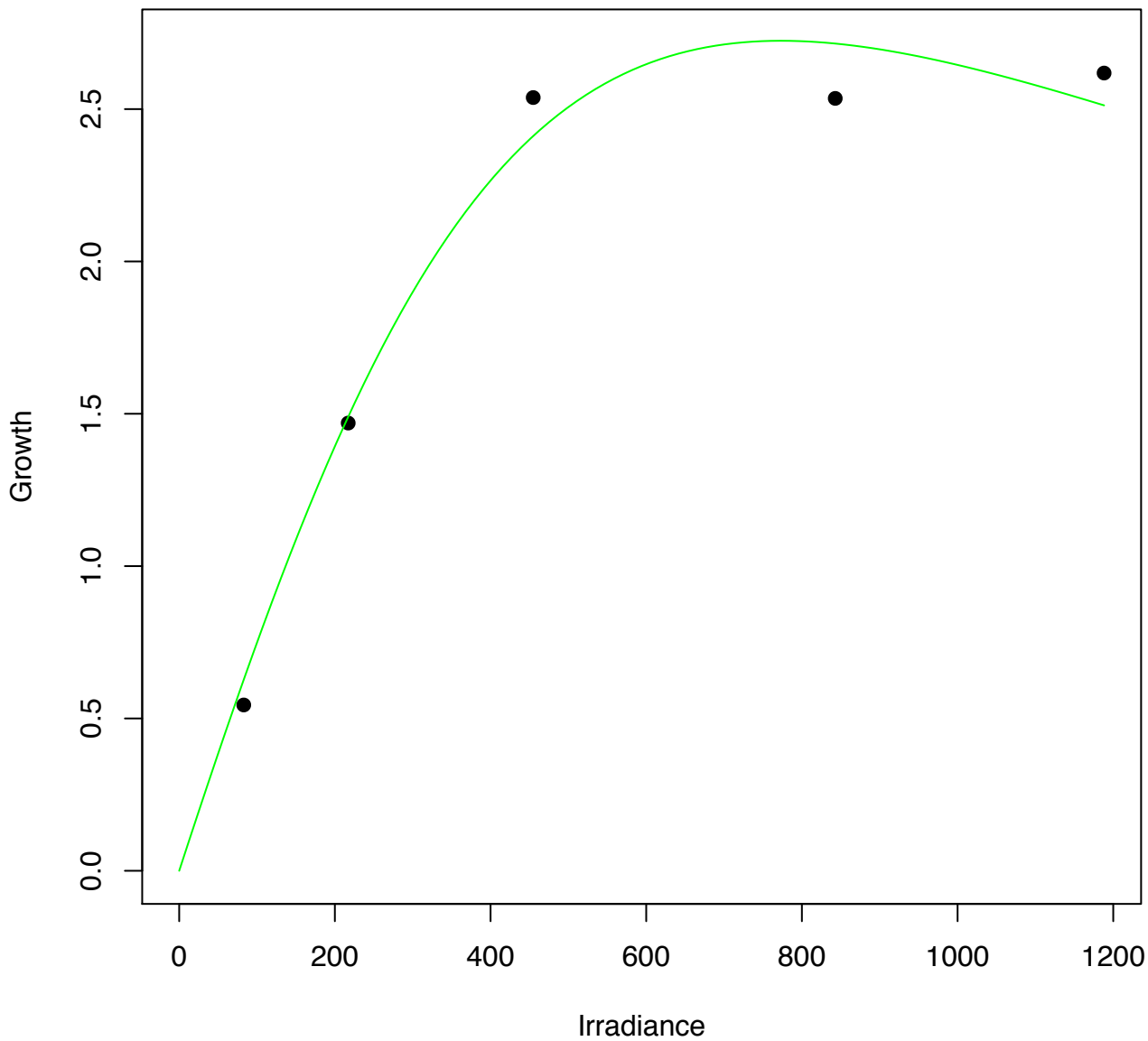
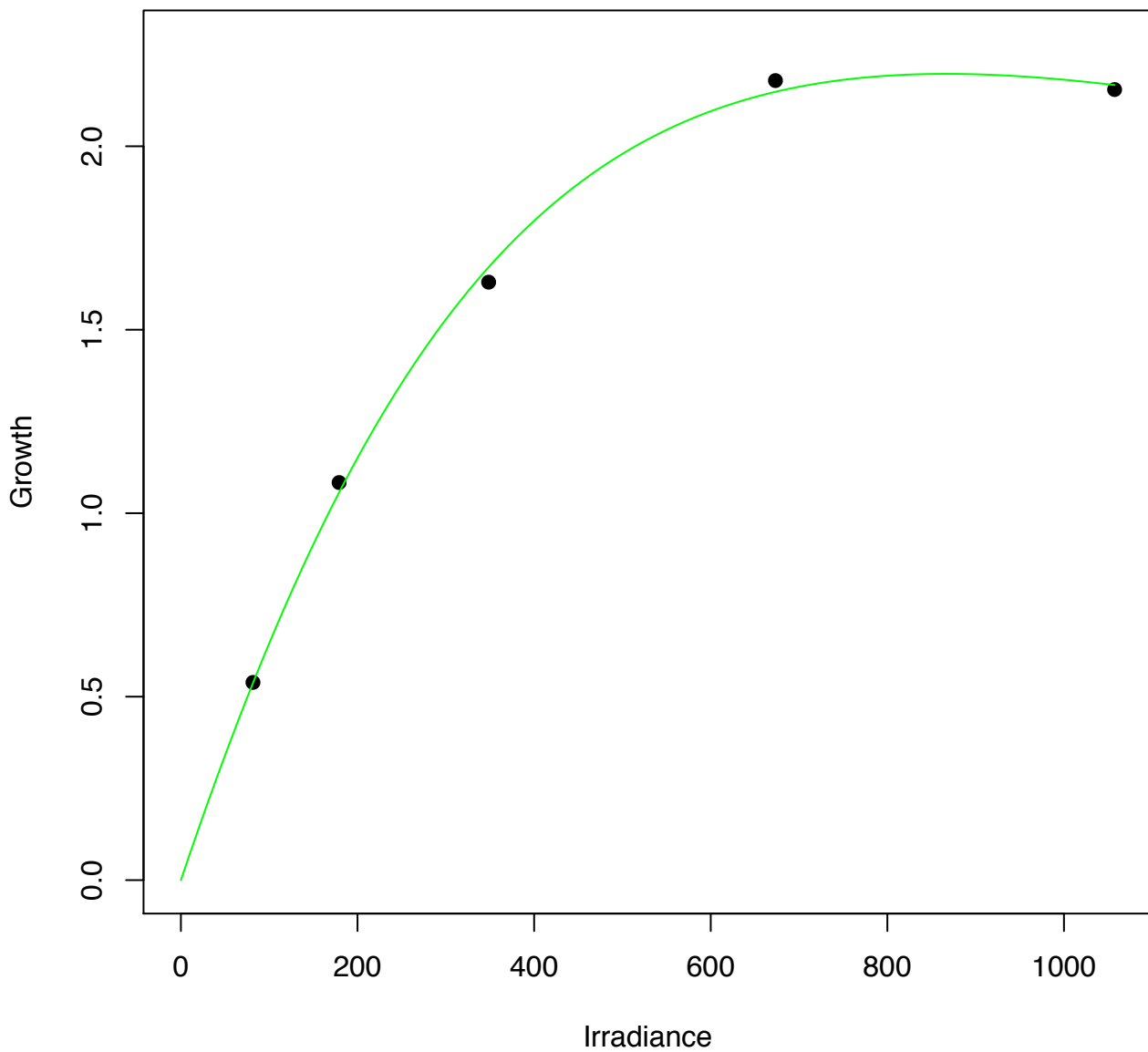


Supplement S1. Fitted growth-irradiance curves used in the analyses. The fitted curve is Eqn. 1 in the main text. Species name and culture temperature is listed for each experiment.

