

Clarissa Araujo Cassol, MD, FRCPC, FCAP

CURRENT ACADEMIC POSITION

06/2020-present Staff Pathologist, Arkana Laboratories
01/2023-present Contract Research Physician Coordinator

PREVIOUS ACADEMIC APPOINTMENTS

08/2018-05/2020 Assistant Professor, Department of Pathology, The Ohio State University, Columbus, OH
07/2017-07/2018 Clinical Assistant Professor, Department of Pathology, SUNY Upstate Medical University, Syracuse, NY
08/2016-06/2017 Chief Fellow, Anatomic Pathology, University of Toronto, Canada
12/2014-12/2015 Chief Resident, Anatomic Pathology, University of Toronto, Canada

EDUCATION

01/2000-12/2005 Medical School, Santa Catarina Federal University, Brazil

TRAINING

07/2016-06/2017 Renal Pathology Fellowship, University of Toronto, Canada
07/2011-06/2016 Anatomic Pathology Residency, University of Toronto, Canada
02/2009-06/2011 CIHR Molecular Oncologic Pathology Fellowship, University of Toronto, Canada
02/2006-01/2009 Anatomic Pathology Residency, University of São Paulo, Brazil

MEDICAL LICENSURE

04/2020- present Arkansas State Medical Board, license E-13142
03/2018-present State Medical Board of Ohio, license 35.133222
03/2017-present New York State Medical Board, license: 288267

CERTIFICATION

10/2016 American Board of Pathology, Anatomical Pathology
08/2016 Royal College of Physicians and Surgeons of Canada, Anatomical Pathology Fellow
10/2013 Educational Commission for Foreign Medical Graduates

CLINICAL SERVICE

07/2017-07/2018 Medical Renal Service, Staff, SUNY Upstate University Hospital

08/2018-05/2020 Medical Renal and Transplant Pathology Service, Staff, Wexner
Medical Center, The Ohio State University

06/2020-present Staff Pathologist, Arkana Laboratories

COMMITTEE ASSIGNMENTS

Departmental Service

07/2017-07/2018 Pathology Residency Selection Committee member, SUNY Upstate
Medical University

10/2017-01/2018 Pathology Residency Program Interviews, SUNY Upstate Medical
University

02/2017 Hematopathology Residency Internal Review Committee, Department
of Pathology and Laboratory Medicine, University of Toronto

07/2016-07/2017 Fellowship Training Committee, Department of Pathology and
Laboratory Medicine, University of Toronto

01/2015-01/2016 Residents Teaching Committee, Department of Pathology and
Laboratory Medicine, University of Toronto

01/2014-01/2015 Residents Selection Committee, Department of Pathology and
Laboratory Medicine, University of Toronto

09/2013 Laboratory Medicine External Review advisory team, Department of
Laboratory Medicine and Pathobiology, University of Toronto

09/2012-04/2013 Residents Research Day, organizing committee, Department of
Pathology and Laboratory Medicine, University of Toronto

09/2011-04/2012 Residents Research Day, organizing committee, Department of
Pathology and Laboratory Medicine, University of Toronto

Institutional Service

08/2017-02/2018 Medical Students Admission Interviews, SUNY Upstate Medical
University

HONORS and AWARDS

05/2017 Best poster presentation, 3rd place, Laboratory Medicine and
Pathobiology Postgraduate Research Day, Toronto, Canada

07/2016 Andrew Herzenberg Award for Best Resident Poster Presentation in
Nephropathology or Transplant Pathology, awarded by the Canadian
Association of Pathologists, Vancouver, Canada

06/2016 Stanley-Raphael Award for Professionalism, awarded by the Laboratory
Medicine and Pathobiology Department, University of Toronto, Canada

03/2013	Stowell-Orbison Award for the poster “Sunitinib Targets in Pheochromocytomas and Paragangliomas”, awarded by the USCAP, Baltimore, USA
03/2012	Association of Indian Pathologists in North America Award for the poster “Cell Cycle Regulators in Pheochromocytomas and Paragangliomas and Correlation with SDHx Status and FGFR4 Genotype”, awarded during the USCAP Annual Meeting, Vancouver, Canada
12/1999	1 st ranked on Santa Catarina Federal University general admission exam amongst the 32.261 candidates enrolled, Florianopolis, Brazil

