



**BLACK CHOKEBERRY**  
(*Aronia melanocarpa*)

**Proposed denomination:** 'UCONNAM165'  
**Trade name:** Low Scape Mound  
**Application number:** 16-8947  
**Application date:** 2016/06/30  
**Applicant:** University of Connecticut, Farmington, Connecticut, United States of America  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Mark Henry Brand, University of Connecticut, Storrs, Connecticut, United States of America

**Variety used for comparison:** 'Autumn Magic'

**Summary:** *The plants of 'UCONNAM165' are oblate in shape with a bushy growth habit while the plants of 'Autumn Magic' are obconical in shape with an upright growth habit. The plants of 'UCONNAM165' are smaller than the plants of 'Autumn Magic'. The plants of 'UCONNAM165' have a slow growth rate and a greater number of main and secondary branches than the plants of 'Autumn Magic', which have a medium growth rate. The leaf blade of 'UCONNAM165' is smaller than the leaf blade of 'Autumn Magic'. The anthocyanin colouration on the veins of the lower side of the leaf blade for 'UCONNAM165' is absent or very weak while it is strong for 'Autumn Magic'. The inflorescence of 'UCONNAM165' has a smaller diameter than the inflorescence of 'Autumn Magic'. The anther of 'UCONNAM165' is dark purple red while it is brown purple for 'Autumn Magic'. The fruit of 'UCONNAM165' has a smaller diameter than the fruit of 'Autumn Magic'.*

**Description:**

PLANT: shrub type, oblate shape, bushy growth habit, medium to dense branching, slow growth rate

STEM: grey brown and red, thin to medium thickness, absent or very sparse pubescence, round in cross-section, smooth bark, absent or very weak glaucosity, medium number of lenticels

SHOOT: red

PETIOLE: present, medium length

LEAF: simple type, alternate arrangement on stem, obovate, acute and cuspidate apex, cuneate base, crenate margin, lobing and variegation absent, absent or very weak rugosity, absent or very weak waviness of margin

LEAF BLADE (UPPER SIDE): medium to dark green, absent or very sparse pubescence with coarse black hairs along midrib

LEAF BLADE (LOWER SIDE): light green, very sparse pubescence along midrib, absent or very weak anthocyanin colouration on the veins

BUD: reddish brown

INFLORESCENCE: corymb type

FLOWER: rotate shape corolla, white (RHS NN155D) with purple red (lighter than RHS 58D) near margins on upper and lower side

ANTHER: dark purple red (RHS 60A)

FRUIT: drupe type, black on outer surface when ripe

**Origin and Breeding:** 'UCONNAM165' was developed by the breeder, Dr. Mark Henry Brand, an employee of the University of Connecticut. The new variety originated from a controlled cross conducted in May 2006 in Storrs, Connecticut, USA between the proprietary *Aronia melanocarpa* varieties 'UC012', as the female parent, and 'UC017', as the male parent. 'UCONNAM165' was selected in May 2011 in Storrs, Connecticut, based on plant growth habit as well as foliage and flowering characteristics. 'UCONNAM165' was first propagated in June 2011, first by tissue culture then by softwood cuttings.

