In 2001, AbbVie and the Canadian Association of Radiation Oncology (CARO) collaborated to become a dynamic team. As a result of this pairing, the ACURA (AbbVie-Caro Uro-Oncologic Radiation Award) program was born. Over the past 17 years, the ACURA program has allocated more than 3.1 million dollars to researchers across the country in order to fund 139 projects which have contributed to the advancement of prostate cancer treatments.
2017 AWARD RECIPIENTS

- **Ménard, Cynthia**
  A multi-institutional randomized evaluation of PSMA-PET in the Radiotherapeutic management of patients with very high-risk or oligometastatic prostate cancer.

- **Mesci, Aruz**
  Long non-coding RNA UCA1 as a predictive biomarker of Gleason Grade in active surveillance of prostate cancer.

- **Jones, Michael**
  A Deformable Dose Accumulation in Prostate Cancer Trial (ADAPT).

- **So, Jonathan**
  Screening kinase inhibitors to target prostate cancer hypoxia and synergize with radiotherapy.

- **Velec, Michael**
  Deformable Image Registration-Enabled Cumulative Total (DIRECT) Dose Adaptation in Prostate Radiotherapy.

- **Sundaramurthy, Aravindhan**
  Focal boost to intra-prostatic GTV using MRI-guided HDR brachytherapy followed by whole gland Stereotactic Body Radiotherapy for intermediate-risk Prostate Cancer.
AWARD RECIPIENTS

- **Berlin, Alejandro**
  Focal MRI-Guided and Genomics-Driven High-Dose-Rate Brachytherapy (HDR) as a Monotherapy for Localized Prostate Cancer: A Pilot Study.

- **Lee, Tsz Kin Bernard**
  The Comprehensive Prostate Cancer Assessment on Sexual Health for Men-Who-Have-Sex-with-Men (COMPASS).

- **Vigneault, Eric**
  Research of Germline DNA Biomarkers Predictive of Biochemical Failure in Prostate Cancer Patients Treated with Permanent Seeds Implant.

- **Craig, Timothy**
  Adaptive Radiation Therapy in Postoperative Management of High-Risk Prostate Cancer.

- **Cheung, Patrick**
  Randomized Feasibility Trial of Prostate Radiotherapy vs. Prostatectomy in Men with Hormone Sensitive Oligometastatic Prostate Cancer.

- **Glicksman, Rachel & Berlin, Alejandro**
  [18F]DCFPyL PET/MRI for Personalizing Prostate Cancer Subclinical Metastatic Ablative MR-Guided Radiotherapy: A Pilot Study.

- **Ménard, Cynthia**
  Development of a Non-Invasive Technique for Accurate MRI-CT Registration of the Prostate Gland.

- **Souhami, Luis**
  Postoperative Hypofractionated Radiation Therapy and Hormonal Therapy in Patients with High Risk Prostate Cancer. A Phase II Trial.
AWARD RECIPIENTS

- Alexander, Abraham & Kwan, Winkle
  Phase II Randomized Trial of Stereotactic Body Radiotherapy vs. External Beam Radiotherapy, with Androgen Suppression, for Intermediate and High-Risk Prostate Cancer.

- Cheung, Patrick
  Phase I Trial of SBRT with Radium-223 for Patients with Oligometastatic Castration Resistant Prostate Cancer with Bone-Only Metastases.

- Malone, Shawn
  Using Circulating miRNA to Predict Time to Castrate Resistance.

- Szumacher, Ewa
  Assessing the Impact of an Instructional Video on Patients' Compliance with Bowel and Bladder Preparation Instructions for CT Scan Planning for Intensity Modulated Radiotherapy (IMRT) for Prostate Cancer.

- Hathout, Lara
  A Pilot Phase II Randomized Trial Evaluating Acute and Late Toxicity of High-Dose Rate Brachytherapy and Low-Dose Rate Brachytherapy as Monotherapy in Localized Prostate Cancer.

- Delouya, Guila
  Analyzing the Change in Planning for Radiation Treatment of the Prostate Following Fluorocholine Positron Emission Tomography (PET-FC).

