

Jakub Jankowski, PhD

Current Positions

2023 – Present **Postdoctoral Visiting Fellow**
Section of Genetics and Physiology
Laboratory of Cellular and Molecular Biology
NIDDK/NIH
Bethesda, Maryland 20892

Former Positions

2020 - 2023 **Predocctoral Visiting Fellow**
NIH Graduate Partnership Program (GPP)
Section of Genetics and Physiology
Laboratory of Cellular and Molecular Biology, NIDDK/NIH

2019 - 2020 **Laboratory Assistant**
Unit of Physiology, Pathophysiology and Experimental Endocrinology,
University of Veterinary Medicine, Vienna, Austria

2015 - 2018 **Visiting Fellow**
Division of Nephrology, School of Medicine,
University of Virginia, VA, USA

2013 - 2015 **Trainee**
Department of Cancer Diagnostics and Immunology,
Poznan University of Medical Sciences, Poznan, Poland

Education

University of Veterinary Medicine Vienna – Doctorate, Genetics, 2022

Poznan University of Medical Sciences – MSc, Medical Biotechnology, 2016

Poznan University of Medical Sciences – BSc, Medical Biotechnology, 2013

Medical and/or Scientific Societies

American Society of Nephrology – Member, 2015 – present

Leadership Roles & Activities

NIDDK Fellows' Advisory Board, Chair of the Advertising Committee, 2022 – present

19th Annual NIDDK Scientific Conference, Organizer, 2024

18th Annual NIDDK Scientific Conference, Organizer, 2023

Honor, Awards, and Recognitions

Guest lecture: NHLBI/NIH, Epithelial Systems Biology Laboratory Meeting, 2024

Guest lecture: Georgetown University, Bioinformatics Seminar Series I, 2023

Guest lecture: Technical University of Munich, Bioinformatics Course inauguration, 2023

NIH Fellows Award for Research Excellence ([FARE](#)), 2023

NIH Fellows Award for Research Excellence ([FARE](#)), 2022

NIH Graduate Partnership Program ([GPP](#)) Fellowship, 2020-2023

Visiting Research Graduate Traineeship Program ([BioLAB](#)) Fellowship, 2015 – 2017

Journal Editing & Manuscript Reviews

As an Ad Hoc Reviewer:

Communications Biology

Clinical and Translational Medicine

Bibliography

ORCID: [0000-0002-1661-079X](https://orcid.org/0000-0002-1661-079X)

Peer-reviewed publications:

1. Hoffmann M., Schwartz L., Ciora O.A., Trummer N., Willruth L.L., **Jankowski J.**, Lee H.K., Baumbach J., Furth P.A., Hennighausen L., List M. circRNA-sponging: a pipeline for extensive analysis of circRNA expression and their role in miRNA sponging *Bioinformatics Advances*, 2023 Jul. 8; Volume 3, Issue 1, 2023, vbad093; DOI: [10.1093/bioadv/vbad093](https://doi.org/10.1093/bioadv/vbad093)
2. Hoffmann M., Trummer N., Schwartz L., **Jankowski J.**, Lee H.K., Willruth L.L., Lazareva O., Yuan K., Baumgarten N., Schmidt F., Baumbach J., Schulz M.H., Blumenthal D.B., Hennighausen L., List M. TF-Prioritizer: a Java pipeline to prioritize condition-specific transcription factors *GigaScience*, 2023 May 3; Volume 12, 2023, giad026; DOI: [10.1093/gigascience/giad026](https://doi.org/10.1093/gigascience/giad026)
3. **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. JAK inhibitors dampen activation of interferon-activated transcriptomes and the SARS-CoV-2 receptor ACE2 in human renal proximal tubules, *iScience*, 2021 Aug 20; 24(8):102928; DOI: [10.1016/j.isci.2021.102928](https://doi.org/10.1016/j.isci.2021.102928)
4. Wilflingseder J., Willi M., Lee H.K, Olauson H., **Jankowski J.**, Ichimura T., Erben R., Valerius M.T., Hennighausen L., Bonventre J.V. Enhancer and super-enhancer dynamics in repair after ischemic acute kidney injury, *Nat Commun.* 2020 Jul 7; 11(1):3383; DOI: [10.1038/s41467-020-17205-5](https://doi.org/10.1038/s41467-020-17205-5)
5. Gąbka-Buszek A., Kwiatkowska-Borowczyk E., **Jankowski J.**, Kozłowska AK., Mackiewicz A. Novel Genetic Melanoma Vaccines Based on Induced Pluripotent Stem Cells or Melanosphere- Derived Stem-Like Cells Display High Efficacy in a Murine Tumor Rejection Model Vaccines (Basel), 2020 Mar 26; 8(2):147; DOI: [10.3390/vaccines8020147](https://doi.org/10.3390/vaccines8020147)
6. **Jankowski J.**, Perry H.M., Medina C.B., Huang L., Yao J., Bajwa A., Lorenz U.M., Rosin D.L., Ravichandran K.S., Isakson B.E., Okusa M.D. Epithelial and Endothelial Pannexin1 Channels Mediate AKI, *J Am Soc Nephrol.* 2018 Jul; 29(7):1887-99; DOI: [10.1681/ASN.2017121306](https://doi.org/10.1681/ASN.2017121306)
7. Inoue T., Abe C., Sung S., Moscalu S., **Jankowski J.**, Huang L., Ye H., Rosin D.L., Guyenet P., Okusa M.D.; Vagus Nerve-Mediated Protection from Kidney Ischemia-Reperfusion Injury through $\alpha 7nAChR+$ Splenocytes, *J Clin Invest.* 2016 May 2; 126(5):1939-52; DOI: [10.1172/JCI83658](https://doi.org/10.1172/JCI83658)
8. Kwiatkowska-Borowczyk E., Gąbka-Buszek A., **Jankowski J.**, Mackiewicz A.; Immunotargeting of cancer stem cells, *Contemp Oncol (Pozn).* 2015;19(1A): A52-9; DOI: [10.5114/wo.2014.47129](https://doi.org/10.5114/wo.2014.47129)

