

Intellectual Property

SemBioSys Genetics' strong intellectual property portfolio ensures the company's worldwide exclusivity to commercialize oleosin/oilbody technology, providing added value to company stakeholders and sustainable competitive advantages to SemBioSys' partners.

The company's technology is protected by the following issued US patents:

- US Patent 7,390,936 – “Commercial production of chymosin in plants”
- US Patent 7,332,587 – “Oil bodies and associated proteins as affinity matrices”
- US Patent 7,093,383 – “Methods for the production of multimeric immunoglobulin, and related compounds”
- US Patent 7,091,401 – “Expression of epidermal growth factor in plant seeds”
- US Patent 6,924,363 - “Oil bodies and associated proteins as affinity matrices”
- US Patent 6,777,591 - "Legume-like storage protein promoter isolated from flax and methods of expressing proteins in plant seeds using the promoter"
- US Patent 6,761,914 - "Immunogenic formulations comprising oil bodies"
- US Patent 6,753,167 - "Preparation of heterologous proteins on oilbodies"
- US Patent 6,750,046 - "Preparation of thioredoxin and thioredoxin reductase proteins on oil bodies"
- US Patent 6,599,513 - "Products for topical applications comprising oilbodies"
- US Patent 6,596,287 - "Products for topical applications comprising oilbodies"
- US Patent 6,582,710 - "Products for topical applications comprising oilbodies"
- US Patent 6,509,453 - "Oilbodies and associated proteins as affinity matrices"
- U.S. Patent 6,372,234 – “Products for topical applications comprising oilbodies”
- U.S. Patent 6,288,304 - "Expression of somatotropin in plant seeds"
- U.S. Patent 6,210,742 - "Uses of oilbodies"
- U.S. Patent 6,183,762 - "Oilbody-based personal care products"
- U.S. Patent 6,146,645 - "Uses of oilbodies"
- U.S. Patent 5,948,682 - "Preparation of heterologous proteins on oilbodies"
- U.S. Patent 5,856,452 - "Oilbodies and associated proteins as affinity matrices"
- U.S. Patent 5,792,922 - "Oilbody protein cis-elements as regulatory signals"
- U.S. Patent 5,650,554 - "Oilbody proteins as carriers of high-value peptides in plants."

In addition the following applications are pending:

- WO 05/047455 – “Methods for the production of apolipoproteins in transgenic plants”

- WO 05/030169 – “Methods for the preparation of oil bodies comprising active ingredients”
- WO 04/111244 - "Methods for the production of insulin in plants"

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