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Dr. Ana Konvalinka

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CIHR IRSC
Canadian Institutes of Health Research | Instituts de recherche en santé du Canada

Canadian Common CV commun canadien

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Dr. Ana Konvalinka

Degrees

2010/12 - 2014/6	Doctorate, Doctor of Philosophy, University of Toronto Degree Status: Completed
1998/9 - 2003/6	Doctorate, Doctor of Medicine - M.D., University of Ottawa Degree Status: Completed
1995/9 - 1998/6	Bachelor's, Bachelor of Science, University of Toronto Degree Status: Completed

Credentials

2009/10	F.R.C.P.C. Nephrology Specialty Certification, The Royal College of Physicians and Surgeons of Canada
2007/7	Fellow of the Royal College in the Division of Medicine, The Royal College of the Physicians and Surgeons of Canada
2007/6	F.R.C.P.C. Internal Medicine Specialty Certification, The Royal College of Physicians and Surgeons of Canada
2004/12	Licentiate of the Medical Council of Canada Certif, Medical Council of Canada
2003/6	Doctor of Medicine, Summa cum laude, University of Ottawa

Recognitions

2020/11	2020 Canadian Society of Transplantation Research Excellence Award Canadian Society of Transplantation
2020/7 - 2023/6	Academic Merit Award University of Toronto
2017/3	Canadian Society of Nephrology / Amgen New Investigator Lectureship Canadian Society of Nephrology
2016/7 - 2019/6	KRESCENT/ CIHR New Investigator Award Kidney Foundation of Canada
2016/7 - 2017/6	American Society of Transplantation / Transplantation Immunology Research Network - Translational Science Faculty Development Research Grant American Society of Transplantation

Employment

2022/7	Senior Scientist Advanced Diagnostics, Medicine, Toronto General Hospital Research Institute
2020/10	Full Member Institute of Medical Science, Medicine, University of Toronto
2019/12	Full Member Laboratory Medicine and Pathobiology, Medicine/ University of Toronto, University of Toronto
2015/11	Assistant Professor Medicine, Medicine, University of Toronto
2015/7	Director, Multi-Organ Transplant Biobank Multi-Organ Transplant Program, Medicine, University Health Network
2015/7	Transplant Nephrologist, Clinician Scientist Medicine / Division of Nephrology, Medicine / University of Toronto, University Health Network

Affiliations

The primary affiliation is denoted by (*)

(*) 2015/7	Clinician Scientist, Medicine, Division of Nephrology, University Health Network

Research Funding History

Awarded [n=15]

2022/4 - 2027/3
Principal Applicant

Determining Donor-Specific Antibody Pathogenicity in Kidney Transplantation Using Tissue Proteomics and Systems Immunology

Funding Sources:
Canadian Institutes of Health Research (CIHR)
Project Grant Competition
Total Funding - 898,875
Funding Competitive?: Yes

Co-investigator : Dr. Aniruddh Sarkar; Dr. Igor Jurisica; Dr. Jishnu Das; Dr. Stephen Juvet;

Collaborator : Dr. Ella Huszti; Dr. Fadi Lakkis; Dr. Lara Mahal; Dr. Rohan John

2020/1 - 2024/12
Co-investigator

Delineating the role of innate lymphoid cells in kidney homeostasis and transplantation.

Funding Sources:
Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 787,950
Funding Competitive?: Yes

Collaborator : Dr. Gary Bader; Dr. Sonya MacParland;

Principal Applicant : Dr. Sarah Crome/ Dr. Ana Konvalinka

2022/2 - 2024/1
Principal Applicant

Learning from the kidney transplant world: Angiotensin II-regulated proteins as predictors and therapeutic targets for CLAD.