TEACHING

Undergraduate Medical Teaching

01/2017	Glomerular Diseases, SUNY Upstate Medical University
01/2017	Tubulointerstitial Diseases, SUNY Upstate Medical University
01/2017	Renal Involvement in Systemic Diseases, SUNY Upstate Medical University
09/2016-11/2016	Problem-based learning - “Mechanisms, Manifestations, & Management of Disease” Course - Cell Damage, Inflammation and Neoplasia Unit - Wightman-Berris Academy, Toronto General Hospital, University of Toronto
09/2015-11/2015	Problem-based learning - “Mechanisms, Manifestations, & Management of Disease” Course - Cell Damage, Inflammation and Neoplasia Unit - Peters-Boyd Academy, Sunnybrook Hospital, University of Toronto
09/2014-11/2014	Tutor, “Genetic Ethics”, University of Toronto
02/2006-07/2006	Autopsy Telepathology for Medical Students, University of São Paulo, Brazil
07/2002-12/2002	Teaching Assistant - General Pathology - Santa Catarina Federal University, Brazil

Postgraduate Medical Teaching

02/2020	Transplant Pathology - UAMS Visiting Resident Lecture - Arkana Laboratories
10/2020	Transplant Pathology - UAMS Visiting Resident Lecture - Arkana Laboratories
03/2020	Nephrology Fellows Renal Pathology Lecture - Renal Involvement in Monoclonal Gammopathies - The Ohio State University

09/2019	Nephrology Fellows Introduction to Renal Pathology Lecture - The Ohio State University
12/2017	Nephrology Fellow Seminar Series - “Bortezomib-associated Thrombotic Microangiopathy”, SUNY Upstate Medical University
11/2017	Nephrology Fellow Seminar Series – “Renal Involvement in Monoclonal Gammopathies”, SUNY Upstate Medical University
09/2017	Pathology Residency - “Introduction to Renal Pathology”, SUNY Upstate Medical University
09/2017	Nephrology Fellow Seminar Series - “Introduction to Renal Pathology”, SUNY Upstate Medical University
07/2017	PGY-1 Orientation Session - “Thrombotic Microangiopathy”, SUNY Upstate Medical University
11/2016	Residents’ Unknown Rounds - “Medical Kidney”, Queen’s University Pathology Residency Program, Kingston General Hospital, Kingston
09/2016	Residents’ Unknown Rounds - “Medical Kidney”, Toronto General Hospital, Toronto
06/2016-06/2017	Renal Biopsy Rounds - Toronto General Hospital, Toronto
10/2014	Residents’ Unknown Rounds - “Medical Kidney”, Sunnybrook Hospital, Toronto
11/2010	Residents’ Unknown Rounds - “Endocrine Pathology”, University of Toronto
02/2006-07/2006	Autopsy Telepathology for Internal Medicine Residents - University of São Paulo, Brazil

FORMAL MENTORING

Tiffany Caza – currently staff pathologist at Arkana Laboratories, Little Rock, AR, US.

Kevin Y. Ren – current assistant professor, Anatomic Pathology, Queen’s University, Kingston, ON, Canada.

MANUSCRIPT REVIEW

02/2018-present	Clinical Nephrology
04/2018-present	Journal of Clinical Nephrology and Renal Care
09/2018-present	Aging

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

01/2010	United States and Canada Academy of Pathology
02/2016	Ontario Medical Association
09/2016	American Society of Nephrology
11/2016	International Society of Nephrology

01/2017	Renal Pathology Society
07/2017	American Society of Transplantation
02/2018	American Medical Association

