

## CURRICULUM VITAE

**Danniele Gomes Holanda, MD**  
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### PERSONAL DATA

Office Address: Arkana Laboratories  
10810 Executive Center Drive, Suite 100  
Little Rock, AR 72211  
501.604.2695

### EDUCATION

University Degree: Universidade Federal do Ceará, Brazil  
MD  
August, 1996 - September, 2000

Extern (Anatomic Pathology) - BIOPSE -  
Biomedics & Research Laboratories, Fortaleza, Brazil  
August, 1996 - June, 1999

Post-Graduate: University of Maryland Medical Center, Baltimore, Maryland  
Resident (Pathology) - Mentor: Olga B Ioffe  
August, 2005 - June, 2009

Johns Hopkins University, Baltimore, Maryland  
Fellow (Renal Pathology) - Mentor: Erin Rubin  
July, 2010 - June, 2011

University of Iowa Carver College of Medicine, Iowa City, Iowa  
Postdoctoral Fellow (Anatomic Pathology/Hybrid Renal  
Pathology Reseach) Mentor: Ramesh Nair  
July, 2011 - June, 2013

### EMPLOYMENT

Staff Pathologist: Arkana Laboratories  
10810 Executive Center Drive, Ste. 100  
Little Rock, AR 72211  
September, 2021 – Present

Director, Electron Microscopy  
Laboratory                      University of Iowa Carver College of Medicine, Iowa City, Iowa  
May, 2014 - August, 2021

Head, Division of  
Renal Pathology                      University of Iowa Carver College of Medicine, Iowa City, Iowa  
Department of Pathology  
May, 2014 - August, 2021

Associate  
Professor                      University of Iowa Carver College of Medicine, Iowa City, Iowa  
May, 2019 - August, 2021

Clinical Assistant  
Professor                      University of Iowa Carver College of Medicine, Iowa City, Iowa  
May, 2013 - August, 2019

## **ACADEMIC APPOINTMENTS**

University of Maryland, Development of the Maryland Aggregate Pathologic Index for Assessment of Cadaveric Frozen Kidney Biopsies Working Protocol. Jan, 2008

University of Maryland, Validation of the Monoclonal N-Terminal-Pro B- type Natriuretic Peptide Immunoassay on the Dimension Vista® System September, 2008

University of Pittsburgh, Quality Assurance and Interobserver variability on interpretation of renal peritubular capillary C4d immunoperoxidase stain among pathologists at the University of Pittsburgh Transplantation Service. July, 2012

What Does C3GN Look Like Today C3 Glomerulopathy Annual Family Conference, UIHC Department of Molecular Research, Iowa City, Iowa Conference given to patients and families October, 2017-October, 2019

## **MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS:**

American Society of Clinical Pathology  
College of American Pathologists  
Renal Pathology Society  
United States and Canadian Academy of Pathology  
International Society of Nephrology  
American Society of Nephrology

## **BOARD CERTIFICATION**

Anatomic Pathology, The American Board of Pathology, Certified 2012

## **TEACHING**

### **Classroom, Seminar, Teaching Laboratory**

Microbiology Didactic Lecture Series, Lecturer University of Maryland, August 2007

Microbiology Didactic Lecture Series Part II, Lecturer University of Maryland, September 2007

Primary Gastric Lymphoma, Lecturer University of Maryland, August, 2005 - September, 2007

Pathology Course, Practical Sessions, The John Hopkins University School of Medicine

*Renal Pathology Module*, Jun, 2009 - July, 2010

Pathology Small Group, University of Pittsburgh School of Medicine, April, 2010 - April, 2011

Renal Pathology Module

MOHD III, Lecturer University of Iowa, April, 2015- April, 2021

- 1) The Kidney - Normal anatomy and pathology
- 2) Glomerular disease with emphasis in hematuria
- 3) Glomerular disease with emphasis in proteinuria

MOHD III Small Group, Facilitator University of Iowa, April, 2015 - April, 2021

### **Institutional Conferences, Grand Rounds, Journal Clubs, Etc.**

Transfusion of Granulocytes, Johns Hopkins University, October 2007

Blood Components: Preparation, Storage and Characteristics, University of Maryland, March 2008