Funding Sources:
Cystic Fibrosis Foundation
CLAD Biomarkers

Total Funding - 334,920
Funding Competitive?: Yes

Co-applicant : Dr. Boris Hinz; Dr. Ella Huszti; Dr. Igor Jurisica; Dr. Stephen Juvet;

Principal Applicant : Dr. Ana Konvalinka and Dr. Tereza Martinu

2019/4 - 2023/3
Co-investigator

SynoPlate - Human physiology on demand

Funding Sources:
Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 684,675
Funding Competitive?: Yes

Co-investigator : Dr. J. Hirota; Dr. S. Raha;

Principal Investigator : Dr. Boyang Zhang

2019/1 - 2022/12
Principal Applicant

Urine protein markers to identify and monitor immune-mediated kidney allograft fibrosis

Funding Sources:
Kidney Foundation of Canada (KFC)
Special Research Project Grant: Predictive Biomarkers
Total Funding - 500,000
Funding Competitive?: Yes

Co-investigator : Dr. Igor Jurisica

2021/7 - 2022/12
Co-applicant

Kidney-on-a-chip model for studies of antibody-mediated rejection

Funding Sources:
Centre for Research and Applications in Fluidic Technologies
CRAFT Project Award
Total Funding - 210,000
Funding Competitive?: Yes

Co-applicant : Dr. Teodor Veres;

Principal Applicant : Dr. Milica Radisic

2021/7 - 2022/12
Principal Investigator

Investigating Kidney Tissue Responses to Donor Specific Antibodies in Antibody Mediated Rejection

Funding Sources:
Canadian Donation and Transplantation Research Program
2021 CDTRP Research Innovation Grant competition
Total Funding - 30,000
Funding Competitive?: Yes

Co-investigator : Dr. Igor Jurisica; Dr. Rohan John; Dr. Stephen Juvet

2019/7 - 2022/6
Principal Applicant

Sex and Human Kidney Metabolism: New Insights into Diabetic Kidney Disease. Dr. Konvalinka is Dr. Clotet-Freixas' principal supervisor.

Funding Sources:
Canadian Institutes of Health Research (CIHR)
KRESCENT Post-Doctoral Fellowship
Total Funding - 45,625
Funding Competitive?: Yes
Kidney Foundation of Canada (KFC)
KRESCENT Post-Doctoral Fellowship
Total Funding - 36,875
Funding Competitive?: Yes

University Health Network (Toronto, ON)
KRESCENT Post-Doctoral Fellowship
Total Funding - 82,500
Funding Competitive?: Yes

Collaborator : Dr. Minna Woo;

Principal Applicant : Dr. Sergi Clotet-Freixas

2018/7 - 2021/6
Principal Applicant

The Impact of Sex on Kidney Metabolism. Implications for Diabetic Kidney Disease

Funding Sources:
Canadian Institutes of Health Research (CIHR)
Catalyst Grant: Sex as a Variable in Biomedical Research
Total Funding - 225,000
Funding Competitive?: Yes

2016/10 - 2020/12
Principal Applicant

Drug Discovery Foundation Grant

Funding Sources:
Toronto General and Western Hospital Foundation (TGWHF)
Multi-Organ Transplant Drug Discovery Fund
Total Funding - 150,000
Funding Competitive?: No

2018/10 - 2019/12
Principal Applicant

Developing a Novel Kidney-on-chip Platform to Study Antibody-Mediated Allograft Injury

Funding Sources:
Multi-Organ Transplant
Innovation Accelerator Grant
Total Funding - 75,000
Funding Competitive?: Yes

Co-investigator : Dr. Boyang Zhang; Dr. Milica Radisic

2016/7 - 2019/6
Principal Investigator

Interaction Between Humoral Immune Response and Kidney Tissue Proteome in Antibody Mediated Rejection

Funding Sources:
Kidney Foundation of Canada (KFC)
Biomedical Research Grant
Total Funding - 150,000
Funding Competitive?: Yes

2018/7 - 2019/6
Co-applicant

Targeting the renin-angiotensin system to monitor and treat fibrosis in chronic lung allograft dysfunction

Funding Sources:
Canadian National Transplant Research Program
Innovation grant
Total Funding - 30,000
Funding Competitive?: Yes

2016/7 - 2019/6
Principal Applicant

Systems Biology Approaches to Decipher Novel Mechanisms and Markers of Antibody Mediated Rejection in Kidney Transplantation

Funding Sources:
Canadian Institutes of Health Research (CIHR)
KRESCENT
Total Funding - 91,250
Funding Competitive?: Yes
Kidney Foundation of Canada (KFC)
KRESCENT

