

CURRICULUM VITAE

TOBY CHARLES CORNISH, M.D., Ph.D.

I. PERSONAL INFORMATION

Current Position:

Associate Professor, University of Colorado School of Medicine
 Vice-Chair for Informatics, Department of Pathology, University of Colorado
 Medical Director of Informatics, Department of Pathology, University of Colorado
 Medical Director of the Laboratory Information System, UCHealth System

Contact Information:

Business Address: University of Colorado Anschutz Medical Campus
 Department of Pathology
 Academic Office 1, Room L15-2109
 Mail Stop B216
 12631 East 17th Avenue
 Aurora, CO 80045

E-mail: toby.cornish@cuanschutz.edu

ORCID ID: [0000-0002-1902-2109](https://orcid.org/0000-0002-1902-2109)

ResearcherID: [A-4394-2015](https://pubs.rsos.royalsocietypublishing.org/author/A-4394-2015)

Scopus Author ID: [35326607400](https://orcid.org/35326607400)

ISNI: [0000000125723748](https://orcid.org/0000000125723748)

II. EDUCATION AND TRAINING

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|------|-----------------|-------------------------------------|----------------------|
| 1995 | B.S. | Bradley University, Peoria, IL | Biochemistry |
| 2004 | Ph.D. | University of Illinois, Urbana, IL | Neuroscience |
| 2005 | M.D. | University of Illinois, Chicago, IL | Medicine |
| 2006 | Intern | Johns Hopkins Hospital | Anatomic Pathology |
| 2007 | Asst. Resident | Johns Hopkins Hospital | Anatomic Pathology |
| 2008 | Research Fellow | Johns Hopkins University | Pathology |
| 2009 | Resident | Johns Hopkins Hospital | Anatomic Pathology |
| 2010 | Clinical Fellow | Johns Hopkins Hospital | GI & Liver Pathology |
| 2011 | Certificate | Johns Hopkins University | Clinical Informatics |

III. ACADEMIC APPOINTMENTS

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|----------------------|---|--|
| July 2010 - Jun 2011 | Assistant (Faculty), GI & Liver Pathology | JHU School of Medicine |
| July 2011 - Jan 2016 | Assistant Professor, Pathology | JHU School of Medicine |
| Jan 2016 - Present | Adjunct Assistant Professor, Pathology | JHU School of Medicine |
| Jan 2016 - Jun 2017 | Visiting Associate Professor, Pathology | University of Colorado School of Medicine |
| July 2017 - Present | Associate Professor, Pathology | University of Colorado School of Medicine |

IV. OTHER PROFESSIONAL POSITIONS

Hospital positions:

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| July 2010 - Jan 2016 | Pathologist | Johns Hopkins Hospital |
| July 2010 - Jan 2016 | Pathologist | Johns Hopkins Bayview Medical Center |
| July 2012 - Jan 2016 | Pathologist | Howard County General Hospital |
| July 2014 - Jun 2015 | Associate Director | Division of Informatics, Pathology Department, JHU Hospital |
| July 2015 - Jan 2016 | Interim Director | Division of Informatics, Pathology Department, JHU Hospital |
| Jan 2016 - Present | Medical Director of Informatics | Department of Pathology, University of Colorado School of Medicine |
| Jan 2016 - Present | Medical Director of the LIS | UC Health System |
| Jan 2016 - Present | Pathologist | University of Colorado Hospital |
| Sep 2018 - Jul 2021 | Medical Director of Clinical Informatics, Pathology and Lab Medicine | Children's Hospital Colorado |

Consultantships:

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| 2010 | Consultant | Hamamatsu, Inc |
| 2010 - 2014 | Sci. Advisory Board | Digipath, Inc. |
| 2012 - 2013 | Sci. Advisory Board | Accelpath, Inc. |
| 2013 | Consultant | Virginia Hospital Center |
| 2015 | Consultant | Guidepoint Global |

Other:

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| 2011 - 2012 | Member, Aperio, Inc. Repository Project Advisory Group |
| 2012 - 2016 | Co-director, Imaging and Image Analysis, Oncology Tissue Services Lab (formerly the Tissue Microarray Lab), JHU |
| 2015 - 2017 | Member, Advisory Panel, Digital Pathology Congress |
| 2016 - present | Member, American Registry of Pathology Editorial Advisory Board, Next Generation of ARP Publications (5th Series) |
| 2017 - 2018 | Member, Epic Systems Corp. Pathology Steering Board |
| 2017 - 2019 | Section Editor (Informatics), Editorial Board, <i>American Journal of Clinical Pathology</i> |
| 2017 - 2019 | Member, Leica, Inc. Pathology Imaging Advisory Board |
| 2017 - present | Member, Cerner Corp. CoPathPlus Pathology Advisory Committee |
| 2019 - present | Associate Editor (Informatics), Editorial Board, <i>American Journal of Clinical Pathology</i> |
| 2019 - present | Member, Leica, Inc. Advanced Staining and Imaging Advisory Board |

- 2019 - 2020 Member, Editorial Advisory Board, *Springer Lecture Notes in Artificial Intelligence: State-of-the-Art Survey: AI/Machine Learning for Digital Pathology*
- 2021 Member, Bristol Meyers Squibb, Ozanimod (ZEPOSIA®) Advisory Board: GI Pathologists' Insights on True North Biopsy Data and Real-World Biopsy Data Reporting to Guide Future BMS Trials

V. HONORS, SPECIAL RECOGNITIONS AND AWARDS

- 1998 - 1999 Program in Arms Control, Defense and International Security Research Fellowship (University of Illinois, Urbana-Champaign)
- 2000 University Fellowship (University of Illinois, Urbana-Champaign)
- 2000 - 2002 Developmental Neuroscience and Psychobiology Training Grant Fellow (NIH; University of Illinois, Urbana-Champaign)
- 2004 Daniel K. and Frances Bloomfield Award ("Outstanding Student Entering the Last Year of Studies in the Medical Scholars Program," University of Illinois, Urbana-Champaign College of Medicine)
- 2005 Donald Thrush Award for Excellence in Pathology (University of Illinois, Urbana-Champaign College of Medicine)
- 2008 Excellence in Basic Research, Pathology Young Investigators (JHU)
- 2008 College of American Pathologists Travel Grant, APIII (Advancing Practice, Instruction, and Innovation through Informatics) Meeting
- 2009 - 2010 Ruth L. Kirchstein NRSA Fellowship (JHU training grant)
- 2010 Excellence in Clinical Research, Pathology Young Investigators (JHU)
- 2010 - 2011 Yardley Fellow (Division of GI & Liver Pathology, JHU)
- 2012 Dr. Frank Netter Award for Special Contributions to Medical Education (Vesalius Trust)
- 2012 Grover Hutchins, M.D., Endowment, Faculty Support Award (JHU)
- 2014 Educational Innovation Award, Institute for Educational Excellence (JHU SOM)
- 2019 Summit Award for Excellence in Teaching and the Education of Pathologists (CU SOM Pathology Dept)
- 2020 Medical Student Small Group Teaching Certificate ("Awarded in recognition of exceptional service in teaching 10 or more small group sessions by a faculty member"; CU SOM Pathology Dept)
- 2020 The Power List 2020, "Big Breakthroughs", *The Pathologist Magazine*
- 2021 Medical Student Small Group Teaching Certificate ("Awarded in recognition of exceptional service in teaching 6 or more small group sessions by a faculty member"; CU SOM Pathology Dept)