Blood-Borne Pathogen Safety, University of Maryland, June - July 2008

Chemical Safety, University of Maryland, July 2008

Pathology Seminars: An atypical presentation of renal amyloid and a review of current concepts - University of Iowa Hospitals and Clinics, September 2010

An atypical presentation of renal amyloid and a review of current concepts - University of Pittsburgh, January 2011

Pathology Fellow Orientation - The University of Iowa Hospitals and Clinics, University of Iowa Carver College of Medicine. *Preparation, Significance and Interpretation of Donor Kidney Biopsies. Biennial, ongoing activity.* July 2011 - August 2021

Educational Clinicopathological Correlation Departmental. Renal Pathology Conferences - The University of Iowa Hospitals and Clinics, August 2011 - August 2021

Nephrology Fellow Didactic Conference - The University of Iowa Hospitals and Clinics, University of Iowa Carver College of Medicine, August 2011 - August 2021

Electron Microscopy Quality Control - University of Iowa Hospitals and Clinics, University of Iowa Carver College of Medicine, *Weekly quality control and electron microscopy interpretation finding discussion of kidney biopsies with the electron microscopy technicians of the University of Iowa Pathology Department. Electron Microscopy Laboratory. (University of Iowa Hospitals and Clinics).* October 2012 - Present

CME Renal Biopsy Conference, University of Iowa Carver College of Medicine *Given to Internal Medicine Faculty, 2013-2021*

Pathology Resident Didactic Conference - Immunopathology Division, 2013 - 2021

Renal Pathology Rotation, *Supervised Pathology Residents on Renal Pathology rotations,* May 2013 - August 2021

## **INVITED LECTURES**

1. Baltimore, Maryland. Analysis of Pancreas Biopsies for Reproducibility of Banff Schema for Grading of Acute Pancreas Rejection. September 2018
2. Transplant Weekly Education Conference, Davis University of California, Sacramento, California. Antibody: Mediated Rejection: A BANFF Update. December 2015
3. Resident Interactive Lecture, Davis University of California, Sacramento, California. Interpretation of Native Renal Pathology. December 2015
4. Grand Rounds, Davis University of California, Sacramento, California. Use of Donor Duodenal Cuff Biopsy as a Surrogate in Evaluation of Pancreas Allograft Rejection. December 2015

## **AREAS OF RESEARCH INTEREST**

Antibody Mediated Rejection in Renal Allografts.  
C3 Glomerulopathy.

Polyomavirus Nephropathy.  
Rejection Mechanisms in Pancreas Allografts.

## GRANTS

*Natural History of C3 Glomerulopathy Collaborative Grant*, NIH Percent effort: 5

## PUBLICATIONS

1. **Holanda D**, Zhao MY, Rapoport AP, Garofalo M, Chen Q, Zhao XF. Primary gastric T cell lymphoma mimicking marginal zone B cell lymphoma of mucosa-associated lymphoid tissue. *Journal of Hematopathology*. 2008 July 1;1(1):29-35. PMID:19669202. PMCID: PMC2712325. doi: 10.1007/s12308-008-0006-8.
2. Lipson EJ, Huff CA, **Holanda DG**, McDevitt MA, Fine DM. Lenalidomide-induced acute interstitial nephritis. *Oncologist*. 2010;15(9):961-4. PMID:20709889.
3. **Holanda DG**, Acharya VK, Dogan A, Racusen LC, Atta MG. Atypical presentation of atypical amyloid. *Nephrol Dial Transplant*. 2011 January;26(1):373-6. PMID:20940371.
4. Stewart Z, Collins T, Schlueter A, Raife T, **Holanda DG**, Nair R, Reed A, Thomas CP. Case report: Eculizumab rescue of severe accelerated antibody-mediated rejection after ABO-incompatible kidney transplant. *Transplant Proc*. 2012 December;44(10):3033-6. PMID:23195021.
5. Gbadegesin RA, Brophy P, Adeyemo A, Hall G, Gupta IR, Hains D, Bartkowiak B, Rabinovich CE, Chandrasekharappa S, Homstad A, Westreich K, Wu G, Liu Y, **Holanda DG**, Clarke J, Lavin P, Selim A, Miller S, Winer JS, Ross SS, Foreman J, Rotimi C, Winn MP. TNXB Mutations Can Cause Vesicoureteral Reflux. *J Am Soc Nephrol*. 2013 April 25. PMID:23620400.
6. Tohme FA, Katz D, **Holanda DG**, Thomas CP. Quiz page April 2013: Recurrent episodes of acute kidney injury in a kidney transplant recipient. *Am J Kidney Dis*. 2013 April;61(4):A22-4. PMID:23497770.
7. Zhang Y, Nester CM, **Holanda DG**, Marsh HC, Hammond RA, Thomas LJ, Meyer NC, Hunsicker LG, Sethi S, Smith RJ. Soluble CR1 therapy improves complement regulation in C3 glomerulopathy. *Journal of American Society of Nephrology*. 2013 August 1. PMID:23907509.
8. Mathew JC, **Holanda DG**, Figanbaum TL, Fraer M, Thomas CP. Late-onset BK viral nephropathy in a kidney transplant recipient. *Transplant Proc*. 2014 September;46(7):2386-90. PMID:25242792. doi:10.1016/j.transproceed.2014.06.047.
9. Ishigami K, Pakalniskis MG, Leite LV, Lee DK, **Holanda DG**, Rajput M. Characterization of renal cell carcinoma, oncocytoma, and lipid-poor

