

### PERSONAL INFORMATION **Attila Sebe**

#### WORK EXPERIENCE

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- October 2002-December 2007 **PhD student**  
Semmelweis University (Hungary)
- June 2003-February 2009 **Scientist**  
GenoID Ltd. (Hungary)
- October 2005-March 2006 **Postdoctoral Research Fellow**  
St. Michaels Hospital, University of Toronto (Canada)
- March 2009-June 2009 **Assistant Professor Research**  
Semmelweis University (Hungary)
- July 2009-June 2011 **Assistant Professor Research**  
Hungarian Academy of Sciences- Semmelweis University (Hungary)
- July 2011-August 2012 **Assistant Professor Research**  
Semmelweis University (Hungary)
- September 2012- Present **Scientist, Clinical Assessor**  
Paul Ehrlich Institute (Germany)

#### EDUCATION AND TRAINING

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- October 1996-September 2002 **MD**  
University of Medicine and Pharmacy Tirgu Mures (Romania)
- October 2002-December 2007 **PhD**  
Semmelweis University (Hungary)

#### ADDITIONAL INFORMATION

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- Expertise**
1. Pluripotent Stem Cells
  2. Fibrosis
  3. Metastasis

- Publications**
1. Terebessy T, Masszi A, Fintha A, Sebe A, Huszar T, Rosivall L, Mucsi I.  
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  2. Antus B, Sebe A, Fillinger J, Jeney C, Horvath I.  
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- J Heart Lung Transplant. 2006 Nov;25(11):1324-9.
3. Antus B, Fillinger J, Sebe A, Jeney C, Soltesz I, Horvath I.  
No gender difference in development of obliterative airway disease in rat tracheal allografts.  
Exp Mol Pathol. 2006 Dec;81(3):235-8.
4. Fan L\*, Sebe A\*, Peterfi Z, Masszi A, Thirone AC, Rotstein OD, Nakano H, McCulloch CA, Szaszi K, Mucsi I, Kapus A.  
\*- equal contribution  
Cell contact-dependent regulation of epithelial-myofibroblast transition via the rho-rho kinase-phospho-myosin pathway.  
Mol Biol Cell. 2007 Mar;18(3):1083-97.
5. Jeney C, Takacs T, Sebe A, Schaff Z.  
Detection and typing of 46 genital human papillomaviruses by the L1F/L1R primer system based multiplex PCR and hybridization.  
J Virol Methods. 2007 Mar;140(1-2):32-42.
6. Fintha A, Sebe A, Masszi A, Terebessy T, Huszar T, Rosivall L, Mucsi I.  
Angiotensin II activates plasminogen activator inhibitor-1 promoter in renal tubular epithelial cells via the AT1 receptor.  
Acta Physiol Hung. 2007 Mar;94(1-2):19-30.
7. Sebe A, Masszi A, Zulys M, Yeung T, Speight P, Rotstein OD, Nakano H, Mucsi I, Szaszi K, Kapus A.  
Rac, PAK and p38 regulate cell contact-dependent nuclear translocation of myocardin-related transcription factor.  
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8. Takacs T, Jeney C, Kovacs L, Mozes J, Benczik M, Sebe A.  
Molecular beacon-based real-time PCR method for detection of 15 high-risk and 5 low-risk HPV types.  
J Virol Methods. 2008 Apr;149(1):153-62.
9. Sebe A, Leivonen SK, Fintha A, Masszi A, Rosivall L, Kahari VM, Mucsi I.  
Transforming growth factor-beta-induced alpha-smooth muscle cell actin expression in renal proximal tubular cells is regulated by p38beta mitogen-activated protein kinase, extracellular signal-regulated protein kinase1,2 and the Smad signalling during epithelial-myofibroblast transdifferentiation.  
Nephrol Dial Transplant. 2008 May;23(5):1537-45.
10. Antus B, Fillinger J, Sebe A, Jeney C, Horvath I.  
Late treatment with angiotensin-converting enzyme inhibitors plus endothelin receptor antagonists ameliorates rat tracheal allograft rejection.  
Transpl Int. 2008 Aug;21(8):801-7.
11. Sebe A, Erdei Z, Varga K, Bodor C, Mucsi I, Rosivall L.  
Cdc42 regulates myocardin-related transcription factor nuclear shuttling and alpha-smooth muscle actin promoter activity during renal tubular epithelial-mesenchymal transition.  
Nephron Exp Nephrol. 2010;114(3):e117-25.
12. Szebenyi K, Erdei Z, Pentek A, Sebe A, Orban TI, Sarkadi B, Apati A.  
Human pluripotent stem cells in pharmacological and toxicological screening: new perspectives for personalized medicine.  
Pers Med. 2011 May; 8, (3): 347-364.
13. Bodor C, Nagy JP, Vegh B, Nemeth A, Jenei A, MirzaHosseini S, Sebe A, Rosivall L.  
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Am J Physiol Cell Physiol. 2012 Jan;302(1):C267-76.
14. Fintha A, Gasparics A, Fang L, Erdei Z, Hamar P, Mozes MM, Kokeny G, Rosivall L, Sebe A.  
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Am J Pathol. 2013 Feb;182(2):388-400.
15. Grabundzija I\*, Wang J\*, Sebe A\*, Erdei Z, Kajdi R, Devaraj A, Steinemann D, Szuhai K, Stein U, Cantz T, Schambach A, Baum C, Izsvak Z, Sarkadi B, Ivics Z.  
\*- equal contribution

