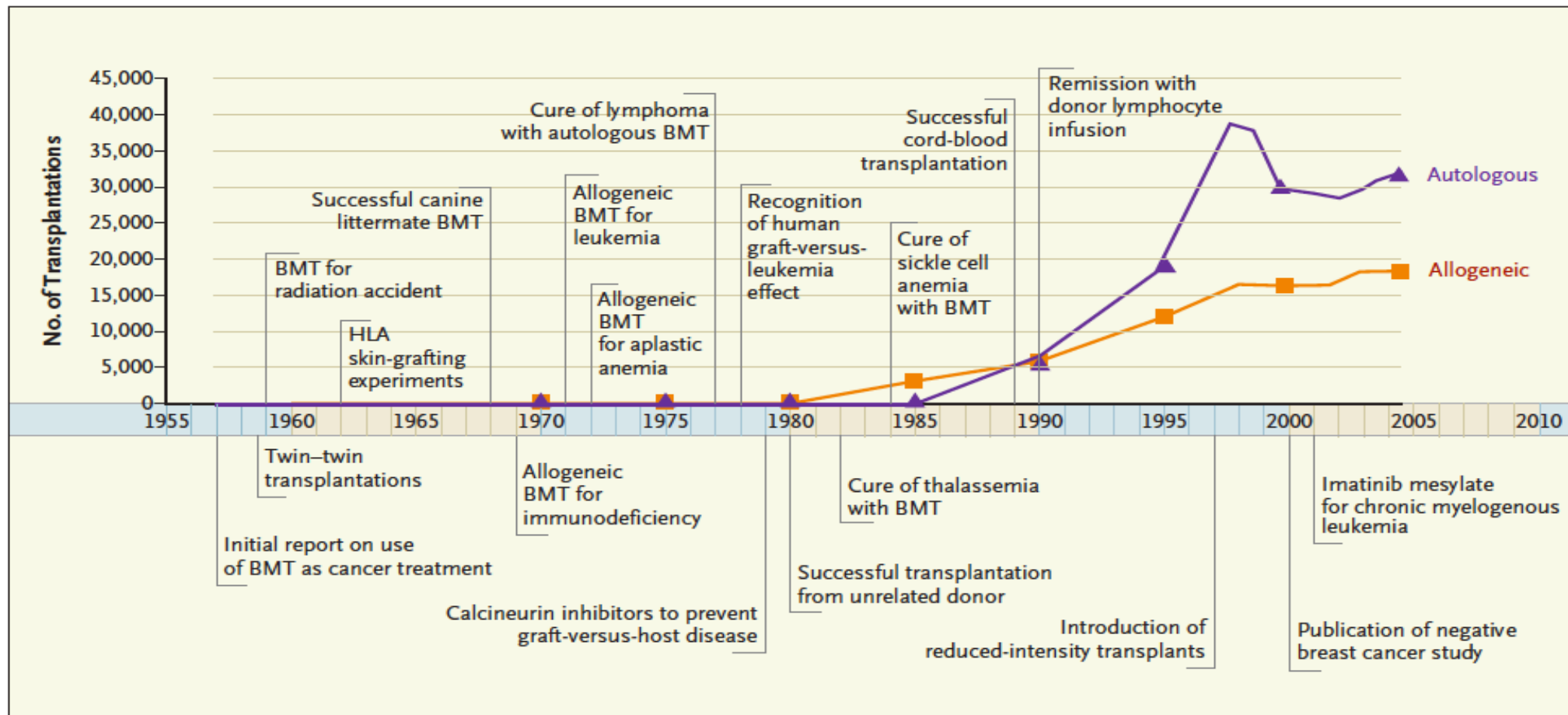


Cellular Therapies Overview

Associate Professor John Moore
Professor of Medicine (Conjoint UNSW)
Chong Family Director of Cellular Therapies
Haematology Department
St Vincent's Hospital