- angiomyolipoma by unenhanced, nephrographic, and delayed phase contrast-enhanced computed tomography. *Cin Imaging*. 2014 October 16;14:238-1. PMID:25457535. doi: 10.1016/j.clinimag.2014.09.008.
10. Ishigami K, Leite LV, Pakalniskis M, Lee DK, **Holanda DG**, Kuehn DM. Tumor Grade of Clear Cell Renal Cell Carcinoma Assessed by Contrast-Enhanced Computed Tomography. *SpringerPlus*. 2014 November 26;3:394. doi:
  11. Kuppachi S, Kaur D, **Holanda DG**, Thomas CP. BK polyoma virus infection and renal disease in non-renal solid organ transplantation. *Oxford University Press*. 2015 December 30;9(1).
  12. Kuppachi S, **Holanda D**, Gallegos S, Field EH. C1q Donor-Specific Antibody Associates with Post-transplant Biopsy Findings in Highly- Sensitized Kidney Transplant Recipients. *Clinical transplants*. 2016 January 1;32:127-134. PMID:28564530.
  13. Kuppachi S, **Holanda D**, Thomas CP. Light Chain Deposition Disease After Kidney Transplantation With Long Graft Survival: Case Report, *Transplantation Proceedings*. 2016 January;48(1):255-258. doi: 0.1016/j.transproceed.2015.12.009.
  14. Kuppachi S, **Holanda D**, Eberlein M, Alexiev B, Tyler AJ, Wissel MC, Kleiboeker SB, Thomas CP. An Unexpected Surge in Plasma BKPyV Viral Load Heralds the Development of BKPyV-Associated Metastatic Bladder Cancer in a Lung Transplant Recipient With BKPyV Nephropathy. *American Journal of Transplantation*. 2017 March 1;17(3):813-818. PMID:27647675. doi: 10.1111/ajt.14057
  15. Mapuskar KA, Wen H, **Holanda DG**, Rastogi P, Steinbach E, Han R, Coleman MC, Attanasio M, Riley DP, Spitz DR, Allen BG, Zepeda-Orozco D. Persistent increase in mitochondrial superoxide mediates cisplatin-induced chronic kidney disease. *Redox biology*. 2018 September 27;20:98-106. PMID:30296702. doi: 10.1016/j.redox.2018.09.020
  16. Giudici MC, Ahmad F, **Holanda DG**. IgA nephropathy in a patient with a PRKAG2 mutation- A case report. *European Heart Journal*. Volume 3, Issue 2, June 2019, ytz038. <http://doi.org/10.1093/ehjcr/ytz038>
  17. Oo, S., Freese, M. **Holanda, D.** Thomas, C., et al. Spontaneous remission of genetic, apparent primary, FSGS presenting with nephrotic syndrome challenges traditional notions of primary FSGS. *J Nephrol* (2020). <https://doi.org/10.1007/s40620-020-00837-7>
  18. Mohammad Obeidat, Alexandra L Isaacson, Stephanie J. Chen, Marina Ivanovic & **Danniele Holanda** (2020): Zebra-like bodies in COVID-19: is phospholipidosis evidence of hydroxychloroquine induced acute kidney injury? *Ultrastructural*