VI. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- 2005 - 2021 Member, United States and Canadian Academy of Pathology (USCAP)
- 2006 - present Member, College of American Pathologists (CAP)
- 2006 - present Member, American Society for Clinical Pathology (ASCP)
- 2007 - present Member, Association for Pathology Informatics (API)
- 2009 - 2011 Member, American Association for Cancer Research (AACR)
- 2012 - present Member, Digital Pathology Association (DPA)
- 2015 - 2016 Member, American Medical Informatics Association (AMIA)

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| 2016 - present | Member, American Telemedicine Association (ATA) |
| 2018 - present | Member, Gastrointestinal Pathology Society (GIPS) |
| 2019 - present | Member, Healthcare Information and Management Systems Society (HIMSS) |
| 2019 - present | Member, Society for Imaging Informatics in Medicine (SIIM) |
| 2019 - present | Member, Pathology Innovation Collaborative Community (PICC)/Alliance for Digital Pathology |

VII. MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

Departmental:

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| 2009 - 2016 | Member, Web Site Committee, JHU SOM Pathology Dept |
| 2011 - 2015 | Member, Residency Selection Committee, JHU SOM Pathology Dept |
| 2014 - 2015 | Associate Director, Division of Informatics, JHU SOM Pathology Dept |
| 2015 - 2016 | Interim Director, Division of Informatics, JHU SOM Pathology Dept |
| 2016 - present | Medical Director, Pathology Informatics, CU SOM Pathology Dept |
| 2017 - present | Chairperson, Web Site Committee, CU SOM Pathology Dept |
| 2019 - 2021 | Co-Chairperson, Colorado Genetic Laboratory (CGL) & Colorado Molecular Correlates Laboratory (CMOCO) LIS Search Committee, CU SOM Pathology Department |
| 2021 - present | Vice-Chair for Informatics, CU SOM Pathology Dept |
| 2021 - present | Member, AP/CP Program Evaluation Committee, CU SOM Pathology Dept |
| 2021 - present | Chairperson, Subcommittee on Technology for Education, AP/CP Program Evaluation Committee, CU SOM Pathology Dept |
| 2022 - present | Member, AP/CP Curriculum Committee, CU SOM Pathology Dept |
| 2022 - 2023 | Member, Vice-Chair for Clinical Pathology and Laboratory Medical Director Recruitment Committee, CU SOM Pathology Dept |
| 2023 | Chairperson, Medical Director of the University of Colorado Hospital Core Laboratory Recruitment Committee, CU SOM Pathology Dept |

University / School of Medicine:

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| 2010 - 2014 | Member, caTissue Steering Committee, JHU SOM |
| 2011 - 2016 | Member, Education Technology Committee, JHU SOM |
| 2012 - 2016 | Co-director, Imaging and Image Analysis, Oncology Tissue Services Lab (formerly the Tissue Microarray Lab), JHU SOM |
| 2014 - 2016 | Member, OpenSpecimen Steering Committee, JHU SOM |
| 2021 - present | Member, Center for Health Artificial Intelligence (CHAI), CU SOM |
| 2022 - present | Affiliate Member, University of Colorado Cancer Center |

Hospital / Health System:

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| 2009 - 2010 | GI Biopsy Quality Improvement Effort, Johns Hopkins Hospital |
| 2010 - 2016 | GI Pathology Interesting Case/Quality Assurance Conference, Johns Hopkins Hospital |
| 2011 - 2016 | PDS/Pathology Information Systems Steering Committee, Johns Hopkins Hospital |
| 2012 | Member, College of American Pathologists Laboratory Accreditation Inspection Team, Johns Hopkins Hospital |

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| 2015 - 2016 | Autopsy Pathology Quality Assurance Conference, Johns Hopkins Hospital |
| 2015 - 2016 | Member, Health IT Safety Committee, Johns Hopkins Medicine |
| 2015 - 2016 | Epic Physician Champions (Pathology Representative), Johns Hopkins Medical Institutions |
| 2015 - 2016 | Member, Data Trust Research Data Sub-Council, Johns Hopkins Medicine |
| 2015 - 2016 | Member, Laboratory Advisory Committee, Johns Hopkins Hospital |
| 2015 - 2016 | Member, Clinical Advisory/Laboratory Management Committee, Johns Hopkins Department of Pathology |
| 2016 - present | Member, Joint Informatics Group, UC Health |
| 2016 - present | Member, LIS Steering Committee, UC Health |
| 2016 - present | Medical Director, Laboratory Information System, UC Health |
| 2016 - present | Member, Pharmacogenomics Implementation Committee Colorado (PICColo), CU / UCHealth |
| 2018 - 2021 | Medical Director of Clinical Informatics, Pathology and Lab Medicine, Children's Hospital Colorado (CHCO) |

Clinical (Service) Responsibilities:

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| 2010 - 2016 | Gastrointestinal pathology, Johns Hopkins Hospital |
| 2011 - 2016 | Autopsy pathology, Johns Hopkins Hospital |
| 2011 - 2016 | Autopsy pathology, Johns Hopkins Bayview Medical Center |
| 2012 - 2016 | Gastrointestinal pathology, Howard County General Hospital |
| 2016 - present | Gastrointestinal pathology, University of Colorado Hospital |
| 2016 - 2021 | Gastrointestinal pathology, UCHealth Broomfield Hospital |
| 2016 - 2018 | Gastrointestinal pathology, UCHealth Grandview Hospital |
| 2020 - present | Gastrointestinal pathology, UCHealth Cherry Creek Medical Center |