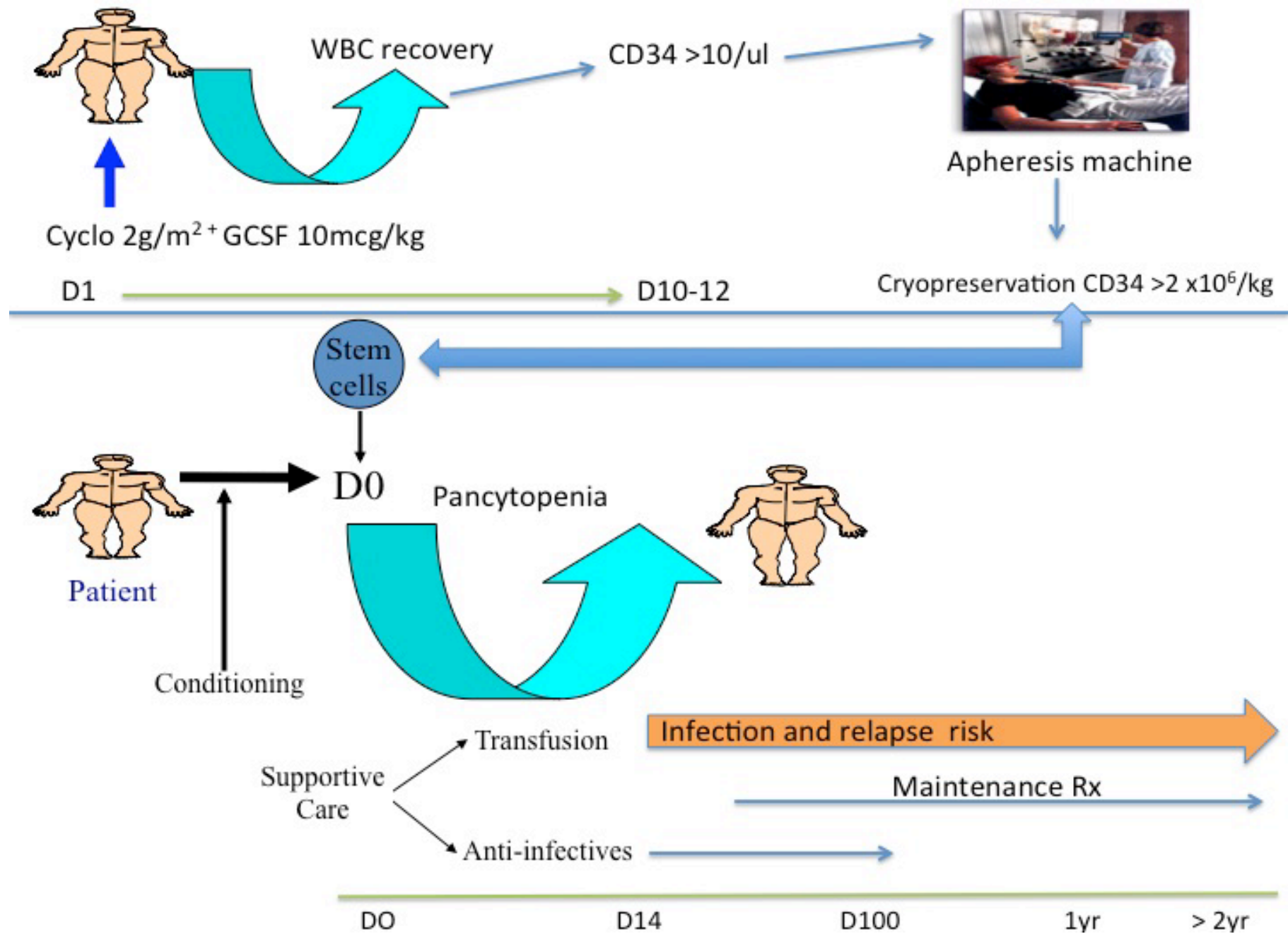
History of HSCT/BMT

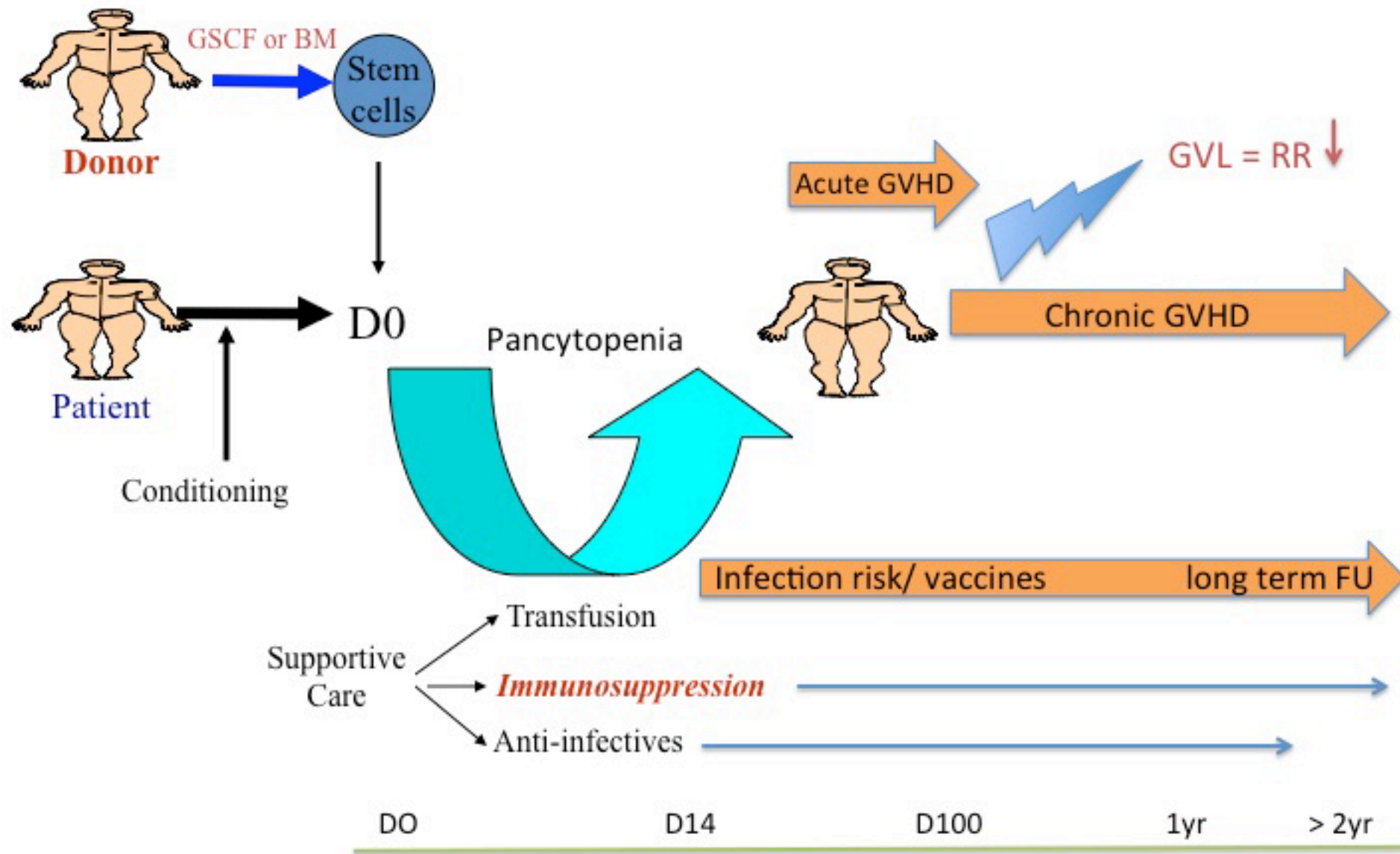


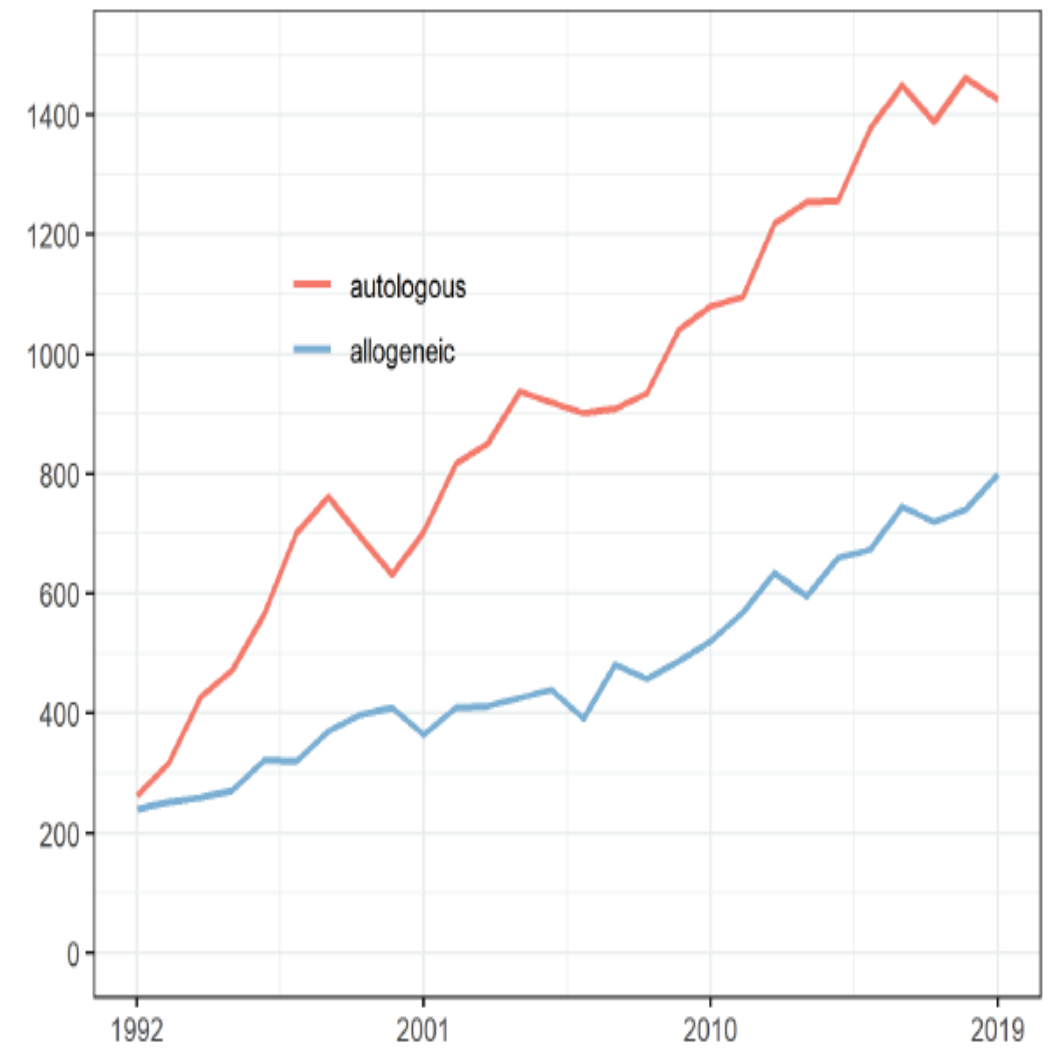
