

**Dong-Woo Kang, PhD**

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**PROFESSIONAL APPOINTMENTS/EMPLOYMENT**


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2023 -	Instructor	<b>Dana-Farber Cancer Institute</b> , Boston, MA, USA Division of Population Sciences, Department of Medical Oncology
2023 -	Instructor	<b>Harvard Medical School</b> , Boston, MA, USA Department of Medicine
2021 - 2023	Postdoctoral Fellow	<b>Dana-Farber Cancer Institute</b> , Boston, MA, USA Division of Population Sciences, Department of Medical Oncology
2021 - 2023	Postdoctoral Fellow	<b>Harvard Medical School</b> , Boston, MA, USA Department of Medicine

**EDUCATION & TRAINING**


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2015 - 2020	PhD	<b>University of Alberta</b> , Edmonton, AB, Canada Faculty of Kinesiology, Sport, and Recreation, Behavioral Medicine Lab Supervisor: Dr. Kerry S. Courneya
2012 - 2015	MSc	<b>Yonsei University</b> , Seoul, South Korea College of Sciences in Education, Department of Sport and Leisure Studies Exercise Medicine and Rehabilitation Lab
2007 - 2012	BSc (Hons.)	<b>Yonsei University</b> , Seoul, South Korea College of Sciences in Education, Department of Sport and Leisure Studies

**AWARDS & HONORS (selected)****External**

2022 - 2024	Young Investigator Awards (\$225,000). Title: Exercise for Tumor Suppressive Impact in Black Men with Prostate Cancer on Active Surveillance: The REMOVE Trial
2017 - 2020	Alberta Innovates Graduate Studentship (C\$96,000). Alberta Innovates, Government of Alberta, AB, Canada
2015 - 2017	Government Scholarship for Study Overseas (C\$60,000). National Institute for International Education, Government of Korea, South Korea

**Internal**

2022	President's Pick. Oral presentation at the Multinational Association of Supportive Care in Cancer (MASCC) Annual Meeting, Toronto, ON, Canada
2022	Most Innovative Idea Award. Dana-Farber/Harvard Cancer Center Celebration of Early Career Investigators in Cancer Research, Boston, MA, USA
2020	Korean Canadian Scholarship (C\$2,000). Korean Canadian Scholarship Foundation, Toronto, ON, Canada
2019	Andrew Stewart Memorial Graduate Prize (C\$5,000). Faculty of Graduate Studies and Research, University of Alberta, Edmonton, AB, Canada
2019	Mary Louise Imrie Graduate Student Award (C\$1,500). Faculty of Graduate Studies and Research, University of Alberta, Edmonton, AB, Canada
2015	Doctoral Recruitment Scholarship (C\$15,000). Faculty of Kinesiology, Sport, and Recreation, University of Alberta, Edmonton, AB, Canada
2012 - 2014	Master's Program Full Scholarship - Bachelor-Master Conjunction Program (\$20,000). Yonsei University, Seoul, South Korea

**PROFESSIONAL ASSOCIATIONS**


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2022 - Present	Member, American Society of Preventive Oncology (ASPO)
2022 - Present	Member, International Association for the Study of Lung Cancer (IASLC)
2022 - Present	Member, Multinational Association of Supportive Care in Cancer (MASCC)
2021 - Present	Member, American Association for Cancer Research (AACR)
2015 - Present	Member, American College of Sports Medicine (ACSM)
2014 - Present	Member, American Society of Clinical Oncology (ASCO)

**GRANTS & FELLOWSHIPS (selected)****Active**

2023 - 2024	<b>DFCI Population Sciences</b> - McGraw/Patterson Research Fund: Team Science Concept Grant (\$150,000) Title: A pilot study of feasibility and preliminary efficacy of exercise during immunotherapy in patients with lung cancer: The POTENTIAL Trial Role: Co-Principal Investigator (Other PIs: Dieli-Conwright CM, Kenneth Kehl)
2023 - 2025	<b>Prostate Cancer Foundation</b> - Young Investigator Awards (\$225,000)