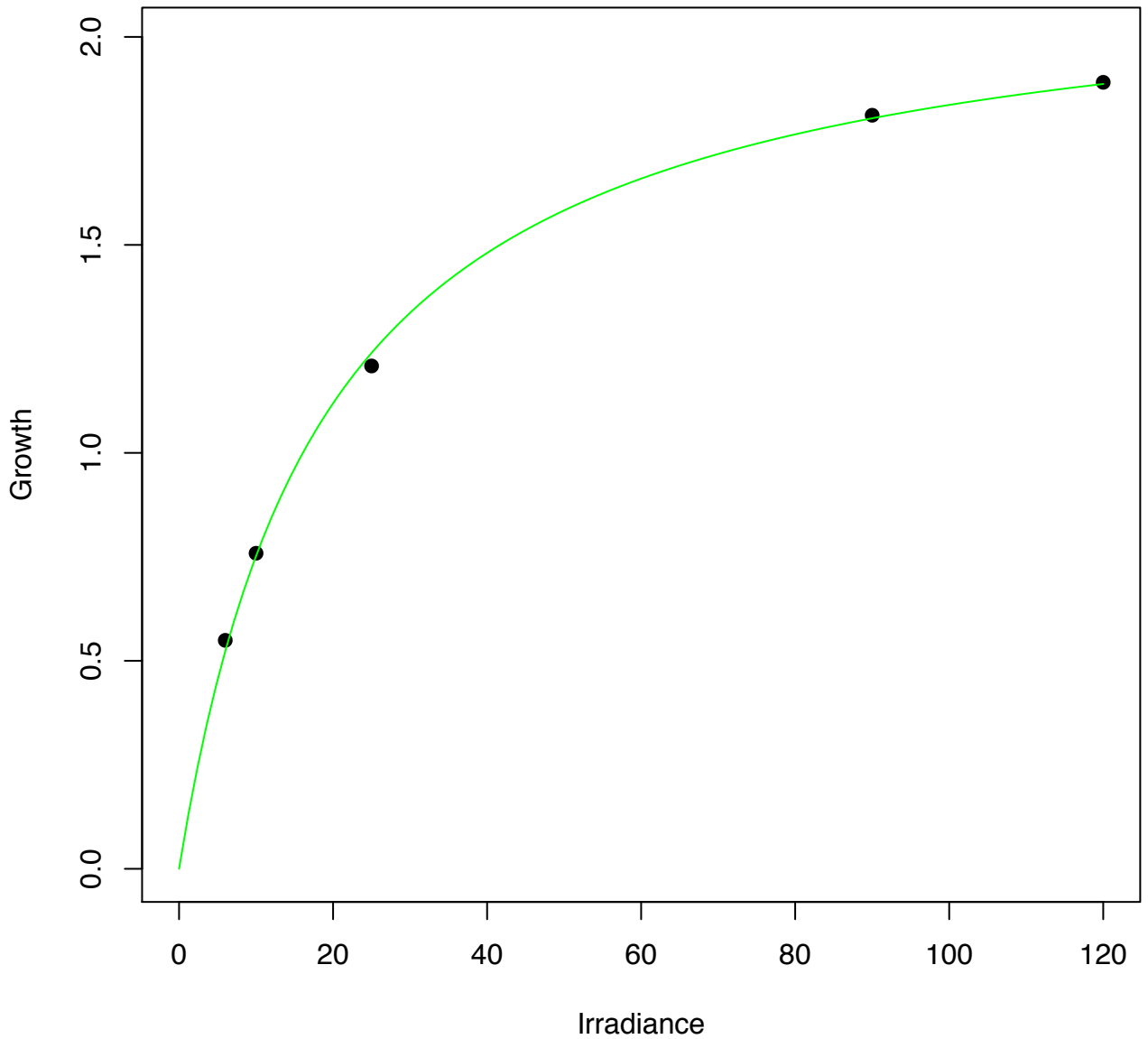
Skeletonema costatum 22°C



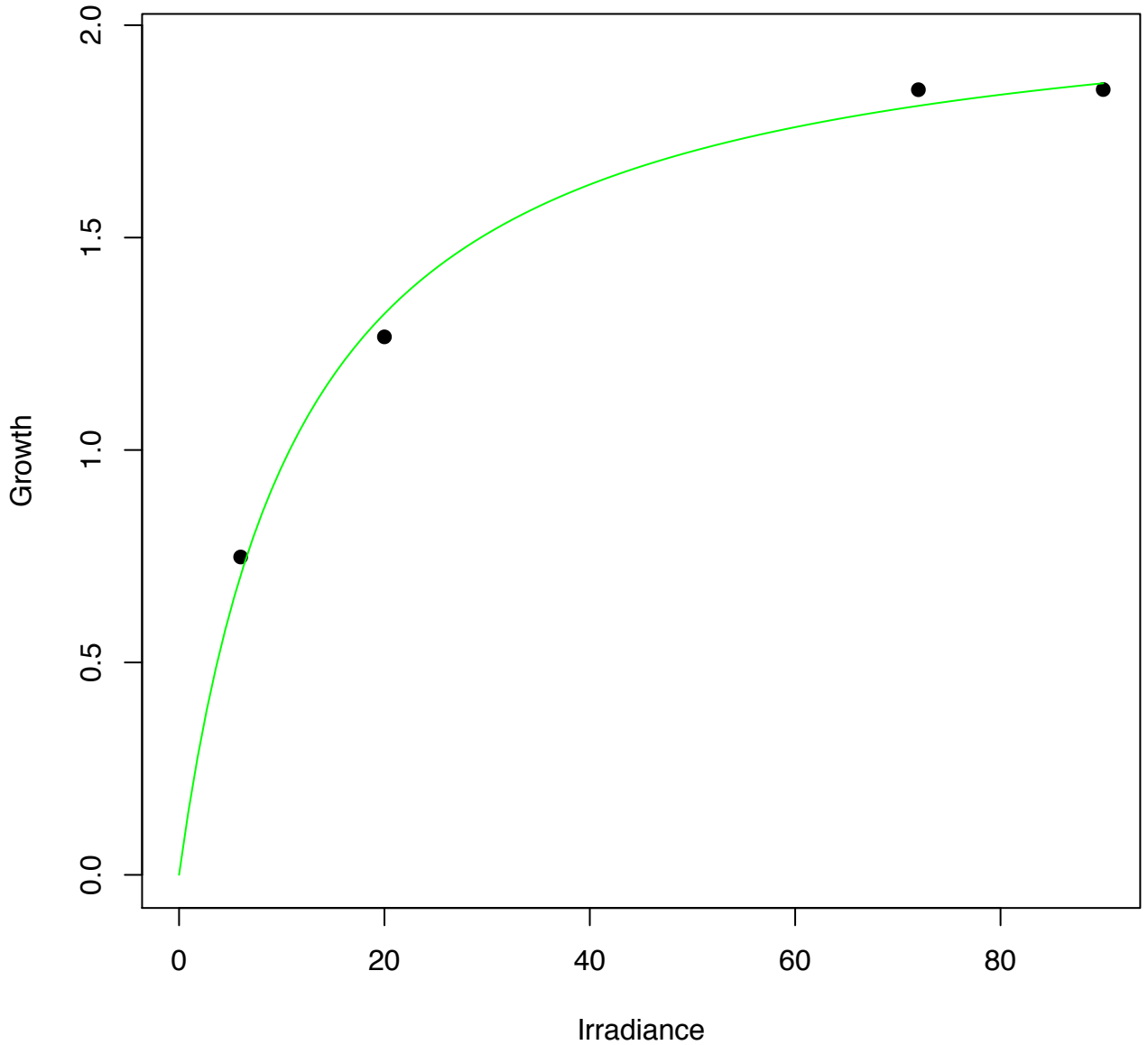
Skeletonema costatum 22°C