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17. Klawitter S, Fuchs NV, Upton KR, Munoz-Lopez M, Shukla R, Wang J, Garcia-Canadas M, Lopez-Ruiz C, Gerhardt DJ, Sebe A, Grabundzija I, Merkert S, Gerdes P, Pulgarin JA, Bock A, Held U, Witthuhn A, Haase A, Sarkadi B, Lower J, Wolvetang EJ, Martin U, Ivics Z, Izsvak Z, Garcia-Perez JL, Faulkner GJ, Schumann GG.

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18. Sebe A, Ivics Z.

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19. Friedel T, Jung-Klawitter S, Sebe A, Schenk F, Modlich U, Ivics Z, Schumann GG, Buchholz CJ, Schneider IC.

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20. Gasparics A, Rosivall L, Krizbai IA, Sebe A.

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Am J Physiol Heart Circ Physiol. 2016 May 1;310(9):H1055-63.

21. Voigt F, Wiedemann L, Zuliani C, Querques I, Sebe A, Mates L, Izsvak Z, Ivics Z, Barabas O.

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Nat Commun. 2016 Mar 30;7:11126. IF: 11,329\*

22. Varga N, Mozes J, Keegan H, White C, Kelly L, Pilkington L, Benczik M, Zsuzsanna S, Sobel G, Koiss R, Babarczy E, Nyiri M, Kovacs L, Sebe A, Kaltenecker B, Geresi A, Kocsis A, O'Leary J, Martin CM, Jeney C.

The Value of a Novel Panel of Cervical Cancer Biomarkers for Triage of HPV Positive Patients and for Detecting Disease Progression.

Pathol Oncol Res. 2017 Apr;23(2):295-305.

23. Jung-Klawitter S, Blau N, Sebe A, Ebersold J, Gohring G, Opladen T.

Generation of an iPSC line from a patient with tyrosine hydroxylase (TH) deficiency: TH-1 iPSC Stem Cell Res. 2016 Oct 26;17(3):580-583.

24. Winterhoff BJ, Maile M, Mitra AK, Sebe A, Bazzaro M, Geller MA, Abrahante JE, Klein M, Hellweg R, Mullany SA, Beckman K, Daniel J, Starr TK.

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Preclinical evaluation of a cell-based gene therapy using the Sleeping Beauty transposon system in choroidal neovascularisation  
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32. Kesselring L, Miskey C, Zuliani C, Querques I, Kapitonov V, Lauko A, Feher A, Palazzo A, Diem T, Lustig J, Sebe A, Wang Y, Dinnyes A, Izsvak Z, Barabas O, Ivics Z.  
A single amino acid switch converts the Sleeping Beauty transposase into an efficient unidirectional excisionase with utility in stem cell reprogramming.  
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33. Sebe A, Anliker B, Rau J, Renner M.  
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Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz. 2020 Nov;63(11):1403-1411.
34. Anliker B, Childs L, Rau J, Renner M, Schule S, Schuessler-Lenz M, Sebe A.  
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CRISPR J. 2022 Jun;5(3):364-376.
35. Miskey C, Botezatu L, Temiz NA, Gogol-Doring A, Bartha A, Gyorffy B, Largaespada DA, Ivics Z, Sebe A.  
In Vitro Insertional Mutagenesis Screen Identifies Novel Genes Driving Breast Cancer Metastasis.  
Mol Cancer Res. 2022 Oct 4;20(10):1502-1515.

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