus mature newborns at birth; and characterizing blood level of endogenous OLF level in diabetic pregnant women.

Volunteer/ Community Service

2008- Judge, Low Country Science Fair (Trident Technical College, Charleston, SC)
2009- Contact person and Summer Research host for APS
2009- Judge, APS local science fair award
2009- Member, Hat Ladies, Charleston, SC (www.hatladies.org Volunteer for National Kidney Foundation, Muscular Dystrophy Association, and for the Preservation Society of Charleston)

Featured in professional publications/journals

1 20 2008 MUSC DOM Newsletter
1 21 2009 MUSC DOM Newsletter
4 17 2009 MUSC DOM Newsletter
5 19 2009 MUSC DOM Newsletter
6 1 2009 MUSC DOM Newsletter
11 1 2009 MUSC DOM Newsletter
5 19 2010 MUSC DOM Newsletter
6 16 2010 MUSC DOM Newsletter

The Physiologist- American Physiological Society

HCC Annual Report 2008
HCC Annual Report 2009

Bibliography

Dr Monika Göőz (maiden name **Beck)**

Scholarly Books and Monographs

(1) MD Dissertation:

Monika Beck: Methods and possibilities of cochlear implantation. Semmelweis University, Budapest, Hungary, 1991.

(2) PhD Thesis:

Monika Göőz: Regulation of endogenous ouabain-like factor production ion the adrenal gland and in volume expanded physiological and pathophysiological changes. Semmelweis University, Budapest, Hungary, 2004.

Chapters in Scholarly Books and Monographs

(1) Katalin Sz. Szalay, **Monika Beck** (1999): Introduction to the Endocrine System. In: "Molecular and Cellular Endocrine Pathology". Eds: I. Stefaneanu, H. Sasano, K. Kovacs, Chapman & Hall. pages: 1-15.

(2) Katalin Sz. Szalay **Monika Beck** (1999)**:** The production of ouabain-like factor (OLF) by the adrenal cortex and its role in the regulation of aldosterone synthesis. In: Current Topics in Steroid Research. Ed: R. Richard pages:127-135.

(3) Adam J Smolka, Andre Dubois, **Monika Göőz** (2000): *Helicobacter pylori* regulates transcription of the gastric proton pump α subunit gene. In: "Further Advances in Gastrointestinal Ulcer Disease". Eds: A. Terrano, S. Szabo. Biomed International Ltd. Tokyo, Japan, pages:45-50.

(4) Adam J Smolka, **Monika Göőz** (2002): Host-Specific *H. pylori* Inhibition of H,K-ATPase α subunit gene expression. In: "Mechanism and Consequences of Proton Transport". Eds: T. Urushidani, J.G. Forte, G. Sachs. Kluwer Academic Publisher Norwell, Massachusetts, pages:91-100.

(5) **Monika Göőz,** Maria Shaker, Pal Göőz, Adam J. Smolka (2002): Role of cytokines in *Helicobacter pylori*-induced gastric epithelial cell matrix metalloproteinase secretion and activation. In: "Mechanism and Consequences of Proton Transport". Eds: T. Urushidani, J.G. Forte, G. Sachs. Kluwer Academic Publisher Norwell, Massachusetts, pages:123-126.

Peer-Reviewed Publications

(1) Krisztina Krempels, **Monika Beck**, Jim D Neil, György M Nagy and Béla Halász: Pulsatil growth hormone secretion is markedly attenuated after adrenalectomy and can be restored with Dexamethasone. 1994. Endocrine 2: 937-942, 1994.

(2) **Monika Beck**, Katalin Sz. Szalay, György M Nagy, Miklos Tóth and Rudolf de Châtel: Production of ouabain by rat adrenocortical cells. Endocrine Research 22(4), 845-849, 1996.

(3) Katalin Sz. Szalay, **Monika Beck**, Miklos Tóth and Rudolf de Châtel: Interactions between ouabain, atrial natriuretic peptide, angiotensin-II and potassium: effects on rat zona glomerulosa aldosterone production. Life Sci 62(20):1845-1852, 1998.