INVITED PRESENTATIONS

1. Moderator - "Computational Image Analysis: Shaping the Future of Nephropathology." American Society of Nephrology Kidney Week 2019, Washington DC, November 2019.
2. Renal Pathology Case Conference – Nephrology and Hypertension Associates, Syracuse, Dec 6, 2017.
3. Journal Club Conference – “Atypical hemolytic uremic syndrome and C3 glomerulopathy: conclusions from a “Kidney Disease: Improving Global Outcomes” (KDIGO) Controversies Conference” – SUNY Upstate Medical University Hospital, Syracuse, Sept 26, 2017.
4. Renal Pathology Case Conference – Nephrology and Hypertension Associates, Syracuse, Sep 13, 2017.
5. Transplant Glomerulopathy: Determinants of Long-Term Graft Outcome. Department of Pathology, SUNY Upstate Medical University, Syracuse, Nov 10, 2016.
6. Transplant Glomerulopathy: Determinants of Long-Term Graft Outcome. Department of Pathology and Molecular Medicine, Queen’s University, Kingston, Nov 3, 2016.
7. Comparative study on the efficacy of two 18-gauge needles on native and allograft renal biopsies. Advances in Pathology 2016 and the 16th Annual William Anderson Memorial Lecture. Toronto, Oct 2016.
8. Molecular Markers in Pheochromocytomas and Paragangliomas: Receptors Tyrosine Kinase. Advances in Pathology 2012 and the 12th Annual William Anderson Memorial Lecture. Toronto, Oct 2012.
9. Receptor Tyrosine Kinase in Pheochromocytomas and Paragangliomas. Allied Health Professionals Lecture, Toronto General Hospital, Oct 2010.

GRANTS

Grants Funded

Title of grant: Clinician-Scientists in Molecular Oncologic Pathology

Funding agency: Canadian Institutes of Health Research

Grant number: STP-53912

Award total: CAN\$ 60,000

Dates of funding: 2009-2011

Role: Research Fellow

BOOK CHAPTERS

1. Avila-Casado C, **Cassol CA**. The Kidney in Endocrine Diseases. In: Endocrine Pathology Textbook. Mete & Asa (Eds). Cambridge University Press 2016; 821-833.

