

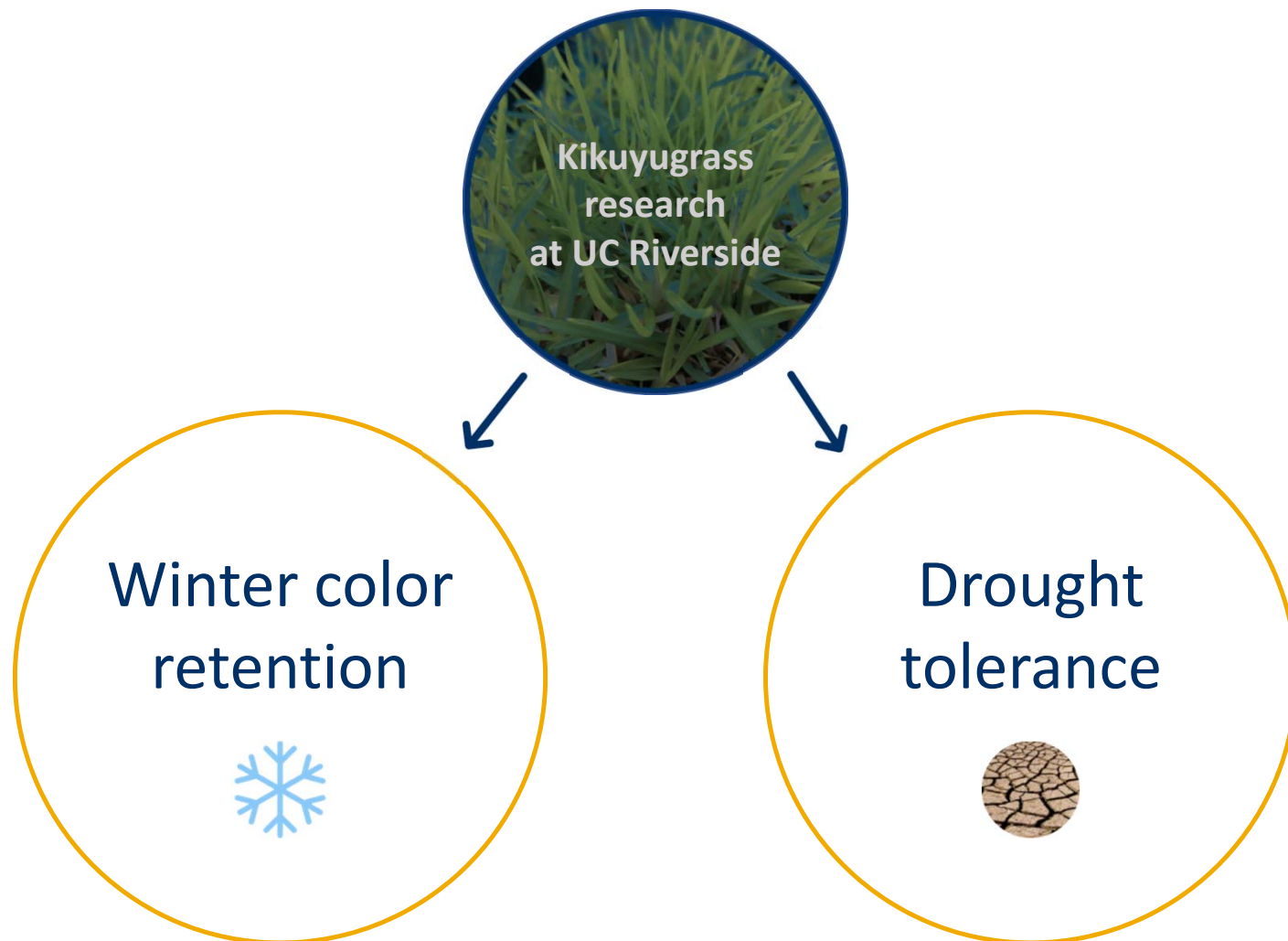
A circular image with a dark blue border showing a close-up of Kikuyugrass (Cynodon dactylon) with its characteristic long, narrow, green leaves.

