

CURRICULUM VITAE

PRESENT AND PREVIOUS POSITIONS

- Chairman, Department of Dermatology and Allergology University of Szeged (full time): 1992-
- Director, Research Institute of Translational Biomedicine (part time): 2018-
- Post doc, Department of Dermatology, Ludwig Maximilians University of Munich Humboldt Fellowship (full time): 1990-91
- Dermatology resident, Department of Dermatology and Allergology University of Szeged (full time): 1983-

LICENSES:

- Dermatology, venerology and cosmetology 1987
- Clinical immunology and allergology 1993

SCIENTIFIC DEGREES:

- | | |
|---|------|
| ▪ Member of the Hungarian Academy of Sciences | 2019 |
| ▪ DSc | 1998 |
| ▪ Med. habil. | 1996 |
| ▪ Assistant professor | 1992 |

SCIENTIFIC ACTIVITIES:

- | | |
|-------------------------|------|
| ▪ original publications | 440 |
| ▪ citations | 9659 |
| ▪ Hirsch-index | 43 |
| ▪ patent applications: | 39 |
| ▪ Approved patents: | 15 |

SPECIAL INTERESTING:

- **Immunsystem of skin**
- **Microbiome in the skin**
- **Inflammatory skin diseases,**
- **Photodermatology**

UNIVERSITY PUBLIC ACTIVITIES:

- 2014-2018 President of the Innovational Committee of the University of Szeged
- 2014-2018 Vice Rector for science and innovation of the University of Szeged
- 2013- Member of the Doctoral Committee of the Faculty of Medicine of the University of Debrecen
- 2010- University of Szeged, Doctoral Council member (Clinical medical sciences)

- 2007- Head of the Clinical Medicine Doctoral School, University of Szeged
- 2007- President of the Strategic Committee of the Albert Szent-Györgyi Medical Center of the University of Szeged
- 2006-2014 Vice Dean of the Medical Faculty of the University of Szeged

AWARDS:

- 2019 Elected Member of the Academia Europaea
- 2019 Elected Member of the Hungarian Academy of Sciences
- 2018 ILDS Certificate of Appreciation for International Leadership Award, awarded by the International League of Dermatological Societies (ILDS)
- 2018 Jedlik Anyos Award, awarded by the Hungarian Intellectual Property Office
- 2017 Leo-von-Zumbusch Gedachtnisvorlesung, awarded by the LM University Munich
- 2014 Dermopharmazie-Innovationspreis (DIP), awarded by the Gesellschaft der Dermatopharmazie, Germany
- 2011 Kaposi Award, awarded by the Hungarian Dermatological Society
- 2010 Otto-Braun-Falco Medal, awarded by the Deutsche Dermatologische Gesellschaft
- 2010 Batthyány-Strattmann Award, awarded by the Hungarian Ministry of Health
- 2010 Academic Award, awarded by the Hungarian Academy of Sciences,
- 2008 XVI. Innovation Grand Prize, awarded by the Hungarian Association for Innovation
- 2004 Novicardin Award, awarded by the Hungarian Academy of Sciences
- 1998 Paul-Martini Award
- 1996 Hermal Award, awarded by the Deutsch-Ungarischen Dermatologischen Gesellschaft
- 1993 Academical Award for Young Researchers, awarded by the Hungarian Academy of Sciences
- 1992 István Cserhádi Memorial Medal and Award, awarded by the University of Szeged
- 1992 Emanuele Stabulum prize, International Competition for Dermatologists

DOMESTIC PROFESSIONAL PUBLIC ACTIVITIES:

- 2018- Board member of Markusovszky Foundation
- 2003- Board member of the Hungarian Dermatological Society
2008-2010 President of the Hungarian Dermatological Society
- 2002- Board Member of the Hungarian Allergological and Immunological Society
- 2010-2016 Board member of the Hungarian Society of Personalized Medicine
- 2001- Board Member of the Hungarian Dermatological Society
2010-2012 President of the Hungarian Immunological Society

INTERNATIONAL PROFESSIONAL PUBLIC ACTIVITIES:

- 2012- Board member of UEMS European Board of Dermato-Venerology
- 2011- Member of René Tourine Foundation Scientific Committee
- 2012-2018 Board member of European Academy of Dermatology and Venerology
- 2004-2008 Board member of European Dermatology Forum
- 2000-2004 Board member of European Immunodermatological Society
- 2004- Corresponding member of the Deutsche Dermatologische Gesellschaft (German Dermatologic Society), 2016- Ehrenmitglied
- 1998-2002 Hungarian president of the German-Hungarian Scientific Committee
- 1996-1999 Board member of European Society for Dermatological Research (ESDR)
- 1996-1999 President of the ESDR Eastern European Committee
- Editorial board memberships in the following journals: Skin Pharmacology and Physiology, Dermato-Endocrinology, Hautarzt, Journal of Dermatological Treatment, Case Reports in Dermatology, Ceska Dermatovenerologie, Session editor „inflammation” of the Journal of European Academy of Dermatovenereology,

CARRIER-RELATED PUBLIC ACTIVITIES:

- 2018- Head of the Clinical Research Committee of the Hungarian Academy of Science
- 2016- Head of the Advisory Board of the János Bolyai János Research Fellowship of the Hungarian Academy of Sciences
- 2018- Member of the Hungarian Accreditation Committee
- 2014- Member of the Life Science Work Group of the National Research Infrastructure Survey and Roadmap
- 2014- Member of the Scientific and Research Ethics Committee of the Medical Research Council, Hungary
- 2011-2017 Secretary of No. II Doctor's Committee of Hungarian Academy of Sciences
- 2009-2010 Board member of the „Committee supervising the research and therapeutic use of embryonic and tissue stem cells” Medical Sciences Section of the Hungarian Academy of Sciences
- 2007-2011 Hungarian Scientific Research Fund (OTKA), Life Sciences Board, Review Board Member

SCIENTIFIC DISCOVERIES

The members of the Kemeny group had highly important discoveries in the field of skin pathophysiology. They could show that human keratinocytes express different pattern recognition receptors, and activation of these receptors are responsible for the symptoms in inflammatory skin diseases. They introduced the excimer laser technology into dermatology that is now used worldwide for the treatment of different skin diseases. More than 2 Million patients with skin diseases have been treated with this technology to date.