Professional Society:

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| 2012 - 2013 | Member, College of American Pathologists Digital Pathology Working Group |
| 2013 - 2014 | Member, College of American Pathologists Digital Pathology Project Team |
| 2014 - 2019 | Member, College of American Pathologists Digital Pathology Committee |
| 2017 - 2018 | Member, AACR 2018 Annual Meeting Program Committee |
| 2018 - 2019 | Co-chair, Association for Pathology Informatics Training and Education Committee |
| 2019 - 2020 | Member, College of American Pathologists Digital and Computational Pathology Committee |
| 2019 - 2022 | Member, HIMSS-SIIM Enterprise Imaging Community's Multimedia Interactive Content Reporting Workgroup |
| 2020 - present | Member, HIMSS-SIIM Enterprise Imaging Community Advisory Council |
| 2020 - 2022 | Member, Digital Pathology Association Artificial Intelligence / Machine Learning (AI/ML) Task Force |
| 2021 | President-Elect, Association for Pathology Informatics |
| 2021 - present | Member, College of American Pathologists Artificial Intelligence Committee |
| 2022 | President, Association for Pathology Informatics |
| 2023 | Past President, Association for Pathology Informatics |

VIII. LICENSURE AND BOARD CERTIFICATION

Licensure:

2008 - 2010 Medical Physician and Surgeon, Commonwealth of Pennsylvania, MD435996 (status: inactive)
 2010 - 2016 Medical Physician and Surgeon, State of Maryland, D70746 (status: inactive)
 2015 - present Physician, State of Colorado, DR.0056128

Board Certification:

2009 - 2029 Diplomate, Anatomic Pathology, The American Board of Pathology
 2015 - 2025 Diplomate, Clinical Informatics, The American Board of Pathology

IX. INVENTIONS, PATENTS, INTELLECTUAL PROPERTY

2015 Halushka MK and **Cornish TC**. "Method and System to Digitize Pathology Slides in a Stepwise Fashion for Review", Co-inventor (with Marc K. Halushka), US Patent 9,214,019; filed Feb 15, 2012, and issued Dec 15, 2015.

X. REVIEW AND REFEREE WORK**Editorial Board Service:**

| | | |
|----------------|--------------------------|--|
| 2017 - 2019 | Section Editor | <i>American Journal of Clinical Pathology</i> (Informatics, GI & Liver Pathology) |
| 2019 - present | Associate Editor | <i>American Journal of Clinical Pathology</i> (Informatics) |
| 2019 - present | Editorial Advisory Board | <i>American Registry of Pathology, Fascicles of Pathology, 5th Series</i> |
| 2019 - 2020 | Editorial Advisory Board | <i>Springer Lecture Notes in Artificial Intelligence: State-of-the-Art Survey: AI/ML for Digital Pathology</i> |
| 2020 - present | Editorial Board | <i>Modern Pathology</i> |

Ad-hoc Review for Journals:

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| 2009 | Ad-hoc Reviewer | <i>Annals of the British Machine Vision Association</i> |
| 2010 - 2023 | Ad-hoc Reviewer | <i>Laboratory Investigation</i> |
| 2012 | Ad-hoc Reviewer | <i>Diagnostic Cytopathology</i> |
| 2012 | Ad-hoc Reviewer | <i>Journal of Neuropathology and Exp Neurology</i> |
| 2013 - 2023 | Ad-hoc Reviewer | <i>Archives of Pathology & Laboratory Medicine</i> |
| 2014 - present | Ad-hoc Reviewer | <i>Journal of Pathology Informatics</i> |
| 2014 | Ad-hoc Reviewer | <i>Journal of Visualized Experiments</i> |
| 2015 | Ad-hoc Reviewer | <i>AIMS Medical Science</i> |
| 2015 | Ad-hoc Reviewer | <i>Scientific Reports</i> |
| 2015 | Ad-hoc Reviewer | <i>Advances in Medical Sciences</i> |
| 2016 | Ad-hoc Reviewer | <i>Microscopy and Microanalysis</i> |
| 2017 - 2019 | Ad-hoc Reviewer | <i>Pathology</i> |
| 2017 - present | Ad-hoc Reviewer | <i>American Journal of Clinical Pathology</i> |
| 2017 - 2020 | Ad-hoc Reviewer | <i>Journal of Clinical Investigation</i> |

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| 2018 | Ad-hoc Reviewer | <i>JAMA Oncology</i> |
| 2018 | Ad-hoc Reviewer | <i>Clinical Medicine Insights: Pathology</i> |
| 2018 | Ad-hoc Reviewer | <i>Histopathology</i> |
| 2019 - 2020 | Ad-hoc Reviewer | <i>Modern Pathology</i> |
| 2019 | Ad-hoc Reviewer | <i>JAMA Network Open</i> |
| 2019 | Ad-hoc Reviewer | <i>Research Square</i> |
| 2019 | Ad-hoc Reviewer | <i>npj Digital Medicine</i> |
| 2020 | Ad-hoc Reviewer | <i>Medical Image Analysis</i> |
| 2020 - 2021 | Ad-hoc Reviewer | <i>Clinical Chemistry</i> |
| 2020 | Ad-hoc Reviewer | <i>Human Pathology: Case Reports</i> |
| 2020 | Ad-hoc Reviewer | <i>Mayo Clinic Proceedings: Innovations, Quality & Outcomes</i> |
| 2021 | Ad-hoc Reviewer | <i>Journal of the American Medical Informatics Association (JAMIA)</i> |
| 2021 - 2022 | Ad-hoc Reviewer | <i>Journal of Pathology</i> |
| 2021 | Ad-hoc Reviewer | <i>Journal of Pathology: Clinical Research</i> |
| 2021 | Ad-hoc Reviewer | <i>American Journal of Pathology</i> |
| 2021 | Ad-hoc Reviewer | <i>Journal for ImmunoTherapy of Cancer</i> |
| 2021 | Ad-hoc Reviewer | <i>Computerized Medical Imaging and Graphics</i> |
| 2022 | Ad-hoc Reviewer | <i>Future Medicinal Chemistry</i> |
| 2022 | Ad-hoc Reviewer | <i>Translational Oncology</i> |
| 2022 | Ad-hoc Reviewer | <i>Gastroenterology</i> |
| 2022 | Ad-hoc Reviewer | <i>International Journal of Computer-Assisted Radiology and Surgery (IJCARS)</i> |
| 2022 | Ad-hoc Reviewer | <i>Biomedicines</i> |
| 2022 | Ad-hoc Reviewer | <i>Cybernetics and Systems</i> |
| 2023 | Ad-hoc Reviewer | <i>IEEE Journal of Biomedical and Health Informatics</i> |
| 2023 | Ad-hoc Reviewer | <i>Case Reports in Pathology</i> |