Kikuyugrass research at UC Riverside

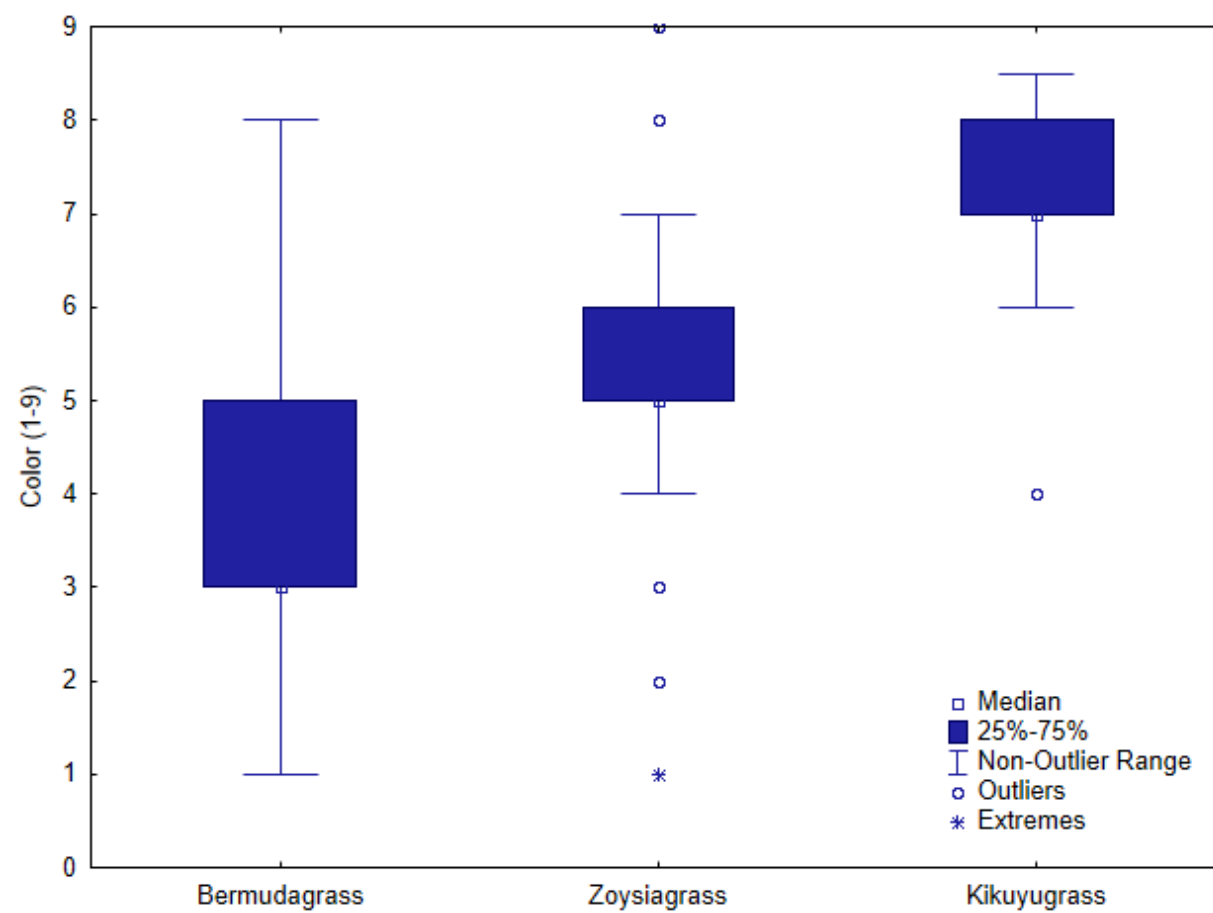
Adam Łukaszewski
Professor of Genetics

Marta Pudzianowska
Postdoctoral scholar

Jim Baird
Turfgrass Specialist

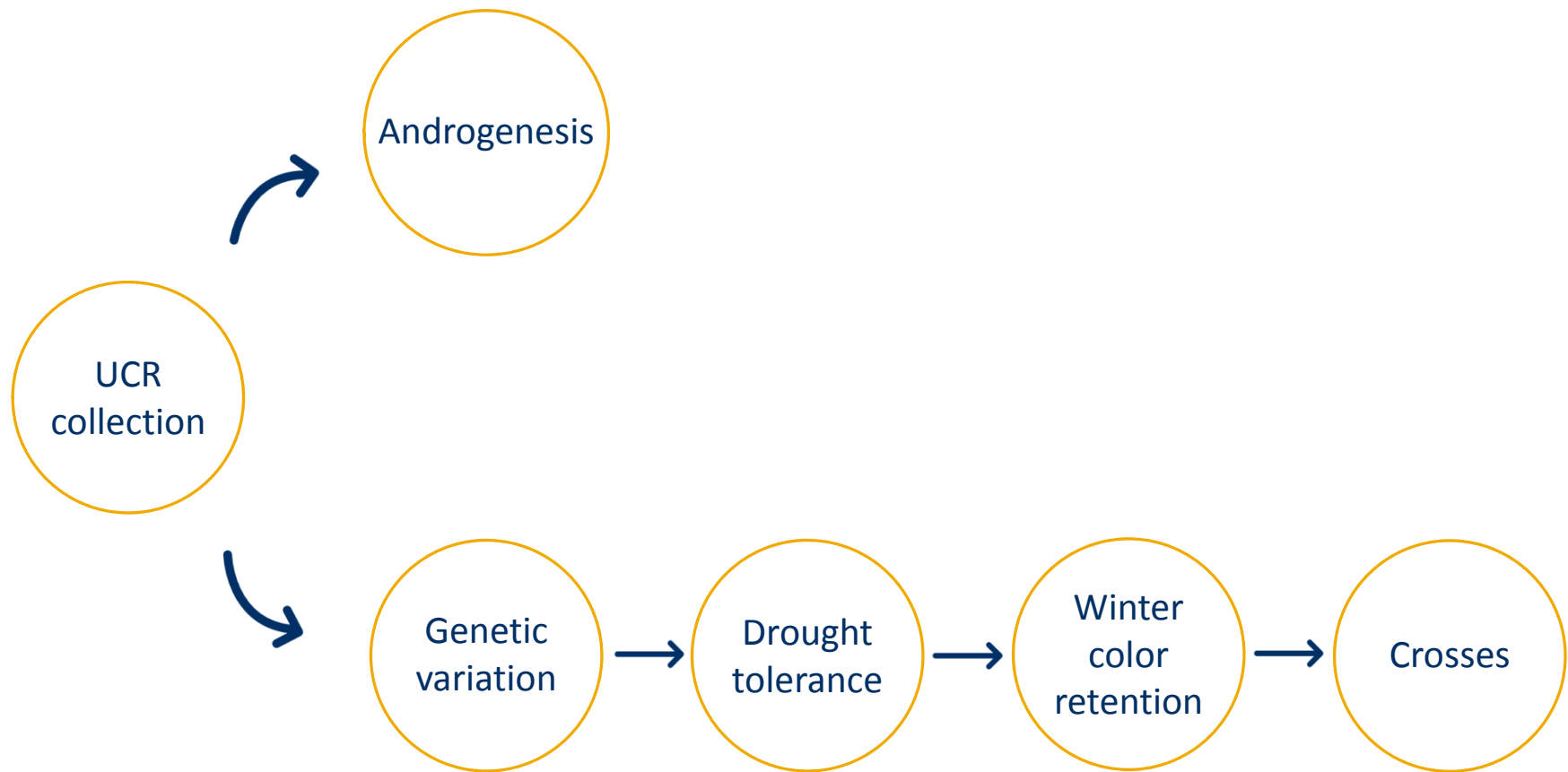


Winter color retention



Drought tolerance

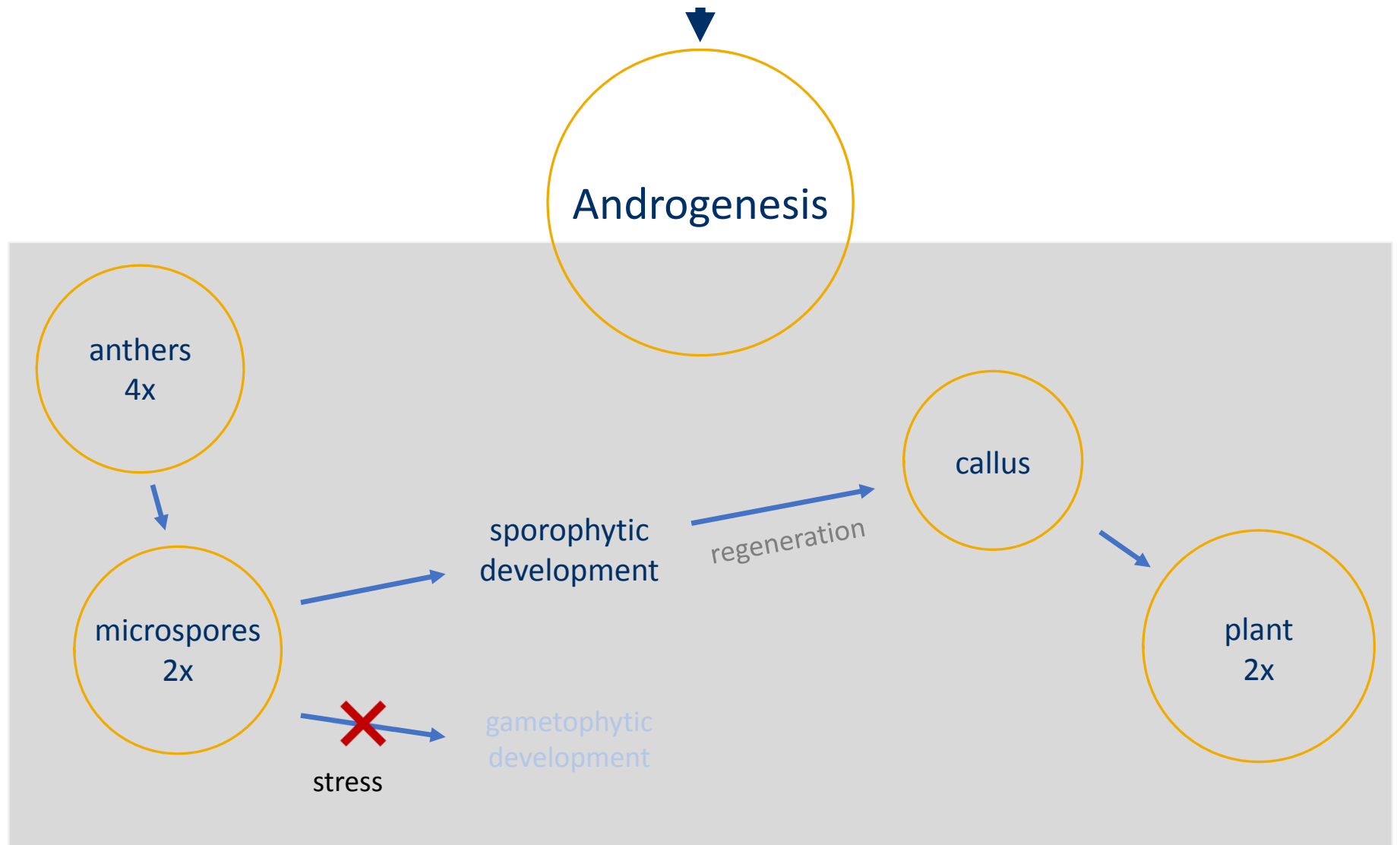




