

# E. Courtney Henry III

Curriculum Vitae

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## EDUCATION

### Tertiary

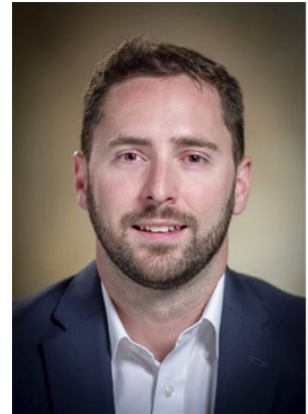
Ph.D., Medical Physics, Dalhousie University  
Halifax, Nova Scotia, Canada (2016 - 2021)

M.Sc., Medical Physics, University of Sydney  
Sydney, New South Wales, Australia (2015 - 2016)

B.Sc., Physics (Honours), University of King's College  
Halifax, Nova Scotia, Canada (2009 - 2013)

### Secondary

High School Certificate, Calais High School  
Calais, Maine, USA (2005 - 2009)



## SCHOLARSHIPS AND AWARDS

**Best in Physics (Therapy) Presentation** - American Association of Physicists in Medicine, Annual Meeting (2022)

**Best of GEST Presentation** - Global Embolization Symposium and Technologies (GEST), Annual Meeting (2021)

**William Leiper Memorial Scholarship** - Dalhousie University, Department of Physics (2021)

**Oral Presentation, 1<sup>st</sup>** - QEII Health Sciences Centre, Department of Radiology, Annual Research Day (2021)

**Poster Presentation, 1<sup>st</sup>** - Biennial Conference, Beatrice Hunter Cancer Research Institute (2018)

**Cancer Research Training Program Traineeship** - Beatrice Hunter Cancer Research Institute (2017 - 2020)

## EMPLOYMENT HISTORY

### **Postdoctoral Fellow** (Feb 2022 – Present)

Houston, Texas, United States

- Employed the Department of Imaging Physics at MD Anderson Cancer Centre performing research in the field of quantitative nuclear medicine imaging and radiation dosimetry.

### **Research Assistant, Royal North Shore Hospital, Department of Nuclear Medicine** (Dec 2015 – Feb 2016)

St. Leonards, New South Wales, Australia

- Performed quantitative SPECT image analysis and radiation dosimetry calculations for <sup>177</sup>Lutetium peptide receptor radionuclide therapy.

### **Teaching Assistant, University of Sydney, Department of Physics** (July 2015 – July 2016)

Sydney, New South Wales, Australia

- Laboratory supervisor for two undergraduate physics courses – MRTY 1036: *Health Physics and Radiation Biology* and MRTY 1031: *Medical Radiation Physics*.

### **Teaching Assistant, Dalhousie University, Department of Physics** (May 2011 – Sept 2013)

Halifax, Nova Scotia, Canada

- Designed and tested undergraduate-level physics experiments and supervised first-year physics students.

- Organized physics outreach programs and conducted physics demonstrations for high school and primary school science students.

### PEER-REVIEWED JOURNAL PUBLICATIONS

1. **Henry, C.**, Strugari, M., Mawko, G., Brewer, K., Abraham, R., Liu, D., Gordon, A., Bryan, J., Kappadath, S., and Syme, A. (2022). Precision Dosimetry in Yttrium-90 Radioembolization through PET/CT Imaging of Radiopaque Microspheres in a Rabbit Liver Model. *European Journal of Nuclear Medicine and Medical Imaging – Physics*, 9:21
2. **Henry, C.**, Strugari, M., Mawko, G., Brewer, K., Abraham, B., Kappadath, S., Syme, A. (2021). Post-Administration Dosimetry in Yttrium-90 Radioembolization through Micro-CT Imaging of Radiopaque Microspheres in a Porcine Renal Model. *Physics in Medicine and Biology*, 66, 095011.
3. **Henry, C.**, Mawko, G., Tonkopi, E., Frampton, J., Abraham, R., Boyd, D., Kehoe, S., Gregoire, M., Kappadath, S., Syme, A. (2019). Quantification of the Inherent Radiopacity of Glass Microspheres for Precision Dosimetry in Yttrium-90 Radioembolization. *Biomedical Physics and Engineering Express*, 5, 055011.
4. Bailey, D. L., Hennessy, T. M., Willowson, K. P., **Henry, C.**, Chan, D. L., Aslani, A., Roach, P. J. (2016). In Vivo Measurement and Characterization of a Novel Formulation of [<sup>177</sup>Lu]-DOTA-OCTREOTATE. *Asia Oceania Journal of Nuclear Medicine and Biology*, 4(1), 30.
5. Bailey, D. L., Hennessy, T. M., Willowson, K. P., **Henry, C.**, Chan, D. L., Aslani, A., Roach, P. J. (2015). In Vivo Quantification of <sup>177</sup>Lu with Planar Whole-Body and SPECT/CT Gamma Camera Imaging. *European Journal of Nuclear Medicine and Medical Imaging*, 2(1), 20.
6. Petibon, R., **Henry, C.**, Burns, J. C., Sinha, N. N., Dahn, J. R. (2014). Comparative Study of Vinyl Ethylene Carbonate (VEC) and Cynylene Carbonate (VC) in LiCoO<sub>2</sub>/Graphite Pouch Cells using High Precision Coulometry and Electrochemical Impedance Spectroscopy Measurements on Symmetric Cells. *Journal of The Electrochemical Society*, 161(1), A66-A74.

