

## Curriculum Vitae

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**Chad D. Galderisi, D.O.**

ICON Laboratory Services  
Portland, OR (USA)

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**Education**

Oregon Health and Science University  
**Molecular Genetic Pathology Fellowship, (Jul 2005)**

Penn State University - Milton S. Hershey Medical Center  
**Resident Anatomic and Clinical Pathology, (Jul 2001 to Jun 2005)**

Philadelphia College of Osteopathic Medicine, Philadelphia, PA  
**D.O. Medicine, (Aug 1997 to Jun 2001)**

Washington and Jefferson College, Washington, PA  
**B.S. Biology, (Aug 1993 to Jun 1997)**

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**Related Experience**

<b>Vice President, VP, Global Medical Director</b>	ICON ILS MolecularMD	2019 to Present
<b>Medical and Laboratory Director/Scientific Founder</b>	MolecularMD, Corp.	2005 to 2019
<b>Staff Pathologist; Clinical Microbiology and Molecular Virology Laboratory Director</b>	Portland VA Medical Center	2006 to 2012

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**MEMBERSHIP AND POSITIONS IN PROFESSIONAL ORGANIZATIONS**

- American Society of Hematology
- American Society of Clinical Oncology
- American Association for Cancer Research
- Association for Molecular Pathology
- College of American Pathologists
- United States and Canadian Academy of Pathology
- American Society of Clinical Pathologists
- Oregon Pathology Association

## Publications/Abstracts

Kristy Drafahl, David L. Smith, Cristen Graham, Christine Glynn, Cindy Spittle, Scott Verrow, Victor M. Rivera, Shouryadeep Srivastava, Kevin Hawkins, and Chad Galderisi Development and Validation of a Highly Sensitive e1a2 (p190) BCR-ABL Test to Determine Complete Molecular Response (Minimal Residual Disease Negative) As a Primary Endpoint for Patients with Newly Diagnosed Philadelphia Chromosome Positive Acute Lymphoblastic Leukemia (Ph+ ALL). ASH 2018 Poster

Rimm DL, Leung SCY, McShane LM, Bai Y, Bane AL, Bartlett JMS, Bayani J, Chang MC, Dean M, Denkert C, Enwere EK, Galderisi C, Gholap A, Hugh JC, Jadhav A, Kornaga EN, Laurinavicius A, Levenson R, Lima J, Miller K, Pantanowitz L, Piper T, Ruan J, Srinivasan M, Virk S, Wu Y, Yang H, Hayes DF, Nielsen TO, Dowsett M: An international multicenter study to evaluate reproducibility of automated scoring for assessment of Ki67 in breast cancer. Mod Pathol. 2018 Aug 24; 2018 Aug 24. PMID: 30143750

Xiaodong Wang, Zhenyu Yan, Quyen Vu, David Smith, Chad Galderisi, Cindy Spittle and Jin Li. Comprehensive genomic analysis of predictive biomarkers for checkpoint inhibitor therapy from a limited amount of FFPE tissue and cfDNA. AACR 2019 Poster

Weihua Liu, Cindy Spittle, Chad Galderisi and Jin Li. Analytical Validation of Oncomine Breast cfDNA Assay v2. AACR 2018 Poster

Xiaodong Wang, Zhenyu Yan, Weihua Liu, Scott Glynn, Jennifer Biroshak, Chad Galderisi, Cindy Spittle and Jin Li. Mutation Profiling of cTNA Using Oncomine Pan-Cancer Cell-Free Assay. Biomarkers & Immunology World Congress 2018

Xiaodong Wang, Zhenyu Yan, Peng Fang, Weihua Liu, Scott Glynn, Jennifer Biroshak, Chad Galderisi, Cindy Spittle and Jin Li. An Optimized NGS Workflow for Detection of FLT3 Internal Tandem Duplication (ITD) in AML Samples. AACR 2018

Peng Fang, Zhenyu Yan, Quyen Vu, Dave Smith, Chad Galderisi, Cindy Spittle and Jin L. Evaluation of a Commercial Targeted NGS Panel for Tumor Mutation Burden Assessment in FFPE Tissue. AACR 2018