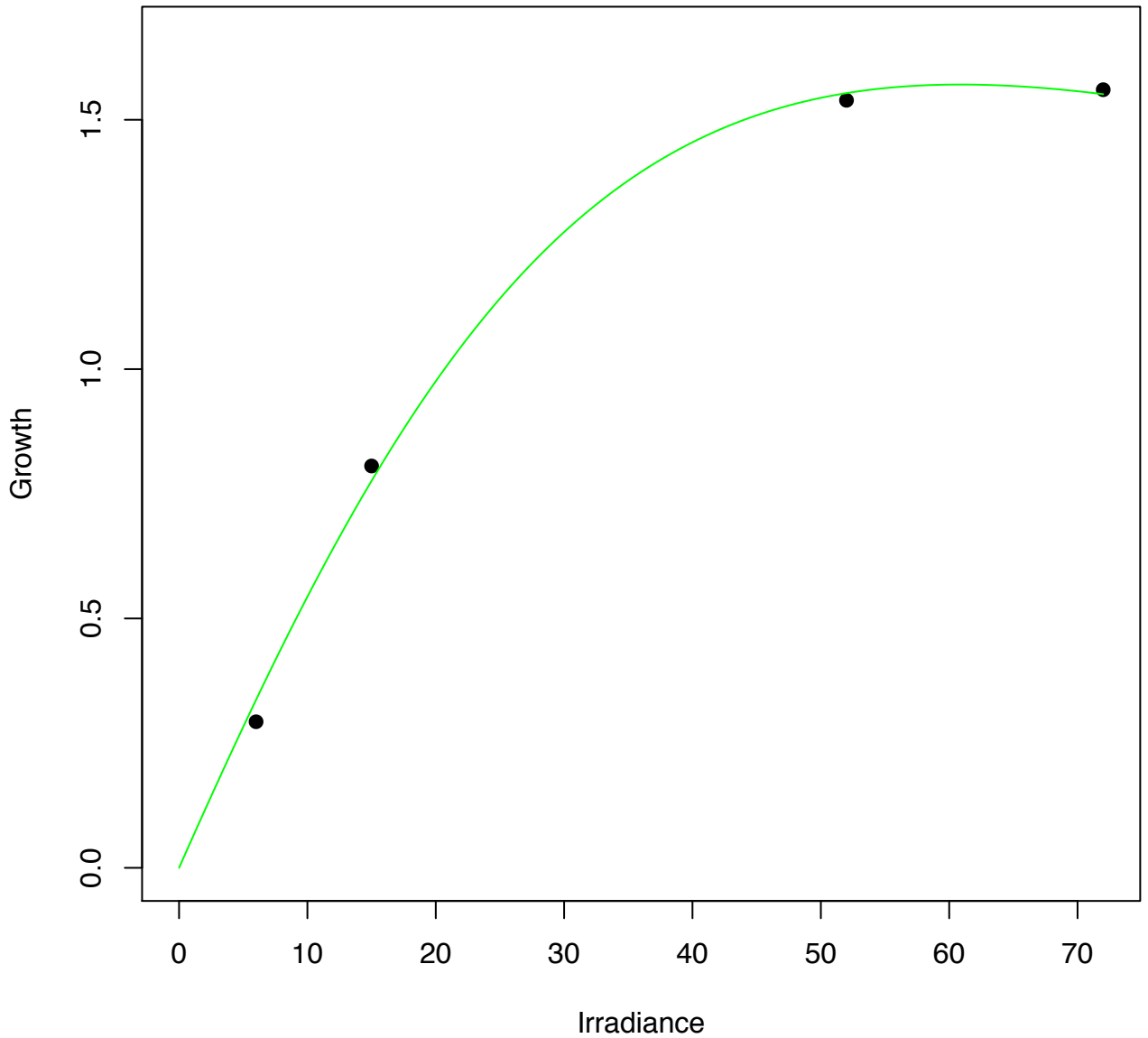
Leptocylindricus danicus 20°C



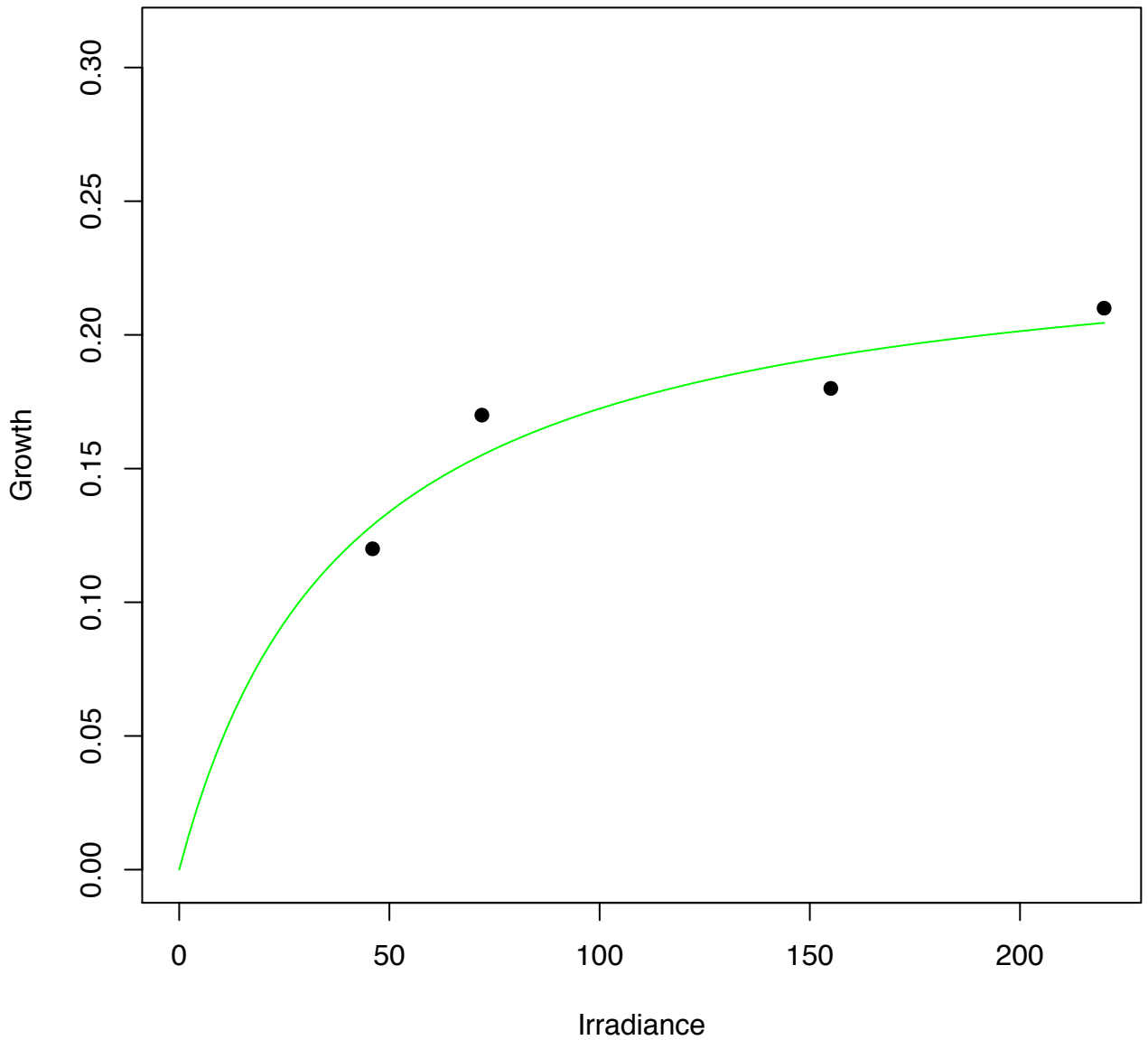
Leptocylindricus danicus 20°C