Total Funding - 118,750
Funding Competitive?: Yes
Kidney Foundation of Canada (KFC)
KRESCENT infrastructure
Total Funding - 25,000
Funding Competitive?: Yes

2018/1 - 2019/1
Co-applicant

Improving outcomes for organ transplantation: a live imaging platform to target immunologic and fibrotic events

Funding Sources:
Canada Foundation for Innovation (CFI)
John R. Evans Leaders Fund
Total Funding - 947,584
Funding Competitive?: Yes

Principal Applicant : Dr. Sonya MacParland

Declined [n=1]

2022/7 - 2024/6
Principal Applicant

Determining Donor-Specific Antibody Pathogenicity in Kidney Transplantation

Funding Sources:
Kidney Foundation of Canada (KFC)
Kidney Health Research Grant
Total Funding - 100,000
Funding Competitive?: Yes

Publications

Journal Articles

1. Shravanthi Rajasekar, Dawn S. Y. Lin, Feng Zhang, Alexander Sotra, Alex Boshart, Sergi Clotet-Freixas, Amy Liu, Jeremy A. Hirota, Shinichiro Ogawa, Ana Konvalinka, Boyang Zhang. (2022). Subtractive manufacturing with swelling induced stochastic folding of sacrificial materials for fabricating complex perfusable tissues in multi-well plates. Lab on a Chip. 22: 1929–1942.
Published
Refereed?: Yes, Open Access?: Yes

2. Chruscinski, Andrzej; Rojas-Luengas, Vanessa; Moshkelgosha, Sajad; Issachar, Assaf; Luo, Jane; Yowanto, Handy; Lilly, Leslie; Smith, Robert; Renner, Eberhard; Zhang, Jianhua; Epstein, Maor; Grant, David; McEvoy, Caitriona; Konvalinka, Ana; Humar, Atul ; Adeyi, Oyedele; Fischer, Sandra; Felix H. Volmer, Felix; Taubert, Richard; Jäckel, Elmar; Juvet, Stephen; Selzner, Nazia; Levy, Gary. (2022). Evaluation of a Gene Expression Biomarker to Identify Operationally Tolerant Liver Transplant Recipients: The LITMUS Trial. Clinical and Experimental Immunology. 207(1): 123–139.
Published
Refereed?: Yes

3. Laura Ioana Mazilescu; Peter Urbanellis; S. Joseph Kim; Toru Goto; Yuki Noguchi; Ana Konvalinka; Trevor W Reichman; Blayne A Sayed; Istvan Mucsi; Jason Y Lee; Lisa A. Robinson; Anand Ghanekar; Markus Selzner. (2022). Normothermic Ex Vivo Kidney Perfusion for Human Kidney Transplantation: First North American Results. Transplantation. 106(9): 1852-1859.
Published
Refereed?: Yes

4. Rodriguez-Ramirez S, Al Jurdi A, Konvalinka A, Riella LV. (2022). Antibody-mediated rejection: prevention, monitoring and treatment dilemmas. Current opinion in organ transplantation. NA: NA.
In Press
Refereed?: Yes

5. Caitriona M. McEvoy†, Julia M. Murphy†, Lin Zhang, Jessica A. Mathews, Sergi Clotet-Freixas, James An, Mehran Karimzadeh, Delaram Pouyabahar, Shenghui Su, Lewis Y. Liu, Bo Wang, Sonya A. MacParland, Gary D. Bader, Ana Konvalinka*, Sarah Q. Crome* (* Co-Senior and co-corresponding authors). (2022). Single-cell profiling of healthy human kidney reveals features of sex-based transcriptional programs and tissue-specific immunity. Nature Communications. NA: NA.
Accepted
Refereed?: Yes

6. Sofia Farkona, Chiara Pastrello, Ana Konvalinka. (2022). Proteomics: Its Promise and Pitfalls in Shaping Precision Medicine in Solid-organ Transplantation. Transplantation. NA: NA.
Accepted
Refereed?: Yes, Open Access?: Yes

7. Vasiliou SK, Filippou PS, Clotet-Freixas S, Soosaipillai A, Batruch I, Viktor Tsianos F, Konvalinka A, Diamandis EP. (2022). Transcriptome profiling and proteomic validation reveals targets of the androgen receptor signaling in the BT-474 breast cancer cell line. Clinical proteomics. 19(1): 14.
Published
Refereed?: Yes