Kristy A. Drafahl, Julie A. Toplin, David L. Smith, Chad D. Galderisi. Going Beyond MMR to the Analysis of Deep Molecular Response. AMP 2017

Weihua Liu, Peng Fang, Chad Galderisi, Cindy Spittle and Jin Li. Liquid Biopsy Analysis of NSCLC Patient Plasma Using ddPCR and NGS. AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics 2017

Peng Fang, Zhenyu Yan, Xiaodong Wang, Wes Chang, Chad Galderisi, Cindy Spittle and Jin L. Immunotherapy biomarker assessment in FFPE samples from solid tumors using IHC, gene expression profiling and mutation burden assessment. AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics 2017

Peng Fang, Zhenyu Yan, Weihua Liu, Jennifer Biroshak, Paul Labrousse, Jennifer Wright, Cindy Spittle, Chad Galderisi, and Jin Li. Oncomine Focus Assay: simultaneous detection of clinically relevant hotspot mutations, CNVs and gene fusions in 52 Genes. AACR Annual Meeting 2016

**Publications/Abstracts (cont'd)**

Peng Fang, Zhenyu Yan, Weihua Liu, Jennifer Biroshak, Paul Labrousse, Jennifer Wright, Cindy Spittle, Chad Galderisi, and Jin Li. Detection of a Novel RET Gene Fusion in a Non-Small Cell Lung Cancer Patient Using AMP Chemistry. Fourth AACR-IASLC International Joint Conference: Lung Cancer Translational Science from the Bench to the Clinic 2016

Weihua Liu, Zhenyu Yan, Paul Labrousse, Peng Fang, Jennifer Biroshak, Cindy Spittle, Chad Galderisi and Jin Li. Mutation Profiling of Colorectal Cancer ctDNA Using Ampliseq CHP2 Cancer Panel. AACR-NCI- EORTC International Meeting 2015

Weihua Liu, Zhenyu Yan, Paul Labrousse, Peng Fang, Jennifer Biroshak, Cindy Spittle, Chad Galderisi and Jin Li. Liquid Biopsy using the Ion AmpliSeq v2 Cancer Panel. AACR 2015

Peng Fang, Zhenyu Yan, Agus Darwanto Darwanto, Jessica Jessica Kristof Kristof, Justin Staha, Kellen Sakrison Sakrison, Caroline Caroline Hilburn Hilburn, Kim Anoe, Weihua Liu, Min Wang, Lisa Garrard, Esohe Idusogie, Ann Kapoun, Cindy Spittle, Chad Galderisi and Jin Li. Development and Validation of a NOTCH Custom NGS Assay for Identifying NOTCH1 Mutations in Chronic Lymphocytic Leukemia and Other Lymphoid Malignancies. EHA 2014

Yan, Z., Darwanto, A., Fang, P., Liu, W., Drafaehl, K., Toplin, J & Galderisi, C. (2013). Phasing Analysis Of TKI Resistance Mutations In The BCR-ABL1 Kinase Domain and Neighboring Domains Using Next-Generation Sequencing. Blood, 122(21), 3817-3817

Drafaehl, K., Eibl, J., Fjeld, C., Yager, T., McAdams, S., Hawkins, K., & Galderisi, C. (2013). Development and Validation Of Highly Sensitive Mrdx BCR-ABL Test For Monitoring Deep Molecular Response In Patients With Chronic Myeloid Leukemia. Blood, 122(21), 2617-2617

Jonathan M. Eibl, Julie A. Toplin, Chad D. Galderisi, Cindy S. Spittle. FFPE DNA Quality: Impact on Downstream Performance in Molecular Diagnostic Assays. AMP 2013

Peng Fang, Zhenyu Yan, Jessica Kristof, Justin Staha, Kim Pelak, Michael R. Palmer\*, Catherine Tribouley\*, Cindy Spittle Chad Galderisi and Jin Cindy Spittle, Chad Galderisi, and Jin Li. Obtaining Maximal Information from Limited FFPE Tissue Specimens: Development and Validation of a 4-Gene Custom NGS Panel for a GIST Clinical Trial. MC13-0069 Markers in Cancer