- Hamilton, Sarah & Lo, Andrea
  Evaluation of a Novel Quantitative Tissue Pathology Technique as a Tool for Managing Prostate Cancer Progression and Recurrence.

- Taussky, Daniel
**2015-2011**

**ABBVIE-CARO URO-ONCOLOGIC RADIATION AWARDS**

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**2014 AWARD RECIPIENTS**

- **Brundage, Michael**  
The Utilization of Adjuvant and Salvage Radiotherapy Following Radical Prostatectomy in Ontario.

- **Chung, Hans**  
Whole-Gland Salvage HDR Prostate Brachytherapy for Locally Recurrent Prostate Cancer.

- **Chung, Peter**  
Rectal Dose During HDR Prostate Brachytherapy.

- **Delouya, Guila**  
Evaluating DNA Damage Response Activation During Prostate Cancer Progression.

- **Loblaw, Andrew**  
Prostate Specific Quality of Life and Health Preference Values of Patients Undergoing Two Stereotactic Ablative Adaptive Radiotherapy Treatments for Localized Prostate Cancer (2STAR).

- **Martin, Andre-Guy**  

- **Roberge, David**  
Concurrent 4D Ultrasound and Stereotactic Fiducial Imaging of the Prostate.

- **Tsakiridis, Theodoros**  
Salicylate and Metformin to Inhibit Growth and Radio-Sensitize Prostate Cancer.
2013 AWARD RECIPIENTS

- **Chung, Peter**
  MR-Guided and Tumor-Targeted HDR Brachytherapy Salvage After Radiotherapy – Dose/Volume Level 2.

- **Foltz, Warren**
  Development of a Novel Geometrically Robust Technique for Diffusion Tensor MR Imaging of the Prostate Applied to Image-Guided Needle Interventions.

- **Lee, Tsz Kin**
  Development and Validation of Sexual Quality of Life Questionnaire for Men-Who-Have-Sex-with-Men with Prostate Cancer.

- **Loblaw, Andrew**
  Two Stereotactic Ablative Radiotherapy Treatments for Localized Prostate Cancer (2STAR).

- **Malone, Shawn**
  Validation of a Proteomic Signature Predicting Risk of Recurrence in Intermediate Risk Prostate Cancer.

- **Morton, Gerard**
  A Randomized Phase II Trial of High Dose-Rate Brachytherapy as Monotherapy in Low and Intermediate Risk Prostate Cancer.

- **Thoms, John**
  YM155, a Novel Small-Molecule Survivin Suppressant, Combined with Radiation Therapy in Prostate Cancer Cell Lines.

- **Tsang, Derek**
  Healthy Bones Study: An Intervention to Improve Healthy Bone Behaviours in Prostate Cancer Patients on Androgen Deprivation Therapy.

- **Vigneault, Eric**
  Validation of a French-Canadian Version of the Expanded Prostate Cancer Index Composite Instrument (EPIC).
2012 AWARD RECIPIENTS

- **Kwan, Winkle**
  Development and Validation of EPIC in Chinese and Punjabi.

- **Keyes, Mira**
  Radical Prostatectomy vs. Dose Escalation Radiation with LDR Brachytherapy for High Tier and High-Risk Prostate Cancer – A British Columbia Registration Trial.

- **Rodrigues, George**
  The Prostate Cancer Risk Stratification (ProCaRS) Project: Predicting Patient Outcomes Using Neural Networks and Clinical Nomograms.

- **Chung, Hans**
  Pilot Study of Focal Salvage HDR Prostate Brachytherapy.

- **Liu, Stanley**
  Targeting the Angiopoietin-1-Tie2 Axis to Improve the Therapeutic Ratio of Prostate Radiotherapy.

- **Dinniwell, Rob**
  A Double-Blind, Placebo-Controlled Two Way Cross Over Study of Topical Phenylephrine for Passive Fecal Incontinence Following Radiotherapy in Men with Prostate Cancer.

- **Tsakiridis, Theodoros**
  Circulating Pro-Inflammatory Cytokines (cPIC) as Biomarkers of Gastrointestinal and Genitourinary Toxicity in Patients Undergoing Pelvic Radiotherapy for Prostate Cancer.