- Title: Exercise for Tumor Suppressive Impact in Black Men with Prostate Cancer on Active Surveillance: The REMOVE Trial  
Role: Principal Investigator
- 2022 - 2024 **Department of Defense, Prostate Cancer Research Program** - Health Disparity Research Awards (\$750,000)  
Title: Exercise to Enhance Cardiovascular Health Among Black Prostate Cancer Patients with Androgen Deprivation Therapy: The POWER Trial  
Role: Researcher (PI: Dieli-Conwright CM)
- 2022 - 2023 **Dana-Farber Cancer Institute** - Friends of Dana-Farber Grants (\$50,000)  
Title: Resistance exercise combined with protein supplementation for skeletal muscle mass in people with pancreatic cancer undergoing chemotherapy: The RE-BUILD Trial  
Role: Research fellow (PI: Dieli-Conwright CM)
- 2021 - 2023 **Prostate Cancer Foundation-Pfizer** - Health Equity Challenge Awards (\$150,000)  
Title: Exercise to Enhance Cardiovascular Health Among Black Prostate Cancer Patients with Androgen Deprivation Therapy: The POWER Trial  
Role: Co-Investigator (PI: Dieli-Conwright CM)

**Completed**

- 2021 - 2022 **Dana-Farber Cancer Institute** - Medical Oncology Grant Award Program (\$50,000)  
Title: Impact of exercise on the complications of corticosteroids in patients with graft versus host disease following allogeneic stem cell transplantation: The RESTART Trial  
Role: Research fellow (PI: Dieli-Conwright CM)
- 2019 **Korean Society of Epidemiology** - Health Disparity and Inequality Research Grant (\$1,700)  
Title: Identifying predictors of physical activity behavior in Korean cancer survivors: Data from the 2014-2017 Korean National Health and Nutrition Examination Survey  
Role: Co-Investigator (PI: An KY)
- 2018 - 2020 **Canadian Institutes of Health Research** - Project Grant (C\$244,800)  
Title: A phase II randomized controlled trial of exercise in prostate cancer patients undergoing active surveillance: The ERASE Trial (doctoral project)  
Role: Co-Investigator (PI: Courneya KS)
- 2017 - 2019 **Prostate Cancer Canada** - Discovery Grant (C\$76,000)  
Title: Exercise during active surveillance for prostate cancer: The ERASE Trial (doctoral project)  
Role: Co-Investigator (PI: Courneya KS)

**PUBLICATIONS****Summary**

<b>Peer-reviewed Journal Articles</b>	<b>42</b>
<b>Government Report</b>	<b>1</b>
<b>Published/Presented Abstracts</b>	<b>36</b>