Peng Fang, Agus Darwanto, Zhenyu Yan, Weihua Liu, Kimberly Pelak, Jessica Kristof, Philip C. Mack, Sabita Sankar, Chad Galderisi and Jin Li. Mutation detection in FFPE and plasma circulating DNA with a focused ALK-EGFR-KRAS Next-Generation Sequencing panel. AACR-EORTC 2013

Sabita Sankar, Jennifer Wright, Chad Galderisi. Clinical assessment of MUC1 protein expression in FFPE tissue: Development and validation of an immunohistochemistry assay as a predictive assay for response to MUC1 vaccines. AACR\_EORTC 2013

Sabita Sankar, Jennifer Wright, Chad Galderisi. Evaluation of HGF and MET protein expression in NSCLC tumor specimens from patients previously treated with target or chemotherapy. AACR-EORTC 2013

**Publications/Abstracts (cont'd)**

Peng Fang, Agus Darwanto, Zhenyu Yan, Weihua Liu, Kimberly Pelak, Jessica Kristof, Philip C. Mack, Sabita Sankar, Chad Galderisi and Jin Li Validation of Illumina TruSeq Amplicon Cancer Panel with Concordance Testing Using Ion AmpliSeq Cancer Panel and Other Methods. AACR 2013

Kimberly Pelak, Jennifer Wright, Zhenyu Yan, Agus Darwanto, Weihua Liu, Peng Fang, Jin Li, Sabita Sankar and Chad Galderisi. Complementary Analysis of LKB1/STK11 Mutation and Protein Expression Status using Next-Generation Sequencing, Sanger Sequencing and Immunohistochemistry. AACR 2013

Peng Fang, Agus Darwanto, Zhenyu Yan, Weihua Liu, Chad Galderisi and Jin Li. Highly Sensitive Detection of EGFR T790M on Ion Torrent PGM. AACR 2013

Kimberly Pelak, Jennifer Wright, Zhenyu Yan, Agus Darwanto, Weihua Liu, Peng Fang, Jin Li, Sabita Sankar and Chad Galderisi Absolute Quantification of EGFR Activation and Resistance Mutations by Droplet Digital PCR in Circulating Nucleic Acids. AACR 2013

Sabita Sankar, Jennifer Wright, Chad Galderisi. Clinical Assessment of PTEN mutation in FFPE Tissue: Comparison of Sanger Sequencing, Immunohistochemistry and Chomogenic In Situ Hybridization Methods. AACR 2013

Jyothirmayee S. Tadepalli, Shria Hafner, Jessica Kristof, Chad Galderisi, Cindy Spittle, Eric Bruening, Stephane Wong, Iman Osman and David Polsky. Liquid Biopsy: the Application of Allele-Specific PCR (AS-PCR) and Mutation-Directed SNaPshot Assay to Detect BRAF and NRAS Mutant DNA in Peripheral Blood from Metastatic Melanoma Patients. AMP 2012

Weihua Liu, Zhenyu Yan, Cindy Spittle, Chad Galderisi and Jin Li Analytical Validation of Ion AmpliSeq Cancer Panel 2.0. AMP 2012

Jin Li, Weihua Liu, Zhenyu Yan, Peng Fang, Agus Darwanto, Peng Fang, Kim Pelak, Julie Toplin, Kim Anoe, Cindy Spittle, Stephane Wong, and Chad Galderisi. Next-Generation Sequencing of the BCR-ABL1 Kinase Domain and Neighboring Domains Associated with Therapy Resistance. ASH 2012

Gottfried E. Konecny, Teodora Kolarova, Neil O'Brien, Boris Winterhoff, Guorong Yang, Jingwei Qi, Zhengdong Qi, Natarajan Venkatesan, Raul Ayala, Tong Luo, Richard S. Finn, Jessica Kristof, Chad Galderisi, Diana Porta, Lee Anderson, Michael Shi, Alejandro Yovine and Dennis J Slamon. Activity of the fibroblast growth factor receptor inhibitors dovitinib (TKI258) and NVP-BGJ398 in human endometrial cancer cells. Molecular cancer therapeutics, 12(5), 632-642