(4) Andrea Jánossy, Evelyn Orsó, Katalin Sz. Szalay, Zsolt Jurányi, **Monika Beck**, Sylvester E. Vizi and GP Vinson: Cholinergic regulation of the rat adrenal zona glomerulosa. J Endocrinology 157:305-315, 1998.

(5) **Monika Göőz**, Charles H Hammond, Kellie A Larsen, Yurii Mukhin, Adam J Smolka: Inhibition of human gastric H,K-ATPase α-subunit gene expression by *Helicobacter pylori*. Am J Physiol 278:G981-G991, 2000.

(6) **Monika Göőz**, Pal Göőz, Adam J Smolka: Epithelial and bacterial metalloproteinases and their inhibitors in *Helicobacter pylori* infection of human gastric cells. Am J Physiol 281:G823-G832, 2001.

(7) **Monika Göőz**, Maria Shaker, Pal Göőz, Adam J. Smolka: Role of cytokines in *Helicobacter pylori*-induced gastric epithelial cell matrix metalloproteinase secretion and activation. Gut. 52(9):1250-6, 2003.

(8) **Monika Göőz,** Olli Vakkuri, Rudolf de Châtel, Katalin Sz. Szalay, Miklós Tóth: Elevated blood level of endogenous ouabain-like factor (OLF) in preterm versus mature newborns at birth. (Biol Neonate 2004 [Epub ahead of print]. Epub 2003 Nov 25.)

(9) **Monika Göőz,** Miklós Tóth, Olli Vakkuri, Adam J. Smolka, Pal Göőz, Rudolf de Châtel, Katalin Sz. Szalay: Endogenous ouabain-like factor (OLF) secretion is modulated by nicotinic mechanisms in rat adrenocortical cells. Life Sci 74 (17):2111-2128, 2004.

(10) Yurii H Mukhin, **Monika Göőz,** John R Raymond, Maria N Garnovskaya. Collagenases 2 and 3 mediate epidermal growth factor receptor transactivation by bradykinin B2 receptor in kidney cells. J Pharmacol Exp Ther. 2006 Sep;318(3):1033-43. Epub 2006 May 22.

(11) **Monika Göőz**, Pal Göőz, John R. Raymond: 5-HT_{2A} receptor induces ERK phosphorylation and proliferation through ADAM-17 (TACE) activation and HB-EGF shedding in mesangial cells. J Biol Chem. 2006 Jul 28;281(30):21004-12. Epub 2006 May 31.

(12) Arindam Saha, Charles H. Hammond, **Monika Göőz**, Adam J. Smolka. Interleukin 1β; Modulation of H,K-ATPase α subunit gene transcription in *Helicobacter pylori* infection. AJP Gastrointestinal and Liver Physiology 292(4):G1055-61, 2007.

(13) Reka Skoumal, Istvan Szokodi, Jani Aro, Gábor Földes G., **Monika Göőz,** Leila Seres, Balázs Sarman, Zoltán Lako-Futo, Lajos Papp, Olli Vuolteenaho, Juhani Lappaluoto, Rudolf de Chatel, Heikki Ruskoaho, Miklos Toth. Involvement of endogenous ouabain-like compound in the cardiac hypertrophic process in vivo. Life Sci. 2007 Mar 13;80(14):1303-10. Epub 2007 Jan 12.

(14) Arindam Saha, Charles H. Hammond, **Monika Göőz**, Adam J. Smolka. The role of Sp1 in IL-1β and *H. pylori*–mediated regulation of H,K-ATPase gene transcription. AJP Gastrointest Liver Physiol. 2008 Nov;295(5):G977-86. Epub 2008 Sep 4. PMC2584829

(15) Alexander Baldys, **Monika Göőz**, Mi-Hye Lee, John R Raymond Jr., Louis M. Luttrell, John R. Raymond. Essential role of c-Cbl in amphiregulin-induced trafficking and signaling of recycling epidermal growth factor receptor (EGFR). Biochemistry. 2009 Feb 24;48(7):1462-73. PMC2645952

(16) Pal Göőz, **Monika Göőz**, Aleksander Baldys, Stan Hoffman. ADAM-17 is required for the stabilization of newly developed microvessels. Biochem Biophys Res Commun. 2009 Feb 27;380(1):33-38. Epub 2009 Jan 14.