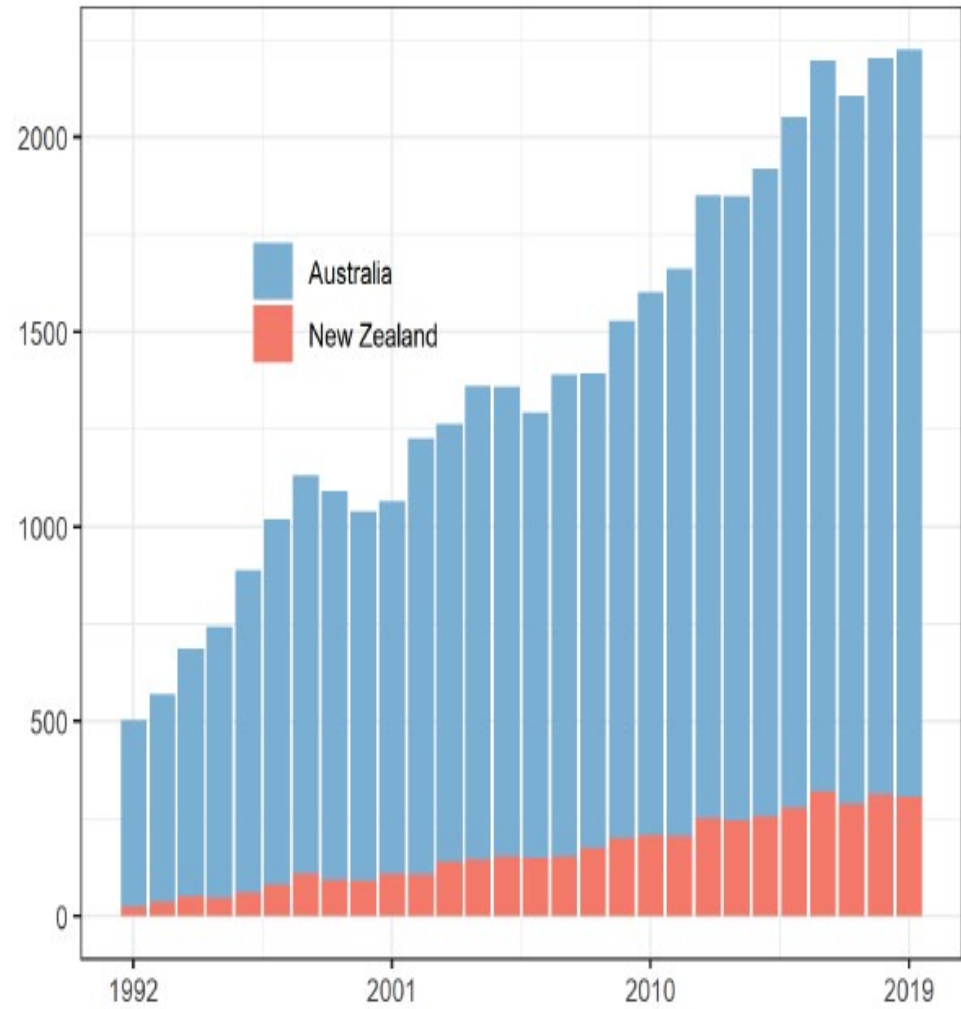
- Cellular Therapies
- CAR-T cells
- Bispecific Ab
- Autoimmune disease
- Immunodeficiencies

Timeline Showing Numbers of Bone Marrow Transplantations and Advances in the Field, 1957–2006.