Pathology DOI: 10.1080/01913123.2020.1850966.  
<https://doi.org/10.1080/01913123.2020.1850966>

19. Chrstie P Thomas, Sonali Gupta, Margaret E Freeze, K K Chouhan, Maisie I Dantuma, **Danniele G. Holanda**, Daniel A Katz, Benjamin W Darbo, Maria A Mansilla, R S Smith: Sequential genetic testing of living-related donors for inherited renal disease to promote informed choice and enhance safety of living donation. *Transpl Int.* 2021 Oct 10. doi: 10.1111/tri.14133.

## BOOKS AND/OR CHAPTERS

1. Furusato B, Burke AP, Sesterhenn IA, Holanda DG. Chapter 10: Urinary System. *Anatomic and Clinical Pathology Board Review.* Wolters Kluwer. 2017. p. 259-279.
2. Carla M. Nester and Danniele G. Holanda. Chapter: Membranoproliferative Glomerulonephritis. *Clinical Pediatric Nephrology.* Taylor & Francis. 3rd Ed. 2016. eBook ISBN981315382319.

## ABSTRACTS

1. **Holanda DG**, Bastos A, Medeiros FC. Assessment of FSH and LH serum levels and fertility before and after Clomiphene Citrate administration, Annual Brazilian Society of Gynecology and Obstetrics Meeting. 1995.
2. **Holanda DG**, Bastos AV, Medeiros FC. Evaluation of the Ovarian Reserve in 80 Infertile Women prior and following the administration of Clomiphene Citrate, III Medical Student's Regional Scientific Meeting. 1996.
3. **Holanda D**, Kelley W, Duh SH, Snyder J, Christenson R. Validation of the monoclonal IN-terminal-pro B-type natriuretic peptide immunoassay on the dimension vista® system., *Annals of the American Journal of Clinical Chemistry and Laboratory Medicine.* 2008 June 30.
4. Field EH, Kuppachi S, Zepeda-Orozco D, **Holanda DG**. P113 Predictive value of C1q donor specific antibody in identifying pathologic features of AMR, *Human Immunology.* 2016 September;77:121. doi: 10.1016/j.humimm.2016.07.178.

## CONFERENCE PROCEEDING

Haas M, Sis B, Racusen LC, Solez K, Glotz D, Colvin RB, Castro MC, David DS, David-Neto E, Bagnasco SM, Cendales LC, Cornell LD, Demetris AJ, Drachenberg CB, Farver CF, Farris, 3rd AB, Gibson IW, Kraus E, Liapis H, Loupy A, Nicleleit V, Randhawa P, Rodriguez ER, Rush D, Smith RN, Tan CD, Wallace WD, Mengel M, B M R W C. Banff 2013 meeting report: inclusion of c4d-negative antibody-mediated rejection and

antibody-associated arterial lesions. American journal of transplantation: official journal of the American Society of Transplantation and the American Society of Transplant Surgeons. 2014 February 1;14(2):272-83. PMID:24472190. doi: 10.1111/ajt.12590.

## **PRESENTATIONS**

### **Conference Presentation**

1. Annual Brazilian Society of Gynecology and Obstetrics Meeting, Brazilian Society of Gynecology and Obstetrics, Fortaleza Brazil. Assessment of FSH and LH serum levels and fertility before and after Clomiphene Citrate administration. Bastos, A, Medeiros, FC, Holanda, DG. 1995
2. III Medical Student's Regional Scientific Meeting, Universidade Federal Da Paraiba, Campina Grande Brazil. Evaluation of the Ovarian Reserve in 80 Infertile Women prior and following the administration of Clomiphene Citrate. Bastos, AV, Medeiros, FC, Holanda, DG. June 1996
3. International Federation of Clinical Chemistry and Laboratory Medicine, Fortaleza Brazil. Validation of the Monoclonal N-Terminal-Pro B-type Natriuretic Peptide Immunoassay on the Dimension Vista System. October 2008
4. International Federation of Clinical Chemistry and Laboratory Medicine. Validation of the Monoclonal N-Terminal-Pro B-type Natriuretic Peptide Immunoassay on the Dimension Vista® System. Holanda, DG. May 2013
5. JB Stokes Iowa Kidney Day, University of Iowa Hospitals and Clinics, Iowa City, Iowa. A Practical Approach to the Renal Biopsy. Holanda, DG.