- **Vigneault, Eric**
  Randomized Phase II Feasibility Trial of High Dose Rate Brachytherapy Plus External Beam Radiotherapy in Patients with Intermediate-Risk Prostate Cancer.

- **Bernad, Daniel**
  The Effects of Androgen Deprivation Therapy on Memory Processing and Neurogenesis in Patients with Non-Metastatic Prostate Cancer.
2011 AWARD RECIPIENTS

- **Amanie, John**
  A Feasibility Study to Evaluate Gold Nanoparticle Bound I-125 Choline as a Therapeutic Radiation Enhancer in the Prostate Cancer Animal Model.

- **Bowen, Julie**
  Health-Related Quality of Life Changes in North-Eastern Ontario Men Treated with Radiation Therapy for Prostate Cancer.

- **Chung, Hans**
  Conventional Frequency Spectroscopic Ultrasound Imaging as a Personalized Measure of Treatment Response to External-Beam Radiotherapy.

- **D’Alimonte, Laura**
  To Prep or Not to Prep: That is the Question.

- **Karshafian, Raffi**
  *In Vivo* Radiosensitization of Prostate Cancer using Ultrasound and Microbubble Therapy in Combination with Chemotherapy.

- **Ménard, Cynthia**
  Hypoxia Imaging in Patients with High-Risk Localized Prostate Cancer Using F18-FAZA PET and MRI.

- **Rodrigues, George**
  The Prostate Cancer Risk Stratification (ProCaRS) Project: Definition and Validation of a Five-Group Risk Stratification System.

- **Usmani, Nawaid**
  A Tissue Micro-Array to Characterize the ERG Gene Rearrangement in Patients Treated with Prostate Brachytherapy.

- **Vigneault, Eric**
  Impact of Treatment Delay on PSA Failure in Patients Treated with Brachytherapy for Prostate Cancer.
2010 AWARD RECIPIENTS

- **Sexton, Tracy**
  Significance of Circulating Tumor Cells in Prostate Cancer Patients Receiving Adjuvant or Salvage Radiotherapy.

- **Quon, Harvey**

- **Vesprini, Danny**
  Can Genetic Variants Predict Aggressive Disease in Prostate Cancer Patients Managed with Active Surveillance?

- **Niazi, Mohammad Tamin**
  The Predictive Value of Coexisting TMPRSS2:ERG Gene Fusion and PTEN Deletion in High Risk Prostate Cancer Patients Treated with Radical Radiation Therapy.

- **Pickles, Tom**
  Testosterone Micro Surge on LHRH Agonists: Frequency and Relevance.
2009 AWARD RECIPIENTS

- **Bristow, Robert**
  A Pilot Study of Gamma H2AX DNA Repair Foci Kinetics in Peripheral Blood Lymphocytes During Prostate Cancer Radiotherapy.

- **Cheung, Patrick**
  Stereotactic Body Radiotherapy (SBRT) Boost to Mimic High-Dose Rate (HDR) Brachytherapy Boost for Intermediate Risk Prostate Cancer: A Phase I Study.

- **Chung, Hans**
  Correlative Study of Ultrasound-Based Elastography Imaging with Whole-Mount Histopathology in Men with Prostate Cancer.

- **Keyes, Mira**
  Variants in DNA Repair Genes Associated with Late Side-Effects in Prostate Brachytherapy Patients.

- **Roa, Wilson**
  Pre-Clinical Assessment of Nanoparticle Enhanced Radiotherapy for Prostate Cancer.

- **Tyldesley, Scott**
  The Need for and Utilization of Radiotherapy After Radical Prostatectomy for Prostate Cancer Patients in British Columbia.
2008

AWARD RECIPIENTS

- **Bayley, Andrew**
  Automatic Segmentation of Target Organs and Normal Tissues for Prostate Cancer.

- **Brundage, Mike**
  The Value of Quality of Life Information to Hormone-Refractory Metastatic Prostate Cancer Patients Facing Treatment Decisions.

- **Chopra, Supriya**
  Multiparametric MRI Based Evaluation of Hypoxia in Men with Prostate Cancer.