(17) Sonya D Coaxum, Maria N Garnovskaya, **Monika Göőz**, Aleksander Baldys, John R Raymond. Epidermal growth factor activates Na^+/H^+ exchange in podocytes through a mechanism that involves Janus kinase and calmodulin. Biochim Biophys Acta. 2009 Jul;1793(7):1174-81. Epub 2009 Mar 31.

(18) **Monika Göőz,** Pal Göőz. Role of ADAM proteases in kidney disease. Hypertonia & Nephrologia 2009; 13 (3):114-119. (in Hungarian)

(19) Hanna Bell, **Monika Göőz.** ADAM-17 is activated by mitogenic protein kinase ERK in a model of kidney fibrosis. Am J Med Sci. 339(2):105-107, 2010.

(20) **Monika Göőz.** The Enzyme That Does It All: ADAM-17. In: Critical Reviews in Biochemistry and Molecular Biology 45(2):146-169, 2010.

(21) Arindam Saha, Steffen Backert, Charles E. Hammond, **Monika Göőz*,** Adam Smolka**.** Role of CagL and ADAM-17 in *H. pylori*-mediated HKATPase gene repression. Gastroenterology 139(1):239-248, 2010. *Co-senior and co-communicating author

(22) Mamon Dey, Aleksander Baldys, Dezmond Sumter, Louis M. Luttrell, John R. Raymond, **Monika Göőz**. Bradykinin decreases podocyte permeability through metalloenzyme-dependent ZO-1 rearrangement and epidermal growth factor receptor activation. J Pharmacol Exp Ther 2010

(23) Stacey Steel, Robert Kolb, Monika Gooz, Courtney J. Haycraft, Kent T. Keyser, Lisa Guay-Woodford, P. Darwin Bell. Telomerase immortalization of principal cells from mouse collecting duct. (*Under revision* AJP-Renal)

(24) Rany T. Abdallah, Joo-Seob Keum, Hesham M. El-Shewy, Mi-Hye Lee, Bing Wang, **Monika Göőz**, Deirdre K. Luttrell, Louis M. Luttrell, and Ayad A. Jaffa: Plasma kallikrein promotes bradykinin-independent signaling in aortic vascular smooth muscle through direct activation of protease-activated receptors. (*Under revision* J Biol Chem).

(25) Pal Göőz, Waleed Twal, Shigeki Higashiyama, **Monika Göőz**. ADAM17 activation is regulated by β1 integrin in kidney mesangial cells. (*Under revision* J Biol Chem).

Submitted for publication:

(1) Zhi-Ren Zhang, Wen-Feng Chu, Binlin Song, **Monika Göőz**, Pal Göőz, Aleksander Baldys, Robert J. Kolb, Stacy Steele, Amber Houston, Courtney J. Haycraft, Grzegorz Owsianik, Bernd Nilius, John R. Raymond, Peter Komlosi, Phillip D. Bell. EGFR augments cell proliferation in polycystic kidney disease through activation of a novel ion channel. Submitted to J. Exp. Med.

In preparation:

1) Nicole Swavely, Pal Göőz, Richard Visconti, Sema Sivritas, Wayne Fitzgibbon, **Monika Göőz**. Inflammatory caspases are upregulated in renal fibrosis of obstructive kidney disease.

2) Dezmond Sumter, Mamon Dey, David Turner, Thomas Morinelli, John R. Raymond, **Monika Göőz.** Bradykinin and Angiotensin-II Induce Distinct Permeability Changes and Differentially Recruit Signaling Molecules in Podocytes.

Invited Talks

(1) Health Professionals in Biomedical Research. Workshop at SC HOSA State Leadership Conference, March 11-13, 2009, Charleston Convention Center, North Charleston, SC.

(2) Role of ADAM17 in Bradykinin-induced EGF Receptor Activation in Glomerular Podocytes in ADAMs and Other Proteases Symposium. FASEB Experimental Biology. April 18-22, 2009, New Orleans, LY

(3) Role of ADAM-17/TACE in the development of chronic kidney disease: regulation of its activity by binding partners. Research Roundtable, DCI Annual Meeting, October 14-17, 2009, Marco Island, FL

(4) Receptor mediated regulation of ADAM17 activation, NIH, March 19, 2010, Washington, DC.