8. Sergi Clotet-Freixas, Max Kotlyar, Caitriona McEvoy, Chiara Pastrello, Sonia Rodríguez-Ramírez, Sofia Farkona, Heloise Cardinal, Mélanie Dieudé, Marie-Josée Hébert, Yanhong Li, Olusegun Famure, Peixuen Chen, S. Joseph Kim, Emilie Chan, Igor Jurisica, Rohan John, Andrzej Chruscinski, Ana Konvalinka. (2021). Autoantibodies Against Ro/SS-A, CENP-B, and La/SS-B are Increased in Patients with Kidney Allograft Antibody-Mediated Rejection. Transplantation Direct. 7(10): e768.
Published
Refereed?: Yes

9. Sergi Clotet-Freixas, Ana Konvalinka. (2021). Too Little or Too Much? Extracellular Matrix Remodeling in Kidney Health and Disease. Journal of the American Society of Nephrology. 32(7): 1541-3.
Published
Refereed?: Yes

10. Caitriona M. McEvoy, Sergi Clotet-Freixas, Tomas Tokar, Chiara Pastrello, Shelby Reid, Ihor Batruch, Adrien RaoPeters, J. Moritz Kaths, Peter Urbanellis, Sofia Farkona, Julie Van, Bradley L. Urquhart, Igor Jurisica, Lisa Robinson, Markus Selzner and Ana Konvalinka. (2021). Normothermic Ex-vivo Kidney Perfusion in a Porcine Auto-Transplantation Model Preserves the Expression of Key Mitochondrial Proteins: An Unbiased Proteomics Analysis.Molecular & Cellular Proteomics. 20: 100101.
Published
Refereed?: Yes

11. Anastasia Korolj, Praful Aggarwal, Teng Cui, Xin Song, Laleh Shamaei, Naimeh Rafatian, Anastasia Radisic, Sonia Rodriguez-Ramirez, Chuan Liu, Chen Yu Li, Karl Wagner, Sergi Clotet-Freixas, Elizabeth Virlee, Mohtada Sadrzadeh, Tobin Filleter, Ulrich Broeckel, Ana Konvalinka, and Milica Radisic. (2021). Fractal cues support hierarchical maturation of podocytes via curvature-induced patterning.Nature Materials. NA: NA.
Revision Requested
Refereed?: Yes

12. Mamatha Bhat, Sergi Clotet-Freixas, Cristina Baciu, Elisa Pasini, Ahmed Hammad, Tommy Ivanics, Shelby Reid, Amirhossein Azhie, Marc Angeli, Anand Ghanekar, Sandra Fischer, Gonzalo Sapisochin, Ana Konvalinka. (2021). Combined proteomic/transcriptomic signature of recurrence post-liver transplantation for hepatocellular carcinoma beyond Milan. Clinical Proteomics. 18(1): 27.
Published
Refereed?: Yes

13. Aninda Dibya Saha and Ana Konvalinka. (2021). Living and Deceased Kidney Donation in Canada (an invited article). ASN Kidney News. 13(12): 14.
Published
Refereed?: Yes

14. Min Jeong Kim, Daniella Febbraro, Sofia Farkona, Taylor Gillmore, Joe Eun Son, Romario Regeenes, Huntley H. Chang, Yoo Jin Park, Tharini Sivasubramaniyam, Evan Pollock-Tahiri, Punit Saraon, Igor Stagljar, Jonathan Rocheleau, Chi-Chung Hui, Isabella Caniggia, Zhenyu Hao, Tak W. Mak, Ana Konvalinka, and Minna Woo. (2021). Distinct roles of UVRAG and EGFR signaling in skeletal muscle homeostasis. Molecular Metabolism. 47: 101185.
Published
Refereed?: Yes