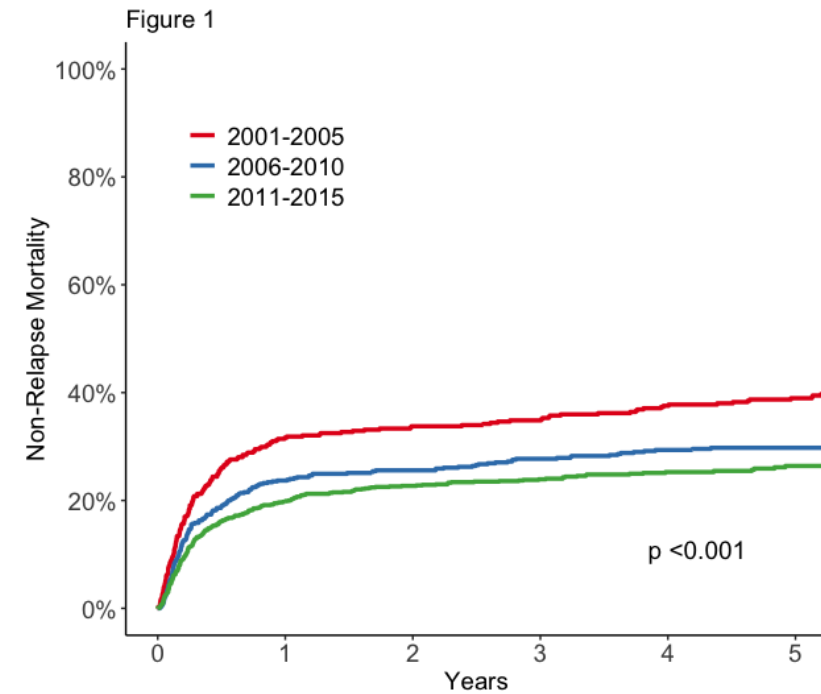
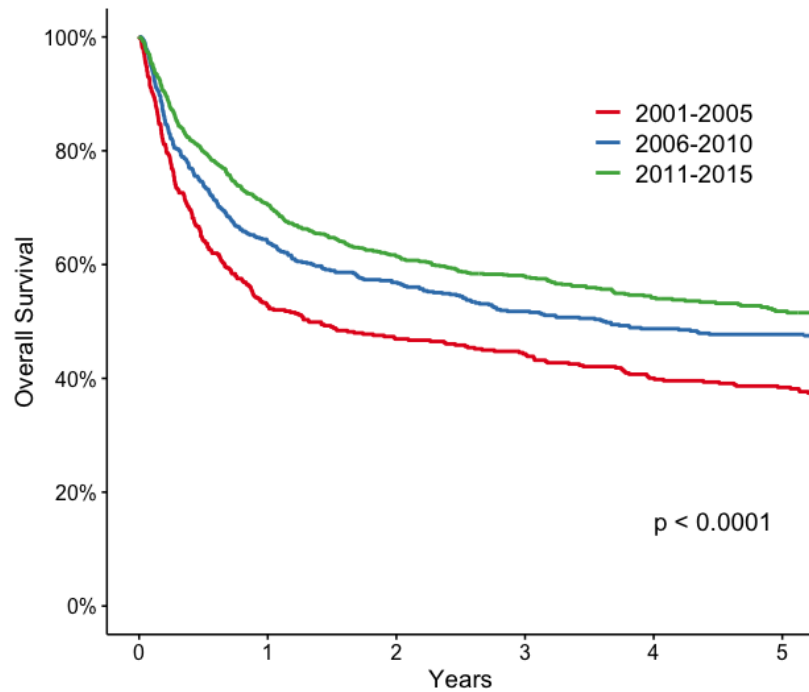
BMT denotes bone marrow transplantation, and HLA human leukocyte antigen. Data are from the Center for International Blood and Marrow Transplant Research.