(5) ADAM17: a new therapeutic target in diabetes. May 11, 2010, Folkhälsan Research Center at Biomedicum Helsinki, University of Helsinki, Finland.

(6) Invitation from Dr Hannah Abboud, Director of Nephrology, University of Texas Health Sciences Center, San Antonio, TX Fall 2010

Abstracts (86)

(1) **Beck, M**., Tóth, M., Nagy, Gy., Szalay, Sz. K. Development of an ouabain radioimmunoassay. Semmelweis Scientific Fair, April 27, 1995, Budapest.

(2) **Beck, M.**, Tóth M., de Châtel R., Nagy Gy., Sz. Szalay K. Do the adrenals produce ouabain? (Development of an ouabain radioimmunoassay for measurement of endogenous ouabain in human and rat adrenals.) 60th Congress of the Hungarian Physiology Society, July 6-8, 1995, Budapest.

(3) **M. Beck,** M. Tóth, R. de Châtel, Gy. Nagy, K. Sz. Szalay: Production of ouabain by human and rat adrenocortical cells (Development of an ouabain radioimmunoassay). ISGSH-XVII Meeting, November 26-28, 1995, Berlin, Germany.

(4) **Beck, M.,** M Tóth, R. de Châtel, K. Sz. Szalay: Ouabain production of rat adrenal gland. 4th Cell Biology Meeting, January 18-20, 1996, Visegrád, Hungary. Cell Biology International 20: 232. 1996. Abstract IF:1,067.

(5) **Beck, M.**, Sz. Szalay K., Szilágyi G., Tóth M., Nagy Gy., de Châtel R. Ouabain production of human and rat adrenocortical cells. Scientific Congress of the Hungarian Cardiologist Society, May 8-11, 1996, Balatonfüred, Hungary. Cardiologia Hungarica, Abstract, p.53. 1996.

(6) **Beck, M.,** K. Sz. Szalay, G. Szilágyi, Gy. Nagy, R. de Châtel, M.Tóth: Development of a radioimmunoassay for ouabain measurement and characterization of the ouabain production in rat adrenocortical cells. Joint Meeting of the Romanian and Hungarian Physiologists, July 1-2, 1996, Szeged, Hungary.

(7) A. Paci, **M. Beck**, M. Tóth, R. de Châtel, K. Sz. Szalay: Production of ouabain-like compound(s) by rat adrenocortical cells. Proceedings of the XVI International Congress of Clinical Chemistry p413 Edts. Martin SM, Halloran SP Abstract (XVI. International Congress of Clinical Chemistry, July 7-12, 1996, Wembley, London, U.K.)

(8) K. Sz. Szalay, **M. Beck**, G. Szilágyi, Gy. Nagy, M. Tóth, R. de Châtel: Production of ouabain by human and rat adrenocortical cells. 10th International Congress of Endocrinology, June 11-18, 1996, San Francisco, U.S.A.

(9) **M. Beck**, K. Sz. Szalay, G. M. Nagy, M. Tóth, R. de Châtel: Production of ouabain by rat adrenocortical cells. 7th Conference on the Adrenal Cortex, June 27-30, 1996, Crieff, Scotland.

(10) **Beck, M.,** A. Paci, M. Tóth, R. de Chatel, K. Sz. Szalay: Production of ouabain by rat adrenocortical cells. 5th Semmelweis Scientific Fair Budapest, September 26, 1996. Medical Science Monitor 1996. 2. Suppl. 3. p: 74.

(11) **M. Beck,** K. Sz. Szalay, G. M. Nagy, M. Tóth, R. de Châtel: Production of ouabain by rat adrenocortical cells. 6th Symposium on Analysis of Steroids, October 7-9, 1996, Szeged, Hungary.