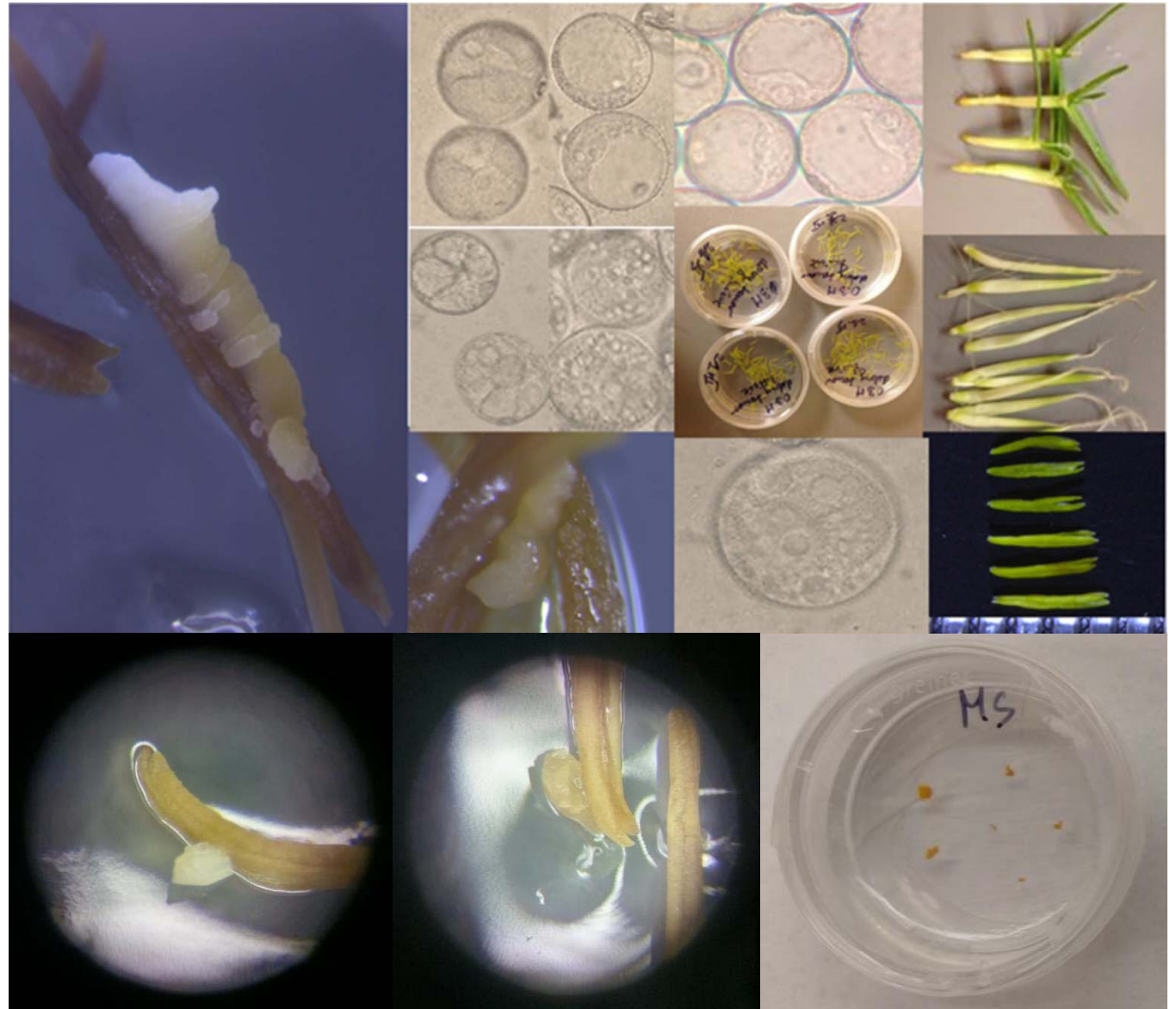
Kikuyugrass breeding

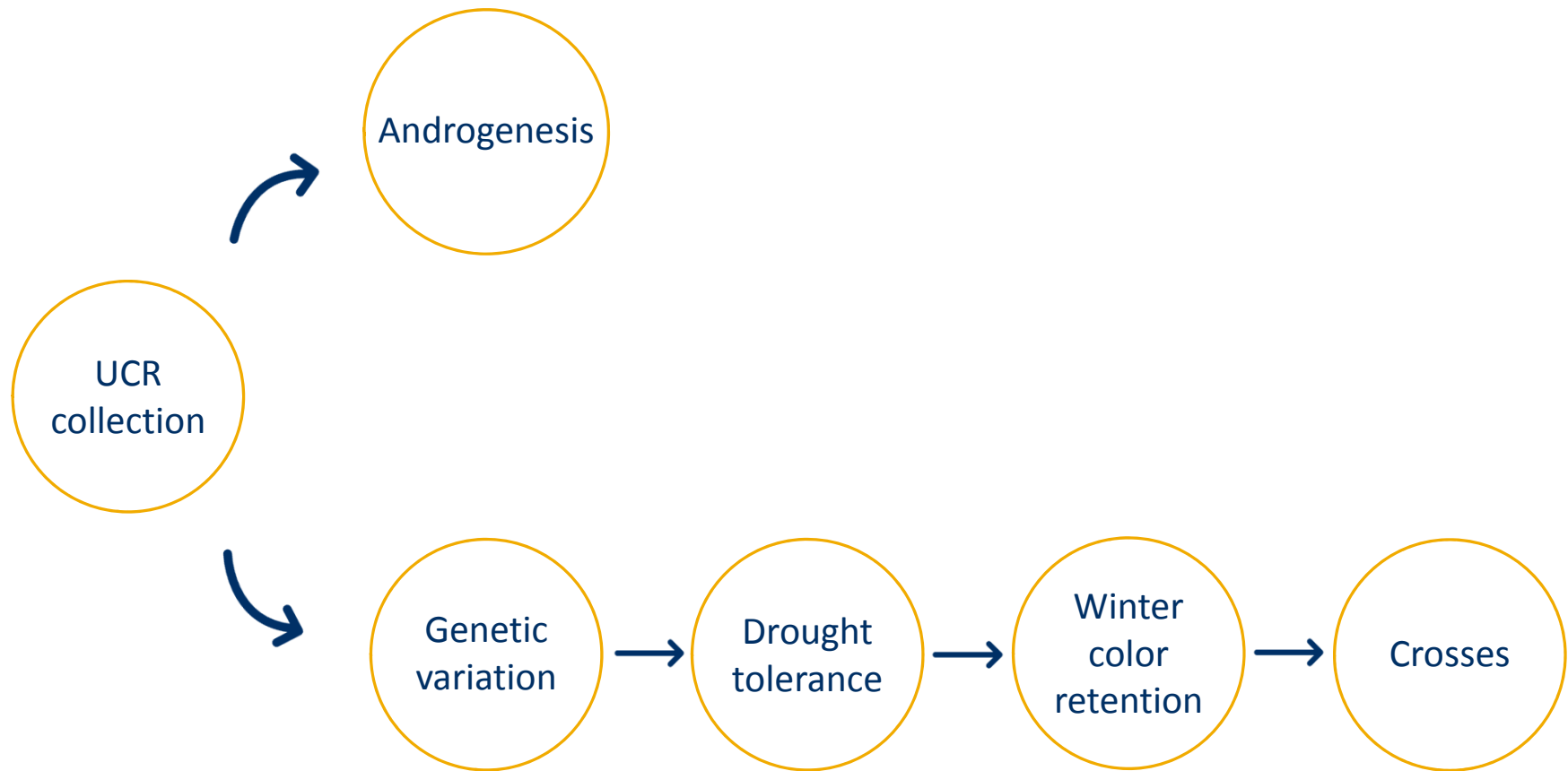
UCR
collection





Androgenesis

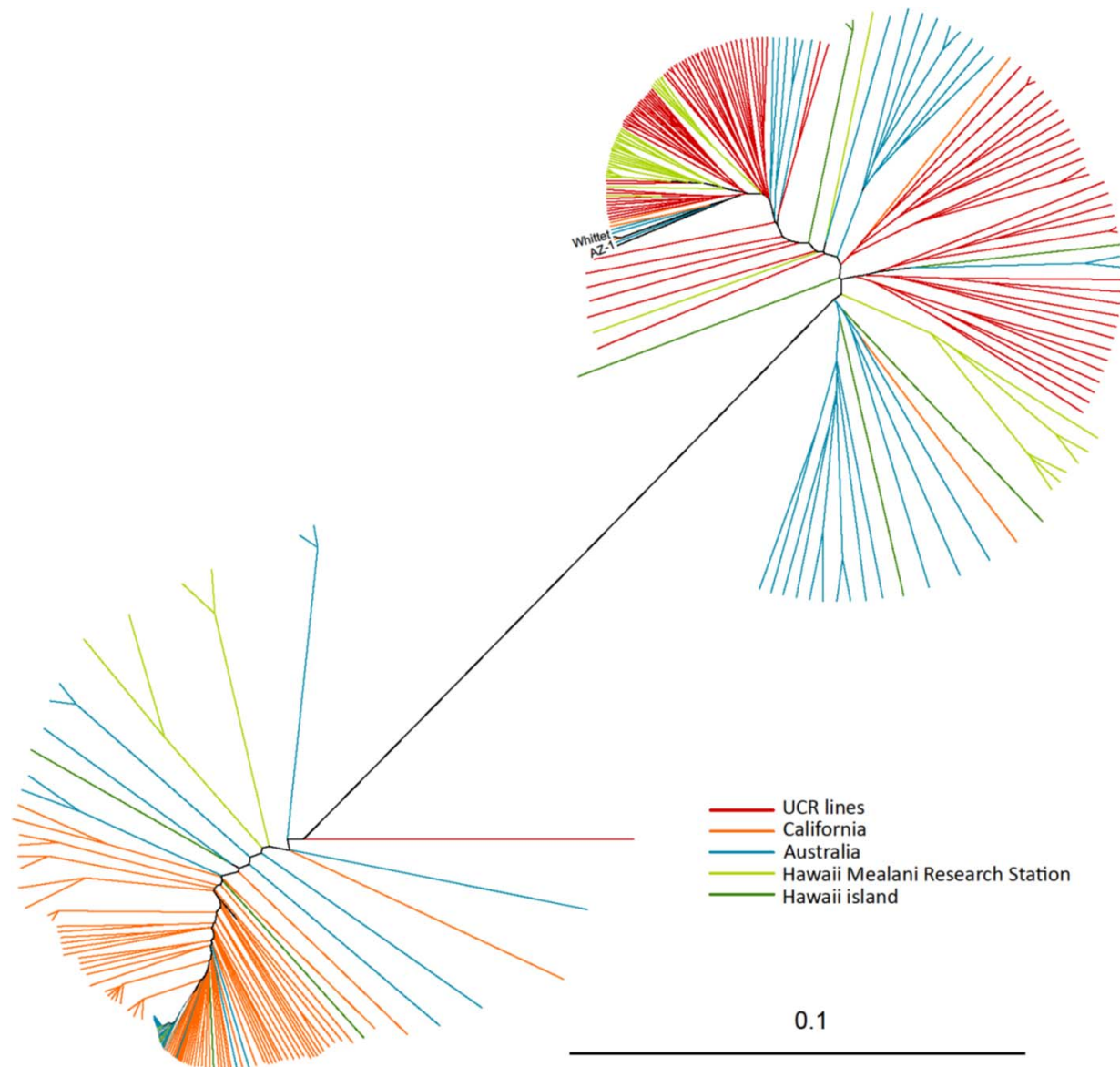




Kikuyugrass breeding

UCR collection







Drought
tolerance

- 103 collection accessions
- last watering 7/8/2017
- visual color evaluation (1-9; 9=best)