15. Peter Urbanellis*, Caitriona M. McEvoy*, Marko Skrtic, J. Moritz Kaths , Dagmar Kollmann, Ivan Linares, Sujani Ganesh, Fabiola Oquendo, Manraj Sharma, Laura Mazilescu, Toru Goto, Yuki Noguchi, Rohan John, Istvan Mucsi, Anand Ghanekar, Darius Bagli, Ana Konvalinka, Markus Selzner, Lisa A. Robinson. (2021). Transcriptome Analysis of Kidney Grafts Subjected to Normothermic Ex-Vivo Perfusion Demonstrates an Enrichment of Mitochondrial Metabolism Genes. Transplantation Direct. 7(8): e719.
Published
Refereed?: Yes

16. Peter Urbanellis, Laura Mazilescu, Dagmar Kollmann, Ivan Linares-Cervantes, J Moritz Kaths, Sujani Ganesh, Fabiola Oquendo, Manraj Sharma, Toru Goto, Yuki Noguchi, Rohan John, Ana Konvalinka, Istvan Mucsi, Anand Ghanekar, Darius Bagli, Lisa A Robinson, Markus Selzner. (2021). Prolonged warm ischemia time leads to severe renal dysfunction of donation-after-cardiac death kidney grafts. Sci Rep.11(1): 17930.
Published
Refereed?: Yes

17. S Clotet-Freixas, O Zaslaver, C Pastrello, M Kotlyar, C McEvoy, S Farkona, A Saha, A Boshart, M Chan, M Riera, MJ Soler, A Isenbrandt, J Lamontagne-Proulx, S Pradeloux, K Coulombe, D Soulet, AB Dart, B Wicklow, JM McGavock, TD Blydt-Hansen, I Jurisica, M Woo, JW Scholey, H Röst, A Konvalinka. (2021). Cell Sex and Sex Hormones Modulate Kidney Glucose and Glutamine Metabolism in Health and Diabetes. Science Translational Medicine. NA: NA.
Revision Requested
Refereed?: Yes

18. Berra, G, Farkona, S, Mohammed-Ali, Z, Kotlyar, M, Ly, P, Levy, L, Renaud-Picard, B, Zehong, G, Daigneault, T, Duong, A, Batruch, I, Jurisica, I, Konvalinka, A*, Martinu, T* (*co-senior authors). (2021). Association of the Renin-Angiotensin System with Chronic Lung Allograft Dysfunction. European Respiratory Journal. 58(4): 2002975.
Published
Refereed?: Yes

19. Urbanellis P, Hamar M, Kaths JM, Kollmann D, Linares I, Mazilescu L, Ganesh S, Wiebe A, Yip PM, John R, Konvalinka A, Mucsi I, Ghanekar A, Bagli DJ, Robinson LA, Selzner M. (2020). Normothermic ex-vivo kidney perfusion improves early DCD graft function compared to hypothermic machine perfusion and static cold storage.Transplantation. 104(5): 947-955.
Published
Refereed?: Yes

20. Clotet-Freixas S, McEvoy C.M, Batruch I, Van J, Pastrello C, Kotlyar M, Arambewela R, Boshart A, Farkona S, Niu Y, Li, Y, Famure S, Bozovic A, Kulasingam V, Chen P, Kim SJ, Chan E, Moshkelgosha S, Martinu T, Juvet S, Jurisica I, Chruscinski A, John R, Konvalinka A. (2020). Extracellular Matrix Injury of Kidney Allografts in Antibody Mediated Rejection: A Proteomics Study. Journal of the American Society of Nephrology. 31(11): 2705-2724.
Published
Refereed?: Yes

21. David R Hillier, Mila Tang, William Clark, Cynthia MacDonald, Carol Connolly, Chantel Large, Malcolm King, Joel Singer, Adeera Levin, Braden Manns, Ana Konvalinka, James Scholey, Norman D Rosenblum. (2020). A Framework to Ensure Patient Partners Have Equal and Contributing Voices Throughout the Research Program Evaluation Process. Can J Kidney Health Dis. 7: 2054358120970093.
Published
Refereed?: Yes

22. Peter Urbanellis, Dagmar Kollmann, Ivan Linares, Sujani Ganesh, Fabiola Oquendo, Laura Mazilescu, Toru Goto, Yuki Noguchi, Rohan John, Ana Konvalinka, Istvan Mucsi, Anand Ghanekar, Darius Bagli, Markus Selzner, Lisa A Robinson. (2020). Significant Dysfunction of Kidney Grafts Exposed to Prolonged Warm Ischemia Is Minimized Through Normothermic Ex Vivo Kidney Perfusion. Transplant Direct. 6(8): e587.
Published
Refereed?: Yes

