

Matthew K de Gannes, PhD

Clinical Research Associate

Curriculum Vitae

November 2022

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Education and Qualifications

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| 2014-2020 | PhD, Environmental Genetics and Molecular Toxicology Cincinnati, OH | University of Cincinnati College of Medicine |
| 2012-2014 | M.S., Environmental Health Sciences Amherst, MA | University of Massachusetts Amherst |
| 2008-2012 | B.S., Biology Gettysburg, PA | Gettysburg College |

Employment History

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| 2020-present | Clinical Research Associate Medpace, Inc., Cincinnati, OH | Clinical Monitoring Department |
| 2014-2020 | Graduate Research Assistant University of Cincinnati, Cincinnati, OH | Department of Environmental and Public Health Sciences |
| 2011 | Research Intern American Legacy Foundation, Washington, DC | Schroeder Institute for Tobacco Research and Policy Studies |

Leadership

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| 2017-2018 | President, Health Sciences Graduate Association | University of Cincinnati, Cincinnati, OH |
| 2016-2017 | Vice-President, Health Sciences Graduate Association | University of Cincinnati, Cincinnati, OH |
| 2016 | Volunteer Chair, Health Sciences Graduate Association | University of Cincinnati, Cincinnati, OH |

Honors and Awards

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| 2018 | Graduate Student Award for Exemplary Initiative | University of Cincinnati, Cincinnati, OH |
| 2018 | Graduate Student Award for Exemplary Service in Life Sciences | University of Cincinnati, Cincinnati, OH |
| 2018 | Graduate Student Association of the Year | University of Cincinnati, Cincinnati, OH |
| 2018 | Graduate Student Government Research Fellowship | University of Cincinnati, Cincinnati, OH |
| 2013 | Third Place in Poster Presentations, Research Day | University of Massachusetts Amherst, Amherst, MA |
| 2012 | Fall Semester Commendation List | Gettysburg College, Gettysburg, PA |
| 2011 | Spring Semester Dean's List | Gettysburg College, Gettysburg, PA |
| 2011 | Fall Semester Commendation List | Gettysburg College, Gettysburg, PA |
| 2009 | Spring Semester Dean's List | Gettysburg College, Gettysburg, PA |
| 2009 | Fall Semester Dean's List | Gettysburg College, Gettysburg, PA |

Service

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| 2020 | SciShortform Science Writing Editor | Online SciShortform Group |
| 2019 | Biomedical Careers and Research Presenter | Cincinnati Museum Center Children's Summer Camp |
| 2017-2018 | Dean's Council Graduate Student Representative | University of Cincinnati College of Medicine |
| 2017 | Three Minute Thesis Judge | University of Cincinnati College of Medicine |
| 2016-2017 | Co-developer of Project Citizen Science Initiative | University of Cincinnati |

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| 2016 | Judge for Children's Science Posters | Southwest Ohio Science and Engineering Expo |
| 2012-2013 | Faculty Search Committee for Environmental Health Sciences Division | University of Massachusetts Amherst |

Teaching Experience

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| 2016 | Tutor University of Cincinnati | Molecular and Cellular Biology |
| 2014 | Teaching Assistant University of Massachusetts Amherst | Introduction to Environmental Health Sciences |
| 2012 | Teaching Assistant University of Massachusetts Amherst | Introduction to Environmental Health Sciences |

Conference Presentations

1. **de Gannes, M.**, Ko, C.I., Biesiada, J., Zhang, X., Medvedovic, M., Puga, A. (2019). TCDD Alters Dynamic DNA Methylation Patterns Crucial for Cardiomyocyte Maturation and Implicated in Disease. Ohio Valley Society of Toxicology Annual Meeting. *Cincinnati, OH, 2019*
2. Kreslake, J.M., Cantrell, J., Vallone, D.M., Tacelosky, M., Ganz, O. Dubois, P., **de Gannes, M.**, Pearson, J.L., Kirchner, T.R. (2012). Development and Implementation of a Mobile Phone-based System for Surveillance of Point-of-Sale Tobacco Marketing Tactics. Society for Research on Nicotine and Tobacco Annual Meeting. *Houston, TX, 2012*

Conference Abstracts

1. **de Gannes, M.K.**, Ko, C.I., Biesiada, J., Zhang, X., Medvedovic, M., Puga, A. (2020). TCDD Alters Dynamic DNA Methylation Patterns Crucial for Cardiomyocyte Maturation and Implicated in Disease. Society of Toxicology Annual Meeting. *Anaheim, CA, 2020*

Research Dissertations

PhD Dissertation

1. **de Gannes, M.** Dioxin Impact on Cardiac Development, Structure, Function, and Health, and Implications for Disease. PhD Dissertation. University of Cincinnati College of Medicine.
+ **Advisor:** Dr. Alvaro Puga (Department of Environmental and Public Health Sciences)

M.S. Thesis

1. **de Gannes, M.** Rapid Method of Processing Sperm for Nucleic Acid Extraction in Clinical Research. M.S. thesis. University of Massachusetts Amherst.
+ **Advisor** Dr. Richard Pilsner (Department of Environmental Health Sciences)

Publications

Journal Articles

1. **de Gannes, M.**, Koch, S., Puga, A., & Rubinstein, J. (2021). Developmental and Lifelong Dioxin Exposure Induces Measurable Changes in Cardiac Structure and Function in Adulthood. *Scientific Reports*, **11**(1), 10378. doi:10.1038/s41598-021-89825-w
2. **de Gannes, M.**, Ko, C.I., Zhang, X., Biesiada, J., Niu, L., Koch, S., Medvedovic, M., Rubinstein, J., & Puga, A. (2020). Dioxin Disrupts Dynamic DNA Methylation Patterns in Genes that Govern Cardiomyocyte Maturation. *Toxicological Sciences*, **178**(2), 325-337. doi:10.1093/toxsci/kfaa153
3. Ko, C. I., Fan, Y., **de Gannes, M.**, Wang, Q., Xia, Y., & Puga, A. (2016). Repression of the Aryl Hydrocarbon Receptor Is Required to Maintain Mitotic Progression and Prevent Loss of Pluripotency of Embryonic Stem Cells. *Stem Cells*, **34**(12), 2825-2839. doi:10.1002/stem.2456
4. Wu, H., **de Gannes, M. K.**, Luchetti, G., & Pilsner, J. R. (2015). Rapid Method for the Isolation of Mammalian Sperm DNA. *Biotechniques*, **58**(6), 293-300. doi:10.2144/000114280
+ Co-first author