- regular watering restoration 10/21/2017

Drought tolerance

Kikuyugrass accessions showing good drought tolerance (color retention 1-9, 9-best)

Days after switching off watering	OPD 58	OPED 03	OPED 05	OPED 06	OPED 07	OPED 08	OPED 10	Whittet 02	Whittet 04	Whittet 05	Whittet 06
9	4	7	4	6.5	6	6.5	4.5	2.5	3.5	3.5	3
14	4.5	6.5	3.5	4	3.5	4	3.5	3.5	4.5	4.5	4
20	4.5	6.5	6	6	5	6	4	3.5	5	5	4
27	5	5	5	6	5	6	5	5	6	6	5
34	5	6	5	5	5	6	6	4	5	5	5
40	5	5	5	5	6	6	6	5	4	5	5
50	5	4	6	6	6	6	6	6	6	6	6
60	6	5	6	6	6	5	6	6	5	6	6
70	5	4	5	5	6	5	6	6	5	5	5
84	6	4	5	4.5	5	5	6	6	6	6	5.5
101	6	5	5	4	6	4	6	6	6	6.5	6
116	6	5	5	4.5	5	4	6.5	6	6	6	5.5
129	7	5	5	5	5	4	6	6	6	7	6
Mean	5.3	5.2	5.0	5.2	5.3	5.2	5.5	5.0	5.2	5.5	5.1

Drought tolerance

Kikuyugrass accessions showing poor drought tolerance (color retention 1-9, 9-best)

Days after switching off watering	AJL 02	C-1(I)	CA35 01	CA39 01	CA51 02	CA87	OPD 02	OPD 09	OPD 12	OPD 13	OPD 32
9	3.5	0	2	3	2	3	2	3.5	2	3	2
14	3.5	2.5	2	2.5	2	2.5	2	3.5	2	2.5	2.5
20	3.5	2	2	3	2	3	2	3	2.5	3	2
27	3	3	2	3	3	2	2	3	2	2	3
34	2	2	3	2	3	3	2	2	2	2	2
40	2	2	2	2	3	2	2	2	2	2	2
50	2	3	3	2	3	3	2	3	3	3	3
60	2	3	3	2	3	2	3	2	3	2	2
70	2	3	2	2	2	2	2	2	2	3	2
84	2	3	2	2	3	2	3	2	3	3	3
101	2	3	3	2	3	3	3.5	3	3	3	3
116	2	3	3	3	3	3	3	2	3.5	3	3
129	2.5	3	3	3	3	3	3.5	3	3.5	3	3.5
Mean	2.5	2.5	2.5	2.4	2.7	2.6	2.5	2.6	2.6	2.7	2.5