Publications currently under review and in preparation:

1. **Jankowski J.**, Lee H.K., Liu Ch., Wilflingseder J., Hennighausen L. Sexually dimorphic renal expression of *Klotho* is directed by a kidney-specific distal enhancer responsive to HNF1b, submitted, (Available in bioRxiv: DOI: [10.1101/2024.02.29.582831](https://doi.org/10.1101/2024.02.29.582831))
2. Hoffmann M., Poschenrieder J., Incudini M., Baier S., Maier A., Fitz A., Hartung M., Adamowicz K., Trummer N., Picciani M., Hoffmann C., Scheibling E., Harl M. V., Lesch I., Frey H., Kayser S., Wissenberg P., Grabert G., Acharya A., Lee SG., Cloward M., **Jankowski J.**, Lee H. K., Pedersen A. G., Bønnelykke K., Mandarino A., Melograna F., Schulz L., Gonzalez H. C., Wilhelm M., Iapichino L., Wienbrandt L., Ellinghaus D., Van Steen K., Frachon F., Grossi M., Furth P. A., Hennighausen L., Di Pierro A., Kacprowski T., Baumbach J., List M., Blumenthal D. B. Quantumfuture-ready network-based epistasis detection elucidates the genetic architecture of complex diseases, in revision, *Nucleic Acid Research* (Available in medRxiv: DOI: [10.1101/2023.11.07.23298205](https://doi.org/10.1101/2023.11.07.23298205))

Oral and poster presentations during professional meetings

1. Poster presentation: **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. Sexual dimorphism and epigenetic control of the kidney disease marker Klotho ASN Kidney Week 2023, Philadelphia PA, USA
2. Oral and poster presentation: **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. Sexual dimorphism and epigenetic control of the kidney disease marker Klotho Genetoberfest 2023, Munich, Germany
3. Poster presentation: **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. Dissecting the role of the transcription enhancers of kidney disease-associated gene Klotho ASN Kidney Week 2022, Orlando FL, USA
4. Poster presentation: **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. Identification of transcription enhancers and their impact on the kidney injury regulator Klotho, 17th Annual NIDDK Scientific Conference (2022), virtual meeting
5. Poster presentation: **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. Interferon-activated genetic programs and a novel short isoform of the SARS-CoV-2 receptor ACE2 in the kidney ASN Kidney Week 2021, virtual meeting
6. Poster presentation: **Jankowski J.**, Lee H.K., Wilflingseder J., Hennighausen L. Dissecting the role of the transcription enhancers of kidney disease-associated gene Klotho 16th Annual NIDDK Scientific Conference (2021), virtual meeting
7. Oral presentation: **Jankowski J.**, Perry H.M., Medina C.B., Huang L., Yao J., Rosin D.L., Ravichandran K.S., Isakson B.E., Okusa M.D. Kidney PANX1 Releases ATP to Mediate Ischemia-Reperfusion Injury ASN Kidney Week 2017, New Orleans LA, USA

8. Oral presentation: **Jankowski J.**, Perry H.M., Huang L., Rosin D.L., Isakson B.E., Ravichandran K.S., Okusa M.D. Global and proximal tubule-specific PANX1 deletion protects kidneys from ischemia-reperfusion injury in mice. Mid-Atlantic Young Investigator's Forum 2017, Baltimore MD, USA
9. Poster presentation: **Jankowski J.**, Perry H.M., Huang L., Ye H., Isakson B.E., Ravichandran K.S., Okusa M.D. Pannexin1 deletion protects kidneys from ischemia- reperfusion injury in mice ASN Kidney Week 2016, Chicago IL, USA
10. Oral presentation: **Jankowski J.**, Perry H.M., Huang L., Ye H., Isakson B.E., Ravichandran K.S., Okusa M.D. Global and endothelial specific PANX1 deletion protects kidneys from ischemia-reperfusion injury in mice. Mid-Atlantic Young Investigator's Forum 2016, Baltimore MD, USA
11. Poster presentation: **Jankowski J.**, Gąbka-Buszek A., Kwiatkowska-Borowczyk E., Mackiewicz A., Kozłowska A. B16F10 melanospheres as a source of cancer stem cell antigens for melanoma immunotherapy VII Congress of Contemporary Oncology, 2015, Poznan, Poland
12. Oral presentation: **Jankowski J.**, Gąbka-Buszek A., Kwiatkowska-Borowczyk E., Mackiewicz A., Kozłowska A. Cancer vaccine based on murine melanospheres displays cancer stem cell features 14th Congress of Young Medical Scientists, 2014, Poznan, Poland