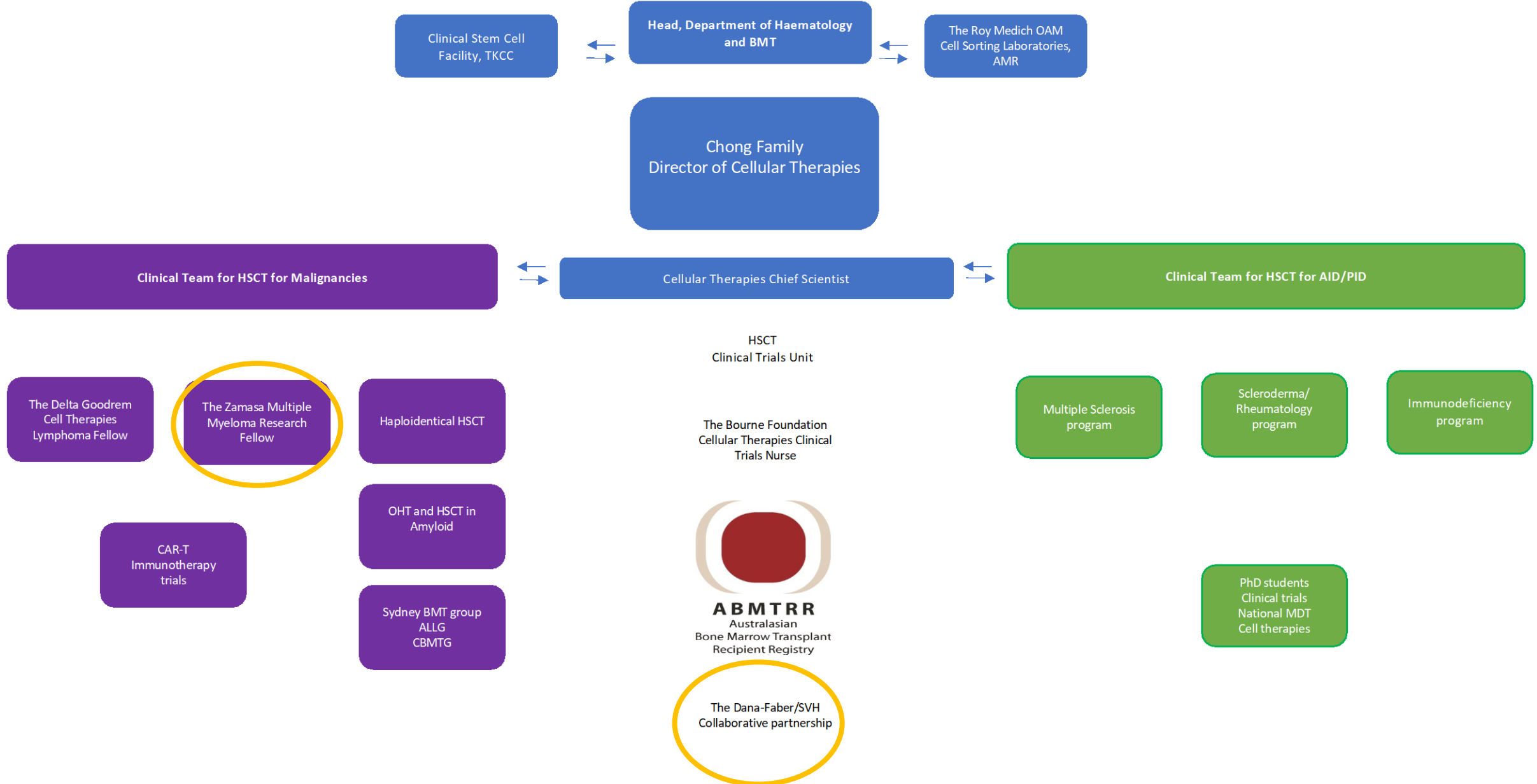




Allogeneic HSCT is getting safer and more successful



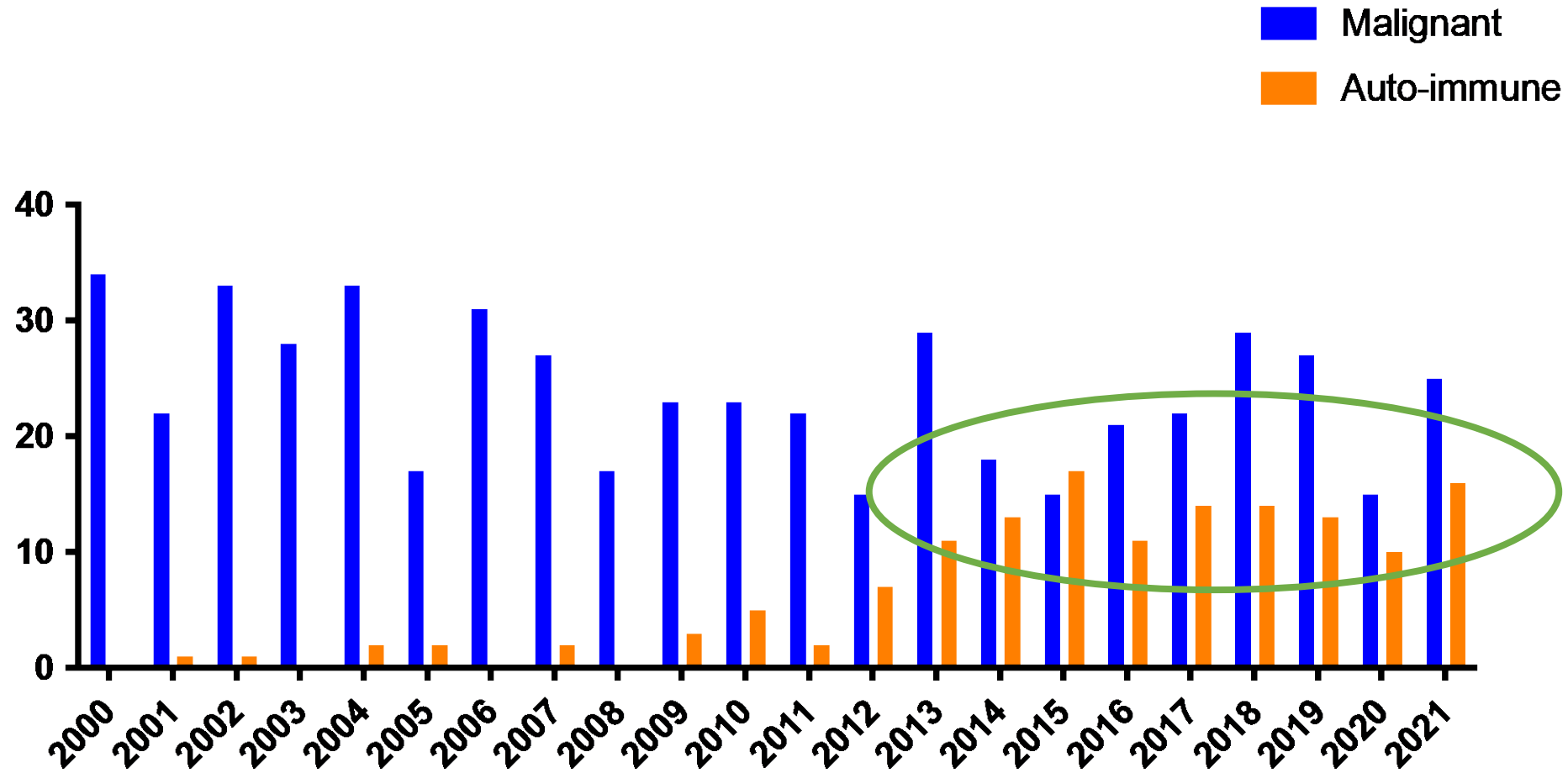
Cellular Therapies Program Structure



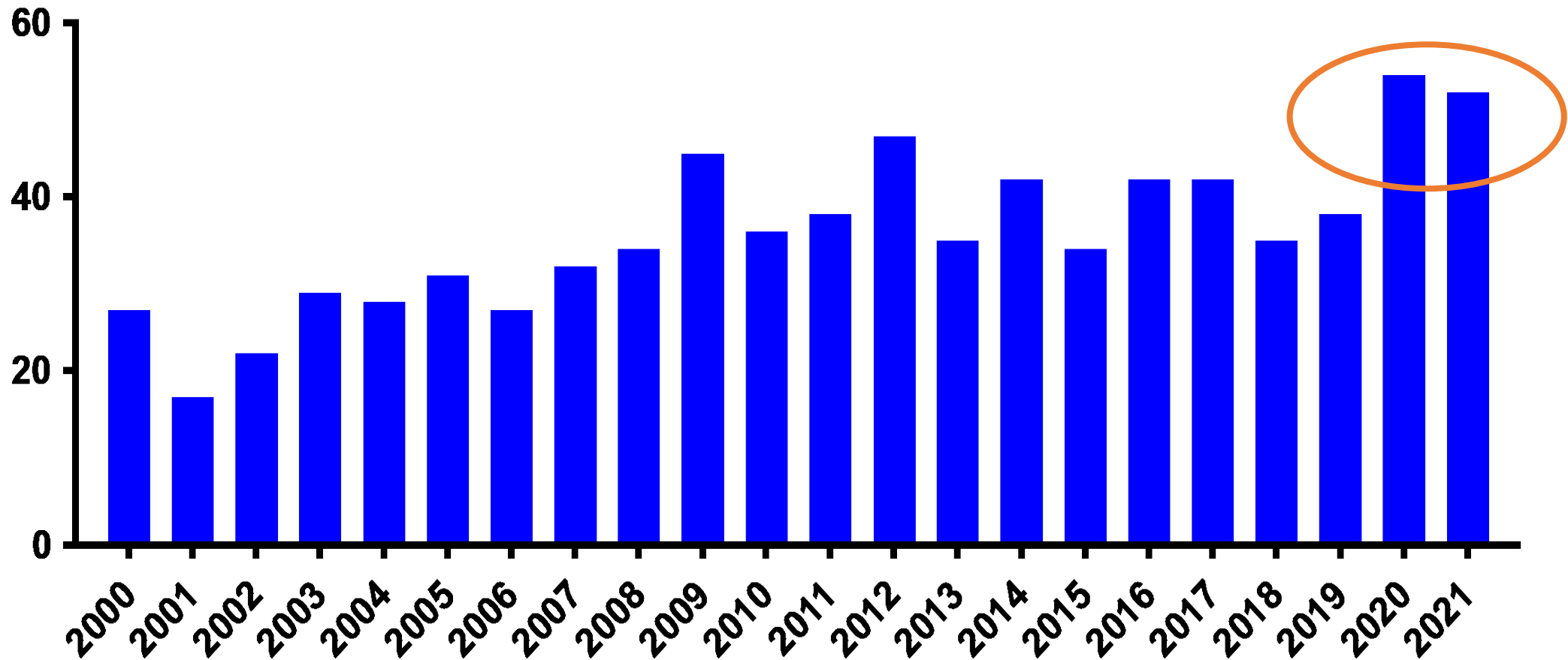
St Vincent's Hospital HSCT unit

- First allogeneic stem cell transplant in Australia in 1975
- Second largest allogeneic HSCT unit in NSW (after Westmead)
- Referral centre for allogeneic HSCT from: POWH, St. George, Sutherland and Wollongong hospitals. Riverina, Port Macquarie and Moree/Narrabri regions in rural NSW.
- NSW state-wide service provider for HSCT (autologous) for systemic sclerosis
 - Likely state-wide service provider for HSCT in MS (possibly 2 years time depending on trials)
 - One of the largest HSCT services for autoimmune diseases in the world.
- House and manage the ABMTRR on level 6 KCC
- Large BMT outreach program – Sri Lanka, Myanmar, Phillipines (lead by Prof. David Ma)
- Current President of ANZTCT is A/Prof Nada Hamad