**Peer-reviewed Journal Articles (selected)**

- Kang DW**, Boulé NG, Field CJ, Fairey AS, Courneya KS. Effects of supervised high-intensity interval training on
- Kang DW**, Barnes O, Vander Heiden MG, Dieli-Conwright CM. Effect of exercise on tumor markers - Is exercise anti-tumorigenic in humans?: A scoping review of preliminary clinical investigations. *Crit Rev Oncol Hematol*. 2022;178:103779. doi: 10.1016/j.critrevonc.2022.103779. Epub ahead of print. PMID: 35940512.
- Kang DW**, Wilson RL, Gonzalo-Encabo P, Norris MK, Hans M, Tahbaz M, Dawson J, Nguyen D, Normann AJ,
- Kang DW**, Fairey AS, Boulé NG, Field CJ, Wharton SA, Courneya KS. A randomized trial of the effects of exercise on anxiety, fear of cancer progression, and quality of life in prostate cancer patients on active surveillance. *J Urol*. 2022;207(4). doi:10.1097/JU.0000000000002334. PMID: 35179044.
- Kang DW**, Wilson RL, Christopher CN, Normann AJ, Barnes O, Lesansee JD, Choi G, Dieli-Conwright CM. Exercise cardio-oncology: Exercise as a therapeutic modality in the management of anthracycline-induced cardiotoxicity. *Front Cardiovasc Med*. 2022;8:805735. doi:10.3389/fcvm.2021.805735. PMID: 35097024.
- Kang DW**, Fairey AS, Boulé NG, Field CJ, Wharton SA, Courneya KS. Effects of exercise on cardiorespiratory fitness and biochemical progression in men with localized prostate cancer under active surveillance: The ERASE randomized clinical trial. *JAMA Oncol*. 2021;7(10):1487-1495. doi:10.1001/jamaoncol.2021.3067. PMID: 34410322.
- Kang DW**, An KY, Min JH, Jeon JY. Associations of health inequality factors with physical activity and sedentary behaviors in Korean cancer survivors. *Support Care Cancer*. 2021;29(8):4809-4817. doi: 10.1007/s00520-021-06014-1. PMID: 33538896.
- Kang DW**, Boulé NG, Fairey AS, Field CJ, Courneya KS. Exercise during active surveillance for prostate cancer - the ERASE trial: a study protocol for a phase II randomized controlled trial. *BMJ Open*. 2019;9:e026438. doi: 10.1136/bmjopen-2018-026438. PMID: 31278095.
- Kang DW**, Lee EY, An KY, Min JH, Jeon JY, Courneya KS. Associations between physical activity and comorbidities in Korean cancer survivors. *J Cancer Surviv*. 2018;12(4):441-9. doi: 10.1007/s11764-018-0683-y. PMID: 29492754.

10. **Kang DW**, Park JH, Lee MK, Kim Y, Kong ID, Chung CH, Jeon SS, Lee YH, Jeon JY. Effect of a short-term physical activity intervention on liver fat content in obese children. *Appl Physiol Nutr Metab*. 2018;43(6):553-7. doi: 10.1139/apnm-2017-0406. PMID: 29262266.
11. **Kang DW**, Lee J, Suh SH, Ligibel JA, Courneya KS, Jeon JY. Effects of exercise on insulin, IGF-axis, adipocytokines, and inflammatory markers in breast cancer survivors: a systematic review and meta-analysis. *Cancer Epidemiol Biomarkers Prev*. 2017;26(3):355-65. doi: 10.1158/1055-9965.EPI-16-0602. PMID: 27742668.
12. **Kang DW**, Kim SM, Jeon JY. Effects of voluntary running-wheel exercise on insulin, oxidative stress and advanced glycation end products in high-fat induced obese mice. *Korean J Obes*. 2015; 24(1):59-62.
13. **Kang DW**, Chung JY, Lee MK, Lee J, Park JH, Kim DI, Jones LW, Ahn JB, Kim NK, Jeon JY. Exercise barriers in Korean colorectal cancer patients. *Asian Pac J Cancer Prev*. 2014;15(18):7539-45. doi: 10.7314/apjcp.2014.15.18.7539. PMID: 25292025.