23. Williams, V., Konvalinka, A., Song, X., Zhuo, X., John, R., Pei, Y., Scholey, J. (2020). Connectivity mapping of a chronic kidney disease progression signature identifies lysine deacetylases as novel therapeutic targets.Kidney International. 98(1): 116-132.
Published
Refereed?: Yes

24. Van, J., Clotet-Freixas, S., Hauschild, A., Batruch, I., Jurisica, I., Elia, Y., Mahmud, F., Sochett, E., Diamandis, E., Scholey, J., Konvalinka, A. (2020). Urinary proteomics links keratan sulfate degradation and lysosomal enzymes to early type 1 diabetes. PLoS ONE. 15(5): e0233639.
Published
Refereed?: Yes, Open Access?: Yes

25. Zahraa Mohammed-Ali, Tomas Tokar, Ihor Batruch, Shelby Reid, Alexandre Tavares-Brum, Paul Yip, Héloïse Cardinal, Marie-Josée Hébert, Yanhong Li, S. Joseph Kim, Igor Jurisica, Rohan John and Ana Konvalinka. (2019). Urine Angiotensin II Signature Proteins as Markers of Fibrosis in Kidney Transplant Recipients. Transplantation. 103(6): e146 - e158.
Published
Refereed?: Yes, Open Access?: Yes

26. Julie Van, Sergi Clotet Freixas, Ihor Batruch, Xiaohua Zhou, Chunxiang Sun, Michael Glogauer, Luca Rampoldi, Farid Mahmud, Etienne Sochett, Eleftherios Diamandis, James Scholey, Ana Konvalinka. (2019). Peptidomic Analysis of Urine from Youths with Early Type 1 Diabetes Reveals Novel Bioactivity of Uromodulin Peptides *In Vitro*. Molecular & Cellular Proteomics. 19(3): 501-517.
Published
Refereed?: Yes

27. Hamar M, Urbanellis P, Kaths M, Kollmann D, Ganesh S, Wiebe A, Yip P, John R, Konvalinka A, Mucsi I, Ghanekar A, Bagli D, Grant D, Robinson L, Selzner M. (2018). Normothermic Ex Vivo Kidney Perfusion Reduces Warm Ischemic Injury of Porcine Kidney Grafts Retrieved After Circulatory Death (DCD). Transplantation. 102(8): 1262-1270.
Published
Refereed?: Yes, Open Access?: No

28. Guenette A, Husain S, Konvalinka A, Geddie W, Rotstein C. (2018). Blastomycosis in a renal transplant recipient: Case of immune reconstitution inflammatory syndrome.Medical Mycology Case Reports. 21: 20-22.
Published
Refereed?: Yes

29. Clotet S, Soler MJ, Palau V, Anguiano L, Gimeno J, Konvalinka A, Pascual J, Riera M. (2018). Sex Dimorphism in the Angiotensin II-mediated Cross-talk between ACE2 and ACE in Diabetic Nephropathy.Laboratory Investigation. 98(9): 1237-1249.
Published
Refereed?: Yes

30. Bae EH, Fang F, Williams VR, Konvalinka A, Zhou X, Patel VB, Song X, John R, Oudit GY, Pei Y, Scholey JW. (2017). Murine Recombinant Angiotensin-Converting Enzyme 2 Attenuates Kidney Injury in Experimental Alport Syndrome. Kidney International. 17: 30015-7.
Published
Refereed?: Yes

31. Molnar AO, Barua M, Konvalinka A, Schick-Makaroff K. (2017). Patient Engagement in Kidney Research: Opportunities and Challenges Ahead. Canadian Journal of Kidney Health and Disease. 4: 2054358117740583.
Published
Refereed?: Yes