- Committee for APBMT – David Ma and John Moore
- Lead investigators on ANZHIT 1 and 2 – haploidentical (half donor) HSCT
- Representatives on NSW Health committees:
 - BMT network (NH, SM)
 - Cellular therapy advisory group (JM)
 - Cell and Gene Therapy advisory group (JM)

Autologous HSCT at St Vincent's Hospital



Allogeneic HSCT at St Vincent's



Achievements in 2021

- Academic output

- 15 publications
- 11 presentations at national and international meetings
- Over \$250,000 in funding for research
- Establishment of the Symond Family Dana-Farber Institute Collaboration
- Five new clinical trial protocols submitted to the ethics committee providing patients with access to Cellular Therapy.

- Personnel

- Two PhD students graduated
- The Bourne Foundation Clinical trial/MDT co-Ordinator appointed (Patricia Plenge)
- Dr Georgia McCaughan appointed as a Staff Specialist in the Haematology Department
- One overseas Fellow from New Zealand - Dr Zoe Dyer

Acknowledgements

- Patients and their families.
- Haematology Department, SVH.
- Nursing, scientific and medical staff of Xavier 9 South. Callie Noakes, NUM
- Helen Englert, Ross Penglase, Laila Girgis
- Helen Tao, BMT Laboratory
- Nabin Karki, Annabel Horne CNS, BMT
- Patricia Plenge, Louise Christophersen, Clinical trials.
- Neurology Department, SVH – Ian Sutton, Jennifer Massey.
- Referring neurologists/rheumatologists.
- Shanthini Naidoo, Susan Williams and Victoria Stoddard

Funding support – Thank You

- [Zamasa Foundation](#)
- Dr John and Mrs Anne Chong
- James and Amelia Symond
- The Delta Goodrem Foundation
- Reset Australia/Kiriwina Investment Co.
- Bourne Foundation
- MS Australia
- Maple-Brown Family Foundation
- John Kirkpatrick Family Foundation
- Medich Family Foundation
- Donors to St Vincent's Curran Foundation
- SVH Haematology Research Fund
- St. Vincent's Clinic Foundation
- NHMRC
- NSW Health
- Arthritis Australia

The people who did all the work.....



Georgia McCaughan



Barbara Withers