- **Donath, David**
  The Effectiveness of Intraoperative Post-Implant Dosimetry Using US-CBCT (Ultrasound-Cone Beam CT) Co-Registration in Low-Dose Rate Prostate Brachytherapy.

- **Lee, Justin**
  Enhancement of Prostate Cancer Responses to Radiation Utilizing Ultrasound-Activated Microbubbles.

- **Loblaw, Andrew**
  Hypofractionated Accelerated Post-Operative Radiotherapy for Prostate Cancer.

- **Mok, Gary**
  Evaluation of a 12-Week Comprehensive Exercise Program for High-Risk Prostate Cancer Patients Treated with Adjuvant Androgen Deprivation Therapy.

- **Niazi, Mohammad Tamin**
  A Prospective Study Assessing the Predictive Value of TMPRSS2-ERG Gene Fusion in Prostate Cancer Patients Treated With Radical Radiation Therapy.
2007 AWARD RECIPIENTS

- **Blood, Paul**
  A Pilot Project to Establish the Feasibility of a Population-Based Prostate Cancer Outcomes Unit with Risk Factor, Diagnosis, Treatment, and Outcome Data Linked to a Tumor Tissue Repository.

- **Cury, Fabio**
  3D Contrast-Enhanced Functional Ultrasound for Organ Delineation in Patients Undergoing External Beam Radiation Therapy for Localized Prostate Cancer.

- **Holden, Lori**
  Bladder Ultrasound Radiotherapy Study (BURST).

- **Kerba, Marc**
  How Spatial Accessibility to Radiation Oncology Services in Prostate Cancer Patients Determines Initial Treatment Choice.

- **Keyes, Mira**
  ATM and Other Genetic Mutations as Predictive Factors for Prostate Brachytherapy Related Rate Radiation Toxicity.

- **Lim, Tee**
  A Comparison of Megavoltage Cone Beam Digital Tomosynthesis and Portal Imaging of Implanted Markers in Target Volume Localization for Patients Undergoing Prostate External Beam Radiotherapy.

- **Ménard, Cynthia**
  Advanced Image Guidance Will Improve Toxicity Outcomes for Patients with Prostate Cancer: A Prospective Study.

- **Roa, Wilson**
  Translational Application of Nanotechnology in Prostate Cancer Therapeutics.

- **Rosewell, Tara**
  A Prospective Quantification of Patient-Reported Adverse Events Following Marker Insertion and Therapist Matching Variability with an Established Intra-Prostatic Marker Program.

- **Szumacher, Ewa**
  The Effectiveness of an Educational Intervention on the Congruence of Prostate and Rectal Contouring as Compared to a Gold Standard in Planning for Three-Dimensional Radiotherapy for Prostate Cancer (3D-CRT).

- **Tsakiridis, Theodoros**
  Investigation of Resveratrol as a Radiation Sensitizer in Prostate Cancer.
2006 AWARD RECIPIENTS

- **Bayley, Andrew**
  A Phase I-II Study of Dose Escalated Intensity Modulated Radiation Therapy for the Treatment of Pelvic Lymph Nodes and Primary Tumour in Patients with Carcinoma of the Prostate.

- **Chow, Edward**
  Effect of Radiation for Bone Metastases in Patients with Prostate Cancer on Urinary Markers of Osteoclast Activity.

- **Cury, Fabio**
  Adaptive Radiotherapy for Prostate Cancer – Integration of a Novel Three-Dimensional Ultrasound Technique and Monte Carlo Dose Calculation.

- **Czarnota, Greg**
  New Conventional Frequency Functional Ultrasound Transducer for Imaging of Prostate Cancer Extent and Response in Human Cancer Patients.

- **Halperin, Ross**
  Choices After Consultation: Active Surveillance vs. Immediate Treatment for Localized Prostate Cancer.

- **Lambert, Carole**
  Étude de phase I-II d’un régime hypofractionné de radiothérapie de 45 Gy en 9 fractions sur 9 semaines pour le traitement du cancer de la prostate de faible risque (HYPO-1).

- **Martin, Jarad**
  A Pilot Project in Adaptive Radiotherapy for Localized Prostate Cancer.