Grant Review:

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|-------------|-------------------|--|
| 2019 | External Reviewer | Mitacs Elevate Postdoctoral Fellowship Award Program |
| 2019 | External Reviewer | Ontario Research Fund – Research Excellence Round 10 |
| 2020 | External Reviewer | Ontario Institute for Cancer Research (OICR) - Ontario Molecular Pathology Research Network (OMPRN) Cancer Pathology Translational Research Grants (CPTRG) |
| 2021 | Expert Reviewer | Canada Foundation for Innovation (CFI) - John R. Evans Leaders Fund |
| 2021 | Member | NIH Emerging Imaging Technologies and Applications (EITA) Study Section |
| 2021 - 2022 | Member | Colorado Clinical and Translational Sciences Institute (CCTSI) Translational Methods (TM-Pilot) Grant Program 2022 Study Section |
| 2022 | Expert Reviewer | Swiss National Science Foundation (SNSF) National Roadmap for Research Infrastructures 2023 |
| 2022 - 2023 | Member | Colorado Clinical and Translational Sciences Institute (CCTSI) Colorado Pilot (CO-Pilot) Grant Program 2023 Study Section |

Scientific Meeting Abstract / Proposal Review:

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|------|----------|--|
| 2019 | Reviewer | Pathology Informatics Summit Abstracts |
| 2020 | Reviewer | Pathology Informatics Summit Abstracts |
| 2021 | Reviewer | SIIM 2022 Annual Meeting Session Proposals |
| 2021 | Reviewer | SIIM 2022 Annual Meeting Abstracts |
| 2022 | Reviewer | ASCP 2022 Annual Meeting Abstracts |
| 2022 | Reviewer | SIIM 2023 Annual Meeting Session Proposals |
| 2022 | Reviewer | SIIM 2023 Annual Meeting Abstracts |

XI. INVITED EXTRAMURAL LECTURES, PRESENTATIONS AND VISITING PROFESSORSHIPS**Local:**

1. "From Pushing Glass to Pushing Bits," presented at Grand Rounds, Department of Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 11/23/2015.
2. "Artificial Intelligence in Histopathology," presented at Grand Rounds, Department of Pathology, University of Colorado, Aurora, CO, 3/4/2022.
3. "Pathology Informatics," presented at the Department of Biomedical Informatics Retreat, University of Colorado, Aurora, CO, 8/30/2022.

Regional:

1. "Cultured Cells Respond to Substrate-Attached Synaptic Differentiation Cues," presented at the Midwest Developmental Biology Meeting in Urbana, IL, 2000.

National:

1. "Pancreatic cancer precursors: early detection," presented at Grand Rounds, Department of Pathology, Medical College of Wisconsin, Milwaukee, WI, 8/27/2010.
2. "Summarize the Basic Concepts in Digital Pathology and Image Analysis," 12th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 11/10/2012.
3. "Test Utilization in GI and Liver Pathology," 12th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 11/10/2012.
4. "A Practical Introduction to Digital Pathology," 13th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/26/2013.

5. "Test Utilization in GI and Liver Pathology," 13th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/26/2013.
6. "The Promise and Challenges of mPathology," presented at The Emerging Clinical & Laboratory Diagnostics Conference, American Association for Clinical Chemistry, San Jose, CA, 4/24/2014.
7. "Panel Discussion HER2 Testing: Multi-institutional Perspectives," 14th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/11/2014.
8. "Practical Pediatric Gastrointestinal Pathology," 14th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/12/2014.
9. "CAP Digital Pathology Committee Update," presented at Pathology Visions 2014, Digital Pathology Association, San Francisco, CA, 10/20/2014.
10. "Is In-Sourcing for me? -- Selection and Implementation of a Digital Pathology Consultation Platform," presented at Pathology Visions 2014, Digital Pathology Association, San Francisco, CA, 10/21/2014.
11. "Approaches to and Perspectives on Digital Insourcing of Pathology Consultation and Second Opinion," presented at Digital Pathology Congress USA, San Diego, California, 6/23/2015.
12. "From Pushing Glass to Pushing Bits," presented to Department of Pathology, University of Colorado School of Medicine, Aurora, Colorado, 7/9/2015.
13. "Practical Pediatric Gastrointestinal Pathology," 15th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/17/2015.
14. "8003. In-Sourcing Digital Consults: Is it For Me?" American Society for Clinical Pathology (ASCP) Annual Meeting, Long Beach, CA, 10/28/2015.
15. "8005. A Primer on Regulatory and Legal Aspects of Whole Slide Imaging and Telepathology," American Society for Clinical Pathology (ASCP) Annual Meeting, Long Beach, CA, 10/29/2015.
16. "Selection and Implementation of a Digital Pathology System," Key Topics in Pathology Informatics Workshop, Pathology Informatics Summit 2016, Pittsburgh, PA, 5/23/2016.
17. "API4-16. Use of Digital Pathology for Establishing a Consultation Practice," American Society for Clinical Pathology (ASCP) Annual Meeting, Las Vegas, NV, 9/14/2016.
18. "The Current and Future State of Digital Pathology," American Association of Pathologists' Assistants Spring Meeting, Denver, CO, 3/22/2017.
19. "API8-17. Beyond the FDA: Regulations, Requirements, and Reimbursement in Digital Pathology," American Society for Clinical Pathology (ASCP) Annual Meeting, Chicago, IL 9/7/2017.