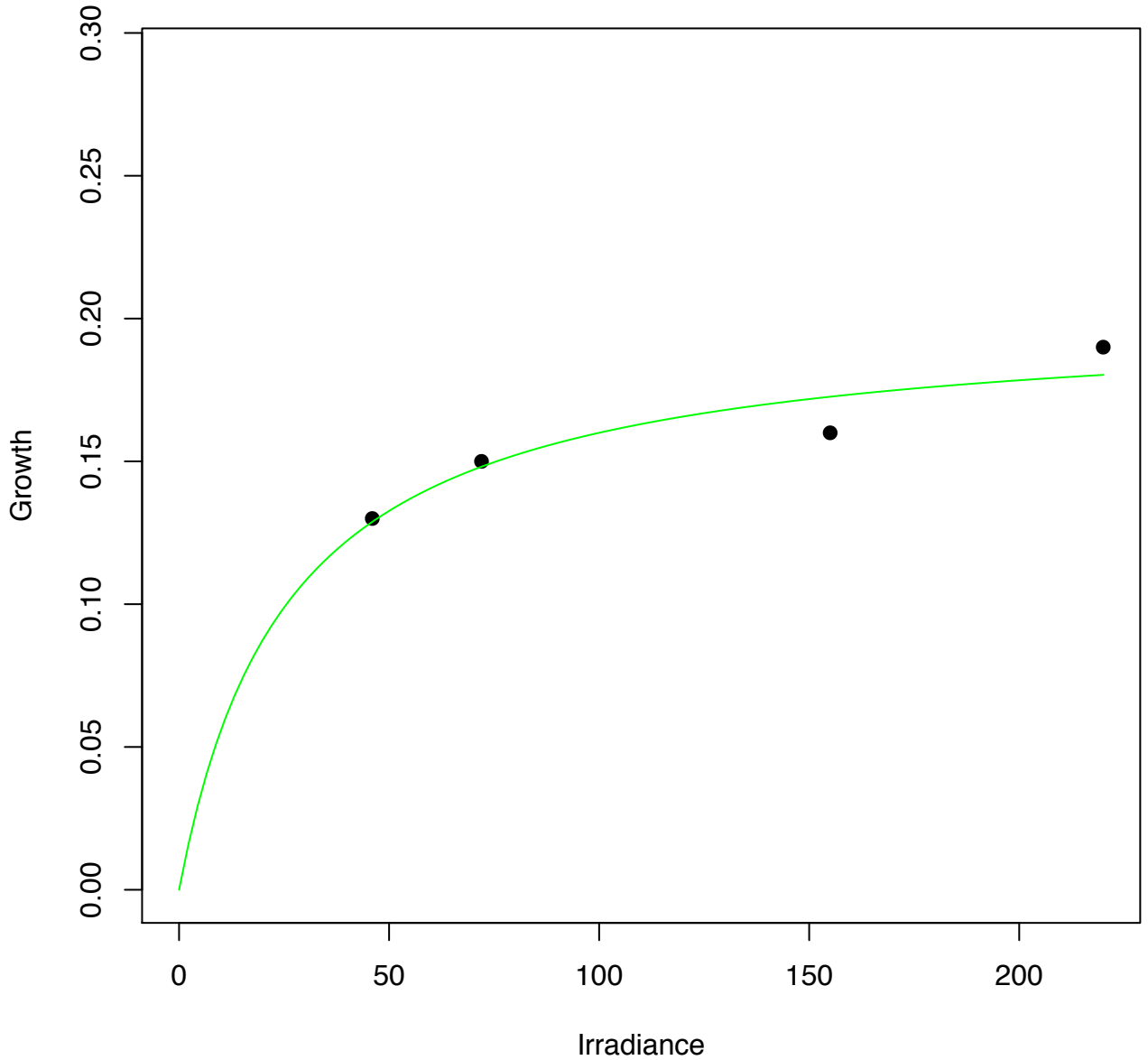
Leptocylindricus danicus 20°C



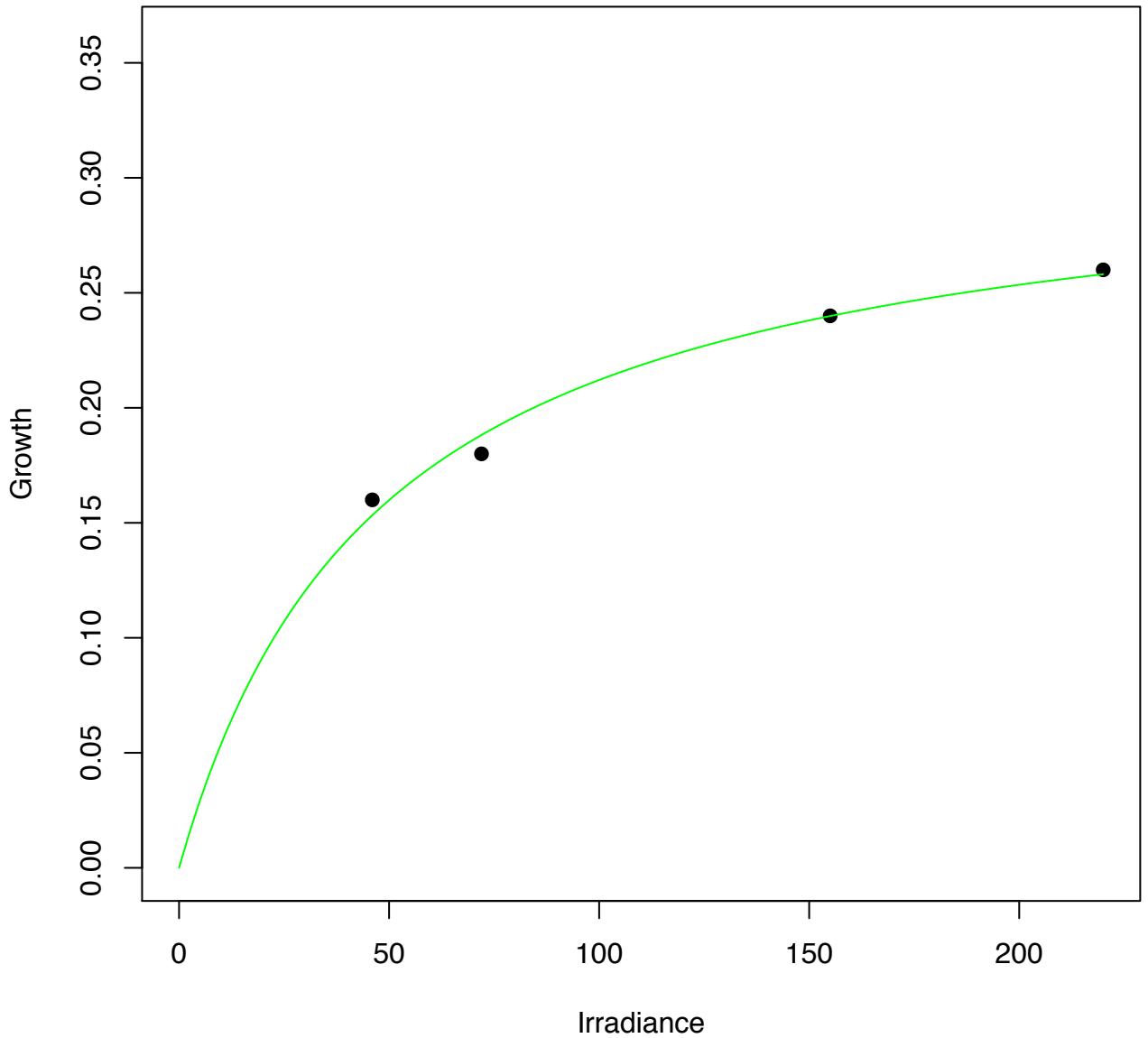
Corethron criophilum 0°C



