



HARRY PERKINS INSTITUTE  
OF MEDICAL RESEARCH



## PERKINS Seminar Series

[www.perkins.org.au](http://www.perkins.org.au)

THURSDAY 15 FEBRUARY



### Professor Shyam Prabhakar

Associate Director, Integrative Genomics and GIS Lead  
Computational and Systems Biology, Genome Institute of Singapore

**"Single-cell tumor transcriptomics: algorithms and applications"**

Shyam Prabhakar obtained a B.Tech in Electronics and Communications Engineering from the Indian Institute of Technology, Madras and a PhD in Applied Physics from Stanford University. He was sole recipient of the 2001 American Physical Society PhD thesis award for Beam Physics. Following postdoctoral fellowships at Stanford (Samuel Karlin)

and the Lawrence Berkeley National Laboratory (Eddy Rubin), he joined the Genome Institute of Singapore as an independent investigator. His lab uses single-cell RNA-seq, cohort-scale ChIP-seq and other high-throughput assays, together with algorithm development, to uncover markers and mechanisms of human diseases. Major achievements include the first single-cell transcriptomic analysis of colorectal cancer, the first large-scale screen for histone acetylation QTLs, the first histone acetylome-wide association study of a psychiatric disorder and the first general-purpose peak detection algorithm for omics profiles. He is currently Associate Director, Integrative Genomics and GIS lead for the centre for Big Data and Integrative Genomics (c-BIG), a multi-institute consortium tasked with building the genome analytics infrastructure for Singapore's National Precision Medicine Program.

12:00noon till 1:00pm

For more information, please contact Professor Alistair Forrest

E: [alistair.forrest@perkins.uwa.edu.au](mailto:alistair.forrest@perkins.uwa.edu.au)

**MCCUSKER AUDITORIUM, HARRY PERKINS INSTITUTE OF MEDICAL RESEARCH, NORTH CAMPUS**

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4

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Aberdare Rd

To Perth

A

# Your Guide to the



## HARRY PERKINS INSTITUTE OF MEDICAL RESEARCH

B

C

D

E

F

Complete St

Verdun St

Kingston St

Child Care

Under Construction

Under Construction

Lions Eye Inst

Staff Car Park 4

HARRY PERKINS INSTITUTE

PathWest

Hollywood Private Hospital

Visitor Car Park 3A

Western Power Sub Station

Staff Car Park 3

Car Park 7B

Visitor Car Park 7

8.00am - 4.00pm

Staff Car Park 7A

Staff Car Park 6

UWA Car Park

X

Emergency Helipad

Visitor Car Park 1

Visitor and Staff Multi Deck Car Park (Entry off Winthrop Ave Only)

To Harry Perkins

Hospital Ave

Main Entrance

Main Entrance & Admissions

EMERGENCY

Multi Deck Car Park Phase 2

Winthrop Ave

Kings Park

Under Construction (New Children's Hospital)

To Stirling Hwy



Hampden Rd

Monash Ave