### PUBLISHED ABSTRACTS

1. Kappadath, S., **Henry, C.**, Mahvash, A. (2022). Radioembolization for HCC Patients with Personalized Yttrium-90 Dosimetry for Curative Intent (RAPY90D): An Interim Analysis: 35<sup>th</sup> Annual Meeting of EANM. *European Journal of Nuclear Medicine and Molecular Imaging*, 49(1), S53.
2. Kappadath, S., **Henry, C.**, Lopez, B., Abdelsalam, M., Chasen, B., Kased, A., Kuban, J., Metwalli, Z., Odisio, B., Mahvash, A. (2022). Radioembolization for HCC Patients with Personalized Yttrium-90 Dosimetry for Curative Intent (RAPY90D): An Interim Analysis: Annual Meeting of SNMMI. *Journal of Nuclear Medicine*, 63(2), 2375.
3. **Henry, C.**, Strugari, M., Mawko, G., Brewer, K., Abraham, R., Liu, D., Gordon, A., Bryan, J., Kappadath, S., and Syme, A. (2022). Precision Dosimetry in Yttrium-90 Radioembolization Through CT Imaging of Radiopaque Microspheres in a Rabbit Liver Model: 64<sup>th</sup> Annual Meeting of AAPM. *Medical Physics*, 49(6), E537.
4. **Henry, C.**, Mawko, G., Brewer, K., Tonkopi, E., Frampton, J., Abraham, R., Kehoe, S., Boyd, D., Gregoire, M., O'Connell, K., Liu, D., Gordon, A., Bryna, J., Kappadath, S., Syme, A. (2021). An X-ray-based Approach to Precision Dosimetry in Yttrium-90 Radioembolization: 67<sup>th</sup> Annual Meeting of COMP. *Medical Physics*, 48(8), 4677.
5. **Henry, C.**, Strugari, M., Mawko, G., Brewer, K., Abraham, R., Liu, D., Gordon, A., Bryan, J., Kappadath, S., and Syme, A. (2021). CT-based Dosimetry in Yttrium-90 Radioembolization Performed in a Rabbit Liver Model: 15<sup>th</sup> Annual Meeting of GEST. *Journal of Vascular and Interventional Radiology*, 32(8), E34.