JOURNAL ARTICLES

In Peer-Reviewed Journals

1. Giannini G, Carlos Q Velez J, May RM, Sharma SG, Mohamed MMB, **Cassol CA**, Larsen CP, Caza TN. Renal Prognosis of COVID-19 Associated Nephropathy. *Kidney Int Rep*. 2022 Dec;7(12):2722-2725. doi: 10.1016/j.ekir.2022.09.027. Epub 2022 Sep 30. PMID: 36277848; PMCID: PMC9579006.
2. Zee J, Liu Q, Smith AR, Hodgins JB, Rosenberg A, Gillespie BW, Holzman LB, Barisoni L, Mariani LH; Nephrotic Syndrome Study Network (NEPTUNE); NEPTUNE Members. Kidney Biopsy Features Most Predictive of Clinical Outcomes in the Spectrum of Minimal Change Disease and Focal Segmental Glomerulosclerosis. *J Am Soc Nephrol*. 2022 Jul;33(7):1411-1426. doi: 10.1681/ASN.2021101396. Epub 2022 May 17. PMID: 35581011; PMCID: PMC9257823.
3. Zimmerer JM, Han JL, Peterson CM, Zeng Q, Ringwald BA, **Cassol C**, Chaudhari S, Hart M, Hemminger J, Satoskar A, Abdel-Rasoul M, Wang JJ, Warren RT, Zhang ZJ, Breuer CK, Bumgardner GL. Antibody-suppressor CXCR5+ CD8+ T cellular therapy ameliorates antibody-mediated rejection following kidney transplant in CCR5 KO mice. *Am J Transplant*. 2022 Jun;22(6):1550-1563. doi: 10.1111/ajt.16988.
4. Caza TN, **Cassol CA**, Messias N, Hannoudi A, Haun RS, Walker PD, May RM, Seipp RM, Betchick EJ, Amin H, Ziadie MS, Haderlie M, Eduwu-Okwuwa J, Vancea I, Seek M, Elashi EB, Shenoy G, Khalillullah S, Flaxenburg JA, Brandt J, Diamond MJ, Frome A, Kim EH, Schlessinger G, Ulozas E, Weatherspoon JL, Hoerschgen ET, Fabian SL, Bae SY, Iqbal B, Chouhan KK, Karam Z, Henry JT, Larsen CP. Glomerular Disease in Temporal Association with SARS-CoV-2 Vaccination: A Series of 29 Cases. *Kidney360*. 2021 Sep 16;2(11):1770-1780. doi: 10.34067/KID.0005372021. PMID: 35372991; PMCID: PMC8785835.
5. **Cassol C**, Sharma S. Nephrology Lagging Behind in Machine Learning Utilization. *Kidney Med*. 2021 Aug 26;3(5):693-695. doi: 10.1016/j.xkme.2021.08.004. PMID: 34693249; PMCID: PMC8515076.
6. May RM, **Cassol C**, Hannoudi A, Larsen CP, Lerma EV, Haun RS, Braga JR, Hassen SI, Wilson J, VanBeek C, Vankalakunti M, Barnum L, Walker PD, Bourne TD, Messias NC, Ambruzs JM, Boils CL, Sharma SS, Cossey LN, Baxi PV, Palmer M, Zuckerman JE, Walavalkar V, Urisman A, Gallan AJ, Al-Rabadi LF, Rodby R, Luyckx V, Espino G, Santhana-Krishnan S, Alper B, Lam SG, Hannoudi GN, Matthew D, Belz M, Singer G, Kunaparaju S, Price D, Chawla S, Rondla C, Abdalla MA, Britton ML, Paul S, Ranjit U, Bichu P, Williamson SR, Sharma Y, Gaspert A, Grosse P, Meyer I, Vasudev B, El Kassem M, Velez JCQ, Caza TN. A multi-center retrospective cohort study defines the spectrum of kidney pathology in Coronavirus 2019 Disease (COVID-19). *Kidney Int*. 2021 Dec;100(6):1303-1315. doi: 10.1016/j.kint.2021.07.015. Epub 2021 Aug 3. PMID: 34352311; PMCID: PMC8328528.
7. May RM, **Cassol C**, Hannoudi A, Larsen CP, Lerma E, Haun RS, Braga JR, Hassen SI, Wilson J, VanBeek C, Vankalakunti M, Barnum L, Walker PD, Bourne TD, Messias NC, Ambruzs JM, Boils CL, Sharma SS, Cossey LN, Baxi PV, Palmer M, Zuckerman J, Walavalkar V, Urisman A, Gallan A, Al-Rabadi LF, Rodby R, Luyckx V, Espino G, Santhana-Krishnan S, Alper B, Lam SG, Hannoudi GN, Matthew D, Belz M, Singer G, Kunaparaju S, Price D, Sauabh C, Rondla C, Abdalla MA, Britton ML, Paul S, Ranjit U, Bichu P, Williamson SR, Sharma Y, Gaspert A, Grosse P, Meyer I, Vasudev B, El Kassem M, Velez JCQ, Caza TN. A multi-center retrospective