20. "Computational Pathology," part of "The Role of Artificial Intelligence in Digital Pathology" webinar presented by *The Pathologist*, broadcast to North America, 12/20/2017.
21. "Computational Pathology," Pathology Informatics Bootcamp, Pathology Informatics Summit 2018, Pittsburgh, PA, 5/21/2018.
22. "Revisiting the 'Gold Standard' in the Era of Computational Pathology," presented to the Division of Anatomic Pathology, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota, 6/15/2018.
23. "Integrating Our Digital Future," presented to PDAS track, Association of Pathology Chairs Annual Meeting, San Diego, CA, 7/18/2018.
24. "Revisiting the 'Gold Standard' in the Era of Computational Pathology," presented to the Department of Pathology, University of Michigan, Ann Arbor, Michigan, 10/24/2018.
25. "Artificial Intelligence and the Practice of Pathology," presented to the Department of Pathology, University of Utah, Salt Lake City, Utah, 3/4/2019.
26. "From Pushing Glass to Pushing Bits: Building a Truly Digital Pathology Workflow," Association for Pathology Informatics Companion Society Meeting, USCAP Annual Meeting, National Harbor, MD, 3/14/2019.
27. "Buy, Build or Borrow? Filling functional gaps in your LIS," Foundational Topics in Pathology and Clinical Laboratory Informatics, Pathology Informatics Summit 2019, Pittsburgh, PA, 5/6/2019.
28. "KiNet: Single-stage Nuclear Recognition and Classification for Measuring Ki-67 Proliferation Index (PI) in Pancreatic Neuroendocrine Tumors," Histopathology Image Analysis (HIMA) Imaging Science, Pathology Informatics Summit 2019, Pittsburgh, PA, 5/6/2019.
29. "The Application of Artificial Intelligence to the Practice of Pathology," Frontiers in Pathology Imaging Informatics Session, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2019, Aurora, CO, 6/28/2019.
30. "An Introduction to Artificial Intelligence in the Practice of Pathology," New Frontiers in Cytopathology Lecture, American Society of Cytopathology (ASC) Annual Meeting 2019, Salt Lake City, UT, 11/15/2019.
31. "Short Course 51: Adopting Digital and Computational Pathology in Clinical Practice: A Practical, Technical, Regulatory and Legal Primer," USCAP Annual Meeting 2020, Los Angeles, CA, 3/2/2020.
32. "Multimedia Interactive Reporting in Pathology" in "Enterprise Imaging – Multimedia Interactive Reporting in Imaging Centric Specialties," Course ID: 1010, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2020, Virtual Meeting, 6/24/2020.
33. "Artificial Intelligence in Pathology Practice" in "Artificial Intelligence and Machine Learning in Pathology," Association for Pathology Informatics Virtual Classroom Series 2020, 12/9/2020.

34. "Short Course 51: Adopting Digital and Computational Pathology in Clinical Practice: A Practical, Technical, Regulatory and Legal Primer," USCAP Virtual Annual Meeting 2021, 3/14/2021.
35. "Brief Introduction to AI with Definitions," Association for Pathology Informatics Companion Society Meeting, USCAP Virtual Annual Meeting 2021, 3/16/2021.
36. "Application of Pathology Informatics in Cancer Centers," presented at Moffitt Cancer Center, Tampa, Florida, 4/8/2021.
37. "Short Course 51: Adopting Digital and Computational Pathology in Clinical Practice: A Practical, Technical, Regulatory and Legal Primer," USCAP Annual Meeting 2022, 3/23/2022.
38. "Security Panel Discussion," Pathology Informatics Summit 2022, Pittsburgh, PA, 5/12/2022.
39. "Quantitative Analysis of Ki67, a Prognostic Biomarker in Gastroenteropancreatic Neuroendocrine Tumors," Image Guided Cancer Therapy (IGCT) Seminar Series (Virtual), MD Anderson Cancer Center, Houston, Texas, 5/19/2022.
40. "Digital Pathology: Current State, Next Steps, Future Visions," Session ID: 1021S, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2022, Kissimmee, FL, 6/9/2022.
41. "Impact of Digital Pathology and Artificial Intelligence on Routine Pathology Practice: To be or Not to be," Session ID: 2029V, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2022, Kissimmee, FL, 6/10/2022.
42. "Bridging Histology and Molecular Pathology with Computational Pathology: An Introduction," Association for Molecular Pathology (AMP) Companion Society Meeting, USCAP Annual Meeting 2023, New Orleans, Louisiana, 3/12/2023.
43. "Digital and Computational Pathology in Routine Diagnosis: The Nuts and Bolts of Adoption" in 2023 Long Course: "Next Generation Pathology: Technological Advances in Anatomical Pathology," USCAP Annual Meeting 2023, 3/23/2023.

International:

1. "Pancreatic Cancer? There's an App for that," presented at 20th Congress of Chinese Society of Pathology and 4th Annual Meeting of Chinese Pathologists, Chongqing, Sichuan Province, China, 11/15/2014.
2. "Overcoming Barriers in Adoption of Digital Pathology," panel discussion, presented at Digital Pathology Congress, London, England, 12/4/2014.
3. "Global Insourcing of Pathology Consultation and Second Opinion Using Digital Pathology," presented at Digital Pathology Congress, London, England, 12/5/2014.

4. "Global Insourcing of Pathology Consultation and Second Opinion Using Digital Pathology," presented at Royal College of Pathologists Digital Pathology Symposium, Bradford, West Yorkshire, UK, 9/24/2015.
5. "The Future of Digital Pathology in Asia," panel discussion, presented at Digital Pathology Congress Asia, Kuala Lumpur, Malaysia, 8/22/2016.
6. "WSI Telepathology for International Expert Consultation and Second Opinion," presented at Digital Pathology Congress Asia, Kuala Lumpur, Malaysia, 8/23/2016.
7. "Computational Pathology," part of "The Role of Artificial Intelligence in Digital Pathology" webinar presented by *The Pathologist*, broadcast to Europe, 12/19/2017.
8. "Integrating Our Digital Future," presented at Digital Pathology Congress Asia, Tokyo, Japan, 5/9/2018.
9. "Legal and Regulatory Aspects of Telepathology," presented at International Symposium of Innovation in Transplantation: The Digital Era, Verona, Italy, 6/8/2018.
10. "The Current State of Digital Pathology in Clinical Practice," Artificial Intelligence and Digital Pathology Pre-Course, presented at the 11th Asia Pacific International Association of Pathology (APIAP) Congress Hefei, China, 10/11/2019.
11. "Buy, Build or Borrow? Filling Functional Gaps in your LIS," XV Health Informatics Conference: JIS Go Live 2020, Virtual Meeting, Buenos Aires, Argentina, 11/2/2020.

Industry:

1. "Integrating Our Digital Future," presented to Leica Biosystems (Aperio) Associates, Vista, CA, 7/16/2018.
2. "Crossing the Chasm? Adoption of Digital Pathology and Artificial Intelligence in Mainstream Pathology Practice," presented at Pathology Grand Rounds (Virtual Session), AstraZeneca, Gaithersburg, MD, 11/20/2020.