(12) **Beck M**, Sz Szalay K, Szilágyi G, Nagy Gy, Tóth M, deChatel R Production of ouabain by human and rat adrenocortical cells. Cardiol Hung l996 S53 Abstract

(13) **Beck, M.**, K.Sz. Szalay, M. Tóth, R. de Châtel and G. Szilágyi: Ouabain secretion of human adrenals (normal and adenomatous) are regulated by extracellular potassium concentration 13. International Symposium of the Journal of Steroid Biochemistry & Molecular Biology, May 25-28, 1997, Monaco.

(14) Szalay, K.Sz., **M. Beck**, M. Tóth, R. de Châtel and G. Szilágyi: Effect of ouabain at different potassium concentrationon corticosteroid production of isolated rat zona glomerulosa-, zona fasciculata and human normal and adenomatous cells 13. International Symposium of the Journal of Steroid Biochemistry & Molecular Biology, May 25-28, 1997, Monaco.

(15) **Beck, M.**, K.Sz. Szalay, M. Tóth, R. de Châtel: The regulation of a new stress hormone: endogenous ouabain-like factor. "Stress of Life" Congress, July 1-5, 1997, Budapest, Hungary.

(16) Szalay, K.Sz, E. Orsó, A. Jánossy, **M. Beck**, I. Barna, F. Perner, T. Fehér, E. S. Vizi, G. P. Vinson: Regulation of adrenocortical steroid secretion besides ACTH. "Stress of Life" Congress, July 1-5, 1997, Budapest, Hungary.

(17) **Beck, M.**, R. de Châtel, I. Szokodi, K.Sz. Szalay, H. Ruskoaho, J. Leppaluoto, M. Tóth: Elevated Plasma levels of adrenomedullin and ouabain during the development of cardiac hypertrophy in rats. International Society for Heart Research North American Ann. Meeting, July 23-27, 1997, Vancouver, Canada.

(18) **Beck, M.**, R. de Châtel, I. Szokodi, K.Sz. Szalay, H. Ruskoaho, J. Leppaluoto, M. Tóth: Plasma adrenomedullin level is elevated in rats developing cardiac hypertrophy. NCI Adrenomedullin Symposium, September 3-5, 1997, Bethesda, Maryland, U.S.A.

(19) **Beck, M.**, Szalay, K.Sz., Tóth, M., de Châtel, R., Szilágyi, G.: Ouabain secretion of human adrenals (normal and adenomatous) are regulated by extracellular potassium concentration. VI. Semmelweis Scientific Fair, November 5-7, 1997, Budapest, Hungary. Abstract No.201, p.83.

(20) Szalay, K.Sz., **M. Beck**, M. Tóth, R. de Châtel and G. Szilágyi. Effect of ouabain on corticosteroid production of isolated rat zona glomerulosa-, zona fasciculata and human normal and adenomatous cells at different potassium concentrations. 6th Semmelweis Scientific Fair, November 5-7, 1997, Budapest, Hungary. Abstract No.205, p.85.

(21) **Beck M.** Endogenous ouabain, ion and water homeostasis and hypertension. Experimental Section of the Hungarian Cardiological Society, November 13, 1997.

(22) **Beck M**., de Châtel R., Szokodi I., Sz. Szalay K., Ruskoaho H., Leppaluoto J., Tóth M. Increased level of adrenomedullin and ouabain in rats during development of cardiac hypertrophy. Congress of the Hungarian Cardiologist Society, May 13-16, 1998 Balatonfüred, Hungary.

(23) **Beck M.**, Sz. Szalay K. Effect of nicotine on the adrenal ouabain and aldosterone secretion. Institute of Experimental Medicine Research Days, May 23, 1998, Budapest, Hungary.

(24) Némethy Zs., **Beck M**., Sz. Szalay K. Different effect of ouabain on intracellular Ca^{2+} content of rat adrenocortical zona glomerulosa and zona fasciculata cells. 1st Hungarian Congress of Cell Analysis, May 28-30, 1998, Budapest, Hungary.

(25) Szalay, KSz, Orsó, E, Jánossy, A., Jurányi Z., **Beck, M**., Vizi, E.S., Vinson, G.P: Cholinergic regulation of the rat adrenal zona glomerulosa. 80th Annual Meeting of the Endocrine Society, June 24-27, 1998, New Orleans, U.S.A.

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