- cohort study defines the spectrum of kidney pathology in Coronavirus 2019 Disease (COVID-19). *Kidney Int.* 2021 Aug 2;S0085-2538(21)00734-1. doi: 10.1016/j.kint.2021.07.015. Epub ahead of print. PMID: 34352311; PMCID: PMC8328528.
8. Peyster EG, Arabyarmohammadi S, Janowczyk A, Azarianpour-Esfahani S, Sekulic M, **Cassol C**, Blower L, Parwani A, Lal P, Feldman MD, Margulies KB. An automated computational image analysis pipeline for histological grading of cardiac allograft rejection. *Eur Heart J.* 2021 Jun 21;42(24):2356-2369. doi: 10.1093/eurheartj/ehab241. PMID: 33982079; PMCID: PMC8216729.
 9. Zheng Y, **Cassol CA**, Jung S, Veerapaneni D, Chitalia VC, Ren K, Bellur SS, Boor P, Barisoni LM, Waikar SS, Betke M, Kolachalama VB. Deep learning-driven quantification of interstitial fibrosis in digitized kidney biopsies. *Am J Pathol.* 2021 May 22;S0002-9440(21)00208-X. doi: 10.1016/j.ajpath.2021.05.005. Epub ahead of print. PMID: 34033750.
 10. Jayapandian CP, Chen Y, Janowczyk AR, Palmer MB, **Cassol CA**, Sekulic M, Hodgins JB, Zee J, Hewitt SM, O'Toole J, Toro P. Development and evaluation of deep learning-based segmentation of histologic structures in the kidney cortex with multiple histologic stains. *Kidney Int.* 2021 Jan;99(1):86-101. doi: 10.1016/j.kint.2020.07.044. Epub 2020 Aug 22. PMID: 32835732.
 11. Chen Y, Zee J, Smith A, Jayapandian C, Hodgins J, Howell D, Palmer M, Thomas D, **Cassol C**, Farris AB 3rd, Perkinson K, Madabhushi A, Barisoni L, Janowczyk A. Assessment of a computerized quantitative quality control tool for whole slide images of kidney biopsies. *J Pathol.* 2021 Mar;253(3):268-278. doi: 10.1002/path.5590. Epub 2021 Jan 5. PMID: 33197281.
 12. Satoskar AA, Alsanani A, Brodsky SV, **Cassol C**, Prosek J, Kandukurti K, Ayoub I, Khan A, Devarakonda S, Nadasdy T. Diffuse "background" monoclonal light chain staining on kidney biopsies in the absence of electron-dense deposits - putting it into perspective: A retrospective cohort study. *Clin Nephrol.* 2020 Dec;94(6):307-317.
 13. **Cassol CA**, Gokden N, Larsen CP, Bourne TD. Appearances Can Be Deceiving - Viral-like Inclusions in COVID-19 Negative Renal Biopsies by Electron Microscopy. *Kidney360* Aug 2020, 1 (8) 824-828; DOI: 10.34067/KID.0002692020
 14. **Cassol CA**, Owen D, Kendra K, Braga JR, Frankel WL, Arnold CA. Programmed cell death-1 (PD-1) and programmed death-ligand 1 (PD-L1) expression in PD-1 inhibitor-associated colitis and its mimics. *Histopathology.* 2020 Aug;77(2):240-249.
 15. Brodsky SV, Nadasdy T, **Cassol C**, Satoskar A. IgA Staining Patterns Differentiate Between IgA Nephropathy and IgA-Dominant Infection-Associated Glomerulonephritis. *Kidney Int Rep.* 2020 Jun;5(6):909-911.
 16. Campbell CM, **Cassol C**, Cataland SR, Kahwash R. Atypical haemolytic uraemic syndrome: a case report of a rare cause of reversible cardiomyopathy. *Eur Heart J Case Rep.* 2020 Mar 12;4(2):1-6. doi: 10.1093/ehjcr/ytaa050. PMID: 32352052; PMCID: PMC7180527.
 17. Alawieh R, Brodsky SV, Satoskar AA, Nadasdy T, Parikh SV, Rovin B, **Cassol CA**. Membranous Nephropathy With Crescents. *Kidney international reports.* 2020 Apr 1;5(4):537-41.
 18. Ayoub I, **Cassol C**, Almaani S, Rovin B, Parikh SV. The Kidney Biopsy in Systemic Lupus Erythematosus: A View of the Past and a Vision of the Future. *Adv Chronic Kidney Dis.* 2019 Sep;26(5):360-368. doi: 10.1053/j.ackd.2019.08.015. Review. PubMed PMID: 31733720.