XII. TEACHING RECORD

Undergraduate:

1994 - 1995 Teaching Assistant, "Chemistry Laboratory" (CHEM 110), Bradley University

Graduate / Medical School:

1995 - 1996 Teaching Assistant, "Biochemistry Laboratory" (BCHM 355), University of Illinois Urbana-Champaign School of Chemical Sciences.

1997 - 1998 Teaching Assistant, "Experimental Techniques in Biochemistry" (BCHM 452), University of Illinois Urbana-Champaign School of Chemical Sciences.

2005 - 2010 Small Group Instructor, 2nd Year Medical Student Pathology Course, Johns Hopkins School of Medicine

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| 2009 - 2016 | Lecturer, "Pathology Informatics," Pathology Residency Didactic Lecture Series, Johns Hopkins School of Medicine |
| 2010 - 2016 | Pathology Demonstration Instructor in Gross Anatomy (1 st year medical students), Johns Hopkins School of Medicine |
| 2010 - 2016 | Small Group Instructor in Pathology, Genes to Society Curriculum (2 nd year medical students), Johns Hopkins School of Medicine |
| 2010 - 2016 | Lecturer, "Small Intestine," Genes to Society Curriculum (2 nd year medical students), Johns Hopkins School of Medicine |
| 2011 - 2012 | Lecturer, "Digital microscopy and quantitative microscopy for research applications and publication," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine |
| 2012 - 2016 | Small Group Instructor in Histopathobiology, Scientific Foundations of Medicine, Genes to Society Curriculum (1 st year medical students), Johns Hopkins School of Medicine |
| 2013 | Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine |
| 2014 | Visiting Lecturer, "Pancreatic Tumors: An Algorithmic Approach to Diagnosis," Zhejiang University School of Medicine, Hangzhou, Zhejiang Province, China.11/17/2014. |
| 2014 | Visiting Lecturer, "Pancreatic Cancer Precursors and Early Detection of Pancreatic Cancer," Zhejiang University School of Medicine, Hangzhou, Zhejiang Province, China.11/18/2014. |
| 2014 | Visiting Lecturer, "From Pushing Glass to Pushing Bits: An Introduction to Digital Pathology and Image Analysis for Clinical and Research Applications," Zhejiang University School of Medicine, Hangzhou, Zhejiang Province, China.11/18/2014. |
| 2015 | Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine. 7/31/2015. |
| 2016 - 2021 | Small Group Facilitator, "Cardiovascular Pulmonary Renal Block: Pathology," 1st Year Medical Curriculum, University of Colorado School of Medicine. |
| 2016 - 2019 | Small Group Facilitator, "Disease & Defense Block," 1st Year Medical Curriculum, University of Colorado School of Medicine. |
| 2016 - 2021 | Small Group Facilitator, "GI & Liver Block," Digestion, Endocrine and Metabolic Systems Block, IDPT 6002, 2nd Year Medical Curriculum, University of Colorado School of Medicine. |
| 2017 | Preceptor, Foundations of Medicine, University of Colorado School of Medicine. |
| 2017 | Preceptor, PATH 8600 Research Elective, University of Colorado School of Medicine. |
| 2017 - 2019 | Lecturer, "Diseases of the Lower GI Tract," Digestion, Endocrine and Metabolic Systems Block, IDPT 6002, 2nd Year Medical Curriculum, University of Colorado School of Medicine. |
| 2018 - 2021 | Lecturer, "Neoplasms of the Lower GI Tract," Digestion, Endocrine and Metabolic Systems Block, IDPT 6002, 2nd Year Medical Curriculum, University of Colorado School of Medicine. |
| 2021 - present | Lecturer, "Pathology of GI Polyps & Carcinoma: Part 1, GI Polyps," Plains - Gastrointestinal Systems Course, IDPT 5018-A11P, Medical Sciences (Plains) level, 1st Year Medical Curriculum, University of Colorado School of Medicine. |

2021 - present Small Group Facilitator, Plains - Gastrointestinal Systems Course, IDPT 5018-A11P, Medical Sciences (Plains) level, 1st Year Medical Curriculum, University of Colorado School of Medicine.

Resident:

2010 Presenter, "Pancreatic Tumors," slide-based unknowns conference, Medical College of Wisconsin, Milwaukee, WI (8/26/2010)

2013 - 2016 Lecturer, "Pediatric GI Pathology," Pathology Residency Didactic Lecture Series, Johns Hopkins School of Medicine

2018 - 2020 Lecturer, "Introduction to Pathology Informatics," Pathology Residency Didactic Lecture Series, CU School of Medicine

2021 - present Lecturer, "Introduction to Laboratory Information Systems," Pathology Residency Immersion Block, CU School of Medicine

2021 - present Lecturer, "Overview of Pathology Informatics," Pathology Residency Didactic Lecture Series, CU School of Medicine (12/13/2021)

Fellow:

2019 Lecturer, "LIS Implementation/Selection," Lab Management Lecture Series, Pediatric Pathology Fellowship, Children's Hospital Colorado, Aurora, CO (9/18/2019)

2021 Lecturer, "LIS Selection and Implementation," Lab Management Lecture Series, Pediatric Pathology Fellowship, Children's Hospital Colorado, Aurora, CO (1/20/2021)

2021 Lecturer, "LIS Selection and Implementation," Lab Management Lecture Series, Pediatric Pathology Fellowship, Children's Hospital Colorado, Aurora, CO (10/29/2021)

Clinical instruction:

2010 - 2016 Instruction of pathology residents and fellows rotating on the Gastrointestinal Pathology service, Johns Hopkins School of Medicine

2011 - 2016 Instruction of pathology residents on the Autopsy Pathology service, Johns Hopkins School of Medicine

2012 - 2016 Instruction of pathology residents on the Pathology Informatics elective, Johns Hopkins School of Medicine

2016 - present Instruction of pathology residents and fellows rotating on the Gastrointestinal Pathology service, University of Colorado School of Medicine

2016 - 2017 Course director and instructor, Pathology Informatics Elective, University of Colorado School of Medicine

2018 - present Course director and instructor, Pathology Informatics Rotation, University of Colorado School of Medicine

Workshops/Seminars:

2011 Lecturer, "Digital microscopy and quantitative microscopy for research applications and publication," 2011 Mouse Pathobiology and Phenotyping