### **Grand Rounds**

1. University of Alabama, Birmingham, Alabama. Transfusion of Aged Red Cells - "Are Old Red Cells Bad?". September 2008
2. Pathology Grand Rounds, University of Iowa Carver College of Medicine, Iowa City. What is new (and what is not) in organ transplantation(Updates from the 12th Banff Conference on Allograft Pathology). December 2013
3. Pathology Grand Rounds, University of Iowa Carver College of Medicine, Iowa City, Iowa. The Implementation of Medical Disease Evaluation in Tumor Nephrectomy Specimens at UIHC: A Retrospective First Year Review.



### **Oral**

1. 12th BANFF Conference on Allograft Pathology, Comandatuba Brazil. Diagnosis of allograft rejection in the pancreas duodenal cuff - Retrospective Studies. Holanda, DG (Presenter). August 2013
2. 13th BANFF Conference on Allograft Pathology, Vancouver Canada. Diagnosis of allograft rejection in the pancreas duodenal cuff - Retrospective Studies – An Update. August 2015
3. 27th International Congress of the Transplantation Society (TTS), Madrid Spain. Using Allograft Duodenal Cuff Biopsy as Surrogate in Evaluation of Pancreatic Transplant Rejection - A Multicenter Data Effort; Holanda, DG, Drachenberg, CB, Minervini, M, Papadimitriou, J, Arend, L, Odorico, JS, Perosa, M, Roufosse, C, Kort, HD, Reims, HM, Reinhold, FP, Goldberg, JC, Honsova, E, Voska, L, Larsson, E, Paraskevas, S, Seshan, S, Torrealba, H. June 2018
4. 15th BANFF Conference on Allograft Pathology, Pittsburgh PA. Diagnosis of allograft rejection in the pancreas and duodenum. September 2019

### **Poster**

1. Proceedings of the 16th Annual International Society for Magnetic Resonance in Medicine Meeting, Annual International Society for Magnetic Resonance in Medicine, Toronto Canada. Correlation of In vivo MR Imaging findings with whole mount histological sections from radical prostatectomy patients. Zhang, B, Siddiqui, KA, Papadimitriou, J, Yfantis, H, Roys, S, Borin, J, Naslund, M, Gullapalli, R, Holanda, DG. May 2008
2. ASTS 13th Annual State of the Art Winter Symposium, ASTS, Seattle, Washington. Podocyte foot process effacement is not specific for recurrent FSGS early after kidney transplant. Sinddagunta, CP, Shetty, R, Holanda, DG, Nair, R, Katz, D. January 2013
3. International Society of Nephrology's World Congress of Nephrology. Melbourne, Australia. Unusual Presentation of Dense Deposit Disease. Holanda, DG, Obeidat, M., Rastogi P. April 2019

### **REVIEWER FOR ABSTRACTS/SESSION MODERATOR**

1. University of Maryland, Development of the Maryland Aggregate Pathologic Index for Assessment of Cadaveric Frozen Kidney Biopsies Working Protocol. 2008
2. University of Maryland, Validation of the Monoclonal N-Terminal-Pro B- type Natriuretic Peptide Immunoassay on the Dimension Vista® System 2008

3. University of Pittsburgh, Quality Assurance and Interobserver variability on interpretation of renal peritubular capillary C4d immunoperoxidase stain among pathologists at the University of Pittsburgh Transplantation Service. 2012
4. What Does C3GN Look Like Today C3 Glomerulopathy Annual Family Conference, UIHC Department of Molecular Research, Iowa City, Iowa Conference given to patients and families 2017-2019