19. **Cassol CA**, Williams MPA, Caza TN, Rodriguez S. Renal and pulmonary thrombotic microangiopathy triggered by proteasome-inhibitor therapy in patient with smoldering myeloma: A renal biopsy and autopsy case report. *Medicine (Baltimore)*. 2019 Sep;98(39):e17148.
20. **Cassol C**, Satoskar A, Lozanski G, Rovin B, Hebert L, Nadasdy T, Brodsky SV. Anti-PD-1 Immunotherapy May Induce Interstitial Nephritis With Increased Tubular Epithelial Expression of PD-L1. *Kidney Int Rep*. 2019 Jun 20;4(8):1152-1160.
21. **Cassol CA**, Braga JR, Hartage R, Satoskar AA, Nadasdy T, Brodsky SV. Lost in Transportation: Calcium Oxalate Crystals in Kidney Biopsy Specimens Fixed in Michel Medium May Disappear. *Arch Pathol Lab Med*. 2020 Apr;144(4):485-489.
22. **Cassol CA**, Bott C, Nadasdy GM, Alberton V, Malvar A, Nagaraja HN, Nadasdy T, Rovin BH, Satoskar AA. Immunostaining for galactose-deficient immunoglobulin A is not specific for primary immunoglobulin A nephropathy. *Nephrol Dial Transplant*. 2020 Dec 4;35(12):2123-2129. doi: 10.1093/ndt/gfz152. PubMed PMID: 31369128.
23. **Cassol CA**, Brodsky SV, Satoskar AA, Blissett, A, Cataland S, Nadasdy T. Eculizumab deposits in vessel walls in thrombotic microangiopathy. *Kidney Int*. 2019 Sep;96(3):761-768. doi: 10.1016/j.kint.2019.05.008. Epub 2019 May 24. PMID: 31345584.
24. Von Visger J, **Cassol C**, Nori U, Franco-Ahumada G, Nadasdy T, Satoskar AA. Complete biopsy-proven resolution of deposits in recurrent proliferative glomerulonephritis with monoclonal IgG deposits following rituximab treatment in renal allograft. *BMC Nephrol*. 2019 Feb 14;20(1):53.
25. **Cassol CA**, Rao PK, Braga JR. Acute renal failure in a patient with PR3-ANCA and monoclonal immunoglobulin deposition disease: Case report. *Medicine (Baltimore)*. 2018 Dec;97(52):e13799.
26. Sharmeen S, **Cassol C**, Kato H. ANCA-Associated Necrotizing Glomerulonephritis Overlapping with Mesangial Proliferative Lupus Nephritis Refractory to Plasmapheresis, Steroid Pulse Therapy, and a Combination of Mycophenolate Mofetil and Rituximab, Case Reports in *Rheumatology*, 2018:3076806.
27. **Cassol CA**, Hod-Dvorai R, Hubbell C, Aggarwal V, Sinha S, Gentile T, Hutchison RE. Donor-derived Philadelphia chromosome positive B-cell lymphoblastic leukemia presenting with renal allograft involvement in the first year post-transplant. *Am J Transplant*. 2019 Mar;19(3):956-957.
28. Malavade T, **Cassol CA**, John R, Husain S, Chen C, Chan C. Polyomavirus nephropathy in autologous stem cell transplantation. *Kidney Int Rep*. 2018 Jan 5;3(3):748-751.
29. **Cassol CA**, Braga JR, Dabbo S, Khalili K, Avila-Casado C. Effectiveness and safety of two 18-gauge needle types on native and allograft renal biopsies. *Ann Diagn Pathol* 2017;28:1-6.
30. **Cassol CA**, Mete O. Endocrine Manifestations of Von-Hippel Lindau Disease. *Arch Pathol Lab Med* 2015;139:263-268.
31. **Cassol CA**, Winer D, Liu W, et al. Tyrosine kinase receptors as molecular targets in pheochromocytoma and paraganglioma. *Mod Pathol* 2014;27(8):1050-62.
32. Chui MH, **Cassol CA**, Asa SL, et al. Follicular epithelial dysplasia of the thyroid: morphological and immunohistochemical characterization of a putative preneoplastic lesion to papillary thyroid carcinoma in chronic lymphocytic thyroiditis. *Virchows Arch* 2013;462(5):557-63.
33. Erovic BM, Kim D, **Cassol C**, et al. Prognostic and predictive markers in medullary thyroid carcinoma. *Endocr Pathol* 2012;23(4):232-42.

34. Balogh K, Asa SL, Zheng L, Cassol C, et al. The insulin resistance Grb14 adaptor protein promotes thyroid cancer ret signaling and progression. *Oncogene* 2012;31(36):4012-21.
35. Cassol CA, Asa SL. Molecular Pathology of Thyroid. *Diagnostic Histopathology* 2011;17(3):124-39.
36. Cassol CA, Guo M, Ezzat S, et al. GNAq Mutations are Not Identified in Papillary Thyroid Carcinomas and Hyperfunctioning Thyroid Nodules. *Endocrine Pathology* 2010;21(4):250-2.
37. Cassol CA, Noria D, Asa SL. Ectopic Thyroid Tissue within the Gall Bladder: Case Report and Brief Review of the Literature. *Endocrine Pathology* 2010;21(4):263-5.
38. Cassol CA, Pellegrin CP, Wahys MLC, et al. Clinical Profile of Santa Catarina Members of Brazilian Celiacs Association. *Arq Gastroenterol* 2007;44(3):257-65.