- Short Course, (concurrent with ME:680.712), Johns Hopkins School of Medicine, Baltimore, MD (7/29/2011)
- 2012 Lecturer, "Digital microscopy and quantitative microscopy for research applications and publication," 2012 Mouse Pathobiology and Phenotyping Short Course, (concurrent with ME:680.712), Johns Hopkins School of Medicine, Baltimore, MD (8/3/2012)
- 2013 Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," 2013 Mouse Pathobiology and Phenotyping Short Course, (concurrent with ME:680.712), Johns Hopkins School of Medicine, Baltimore, MD (7/19/2013)
- 2015 Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine (7/31/2015)
- 2017 "RT2017THUR Beyond the FDA: Discussing Digital Pathology with Primary Dx," American Society for Clinical Pathology (ASCP) Annual Meeting, Chicago, IL (9/7/2017).
- 2018 "The Role of the LIS in Digital Pathology: Driver, Passenger or Bystander?" Pathology Visions (Digital Pathology Association Annual Meeting), San Diego, CA (11/5/2018).
- 2018 "Artificial Intelligence and the Practice of Pathology" Association for Pathology Informatics (API) Digital Pathology and AI Workshop 2.0, Columbus, OH (12/8/2018).
- 2019 "Artificial Intelligence and Digital Pathology: What Pathologists Need to Know" Association for Pathology Informatics (API) Digital Pathology and AI Workshop 3.0, Pittsburgh, PA (12/14/2019).
- 2020 "How Enterprise Imaging is Leveraged for Patient Care from a Distance," Panelist, HIMSS-SIIM Enterprise Imaging Community Roundtable, Webinar (4/15/2020).
- 2020 "Brief Introduction to AI with Definitions," Association for Pathology Informatics (API) Digital Pathology and AI Workshop 4.0, Virtual Meeting, New York, NY (10/22/2020).
- 2023 "Applications of Artificial Intelligence in Histopathology-based Prognosis," MW011: Pathology for Cancer Researchers Methods Workshop, American Association for Cancer Research (AACR) Annual Meeting 2023, Orlando, FL (4/15/2023).

Session / Conference Chair:

- 2018 Moderator, Informatics Platform Session, USCAP Annual Meeting 2018, Vancouver, BC (3/20/2018)
- 2018 Moderator / Co-chair, Pathology Informatics Boot Camp, Pathology Informatics Summit 2018, Pittsburgh, PA (5/21/2018)
- 2018 Moderator, Short Abstract Presentations, Pathology Informatics Summit 2018, Pittsburgh, PA (5/22/2018)
- 2019 Moderator / Co-chair, Pathology Informatics Boot Camp, Pathology Informatics Summit 2019, Pittsburgh, PA (5/6/2019)
- 2019 Moderator, Short Abstract Presentations, Pathology Informatics Summit 2018, Pittsburgh, PA (5/8/2019)
- 2019 Co-chair, Frontiers in Pathology Imaging Informatics Session, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2019, Aurora, CO (5/28/2019)

- 2022 Chair / Moderator, Digital Pathology: Current State, Next Steps, Future Visions, Session 1021S, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2022, Kissimmee, FL, 6/9/2021.
- 2022 Moderator, Association for Pathology Informatics (API) Digital Pathology and AI Workshop 6.0, Virtual Meeting, Philadelphia, PA (11/3/2022).

III. GRANT SUPPORT

Current Support:

None.

Pending Support:

Grant Source: NCI (1R21CA274487-01A1)
Title: Geles: A Novel Imaging Informatics System for Generalizable Lesion Identification in Neuroendocrine Tumors
Role on Project: Co-investigator (Xing, PI)
Inclusive Dates: 7/1/2023 to 6/30/2025
Total Direct Costs: \$414,218

Previous support:

Grant Source: NCI (1R21CA237493-01)
Title: Development and Dissemination of KiNet: A Novel Imaging Informatics Tool for Gastrointestinal and Pancreatic Neuroendocrine Tumors
Role on Project: Co-Principal investigator (Xing, co-PI)
Effort: 0.6 calendar months
Inclusive Dates: 4/2/2019 to 3/31/2022
Total Direct Costs: \$108,750

Grant Source: NCI
Title: Cancer Center Support Grant
Role on Project: Co-investigator (Nelson, PI)
Effort: 0.6 calendar months
Inclusive Dates: 5/1/2012 to 4/30/2017
Total Direct Costs: \$4,100,428

Grant Source: Commonwealth Grand Fund
Title: Tumor Microenvironment
Role on Project: Co-investigator (Pardoll, PI)
Effort: 2.4 calendar months
Inclusive Dates: 2014 to 2015

Grant Source: AACR / Phillip A. Sharp Award
Title: The Intersection of Epigenetic and Immune Checkpoint Therapy
Role on Project: Co-investigator (Baylin, PI)
Effort: 0.24 calendar months
Inclusive Dates: 7/1/2014 to 6/30/2015

Total Direct Costs: \$227,275

Grant Source: NCI
Title: SPORE in Prostate Cancer
Role on Project: Co-investigator (Nelson, PI)
Effort: 0.6 calendar months
Inclusive Dates: 9/1/2014 to 8/31/2019
Total Direct Costs: \$1,564,392

Grant Source: DOD
Title: SPORE in Prostate Cancer
Role on Project: Co-investigator (Sfanos, PI)
Effort: 0.6 calendar months
Inclusive Dates: 9/30/2014 to 9/29/2017
Total Direct Costs: \$230,833

Grant Source: Prostate Cancer Foundation
Title: Evaluation of PSMA based PET as functional imaging biomarkers
Role on Project: Collaborator (Cho, PI)
Effort: 0.36 calendar months
Inclusive Dates: 2011 to 2013
Total Direct Costs: \$300,000

Grant Source: Amy and Jane Goldman (gift)
Title: Quantitative Study of PanIN volume: implications for the early detection of pancreatic cancer
Role on Project: Principal Investigator
Effort: 1.2 calendar months
Inclusive Dates: 12/2009 to 12/2010
Total Direct Costs: \$75,000

Grant Source: Sol Goldman Pancreatic Cancer Research Center
Title: Quantitative Study of PanIN volume: implications for the early detection of pancreatic cancer
Role on Project: Principal Investigator
Effort: 1.2 calendar months
Inclusive Dates: 12/2009 to 12/2010
Total Direct Costs: \$50,000

Grant Source: NIH (5 T32 CA067751-12)
Title: Ruth L. Kirschenstein National Research
Role on Project: Trainee
Effort: 9.0 calendar months
Inclusive Dates: 7/2009 to 6/2010
Total Direct Costs: \$46,992

XIV. BIBLIOGRAPHY

Google Scholar (actively maintained):