Julie Toplin, Courtney Fuller, Linda Fletcher, Stephane Wong, Peter Maslak, Jorge Cortes, Rosemary Mazanet, Susan Branford, Timothy Hughes, Chad Galderisi, Michael Heinrich, Brian Druker and Emmanuel Beillard. An MMR Control RNA for Reliable Monitoring of BCR-ABL Transcripts in Treated CML Patients. Blood 2007 110:2939

E. Beillard, C. Fuller, R. Mazanet, P. Maslak, J. Cortes, M. Heinrich, B. Druker, C. Galderisi. Validation of Paxgene Tubes for BCR-ABL Quantitation at MMR Value Using 105 Paired Samples. Journal of Molecular Diagnostics 2007, Vol 9, No. 5

### Publications/Abstracts (cont'd)

Press, R. D., Galderisi, C., Yang, R., Rempfer, C., Willis, S. G., Mauro, Deiningner, M. W. A half-log increase in BCR-ABL RNA predicts a higher risk of relapse in patients with chronic myeloid leukemia with an imatinib-induced complete cytogenetic response. *Clinical Cancer Research*, 13(20), 6136-6143

Heinrich, M. C., Morich, J. R., Beillard, E. J., Fuller, C., Galderisi, C. D., & Druker, B. J. (2006, September). A novel, high-throughput assay for detection of ABL T315I mutations. In *AACR Meeting Abstracts* (Vol. 2006, No. 2, p. B68)

Gagnon, P. J., Galderisi, C., Page, B. R., & Holland, J. M. (2009). Angiosarcoma developing after curative induction chemotherapy and radiotherapy for locally advanced squamous cell carcinoma of the larynx. *Head & neck*, 31(6), 829-832

Galderisi C, Corless CL, Wolford J, Harrell T, Heinrich M, and Press R. Simultaneous JAK2 V617F and KIT D816V Mutations in Systemic Mastocytosis. United States and Canadian Academy of Pathology poster presentation. 2006

Peric, M., Bozdogan, B., Galderisi, C., Krissinger, D., Rager, T., & Appelbaum, P. C. (2004). Inability of L22 ribosomal protein alteration to increase macrolide MICs in the absence of efflux mechanism in *Haemophilus influenzae* HMC-S. *Journal of Antimicrobial Chemotherapy*, 54(2), 393-400

Galderisi CD, Bruggeman R, Zaino RJ, Appelbaum PC, Bozdogan B. DNA Sequencing of 16S rDNA for Identification of Microbial Pathogens from Autopsy Formalin-Fixed Paraffin Embedded Tissue in Neonates with Necrotizing Enterocolitis. Monday, February 28, 2005. Poster: United States and Canadian Academy of Pathology. Stowell-Orbison Award Nominee

Galderisi CD, Bozdogan B, Nifong T, Benko F, Appelbaum P. Comparative Analysis of Gene Expression in Seven *Haemophilus influenzae* Strains and Their Macrolide Resistant Derivatives. October 2004. Poster: Association for Molecular Pathology. Young Investigator Award Nominee

Galderisi CD, Browne F, Bozdogan B, Appelbaum P. Analysis of Telithromycin Resistance in Clinical *Streptococcus pyogenes* Isolates with erm(B) gene. September 2003. Poster: College of American Pathology annual convention

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### Professional Board Certification/Licensure

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| • <b>Molecular Genetic Pathology Boards</b>  | Successful completion 2007 and Re-certification 2018 |
| • <b>Anatomic Pathology Boards</b>   | Successful completion - June 15, 2005                |
| • <b>National Board of Osteopathic Medical Examiners</b><br>Pennsylvania, Medical Training License | 2001 to 2005<br>Successful completion NBOME I - III  |
| • <b>New York State</b><br>NY - CQ Laboratory Director   | 2007 to Present                                      |
| • <b>State of Oregon</b><br>Full and unrestricted Medical License                                  | 2005 to Present                                      |



**Professional Board Certification/Licensure (cont'd)**

- **State of Massachusetts** 2012 to Present  
Full and unrestricted Medical License
- **State of Washington** 2010 to Present  
Full and unrestricted Medical License

**Employee Signature & Date:**

**Chad Galderisi**

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REASON: I approve this document

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