ABSTRACTS

Platform Presentations

At national/international meetings

1. Analysis of the FGFR4 Single Nucleotide Polymorphism in Pheochromocytomas and Paragangliomas. Platform presented at the 2011 USCAP Annual Meeting, San Antonio, 2011.
2. Evaluation of Knowledge about Celiac Disease: Treatment and Dietary Compliance among Santa Catarina Members of the Brazilian Celiacs Association. XI Brazilian Congress of Nutrition, 2007.

At local/regional meetings

1. Molecular Pathology of Thyroid. Resident's Teaching Session, University of Toronto, Aug 2010.
2. The Role of Digestive Endoscopy in the Diagnosis of Celiac Disease. XVI Brazilian Seminar of Digestive Endoscopy and South-Brazilian Congress of Endoscopy, 2003.

Posters

At national/international meetings

1. Caza T et al. Glomerular Disease in Temporal Association to SARS-CoV-2 RNA Vaccination: A Series of 16 Cases. ASN 2021.
2. Wenderfer S et al. "Features and Outcomes of Patients with C1q Nephropathy in the NEPTUNE and CureGN Cohorts – Comparisons to Minimal Change Disease and Focal Segmental Glomerulosclerosis". ASN 2021.
3. May R, Caza T, Cassol C, Walker P, Bourne T, Messias N, Dvanajscak Z, Sharma S, Cossey LN, Larsen C. Unique Clinicopathologic Findings in Adenovirus Nephritis. In *LABORATORY INVESTIGATION* 2021 Mar 1 (Vol. 101, No. SUPPL 1, pp. 1011-1013). CAMPUS, 4 CRINAN ST, LONDON, N1 9XW, ENGLAND: SPRINGER NATURE.
4. Sinha R, Cassol CA, Sharshir MA, Atari MJ, Teran F. MYELOMA KIDNEY AND KAPPA-LIGHT CHAIN CRYSTAL-STORING HISTIOCYTOSIS. In *JOURNAL OF INVESTIGATIVE*