<https://scholar.google.com/citations?user=9uuZu6YAAAAJ&hl=en>

NCBI My Bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/toby.cornish.1/bibliography/public/>

Peer-Reviewed Scientific Papers:

1. Braun KM, **Cornish T**, Valm A, Cundiff J, Pauly JL, and Fan S. Immunotoxicology of cigarette smoke condensates: Effects on interferon g-inducible macrophage functional capacities. *Toxicol Appl Pharmacol*. 1998; 149:136-143. doi: [10.1006/taap.1997.8346](https://doi.org/10.1006/taap.1997.8346). PMID: [9571981](https://pubmed.ncbi.nlm.nih.gov/9571981/).
2. **Cornish T**, Chi J, Johnson S, Lu Y, and Campanelli JT. Globular domains of agrin are functional units which collaborate to induce acetylcholine receptor clustering. *J Cell Sci*. 1999; 112:1213-1223. PMID: [10085256](https://pubmed.ncbi.nlm.nih.gov/10085256/).
3. **Cornish T**, Branch DW, Wheeler BC, and Campanelli JT. Microcontact printing: a versatile technique for the study of synaptogenic molecules. *Mol Cell Neurosci*. 2002; 20:140-153. doi: [10.1006/mcne.2002.1101](https://doi.org/10.1006/mcne.2002.1101). PMID: [12056845](https://pubmed.ncbi.nlm.nih.gov/12056845/).
4. Gurel B, Iwata T, Koh CM, Jenkins RB, Lan F, Van Dang C, Hicks JL, Morgan J, **Cornish TC**, Sutcliffe S, Isaacs WB, Luo J, and De Marzo AM. Nuclear MYC protein overexpression is an early alteration in human prostate carcinogenesis. *Mod Pathol*. 2008; 21(9):1156-67. doi: [10.1038/modpathol.2008.111](https://doi.org/10.1038/modpathol.2008.111). PMID: [18567993](https://pubmed.ncbi.nlm.nih.gov/18567993/); PMCID: [PMC3170853](https://pubmed.ncbi.nlm.nih.gov/PMC3170853/); NIHMS285485
5. Yegnasubramanian S, Haffner MC, Zhang Y, Gurel B, **Cornish TC**, Wu Z, Irizarry RA, Morgan J, Hicks J, DeWeese TL, Isaacs WB, Bova GS, De Marzo AM, and Nelson WG. DNA hypomethylation arises later in prostate cancer progression than CpG island hypermethylation and contributes to metastatic tumor heterogeneity. *Cancer Res*. 2008; 68(21):8954-67. doi: [10.1158/0008-5472.CAN-07-6088](https://doi.org/10.1158/0008-5472.CAN-07-6088). PMID: [18974140](https://pubmed.ncbi.nlm.nih.gov/18974140/); PMCID: [PMC2577392](https://pubmed.ncbi.nlm.nih.gov/PMC2577392/).
6. Halushka MK, Selvin E, Lu J, Macgregor AM, **Cornish TC**. Use of Human Vascular Tissue Microarrays for Measurement of Advanced Glycation End Products. *J Histochem Cytochem*. 2009; 57(6):559-66. doi: [10.1369/jhc.2009.953273](https://doi.org/10.1369/jhc.2009.953273). PMID: [19223295](https://pubmed.ncbi.nlm.nih.gov/19223295/); PMCID: [PMC2690436](https://pubmed.ncbi.nlm.nih.gov/PMC2690436/).
7. **Cornish TC**, Bagnasco SM, Macgregor AM, Lu J, Selvin E, and Halushka MK. Glomerular protein levels of matrix metalloproteinase-1 and tissue inhibitor of metalloproteinase-1 are lower in diabetic subjects. *J Histochem Cytochem*. 2009; 57(11):995-1001. doi: [10.1369/jhc.2009.954107](https://doi.org/10.1369/jhc.2009.954107). PMID: [19506087](https://pubmed.ncbi.nlm.nih.gov/19506087/); PMCID: [PMC2762888](https://pubmed.ncbi.nlm.nih.gov/PMC2762888/).
8. **Cornish TC** and Halushka MK. Color Deconvolution for the Analysis of Tissue Microarrays. *Anal Quant Cytol and Histol*. 2009; 31:304-312. PMID: [20701098](https://pubmed.ncbi.nlm.nih.gov/20701098/).
9. Halushka MK, **Cornish TC**, Lu J, Selvin S, and Selvin E. Creation, Validation, and Quantitative Analysis of Protein Expression in Vascular Tissue Microarrays. *Cardiovasc Pathol*. 2010; 19(3):136-46. doi: [10.1016/j.carpath.2008.12.007](https://doi.org/10.1016/j.carpath.2008.12.007). Epub 2009 Feb 11. PMID: [19211265](https://pubmed.ncbi.nlm.nih.gov/19211265/); PMCID: [PMC2866781](https://pubmed.ncbi.nlm.nih.gov/PMC2866781/).

10. Hillel AT, Taube JM, **Cornish TC**, Sharma B, Halushka M, McCarthy EF, Hutchins GM, and Elisseff JH. Characterization of human mesenchymal stem cell engineered cartilage: analysis of its ultrastructure, cell density, and chondrocyte phenotype as compared to native adult and fetal cartilage. *Cells Tissues Organs*. 2010; 191(1):12-20. doi: [10.1159/000225985](https://doi.org/10.1159/000225985). Epub 2009 Jun 18. PMID: [19546516](https://pubmed.ncbi.nlm.nih.gov/19546516/).
11. Selvin E, Najjar SS, **Cornish TC**, and Halushka MK. A comprehensive histopathological evaluation of vascular medial fibrosis: Insights into the pathophysiology of arterial stiffening. *Atherosclerosis*. 2010; 208(1):69-74. doi: [10.1016/j.atherosclerosis.2009.06.025](https://doi.org/10.1016/j.atherosclerosis.2009.06.025). Epub 2009 Jun 26. PMID: [19632677](https://pubmed.ncbi.nlm.nih.gov/19632677/); PMCID: [PMC2813392](https://pubmed.ncbi.nlm.nih.gov/PMC2813392/).
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- Hopkins Hospital template for urologic cytology samples. *J. Amer. Soc. Cytopathol.* 2014 May;3(3):156-164. doi: [10.1016/j.jasc.2014.02.003](https://doi.org/10.1016/j.jasc.2014.02.003). Epub 2014 Feb 28. PMID: [31051740](https://pubmed.ncbi.nlm.nih.gov/31051740/).
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