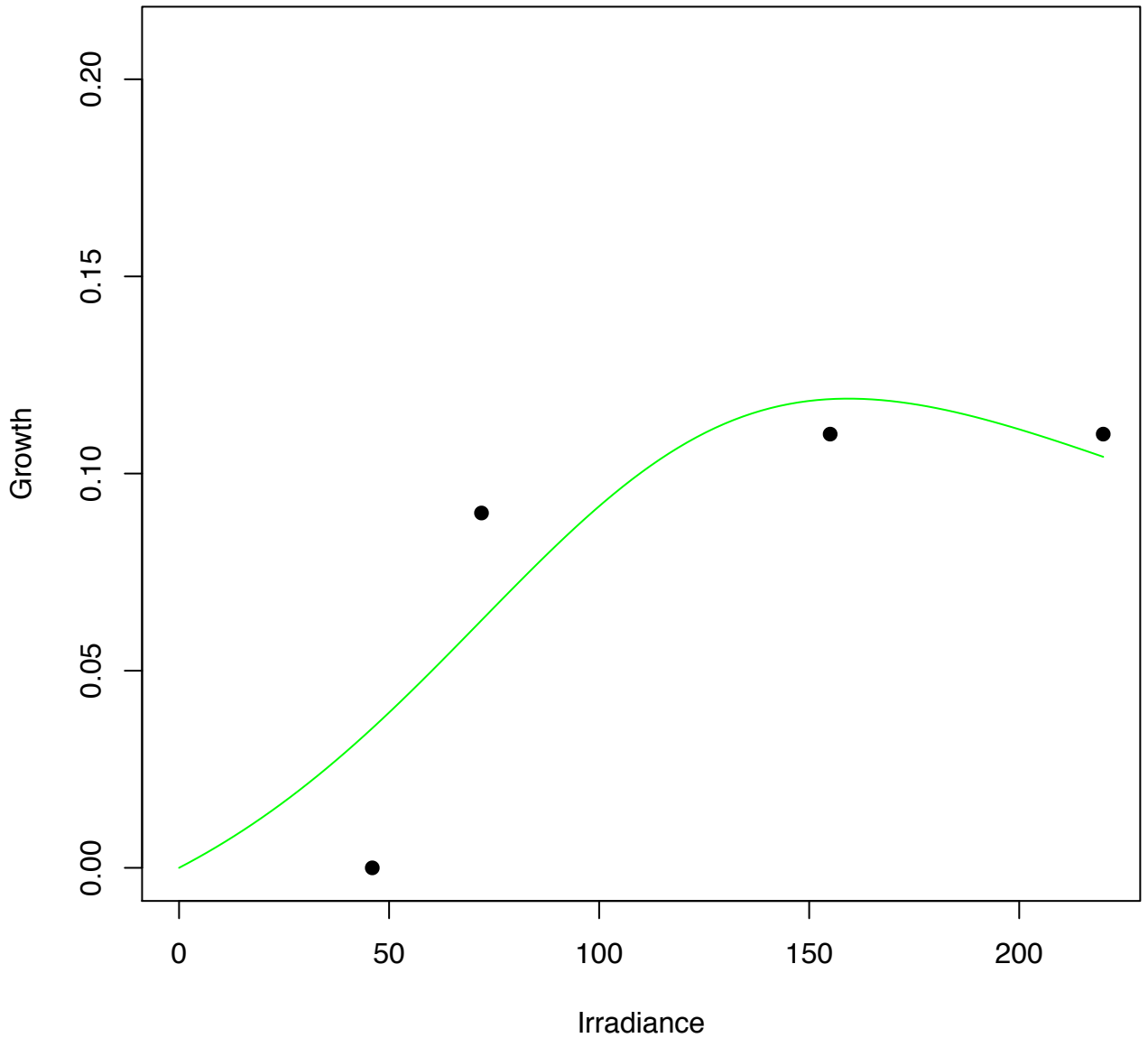
Corethron criophilum 2°C



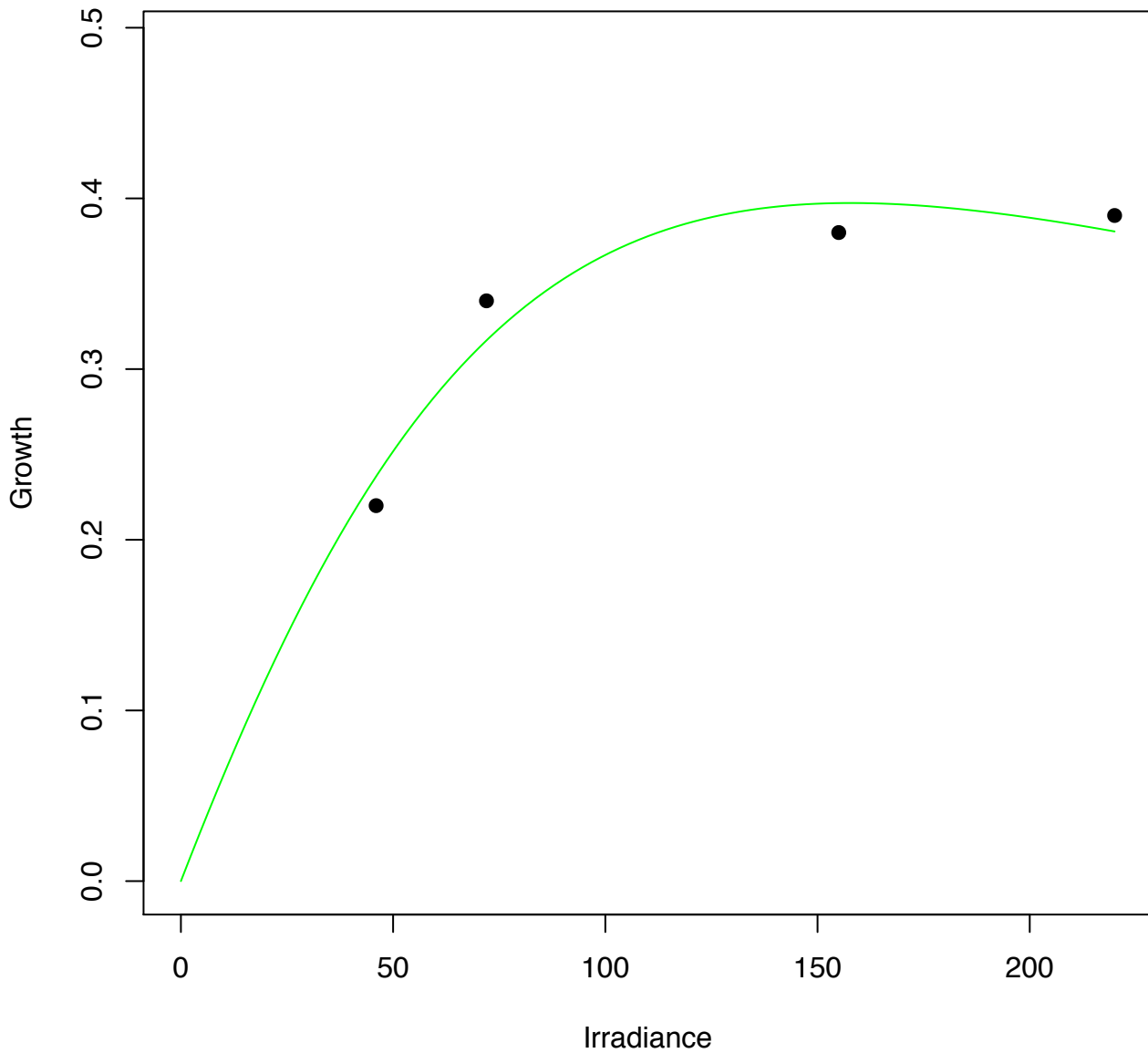
Corethron criophilum 4°C



