

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format on preceding page for each person. **DO NOT EXCEED FOUR PAGES.**

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|---|---|---------|---------------------------------------|
| NAME Andrey V. Loskutov | POSITION TITLE Research Scientist | | |
| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> | | | |
| INSTITUTION AND LOCATION | DEGREE <i>(if applicable)</i> | YEAR(s) | FIELD OF STUDY |
| Kuban State Agrarian University, Krasnodar, Russia | M.S./B.S. | 1986 | Agronomy / General Biology, Chemistry |
| Vavilov Research Institute Plant Industry (VIR), St.-Petersburg, Russia | Ph.D. | 1993 | Genetics |
| Michigan State University, East Lansing, MI | Post-Doc | 1987 | Biochemistry / Biotechnology |

Professional Experience:

Research Scientist, Lab. of Biotechnology, National Oil Crops Research Institute (VNIIMK), Krasnodar, Russia, 1991-1994.

Senior Research Scientist, Lab. of Biotechnology, National Oil Crops Research Institute (VNIIMK), Krasnodar, Russia, 1994-1995.

Research Associate/Postdoctoral Fellow, Dept. of Horticulture, Michigan State University, East Lansing, MI, 1995-2003.

Scientist, MacroGenics Inc, Dallas, TX, 2003-2005.

Visiting Scientist, Center for Biomedical Inventions, University of Texas Southwestern Medical Center at Dallas, 2005.

Research Scientist, Center for Innovations in Medicine, The Biodesign Institute at Arizona State University, Tempe, AZ, 2005-present.

Selected Publications:

Loskutov AV, Soong G-K and Sink KC. Herbicide resistance celery (*Apium graveolens* L.) plants produced by *Agrobacterium*-mediated transformation using the *bar* gene. In Vitro Cellular & Developmental Biology - Plant (submitted).

Loskutov AV, Hong W-P and Sink KC. 2000. Biotechnology for the production of crocin in callus cultures of *Gardenia jasminoides* Ellis. Current Topics in Plant Biology 2: 161-165.

Loskutov AV, Beninger CW, Hosfield GL, and Sink KC. 2000. Development of a rapid and accurate procedure for extraction and quantitation of safranal in dr stigmas of *Crocus sativus* L. using high performance liquid chromatography. Food Chemistry 69 (1): 87-95.

Loskutov AV, Beninger CW, Ball TM, Hosfield GL, Nair M, and Sink KC. 1999. Optimization of *in vitro* conditions for stigma-like structure production from half-ovary explants of *Crocus sativus* L. In Vitro Cellular & Developmental Biology - Plant 35: 200-205.

Krasnyanski SF, R.A. May RA, Loskutov AV, Ball TM and Sink KC. 1999. Transformation of Black Mitcham peppermint with the limonene synthase gene and essential oil profiles of single transgenic plants. Theoretical & Applied Genetic 99: 676-682.

Tourkav SZ, Loskutov AV, Gubenko TP, and Obratsov IS. 1996. Isozyme markers in genetic investigation of wild and cultivated sunflower. In: symposium on breeding of oil and protein crops. EUCARPIA. Zaporozhye, Ukraine: 326-329 (English, Russian).

Loskutov AV, Demurin YN, Tourkav SZ, Obratsov IS, Bochkarev NI, and Efimenko SG. 1994. Isozymes, tocopherols and fatty acids as biochemical markers of the genetic purity in sunflower. Helia, 17 (21): 5-10.

- Borovkova IG, and Loskutov AV. 1992. Isozymes of sunflower and their use for selection. In: "Sunflower" (ed. V.M. Penchukov), Nauka, Moscow: 61-64 (Russian).
- Anisimova IN, Loskutov AV, and Borovkova IG. 1991. Identification of sunflower lines by electrophoresis of helianthinins and isozymes. Proceeding of Russian Academy of Agriculture, 6: 12-15. (Russian, English).
- Borovkova IG, Loskutov AV, and Tolmachev VV. 1991. Analysis of inheritance and linkage of loci coding morphological traits and isozymes in sunflower. Genetika, 27: 1773-1786. (Russian, English).
- Loskutov AV and Borovkova IG. 1990. Identification of sunflower lines by the isozymes. Bulletin of Scientific Information on Oil Crops, VNIIMK, 4: 17-18 (Russian).
- Loskutov AV, Borovkova IG, and Borovkov AY. 1990. Analysis of inheritance and linkage of three isozyme systems of sunflower. Genetika, 26 (11): 2079-2082 (Russian, English).
- Loskutov AV, Borovkova IG, and Borovkov AY. 1988. Genetic analysis of isozymes variants in sunflower. Bulletin of Scientific Information on Oil Crops, VNIIMK, 4: 22-29 (Russian).

Patent

- Tourkav SZ, Bochkarev NI, and Loskutov AV. 1995. Method of estimation of the genetic purity lines and hybrids in sunflower. Patent UDK 633.854.78:631.527.5, Krasnodar, Russia (Russian).