VANCOUVER PROSTATE CENTRE

A UBC & VGH Centre of Excellence

Mariia Radaeva

PhD candidate at Dr. Artem Cherkasov's lab

Prostate cancer translational research centre

- Located in Vancouver, British Columbia, Canada
- The largest comprehensive research and treatment clinic for prostate cancer in Canada
- Part of the University of British Columbia

https://www.prostatec

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Academic Research

Over 15 research laboratories

- Molecular pathology
- Functional genomics
- Drug discovery
- Mechanisms of treatment resistance
- Development of diagnostic tools

https://www.prostatecer

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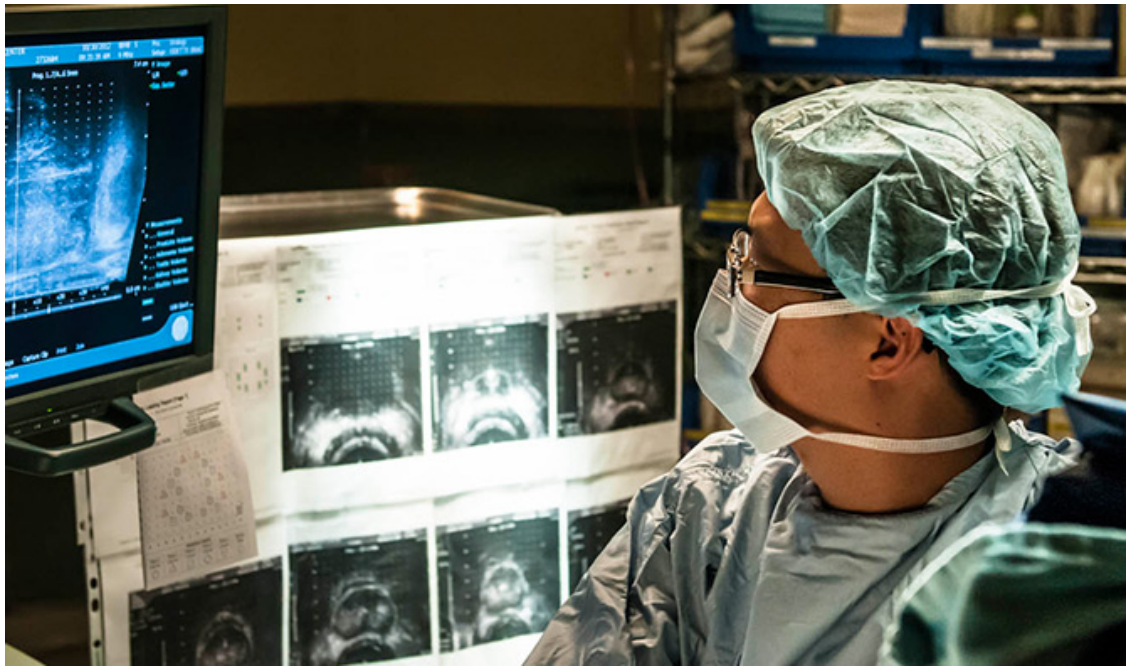
Clinical Care

- Ongoing clinical trials
- 16 research clinicians and 64 trainees
- My Precision Oncology Program
- Prostate Cancer Supportive Care Program



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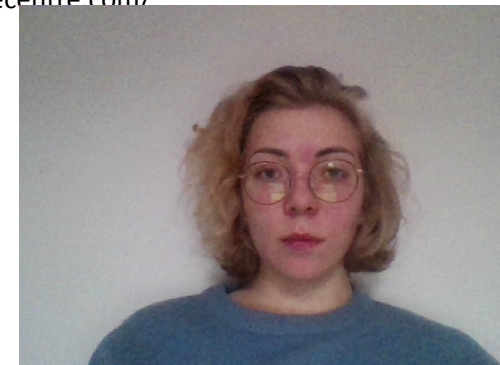