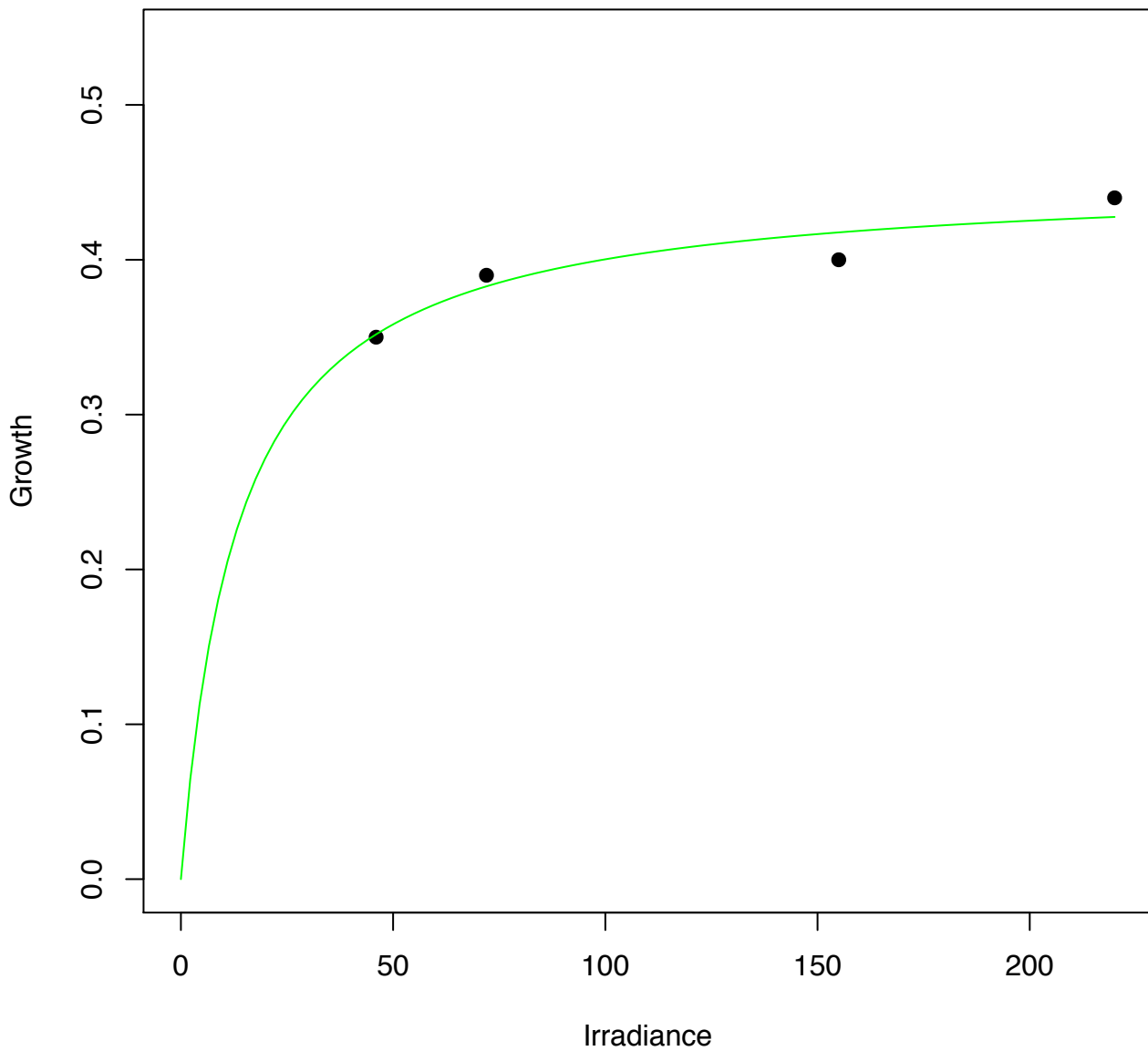
Corethron criophilum 5°C



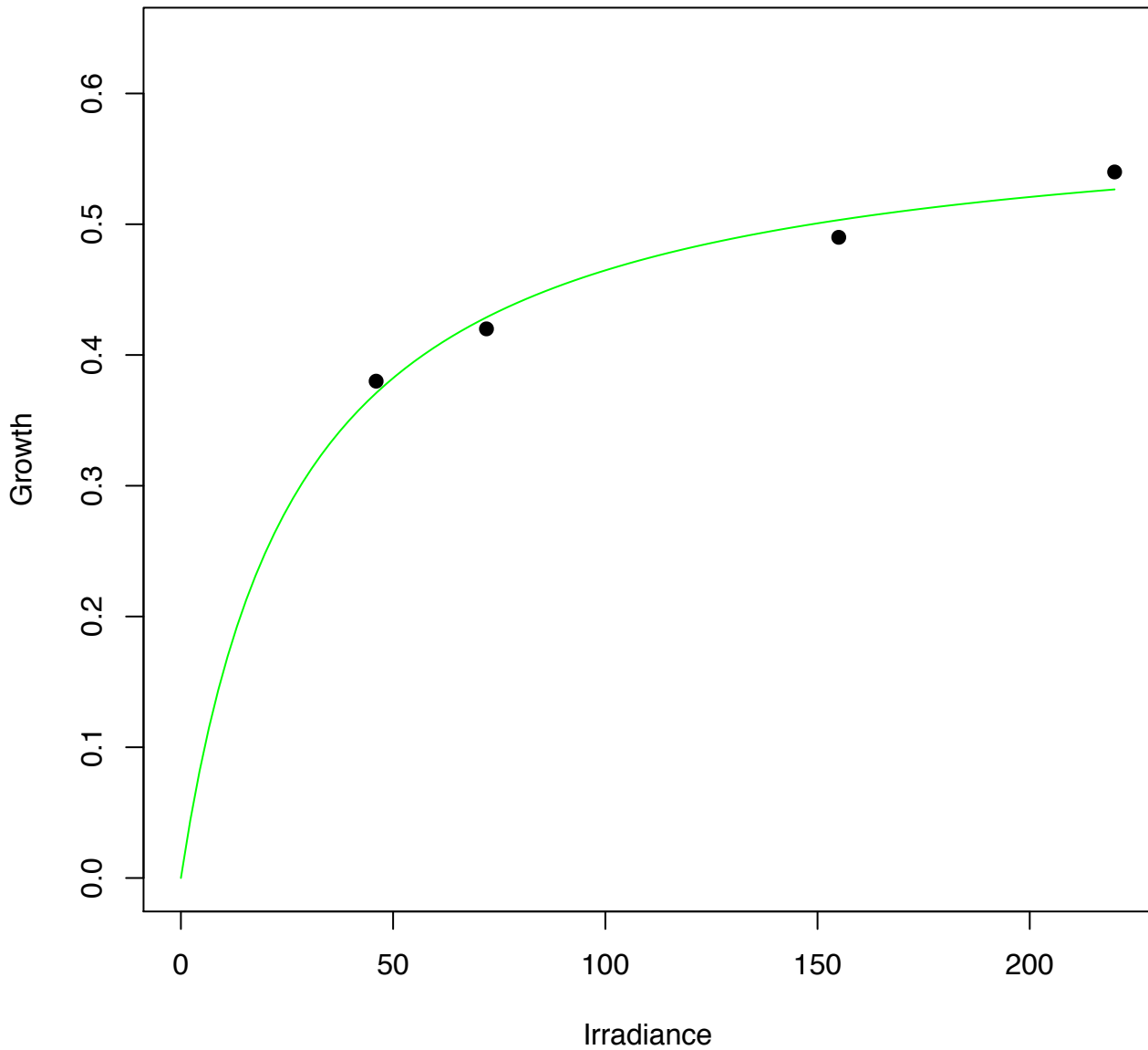
Nitzschia kerguelensis 0°C