- MEDICINE 2021 Feb 1 (Vol. 69, No. 2, pp. 673-673). BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE, LONDON WC1H 9JR, ENGLAND: BMJ PUBLISHING GROUP.
5. Zimmerer JM, Han JL, Zeng Q, Ringwald BA, Cassol C, Warren R, Abdel-Rasoul M, Breuer CK, Bumgardner GL. Antibody-Suppressor CD8 (+) T Cells Ameliorate Antibody-Mediated Rejection Following Kidney Transplant in Mice. In AMERICAN JOURNAL OF TRANSPLANTATION 2020 Apr 1 (Vol. 20, pp. 697-697). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
 6. Chavez J, Frankel W, Cassol C, Arnold C, Owen D, Chen W. Immunotherapy Related Hepatitis: Histology, Lymphocytic Infiltrate Characterization and PD-L1 Staining Pattern. In LABORATORY INVESTIGATION 2020 Mar 1 (Vol. 100, No. SUPPL 1, pp. 1511-1511). 75 VARICK ST, 9TH FLR, NEW YORK, NY 10013-1917 USA: NATURE PUBLISHING GROUP.
 7. Alawieh R, Doraiswamy M, Cassol C, Singh P, Ayoub I. FROM MEMBRANOUS NEPHROPATHY TO PROLIFERATIVE GLOMERULONEPHRITIS WITH MONOCLONAL IGG1 KAPPA DEPOSITS: REPORT OF A PEDIATRIC CASE. In AMERICAN JOURNAL OF KIDNEY DISEASES 2020 Apr 1 (Vol. 75, No. 4, pp. 542-542). 1600 JOHN F KENNEDY BOULEVARD, STE 1800, PHILADELPHIA, PA 19103-2899 USA: WB SAUNDERS CO-ELSEVIER INC.
 8. Carter J, Cassol C, Ashfaq N, Leisring J. AN UNUSUAL RENAL PRESENTATION OF MULTIPLE MYELOMA. In AMERICAN JOURNAL OF KIDNEY DISEASES 2020 Apr 1 (Vol. 75, No. 4, pp. 554-554). 1600 JOHN F KENNEDY BOULEVARD, STE 1800, PHILADELPHIA, PA 19103-2899 USA: WB SAUNDERS CO-ELSEVIER INC.
 9. Gleicher S, Cassol C, Jacob J, Shapiro O, Elvin J, Vergilio JA, Suh J, Ramkissoon S, Ali S, Schrock A, Miller V. CARCINOMAS OF THE RENAL MEDULLA: A COMPREHENSIVE GENOMIC PROFILING (CGP) STUDY: PD46-02. The Journal of Urology. 2018 Apr;199(4).
 10. Mete O, Pakbaz S, Cassol C, Asa S. The Spectrum and Clinical Features of Paragangliomas. In LABORATORY INVESTIGATION 2018 Mar 1 (Vol. 98, pp. 234-234). 75 VARICK ST, 9TH FLR, NEW YORK, NY 10013-1917 USA: NATURE PUBLISHING GROUP.
 11. Urbanellis P, Hamar M, Linares I, Kollmann D, Cassol C, John R, Yip P, Mucsi I, Ghanekar A, Bagli D, Grant D. Normothermic Ex-Vivo Kidney Perfusion Improves Function of Extreme Marginal Renal Grafts Subjected to Prolonged Ischemia. In AMERICAN JOURNAL OF TRANSPLANTATION 2017 Apr 1 (Vol. 17, pp. 552-553). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
 12. Cassol CA, Dabbo S, Braga JR, Khalili K, Avila-Casado C. Safety and Effectiveness of Two 18-Gauge Needle Types on Medical Renal Biopsies. World Congress of Nephrology, Mexico City, 2017.
 13. Cassol CA, Braga J, Kim JS, John R. Factors Affecting Kidney Allograft Outcome in Transplant Glomerulopathy. Banff-SCT Joint Scientific Meeting, Barcelona, Spain, 2017.
 14. Cassol CA, Avila-Casado MC. Comparative study on the efficacy of two 18-gauge needle types on native and allograft renal biopsies. 67th Annual Meeting of the Canadian Association of Pathologists. Vancouver, 2016.
 15. Felipe-Silva A, Wakamatsu A, Cirqueira CS, Cassol C, Alves VA. Broad Immunohistochemistry Panel in Hepatocellular Carcinoma Seems to Segregate Molecular Subtypes by Grade: A Cross-

- Sectional Study in 80 Brazilian Autopsies. *Laboratory Investigation* 2014;94(S1):419A. USCAP Annual Meeting, San Diego, US, 2014.
16. **Cassol CA**, Winer D, Liu W, Asa SL. Sunitinib Targets in Pheochromocytomas and Paragangliomas. *Mod Pathol* 2013;26(S2):130A. 102st USCAP Annual Meeting, Baltimore, 2013.
 17. **Cassol CA**, Asa SL. Cell Cycle Regulators in Pheochromocytomas and Paragangliomas and Correlation with SDHx Status and FGFR4 Genotype. *Mod Pathol* 2012;25(S2):143A. 101st USCAP Annual Meeting, Vancouver, 2012.
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BIOGRAPHICAL NARRATIVE

I am a Renal and Transplant pathology specialist. My initial AP training was at the University of Sao Paulo, Brazil, after which I moved to Canada to pursue a 2-year Molecular Oncologic Pathology fellowship at the University of Toronto. My studies at the time focused on endocrine malignancies, particularly pheochromocytomas and paragangliomas, for which I received the USCAP Stowell-Orbinson Award in 2014. I subsequently completed a 5-year Anatomic Pathology residency at the same institution, where I also served as a chief resident. Upon completion of residency, I received the University of Toronto Stanley-Raphael award for professionalism and went on to pursue a Renal Pathology Fellowship, also at the University of Toronto. I then joined SUNY Upstate Medical University as a dedicated Renal and Transplant pathologist, where I worked for one year. I joined The Ohio State Renal Pathology Division in August 2018 and have been working as a dedicated renal and transplant pathologist since. My research interests include glomerular and tubulointerstitial diseases, acute and chronic renal and heart allograft rejection, and the application of digital pathology to transplant and medical renal disease.