- **Pai, Howard**
  Characterization of Abscopal Effect and Tumour-Mediated Immune Response to Hormone Therapy and Brachytherapy Using the Shionogi Mouse Model.

- **Rosewall, Tara**
  The Impact of Prostate Dimensions on Toxicity After High Dose Conformal External Beam Radiotherapy for Prostate Cancer – Does Size Matter?

- **Yee, Don**
  High-Field (3 Tesla) Magnetic Resonance Spectroscopy Imaging for Follow-Up of Prostate Cancer Post Permanent Iodine-125 Brachytherapy Implantation.
2005 - 2001

ABBVIE-CARO URO-ONCOLOGIC RADIATION AWARDS

AWARD RECIPIENTS

Czarnota, Greg
Functional Ultrasound Imaging of Prostate Cancer Cell Death in Response to Radiotherapy.

Mahmud, Aamer
PSA Doubling Time as a Surrogate for Prostate Cancer-Specific Mortality in a Population-Based Cohort of Men Treated with Curative Intent.

Ménard, Cynthia
Development of a Prostate Deformation Model to Enable Accurate Registration of Endorectal Coil Magnetic Resonance Images (ERC-MRI) to Reference Treatment Planning CT Images.

Morris, James
Canadian Prostate Brachytherapy Evidence Base (CANBRACE): A Proposal to Increase the Value of N by Merging Five Electronic Databases from Brachytherapy Centres in British Columbia, Ontario and Quebec.

Pearse, Maria

Rodrigues, George
Intensity Modulated Radiotherapy for Pelvic Nodal Irradiation in Prostate Cancer: A Planning Comparison of Conformal Targeting Versus Conformal Avoidance.

Rosewall, Tara
Using Trans-Abdominal Ultrasound to Investigate the Effect of Daily Variations in Bladder Volume on Prostate Displacements During the Course of Intensity Modulated Radiotherapy for Prostate Cancer.

Wilke, Derek
A Prospective Study of Long-Term Androgen Deprivation and Health Related Quality of Life in Patients with Non-Metastatic Prostate Cancer Receiving Radiotherapy.

Wiltshire, Kirsty
A Single Cohort Study to Develop a Technique for External Beam Radiotherapy After Radical Prostatectomy Based on MRI-Delineation of the Clinical Target Volume.
2004 AWARD RECIPIENTS

Blood, Paul
What is the Risk of Hip Fracture in Men Treated with External Beam Radiation for Prostate Cancer? A Dose/Risk Analysis Utilizing Population Health Data.

Cheung, Patrick
IMRT for Elective Pelvic Nodal Irradiation and Hypofractionated Concomitant Boost in Localized Prostate Cancer.

Cheung, Peter
Evaluation of Rectal and Bladder Normal Tissue Complication Probability After Escalated Dose External Beam Radiotherapy for Prostate Cancer.

Dayes, Ian
A Predictive Assay Evaluating Radiation Sensitivity in Patients with Carcinoma of the Prostate.

Dinniwell, Robert
MR Imaging with Ultra-Small Superparamagnetic Iron Oxide for Pelvic Lymph Node Target Definition in the Treatment of High Risk Prostate Cancer.

Morton, Gerard
A Phase I-II Study of Single Fraction High Dose Rate (HDR) Brachytherapy and Hypofractionated External Beam Radiotherapy in Intermediate Risk Carcinoma of the Prostate.

Truong, Pauline
A Pilot Study to Evaluate the Feasibility of Self-Directed Aerobic Exercise and its Effect on Fatigue in Prostate Cancer Patients Undergoing Radical External Beam Radiotherapy.

Vigneault, Eric
HDR Image-Guided Regional Dose Escalation for Locally Advanced Prostate Cancer with the Use of MRS.

Wilke, Derek
Dosimetric Feasibility of Multiphase Versus a Simultaneous Integrated Boost Technique for Hypofractionated, Dose Escalated Prostate Radiotherapy.
2003 AWARD RECIPIENTS

- **Bayley, Andrew**
  A Randomized Study on Inter- and Intra-Fraction Organ Motion Using Two Different Immobilization Devices for Conformal Radiotherapy in Prostate Cancer.