IMPORTANT FUNCTIONS AND ACADEMIC BODIES

Dr Kemeny has been an active board member of all four major European dermatological societies, thereby demonstrated his ability to contribute to various organizations and societies as a member and leader. He showed dedication to his assignments and has shown commitment to academic activities. Currently, he is the Head of the Clinical Research Committee of the Hungarian Academy of Sciences (HAS), and the head of the Advisory Board of the János Bolyai Research Fellowship of HAS, thereby he is responsible for selection candidates for the different fellowships. He was the supervisor of 14 PhD students, four of his previous students are now group leaders in different laboratories.

Selected papers:

BASIC RESEARCH. Description toll-like receptors in keratinocytes, their role in skin physiology and pathophysiology.

1. Megyeri K, Orosz L, Bolla S, Erdei L, Razga Z, Seprenyi G, Urban E, Szabo K, Kemeny L: Propionibacterium acnes induces autophagy in keratinocytes: involvement of multiple mechanisms. JOURNAL OF INVESTIGATIVE DERMATOLOGY 138:(4) pp. 750-759. (2018) Discovery that P. acnes induces autophagy in keratinocytes. Cited by 8.

2. Szabó K , Erdei L , Bolla BS , Tax G , Biró T , Kemeny L: Factors shaping the composition of the cutaneous microbiota. Br J Dermatol 176: 344-351 (2017), A comprehensive review on the effect of microbiome in skin physiology. Cited by 12.

3. Nagy I, Pivarcsi A, Kis K, Koreck A, Bodai L, McDowell A, Seltmann H, Patrick S, Zouboulis CC, Kemeny L: Propionibacterium acnes and lipopolysaccharide induce the expression of antimicrobial peptides and proinflammatory cytokines/chemokines in human sebocytes. MICROBES AND

INFECTION 8:(8) pp. 2195-2205. (2006) Discovery that *P. acnes* modulates the functions of sebocytes. Cited by 231.

4. Nagy I, Pivarcsi A, Koreck A, Széll M, Urbán E, Kemény L: Distinct strains of *Propionibacterium acnes* induces selective human beta-defensin-2 and interleukin-8 expression in human keratinocytes through Toll-like receptors. *JOURNAL OF INVESTIGATIVE DERMATOLOGY* 124:(5) pp. 931-938. (2005) Discovery that different *P.acnes* strains have different effects on immune cells. Cited by 241.

5. Pivarcsi A, Nagy I, Koreck A, Kenderessy-Szabó A, Széll M, Dobozy A, Kemény L: Microbial compounds induce the expression of pro-inflammatory cytokines, chemokines and human beta-defensin-2 in vaginal epithelial cells. *MICROBES AND INFECTION* 7:(9-10) pp. 1117-1127. (2005) Discovery that microbial compounds affects the immune functions of vaginal epithelial cells. Cited by 110.

6. Pivarcsi A, Bodai L, Rethi B, Kenderessy Szabo A, Koreck A, Szell M, Beer Z, Bata Csorgo Z, Magocsi M, Rajnavolgyi E, Dobozy A, Kemeny L: Expression and function of Toll-like receptors 2 and 4 in human keratinocytes. *INTERNATIONAL IMMUNOLOGY* 15:(6) pp. 721-730. (2003) Discovery that human epithelial cells have functional toll-like receptors. Cited by 275.

TRANSLATIONAL RESEARCH. Identification of new treatment targets and development of new treatments for skin diseases

7. Manczinger M, Bodnar V, Papp BT, Bolla BS, Szabo K, Balazs B, Csanyi E, Szel E, Eros G, Kemeny L: Drug repurposing by simulating flow through protein-protein interaction networks. *CLINICAL PHARMACOLOGY & THERAPEUTICS* 103:(3) pp. 511-520. (2018) Development of a new method to find new treatment for skin diseases. Cited by 2.

8. Koreck AI, Csoma Z, Bodai L, Ignacz F, Kenderessy AS, Kadocsa E, Szabo G, Bor Z, Erdei A, Szony B, Homey B, Dobozy A, Kemeny L: Rhinophototherapy: A new therapeutic tool for the management of allergic rhinitis. *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY* 115:(3) pp. 541-547. (2005) Development of a new, patented device and method for the treatment of allergic rhinitis. Cited by 56.

9. Baltás E, Csoma Zs, Ignacz F, Dobozy A, Kemény L: Treatment of vitiligo with the 308 nm xenon-chloride excimer laser. *ARCHIVES OF DERMATOLOGY* 138 (12) 1619-1921 (2004) Development of new treatment for vitiligo. Cited by 92.

10. Novák Z, Bónis B, Baltás E, Ocsóvszki I, Ignácz F, Dobozy A, Kemény L: Xenon chloride ultraviolet B laser is more effective in treating psoriasis and inducing T cell apoptosis than narrow-band ultraviolet B. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 67:(1) pp. 32-38. (2002) Development of a new treatment for psoriasis, and explanation for its high efficacy. Cited by 125.