32. Clotet S, Soler MJ, Riera M, Pascual J, Fang F, Zhou J, Batruch I, Vasiliou SK, Dimitromanolakis A, Barrios C, Diamandis EP, Scholey JW, Konvalinka A. (2017). SILAC-Based Proteomics of Primary Human Kidney Cells Reveals a Novel Link between Male Sex Hormones and Impaired Energy Metabolism in Diabetic Kidney Disease. Molecular & Cellular Proteomics. 3: 368-385.
Published
Refereed?: Yes

33. Van J, Scholey JW, Konvalinka A. (2016). Brief Review: Insights into Diabetic Kidney Disease Using Urinary Proteomics and Bioinformatics. Journal of the American Society of Nephrology. 4: 1050-1061.
Published
Refereed?: Yes

34. Konvalinka A, Batruch I, Tokar T, Dimitromanolakis A, Reid S, Xuewen S, Pei Y, Drabovich A, Diamandis E, Jurisica I, Scholey S. (2016). Quantification of Angiotensin II-Regulated Proteins in Urine of Patients with Polycystic and other Chronic Kidney Diseases by Selected Reaction Monitoring. Clinical Proteomics. 13(16): 1-19.
Published
Refereed?: Yes

35. Bae EH*, Konvalinka A*, Fang F*, Zhou J, Williams V, Maksimowski N, John R, Zhang SL, Song X, Pei Y, Scholey JW. *co-1st authors. (2015). CHARACTERISTICS OF THE RENAL RENIN ANGIOTENSIN SYSTEM IN EXPERIMENTAL ALPORT'S SYNDROME (co-1st author). American Journal of Pathology. 185(5): 1423-35.
Published
Refereed?: Yes

36. Konvalinka A, Tinckam K. (2015). UTILITY OF HLA ANTIBODY TESTING IN KIDNEY TRANSPLANTATION. Journal of the American Society of Nephrology. 26: 1489 – 1502.
Published
Refereed?: Yes

37. Fang F, Bae EH, Hu A, Liu GC, Zhou J, Williams V, Maksimowski N, Lu C, Zhang SL, Konvalinka A, John R, Scholey JW. (2015). DELETION OF THE GENE FOR ADIPONECTIN ACCELERATES DIABETIC NEPHROPATHY IN THE INS2 (+/C96Y) MOUSE. Diabetologia. 58(7): 1668 -78.
Published
Refereed?: Yes

38. Schvartz D, Bergsten, Baek KH, Barba A, De La Rosa A, Cantley J, Dayon L, Finamore F, Fontata P, Gaudet P, Goo YA, Moulder R, Goodlett D, Johnson JD, Konvalinka A, Mulder H, Priego-Capote F, Sechi S, Snyder M, Tiss A, Wiederkehr, Xenarios I, Kussmann M, Sanchez JC. (2015). The Human Diabetes Proteome Project (HDPP): the 2014 update. Translational Proteomics. 8-9: 1-7.
Published
Refereed?: Yes

Intellectual Property

Patents

1. Fractal cues support hierarchical maturation of podocytes via curvature-induced patterning. United States of America. 63/356,948. 2022/06/29.
Patent Status: Granted/Issued

Presentations

1. Dr. Ana Konvalinka, Dr. Katalin Susztak, Dr. Markus Rinschen, Dr. Mathias Kretzler. (2021). Microproteomics in transplant glomerulopathy.13th International Podocyte Conference, United Kingdom
Main Audience: Researcher
Invited?: Yes, Keynote?: No

2. (2021). Plenary Session 2: Cutting edge technologies in transplantation. Proteomics of Antibody-Mediated Rejection. Canadian Society of Nephrology/ Banff Joint Meeting, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

3. (2020). Proteomics studies in kidney allograft antibody mediated rejection.STI Transplantation Biology Seminar Series. Invited by Dr. Fadi Lakkis., United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

4. (2017). Deciphering Link between Diabetic Kidney Disease and Energy Metabolism - From Basic Biology to the Clinic?. American Society of Nephrology Annual Meeting, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No

5. (2017). Urine Angiotensin II Signature Proteins as Biomarkers of Fibrosis in Patients with Kidney Transplant - the Impact of CNTRP for a New Investigator. Canadian Society of Transplantation - Canadian National Transplant Research Network Plenary Session, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes

Student/Postdoctoral Supervision

Master's Thesis [n=1]