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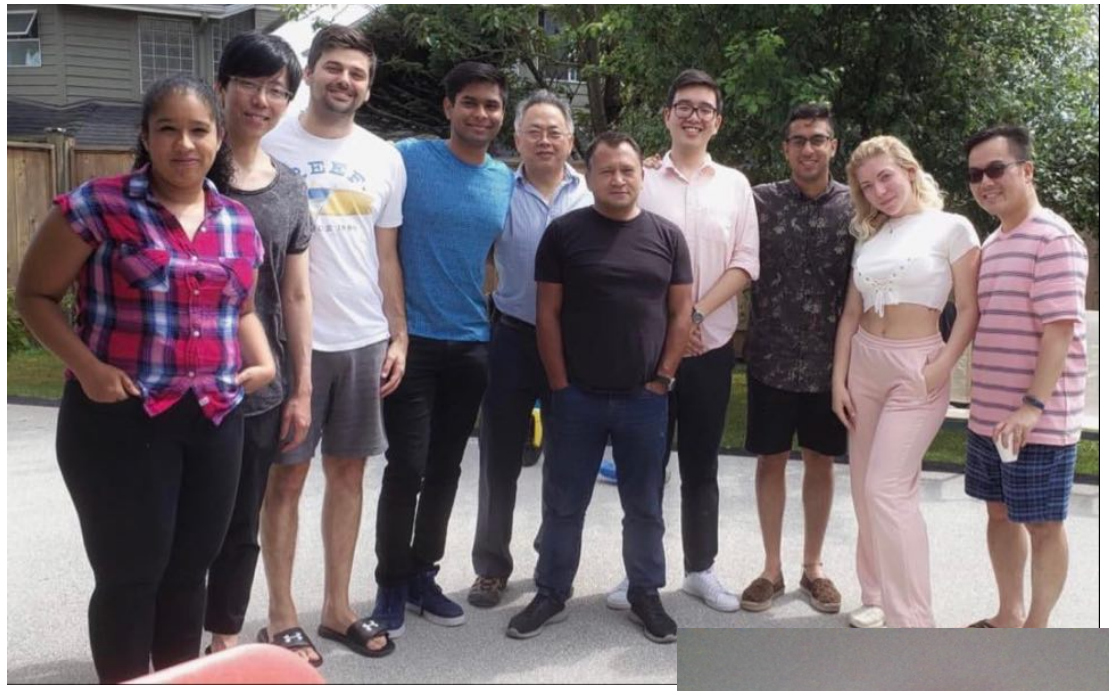
Precision Cancer Drug Design Unit

Led by Dr. Artem Cherkasov

9 computational and 3 wet lab scientists

- Computer-aided drug discovery (CADD)
- Structure-activity modelling
- Development of novel CADD tools and applications



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Our projects

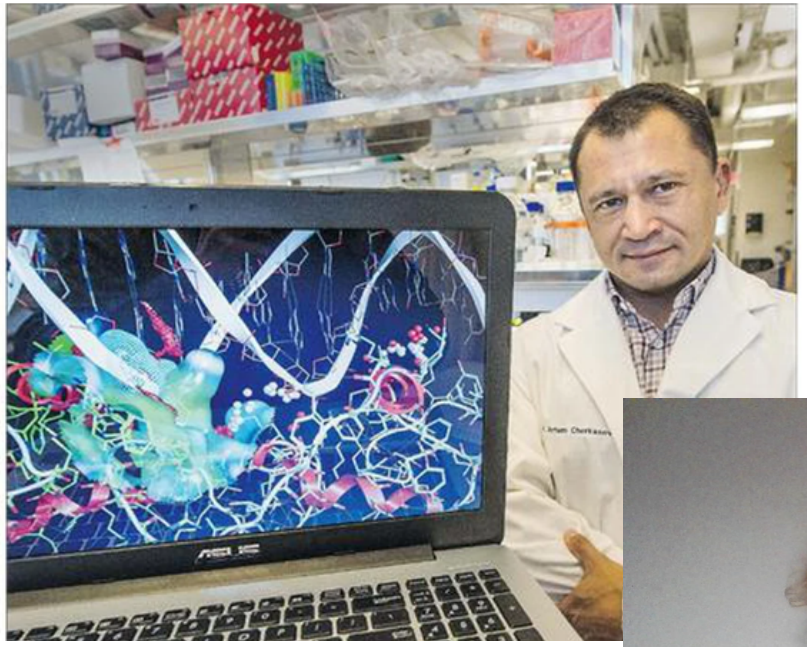
- **Androgen Receptor (AR) inhibitor** development
- Employed structure-guided *in silico* design followed by a rigorous wet lab evaluation
- First-in-class compound that targets a novel site on the surface of AR

VANCOUVER SUN

Massive cancer-drug deal one of UBC's biggest to date

A promising new treatment for drug-resistant prostate cancer developed by scientists at the University of B.C. has been licensed by the pharmaceutical giant Roche for more than $140 million, the university's richest intellectual property deal in its history.

