

### HANDOUT I.3 Production of *AB* gametes

Parental Genotype	Frequency in current generation	Frequency of <i>AB</i> gametes produced
<i>AB/AB</i>	$P_{AB}^2$	$1 \cdot P_{AB}^2$
<i>AB/Ab</i>	$2P_{AB}P_{Ab}$	$\frac{1}{2} \cdot (2P_{AB}P_{Ab})$
<i>AB/aB</i>	$2P_{AB}P_{aB}$	$\frac{1}{2} \cdot (2P_{AB}P_{aB})$
<i>AB/ab</i>	$2P_{AB}P_{ab}$	$\frac{(1-r)}{2} \cdot (2P_{AB}P_{ab})$
<i>Ab/aB</i>	$2P_{Ab}P_{aB}$	$\frac{r}{2} \cdot (2P_{Ab}P_{aB})$