#### **Published/Presented Abstracts (selected)**

1. **Kang DW**, Einstein DJ, Nguyen PL, Rebbeck TR, Uno H, Mossanen M, Morgans AK, Wilson RL, Gonzalo-Encabo P, Ficarra S, Gardiner J, Tjogas D, Dieli-Conwright CM. Exercise to Enhance Cardiovascular Health among Black Prostate Cancer Patients with Androgen Deprivation Therapy: The POWER Trial. Poster presentation at *the American Society of Clinical Oncology (ASCO) Annual Meeting*. June 2023. Chicago, IL, USA.
2. **Kang DW**, Patel D, Field CJ, Boulé NG, Fairey AS, Dieli-Conwright, Courneya KS. Changes in immune parameters after 12-week high-intensity interval training in men with prostate cancer undergoing active surveillance. Oral presentation at *the International Society of Exercise Immunology (ISEI) Conference*. October 2022. Tucson, AZ, USA.
3. **Kang DW**, Wilson RL, Gonzalo-Encabo P, Normann AN, Christopher C, Dieli-Conwright CM. Effects of circuit, interval-based exercise on insulin resistance and metabolic biomarkers in sedentary and obese cancer survivors. Oral presentation (President's Pick) at *the Multinational Association of Supportive Care in Cancer (MASCC) Annual Meeting*. June 2022. Toronto, ON, Canada.
4. **Kang DW**, Fairey AS, Boulé NG, Field CJ, Wharton SA, Courneya KS. Effects of exercise on biochemical progression in men with prostate cancer on active surveillance. Poster presentation at the *Dana-Farber/Harvard Cancer Center Celebration of Early Career Investigators in Cancer Research (Most Innovative Idea Award)*. January 2022. Boston, MA, USA.
5. **Kang DW**, Christopher CN, Normann AJ, Norris MK, Dieli-Conwright CM. A 16-week circuit interval-based exercise intervention reduces systemic inflammation in obese, sedentary cancer survivors. Poster presented at *the American Association for Cancer Research (AACR) Annual Meeting*. April 2022. New Orleans, LA, USA.
6. **Kang DW**, Wilson, RL, Norris MK, Christopher C, Dieli-Conwright CM. A study design and protocol of improving cognitive function through high-intensity interval training in breast cancer patients undergoing chemotherapy - The CLARITY Trial. Poster presentation at *the American Institute for Cancer Research (AICR) - Research Conference*. November 2021. Leesburg, VA, USA.
7. **Kang DW**, Boulé NG, Fairey AS, Field CJ, Courneya KS. Effects of high-intensity interval training on cardiometabolic and inflammatory biomarkers in prostate cancer patients undergoing active surveillance: A randomized controlled trial. Oral presentation at *the Translating Energy Balance from Bench to Communities: Application of Parallel Animal-Human Studies in Cancer Virtual Conference*. July 2021. MD Anderson Cancer Center, Houston, TX, USA.
8. **Kang DW**, Fairey AS, Boulé NG, Field CJ, Wharton SA, Courneya KS. A phase II randomized controlled trial of exercise on biochemical progression in men with prostate cancer on active surveillance. Virtual poster presentation at *the American Society of Clinical Oncology (ASCO) Annual Meeting*. June 2021. Chicago, IL, USA.

#### **Invited Talks (selected)**

1. **Kang DW**, Gonzalo-Encabo P, Wilson RL. Virtually Better? Exercise Oncology Prescription in a Pandemic Era. Tutorial lectures at *the American College of Sports Medicine (ACSM) Annual Meeting*; May 2023; Denver, CO, USA.
2. **Kang DW**. Anti-tumorigenic Properties of Exercise: Insights from Clinical Intervention Trials. *Faculty of Kinesiology, University of Michigan*. Dec 2022; Ann Arbor, MI, USA.
3. **Kang DW**. Exercise Oncology: How Do We Combat Cancer with Exercise? *Department of Physical Education, School of Education, Yonsei University*. May 2022; Seoul, South Korea.
4. **Kang DW**. Exercise and Prostate Cancer: Potential Benefits for Prostate Cancer Patients on Active Surveillance. *Frontier Research Institute of Convergence Sports Science (FRICSS) International Symposium* at Yonsei University; May 2018; Seoul, South Korea.

#### **SERVICE (selected)**

2023 - Present	<b>Associate Editor</b> <i>Frontiers in Oncology</i>
2021 - Present	<b>Academic Journal Manuscript Reviewer</b> <i>BMC Women's Health; Cancer; Cancer Control; Cancer Epidemiology, Biomarkers &amp; Prevention; Cancers; Integrative Cancer Therapies; Journal of Environmental Research and Public Health; Journal of Psychiatric Research; PLOS ONE; Prostate Cancer and Prostatic Diseases; Scientific Reports</i>
2021	<b>External Grant Reviewer</b> <i>New Frontiers in Research Fund</i> Tri-Agency Institutional Programs, Government of Canada