2020/1 - 2022/8 Principal Supervisor	Aninda Saha, University of Toronto, Institute of Medical Science Thesis/Project Title: The role of hepatocyte nuclear factors in ischemia reperfusion injury associated with kidney transplant. Awards: the IMS entrance scholarship, and the Queen Elizabeth Scholarship x 2. Present Position: Research assistant

Doctorate [n=2]

2020/1 - 2024/1 Principal Supervisor	Alex Boshart, University of Toronto, Institute of Medical Science Thesis/Project Title: The role of Galectin-1 in antibody-mediated rejection. Alex will work on a new ex vivo model of peritubular capillary together with our biomedical engineer collaborators - Dr. Radisic and Dr. Zhang. Awards: the entrance scholarship from IMS and the Queen Elizabeth Scholarship. He also won the Canadian Graduate Scholarship for Master's degree from CIHR. Present Position: PhD student
2015/7 - 2020/7 Co-Supervisor	Julie Van, University of Toronto Thesis/Project Title: Analyses of the Urinary Peptidome And Proteome of Early Type 1 Diabetes Before Clinical Evidence of Kidney Injury. Awards: Banting & Best Diabetes Centre Doctoral Award twice, the STAR award from the American Society of Nephrology (2018) and multiple travel awards. Present Position: Post-doctoral fellow

Post-doctorate [n=6]

2022/6 - 2024/12 Principal Supervisor	Kieran Manion, University Health Network Thesis/Project Title: Determining Donor-Specific Antibody Pathogenicity in Kidney Transplantation Using Tissue Proteomics and Systems Immunology. Kieran has already won the Toronto General Hospital Research Institute Fellowship (2022) and was selected as the top poster at the annual Research Institute's research day. Present Position: Post-doctoral fellow
2021/12 - 2022/6 Principal Supervisor	Bora Onat, Unviersity of Ankara Thesis/Project Title: Dr. Onat came to my lab from Turkey to learn a proteomics-based technique called SILAC, in order to understand how SARS-CoV2 virus infects human cells. With the proposed research, he received the prestigious Horizons 2020 European Fellowship. Present Position: Post-doctoral fellow
2018/7 - 2023/12 Principal Supervisor	Sofia Farkona, Toronto General Hospital Research Institute Thesis/Project Title: Parallel reaction monitoring methods for quantification of fibrotic signature (angiotensin II-regulated) proteins in urine of kidney transplant recipients. Awards: HUPO travel award (2019), Multi-Organ Transplant Fellowship 2021 Present Position: Post-doctoral fellow
2017/7 - 2020/9 Principal Supervisor	Caitriona McEvoy, University Health Network Thesis/Project Title: Proteomics and transcriptional signatures in normothermic ex vivo kidney perfusion of porcine kidney allografts. Awards: the Menkes Fellowship 2017-2020, the Multi-Organ Transplant Fellowship award (2019, 2020). Present Position: Nephrologist

2016/11 - 2022/6	Clotet-Freixas, Sergi, University Health Network
Principal Supervisor	Thesis/Project Title: Metabolic effects of sex hormones on kidney cells and their potential consequences on kidney disease progression. The proteome of kidney allograft biopsies with antibody-mediated rejection. Awards: 1st place twice for Basic Science Fellows' Presentation at the annual Division of Nephrology competition; the Canadian Society of Transplantation Fellowship, the prestigious STAR award at the ASN and the KRESCENT Fellowship (2019-2022). Present Position: Research Associate
2016/9 - 2018/6	Mohammed-Ali, Zahraa, McMaster University
Principal Supervisor	Thesis/Project Title: Quantification of angiotensin II-regulated proteins in urine of kidney allograft recipients as potential markers of kidney fibrosis. Awards: the Canadian Society of Transplantation Fellowship Award and the Toronto General Hospital Research Institute Fellowship Award, as well as the Ricker Family Post-Doctoral Award. Present Position: Clinical chemist

Research Associate [n=1]

2022/7 - 2023/6	Sergi Clotet-Freixas, University Health Network
Principal Supervisor	Thesis/Project Title: Investigating sex-based differences in kidney health and disease Present Position: Research Associate