6. Strugari, M., **Henry, C.**, Mawko, G., Brewer, K., Syme, A. (2020). Comparison of 90Y Dose-Point-Kernels and Dose-Voxel-Kernels in Homogeneous and Voxelized Water Phantoms using GATE: Annual Scientific Meeting of CARO. *Radiotherapy and Oncology*, 150(1), S29.
7. **Henry, C.**, Strugari, M., Mawko, G., Brewer, K., Abraham, B., Syme, A. (2020). High-Precision Dosimetry in Yttrium-90 Radioembolization through Post-Procedural CT Imaging of Radiopaque Microspheres in a Porcine Model: Joint AAPM/COMP Annual Scientific Meeting. *Medical Physics*, 47(6), E425.
8. **Henry, C.**, Mawko, G., Syme, A. (2019). 3D/2D Image Registration for Microsphere Tracking in Radioembolization: 65<sup>th</sup> Annual Meeting of COMP. *Medical Physics*, 46(11), 5391-5392.
9. **Henry, C.**, Tonkopi, E., O'Connell, K., Westcott, M., Lewandowski, R., Liu, D., Boyd, D., Kehoe, S., Gregoire, G., Mawko, G., Kappadath, S., Syme, A., Abraham, A. (2019). Novel radiopaque Yttrium-90 Glass Microspheres in a Porcine Model: Clinical Potential for Real-Time Targeting and Dosimetry: 44<sup>th</sup> Annual Meeting of SIR. *Journal of Vascular and Interventional Radiology*, 30(3), S230.
10. **Henry, C.**, Mawko, G., Tonkopi, E., Frampton, J., Abraham, R., Boyd, D., Kehoe, S., Syme, A. (2018). The Quantification and Comparison of the Inherent Radiopacity of Glass Microspheres Used in Transarterial Radioembolization: 60<sup>th</sup> Annual Meeting of AAPM. *Medical Physics*, 45(6), E566.
11. **Henry, C.**, Mawko, G., Lewandowski, R., Liu, D., Kehoe, S., Boyd, D., Abraham, R., Syme, A. (2017). Internal Dosimetry of a Novel Y-90 Glass Microsphere in Transarterial Radioembolization: 63<sup>rd</sup> Annual Meeting of COMP. *Medical Physics*, 44(8), 4388.
12. Eslick, E., Hayes, A. R., Willowson, K. P., Ryu, H., Hennessy, T., **Henry, C.**, Bernard, E. J., Chan, D. L. H., Schembri, G. P., Roach, P. J., Pavlakis, N., Clarke, S. J., Engel, A., Bailey, D. L. (2017). Towards Personalizing PRRT with [<sup>177</sup>Lu]-DOTATATE to Minimise Renal Toxicity in Neuroendocrine Tumour Patients: 14<sup>th</sup> Annual Meeting of ENETS. *Neuroendocrinology*, 105, 214-214.
13. Petibon, R., **Henry, C.**, Sinha, N. N., Burns, C., Dahn, J. (2013). The Effect of some Electrolyte Additives on LiCoO<sub>2</sub>/Graphite Pouch Cells: 224<sup>th</sup> Annual Meeting of ECS. *The Electrochemical Society*, 14, 1150-1150.

## PRESENTATIONS

1. **Precision Dosimetry in Yttrium-90 Radioembolization Through CT Imaging of Radiopaque Microspheres in a Rabbit Liver Model.** (Oral)
  - America Association of Physicists in Medicine 64<sup>th</sup> Annual Scientific Meeting, Washington D.C., USA (2022)
2. **CT-based Dosimetry in Yttrium-90 Radioembolization Performed in a Rabbit Liver Model.** (Oral)
  - Global Embolization Symposium & Technologies, Virtual (2021)
  - QEII Health Sciences Centre Radiology Research Day, Virtual (2021)
3. **An X-ray-based Approach to Precision Dosimetry in Yttrium-90 Radioembolization.** (Oral)
  - Canadian Organization of Medical Physicists 67<sup>th</sup> Annual Scientific Meeting, Virtual (2021)
4. **High-Precision Dosimetry in Yttrium-90 Radioembolization Through Post-Procedural CT Imaging of Radiopaque Microspheres in a Porcine Model.** (Oral)
  - Joint AAPM/COMP Annual Scientific Meeting, Virtual (2020)
  - BHCRI Biennial Conference, Virtual (2020)
5. **3D/2D Image Registration for Microsphere Tracking in Radioembolization.** (Oral)
  - Canadian Organization of Medical Physicists 65<sup>th</sup> Annual Scientific Meeting, Kelowna, Canada (2019)
  - QEII Health Sciences Centre Radiation Oncology Research Day, Halifax, Canada (2019)
  - QEII Health Sciences Centre Radiology Research Day, Halifax, Canada (2019)

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6. **A Novel Approach to Radiation Delivery and Tumour Dose Verification in the Treatment of Liver Cancer.** (Oral)
  - QEII Health Sciences Centre Foundation, Halifax, Canada (2019).
7. **Quantifying the Radiopacity of Novel Microspheres used in Yttrium-90 Radioembolization – A First Step in Accurate, Post-Treatment Dosimetry.** (Poster)
  - BHCRI Biennial Conference, Halifax, Canada (2018)
8. **The Quantification and Comparison of the Inherent Radiopacity of Glass Microspheres Used in Transarterial Radioembolization.** (Oral)
  - American Association of Physicists in Medicine 60<sup>th</sup> Annual Scientific Meeting, Nashville, USA (2018)
  - QEII Health Sciences Centre Radiation Oncology Research Day, Halifax, Canada (2018)
  - QEII Health Sciences Centre Radiology Research Day, Halifax, Canada (2018)
9. **Internal Dosimetry of a Novel Yttrium-90 Glass Microsphere in Transarterial Radioembolization.** (Poster)
  - Canadian Organization of Medical Physicists 63<sup>rd</sup> Annual Scientific Meeting, Ottawa, Canada (2017)
  - QEII Health Sciences Centre Radiation Oncology Research Day, Halifax, Canada (2017)