- **Berthelet, Eric**
  A Randomized Trial of Short Versus Long Acting LHRH Agonist Preparation with Transperineal Implantation of the Prostate.

- **Catton, Charles**
  A Cohort Comparison of Daily Target Organ Image Matching and Correction Using Implanted Fiducial Markers or Flat Plate Cone Beam Computerized Tomography (CT) for Patients Undergoing Conformal Radiotherapy for Localized Prostate Cancer.

- **D’Souza, David**
  Intraoperative Dosimetry of 125I Prostate Implants Using Radiographic Images – A Feasibility Study.

- **Morton, Gerard**
  A Phase II Study of High Dose Rate (HDR) Brachytherapy Boost in Combination with External Beam Radiotherapy in Men with Intermediate Risk Carcinoma of the Prostate.

- **Nichol, Alan**
  A Cohort Study of a Bowel Regimen to Reduce Intra-Fraction Prostate Motion.

- **Poon, Ian**
  Precision (IMRT) Radiotherapy in Prostate Cancer.

- **Vigneault, Eric**
  Evaluation of the Error Chain and the Dosimetric Impact of Performing Online Corrections in Radiation Therapy Prostate Cancer.

- **Wilke, Derek**
  Assessment and Alleviating Cognitive Changes in Prostate Cancer Patients on Androgen Deprivation Therapy.

- **Wu, Jackson**
  Bladder Filling and Prostate Motion During Conformal Radiotherapy for Prostate Cancer: A Randomized Study of Empty vs. Full Bladder Patient Set-Up Instructions.
2002 AWARD RECIPIENTS

- **Bristow, Rob**
Pilot Studies into the Anti-Apoptotic Protein, Survivin, as a Potential Target in Prostate Cancer Radiotherapy.

- **Cheung, Patrick**
Accelerated Hypofractionated Boost for Prostate Carcinoma Using Intensity Modulated Radiotherapy with On-Line Targeting of the Prostate Gland.

- **Crook, Juanita**
To Investigate the Role of MR Spectroscopy in Prostate Brachytherapy in Terms of Optimization of Implant Planning and Follow-Up of Prostate Cancer Resolution Over Time.

- **Lock, Michael**
A Phase III Evaluation of Gabapentin for the Treatment of Hot Flushes in Prostate Cancer Patients Undergoing Androgen Deprivation Therapy.

- **Morton, Gerard**
An Assessment of the Effect of High Dose-Rate Brachytherapy on Prostate Cancer Oxygenation.

- **Rodrigues, George**
A Comparative Evaluation of Prostate Treatment Plans and Dosimetry for Helical Tomography (HT) and Intensity Modulated Radiation Therapy (IMRT).

- **Vigneault, Eric**
Online Image Guided IMRT Hypofractionated RT for the Treatment of Localized Prostate Cancer.
AWARD RECIPIENTS

Bauman, Glen
An Evaluation of Simplified Intensity Modulated Arc Therapy (SIMAT) for Dose Escalation in Radiation Therapy for Localized Prostate Cancer.

Catton, Charles
A Phase I-II Prospective Trial of Conformal Hypofractionated Intensity Modulated Radiotherapy (IMRT) for Clinical Stage T1, T2N0M0 Adenocarcinoma of the Prostate.

Laverdière, Jacques
Evaluation of the Beneficial Effect of Androgen Blockade in Association with Radiation Therapy in T2-T3 Prostate Cancer – An Analysis of Two Randomized Studies.

Malone, Shawn
Evaluation of Tumour Hypoxia in Prostate Cancer Using Microvessel Density, the Hypoxia Marker Pimonidazole and MRI Perfusion.

Roberge, David
Computed Tomography Assessment of Prostate Motion Following Urethrography.

Vigneault, Eric
Online Image Guided External Beam Therapy for the Treatment of Prostate Cancer: A Proof of Principle Using EPID.

Wilke, Derek
A Prospective Study of Long Term Androgen Deprivation and Health-Related Quality of Life in Patients with Non-Metastatic Prostate Cancer Receiving Radiotherapy.