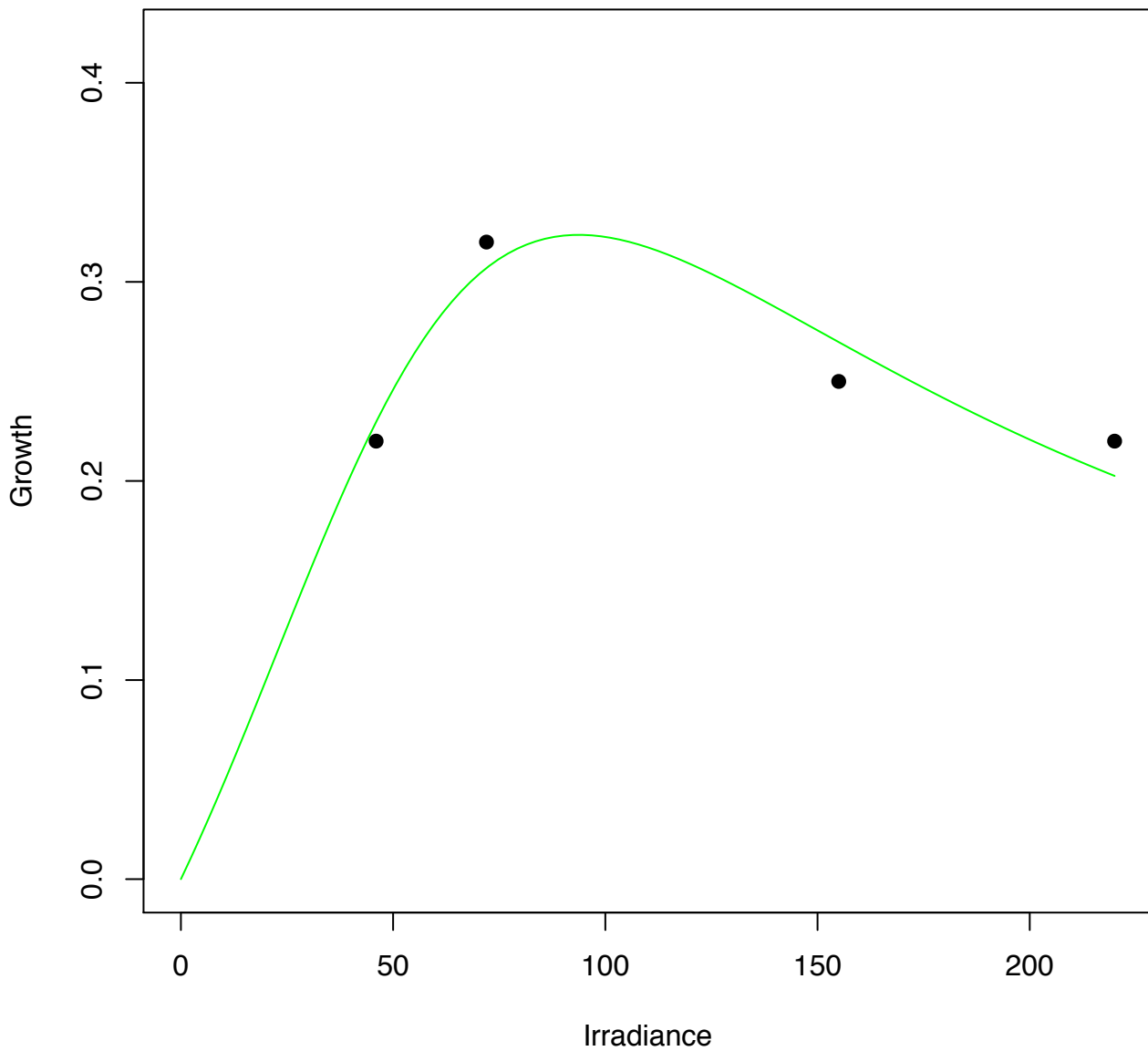
Nitzschia kerguelensis 3°C



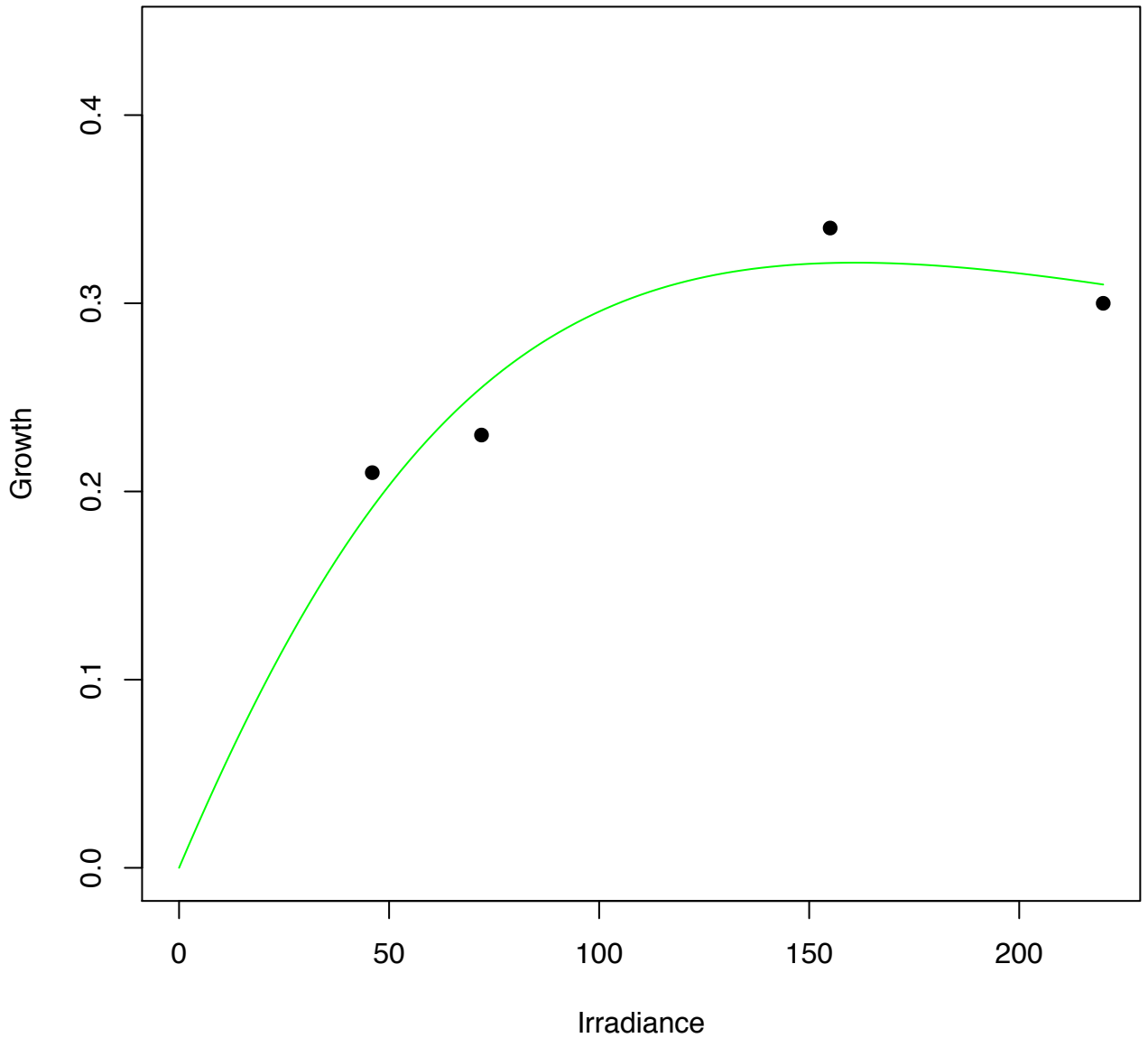
Nitzschia kerguelensis 4°C