Randy Shore
Dec 16, 2015 • December 16, 2015 • 3 minute read



https://vancouversun.com/

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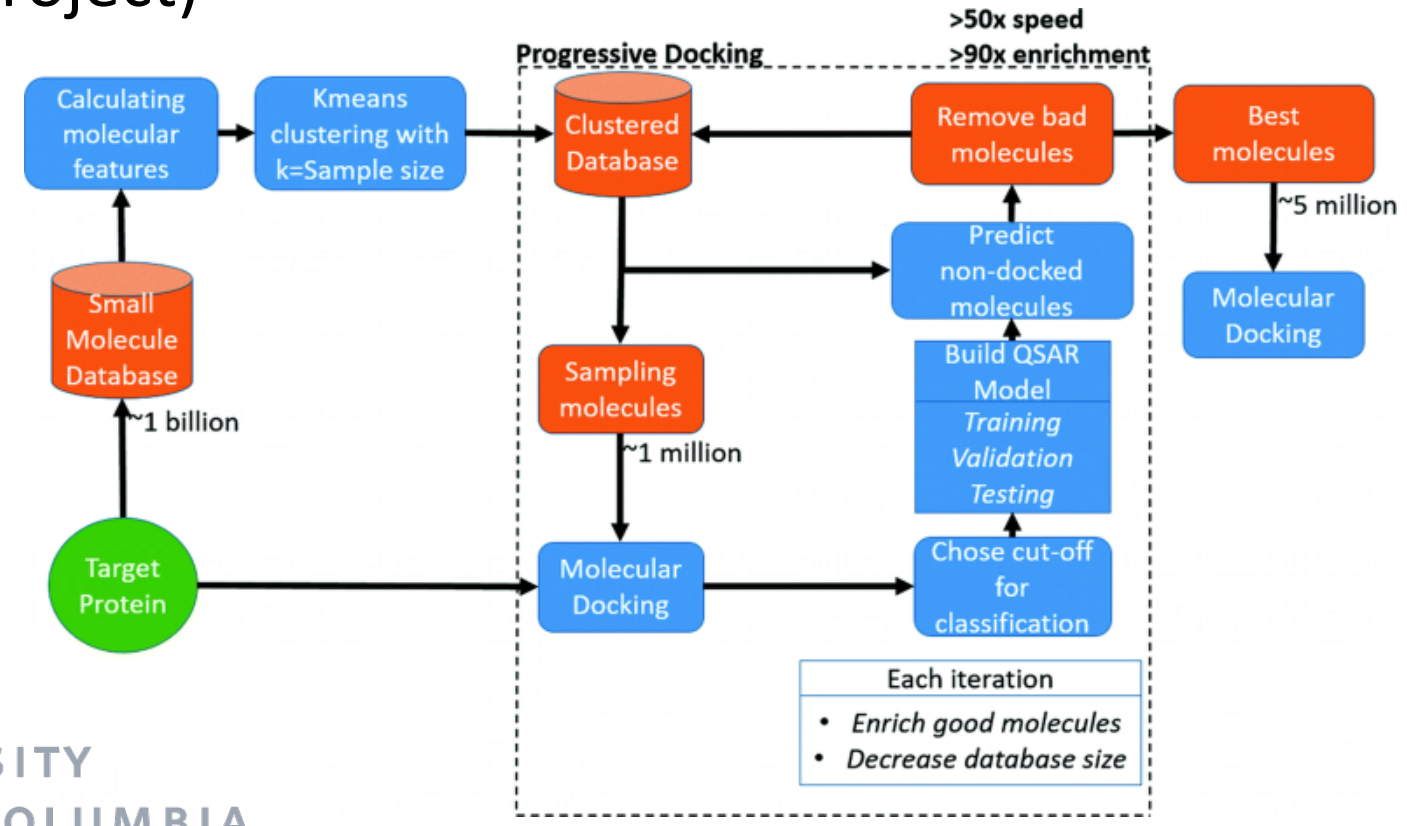
Our projects

- **Deep Docking** algorithms that allowed us to screen 40 billion compounds (COVID-19 project)



Proposed project

- Use **Deep Docking** to screen for **novel inhibitors of the Androgen Receptor**
- Perform extensive pharmacological evaluation of the identified compounds

Expected results:

- New chemical scaffolds
- Evaluated MedChem and QSAR models of the lead series

Thank you
For your attention!

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