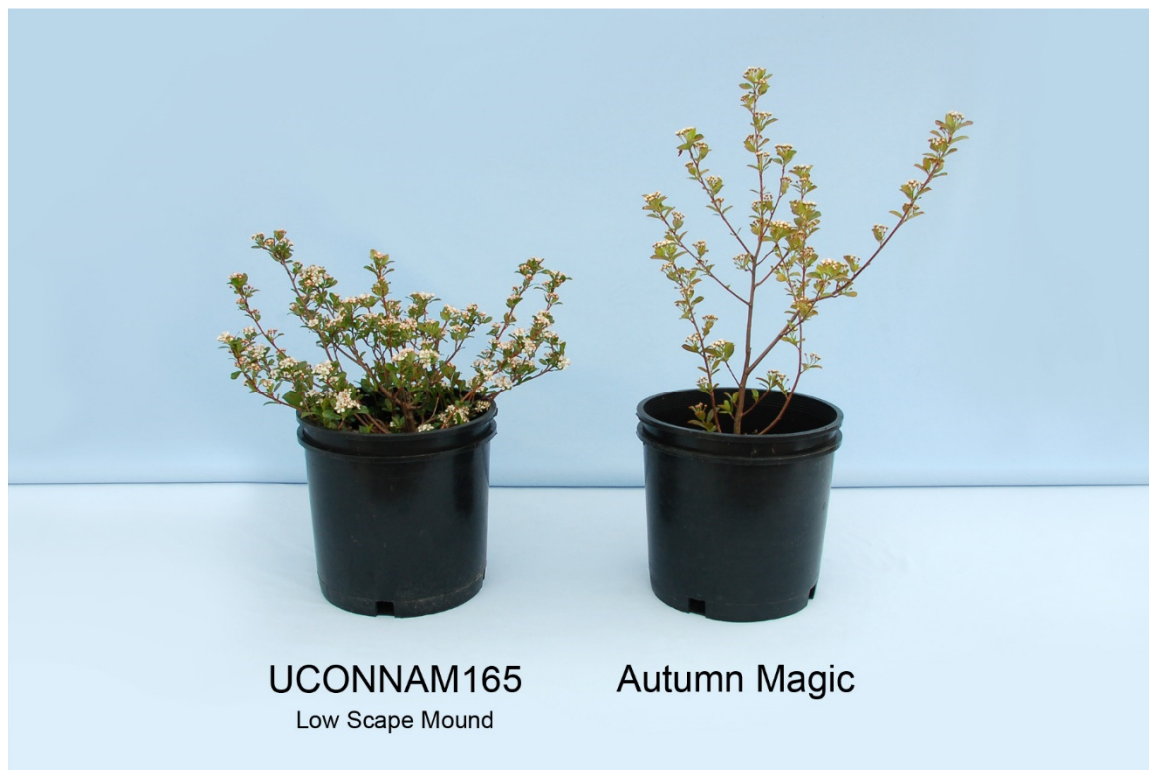
**Tests and Trials:** The comparative trial for 'UCONNAM165' was conducted in an outdoor irrigated container trial during the summer of 2020 in St. Thomas, Ontario. The trial included 10 shrubs of the candidate variety and 8 shrubs of the reference variety. All shrubs were grown from rooted cuttings, transplanted into 11.36 litre containers and overwintered in a polyhouse. The trial was arranged in rows, with 1 row per variety and 1 metre spacing between plants. Observations and measurements

were taken from 10 plants, or 10 parts of plants. Flower characteristics were assessed on May 23, 2020, plant characteristics on July 23, 2020 and fruit characteristics on September 25, 2020. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

**Comparison table for 'UCONNAM165'**

	'UCONNAM165'	'Autumn Magic'*
<i>Plant height (cm)</i>		
mean	34.9	59.9
std. deviation	1.9	8.5
<i>Plant width (cm)</i>		
mean	47.4	55.0
std. deviation	3.8	5.4
<i>Number of main branches</i>		
mean	4.0	1.0
std. deviation	0.9	1.0
<i>Number of secondary branches</i>		
mean	7.0	2.0
std. deviation	1.8	0.5
<i>Leaf blade length (cm)</i>		
mean	3.89	4.95
std. deviation	0.29	0.56
<i>Leaf blade width (cm)</i>		
mean	1.96	2.95
std. deviation	0.45	0.37
<i>Inflorescence diameter (cm)</i>		
mean	2.71	3.60
std. deviation	0.41	0.27
<i>Anther colour (RHS)</i>		
main	60A	186B
<i>Fruit diameter (mm)</i>		
mean	7.69	9.87
std. deviation	0.42	0.27

\*reference variety



Black Chokeberry: 'UCONNAM165' (left) with reference variety 'Autumn Magic' (right)



Black Chokeberry: 'UCONNAM165' (left) with reference variety 'Autumn Magic' (right)

**Proposed denomination:** 'UCONNAM166'  
**Trade name:** Low Scape Hedger  
**Application number:** 16-8948  
**Application date:** 2016/06/30  
**Applicant:** University of Connecticut, Farmington, Connecticut, United States of America  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Mark Henry Brand, University of Connecticut, Storrs, Connecticut, United States of America  
Bryan Allan Connolly, Mansfield Center, Connecticut, United States of America