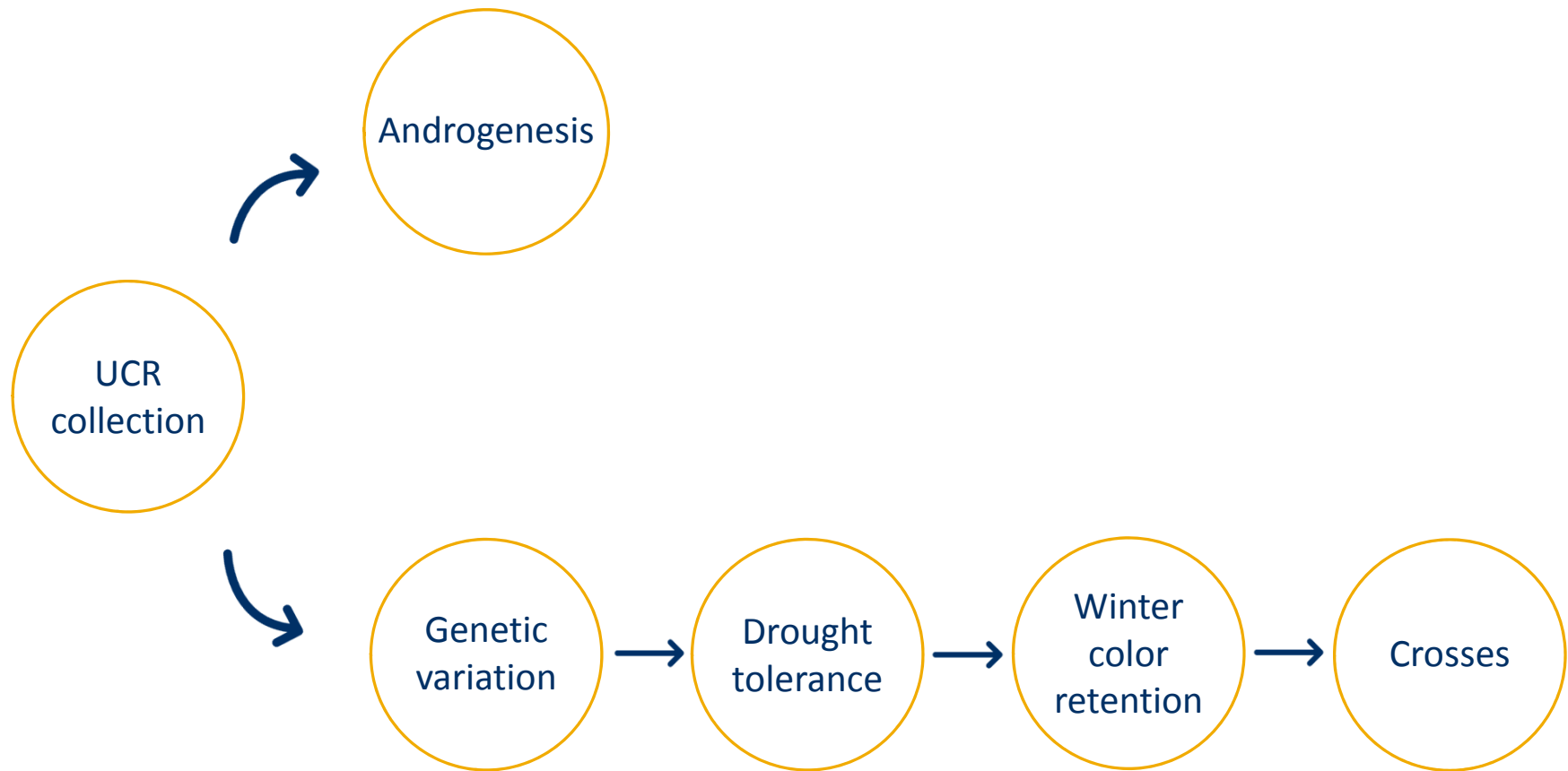
Winter color
retention





Crosses





Kikuyugrass breeding

