REGISTRATIONS OF CULTIVARS

Registration of ‘Ali Dayi’ Lentil

‘Ali Dayi’ lentil (*Lens culinaris* Medik.) (Reg. no. CV-13, PI 631395) was developed at the International Center for Agricultural Research in the Dry Areas (ICARDA), Aleppo, Syria, and released by the Central Research Institute for Field Crops (CRIFC), Ankara, Turkey, in 2001. ‘Ali Dayi’ is a high-yielding red cotyledon lentil cultivar with lodging resistance, recommended for spring cultivation in central Anatolia in Turkey.

‘Ali Dayi’, ICARDA accession number ILL 5722, was developed from a cross of ILL 883 by ILL 470. The female parent, ILL 883, is a landrace from Iran, and ILL 470 is a landrace of Syria. The segregating populations were advanced through the bulk method, and single-plant selection was practiced in the F₁. The F₂:F₃ and F₃:F₄ progenies were evaluated at ICARDA in nonreplicated nurseries. The line was evaluated in replicated preliminary and advanced yield trials in the F₄:F₅ and F₄:F₆, respectively. Because of its excellent yield performance and other agronomic attributes, it was entered into the international testing program with the pedigree number FLIP 85-51 L, and accessed by Genetic Resources Unit of ICARDA as ILL 5722.

The Food Legume Improvement Program of CRIFC, Ankara, Turkey, received ILL 5722 through the Legume International Nursey Network in 1993 in the small-seeded lentil nursery category. It was identified as one of the promising lines for spring planting at Haymana, the main CRIFC research site. Subsequently, the line was evaluated in preliminary and large-plot yield trials at the same location. Because of its higher yield performance, lodging resistance, and desirable seed characteristics, it was selected for multilocation yield evaluations.

From 1997–1998 to 1999–2000, ILL 5722 was evaluated at Haymana, Konya, Yozgat, and Karaman research sites in central Anatolia. On average, seed yield of ILL 5722 was 1490 kg ha⁻¹ compared to 1277 kg ha⁻¹ for the best check, Emre 20, an increase of 17%. Low yields occurred in 1998–1999 because of severe drought. Significantly higher yields were recorded in all the trials, except 1997–1998 at Haymana and in 1998–1999 at Konya and Yozgat.

ILL 5722 attains a height of 30 cm, with first pod height at about 12 cm from the ground level, and exhibits an erect growth habit with at least three upright primary branches. The compound leaves have light pubescence, medium sized leaflets, and a well-developed tendril. Tendrils intermingle with each other and keep the canopy in an upright position. Vascular wilt is a devastating disease of lentil in many countries. Yield losses up to 72% have been reported (Bayaa et al., 1986). ILL 5883 is resistant to vascular wilt (Bayaa et al., 1986). ILL 5722 had <5% wilted plants compared to wilted plants in the local check, Hurani. In on-farm trials over the years across Syria, 2.7% wilted plants have been observed in ILL 5883.

Seeds have a brown testa without any pattern and weigh 4.7 g/100 seeds. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed. Cotyledons are bright red. Protein concentration in ILL 5883 was 252 mg g⁻¹ seed.

**Registration of ‘Idlib-2’ Lentil**

‘Idlib-2’ lentil (*Lens culinaris* Medik.) (Reg. no. CV-13, PI 631396) was developed at the International Center for Agricultural Research in the Dry Areas (ICARDA), Aleppo, Syria, and released in 2000 by the Directorate of Research and Scientific Research, Ministry of Agriculture and Agrarian Reform for commercial cultivation in Syria. It is a high-yielding red cotyledon lentil cultivar with lodging resistance, recommended for spring cultivation in central Anatolia in Turkey.

Idlib-2 was developed through single-plant selection from a Jordanian landrace, 74TA14. It was introduced into Syria in 1977 and is designated as ILL 16. Considerable seed fertility was observed among plants, and a single-plant selection (81S 15) was made at ICARDA in 1981. After nonreplicated preliminary screening nursery and preliminary and advanced yield trials between 1983 and 1985, it was entered into the international testing program as one of the promising lines in the small-seeded lentil category. The line was entered into the Lentil Germplasm Catalog as accession ILL 5883.

The Syrian national program identified ILL 5883 as a high yielding line from the Lentil International Nursery seed) supplied by ICARDA. It was tested in six sites in Syria from 1986–1987 to 1988–1989. On average, ILL 5883 gave 1625 kg ha⁻¹ seed yield compared to 1286 kg ha⁻¹ for the local check, Hurani representing an increase of 26.3%.

Idlib-2 was evaluated under on-farm trials from 1986–1987 to 1988–1989. On average, ILL 5883 produced a mean seed yield of 1365 kg ha⁻¹, compared to 1232 kg ha⁻¹ for the local check, Hurani. Lentil straw is an important animal feed in Syria. The cultivar produced an average straw yield of 3379 kg ha⁻¹.

Seeds have a brown testa without any pattern and weigh 4.7 g/100 seed. Cotyledons are bright red. Protein concentration in ILL 5883. Seeds have a brown testa without any pattern and weigh 4.7 g/100 seed. Cotyledons are bright red. Protein concentration in ILL 5883. Seeds have a brown testa without any pattern and weigh 4.7 g/100 seed. Cotyledons are bright red. Protein concentration in ILL 5883. Seeds have a brown testa without any pattern and weigh 4.7 g/100 seed. Cotyledons are bright red. Protein concentration in ILL 5883. Seeds have a brown testa without any pattern and weigh 4.7 g/100 seed. Cotyledons are bright red. Protein concentration in ILL 5883. Seeds have a brown testa without any pattern and weigh 4.7 g/100 seed.