**Variety used for comparison:** 'Viking'

**Summary:** *The plants of 'UCONNAM166' are taller and have a greater number of main and secondary branches than the plants of 'Viking'. The leaf blade of 'UCONNAM166' is longer than the leaf blade of 'Viking'. The petiole of 'UCONNAM166' has a weak intensity of anthocyanin colouration while the petiole of 'Viking' has a strong intensity of anthocyanin colouration. The inflorescence of 'UCONNAM166' has a smaller diameter than the inflorescence of 'Viking'. The anther of 'UCONNAM166' is purple while it is brown purple for 'Viking'. The fruit of 'UCONNAM166' has a smaller diameter than the fruit of 'Viking'.*

**Description:**

PLANT: shrub type, obconical shape, upright to bushy growth habit, medium growth rate

STEM: brown and red, medium thickness, absent or very sparse pubescence, round in cross-section, smooth bark, absent or very weak glaucosity, medium number of lenticels

SHOOTS: red

PETIOLE: present, medium length, weak intensity of anthocyanin colouration

LEAF: simple type, alternate arrangement on stem, elliptic, acute and cuspidate apex, cuneate base, crenate and serrate margin, lobing and variegation absent, absent or very weak rugosity, absent or very weak waviness of margin

LEAF BLADE (UPPER SIDE): medium green, absent or very sparse pubescence with coarse black hairs along midrib

LEAF BLADE (LOWER SIDE): light green, very sparse pubescence along midrib, weak to medium intensity of anthocyanin colouration on veins

BUD: reddish brown

INFLORESCENCE: corymb type

FLOWER: rotate shape corolla, white (RHS NN155D) with purple red (lighter than RHS 58D) near margins on upper and lower side

ANTHER: purple (RHS 61A)

FRUIT: drupe type, black on outer surface when ripe

**Origin and Breeding:** 'UCONNAM166' was developed by the breeders, Dr. Mark Henry Brand, an employee of the University of Connecticut and Dr. Bryan Allan Connolly, an employee of Mansfield Center, Connecticut, USA. The new variety originated from a controlled cross conducted in May 2010 in Storrs, Connecticut, USA between the proprietary *Aronia melanocarpa* variety, 'UC012', as the female parent, and the *Aronia mitschurinii* variety 'Viking', as the male parent. 'UCONNAM166' was selected in June 2011 in Storrs, Connecticut based on plant growth habit as well as foliage and flowering characteristics. 'UCONNAM166' was first propagated in June 2011, first by tissue culture then by softwood cuttings.

**Tests and Trials:** The comparative trial for 'UCONNAM166' was conducted in an outdoor irrigated container trial during the summer of 2020 in St. Thomas, Ontario. The trial included 10 shrubs of the candidate variety and 8 shrubs of the reference variety. All shrubs were grown from rooted cuttings, transplanted into 11.36 litre containers and overwintered in a polyhouse. The trial was arranged in rows, with 1 row per variety and 1 metre spacing between plants. Observations and measurements were taken from 10 plants, or 10 parts of plants. Flower characteristics were assessed on May 23, 2020, plant characteristics on July 23, 2020 and fruit characteristics on September 25, 2020. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

**Comparison table for 'UCONNAM166'**

	'UCONNAM166'	'Viking**'
<i>Plant height (cm)</i>		
mean	77.40	61.10
std. deviation	3.81	9.81
<i>Number of main branches</i>		
mean	2.6	1.8
std. deviation	0.7	0.5
<i>Number of secondary branches</i>		
mean	5.6	4.2
std. deviation	1.7	1.0
<i>Leaf blade length (cm)</i>		
mean	9.30	8.60
std. deviation	0.46	0.40
<i>Inflorescence diameter (cm)</i>		
mean	2.71	3.60
std. deviation	0.41	0.27
<i>Anther colour (RHS)</i>		
main	61A	186B
<i>Fruit diameter (mm)</i>		
mean	9.30	13.20
std. deviation	0.61	0.43

\*reference variety



Black Chokeberry: 'UCONNAM166' (left) with reference variety 'Viking' (right)



Black Chokeberry: 'UCONNAM166' (left) with reference variety 'Viking' (right)