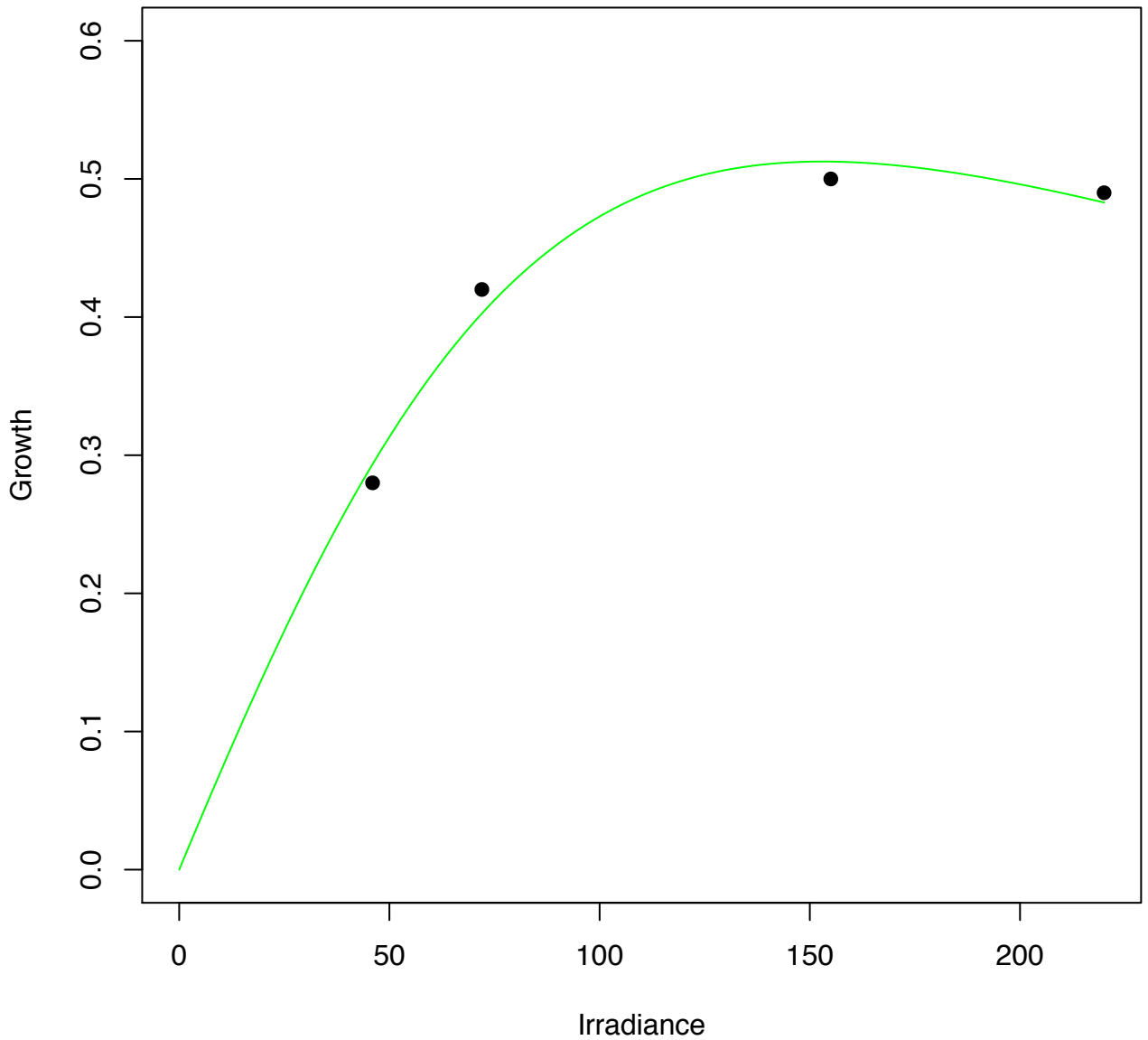
Nitzschia kerguelensis 7°C



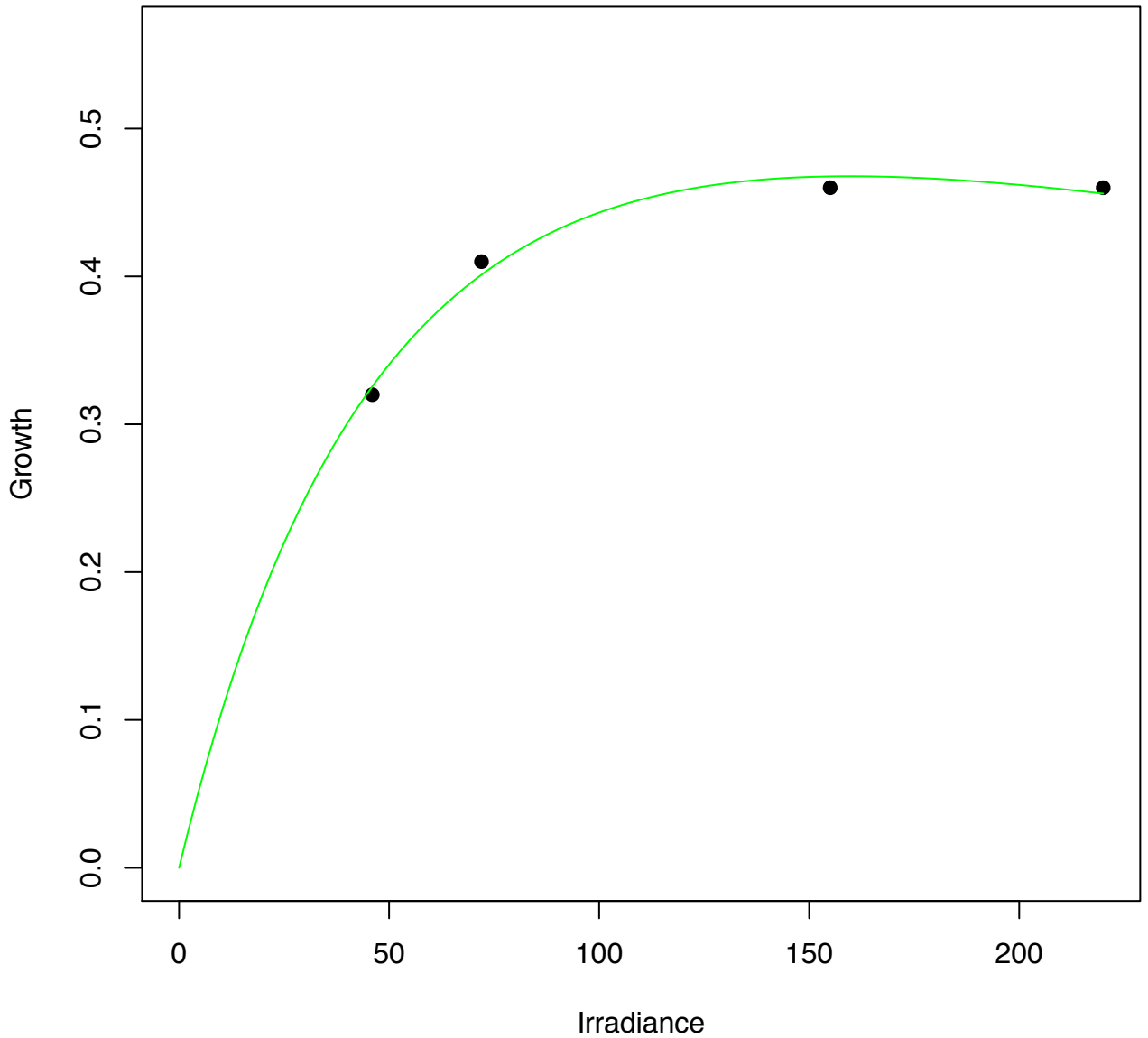
Nitzschia turgiduloides 1°C



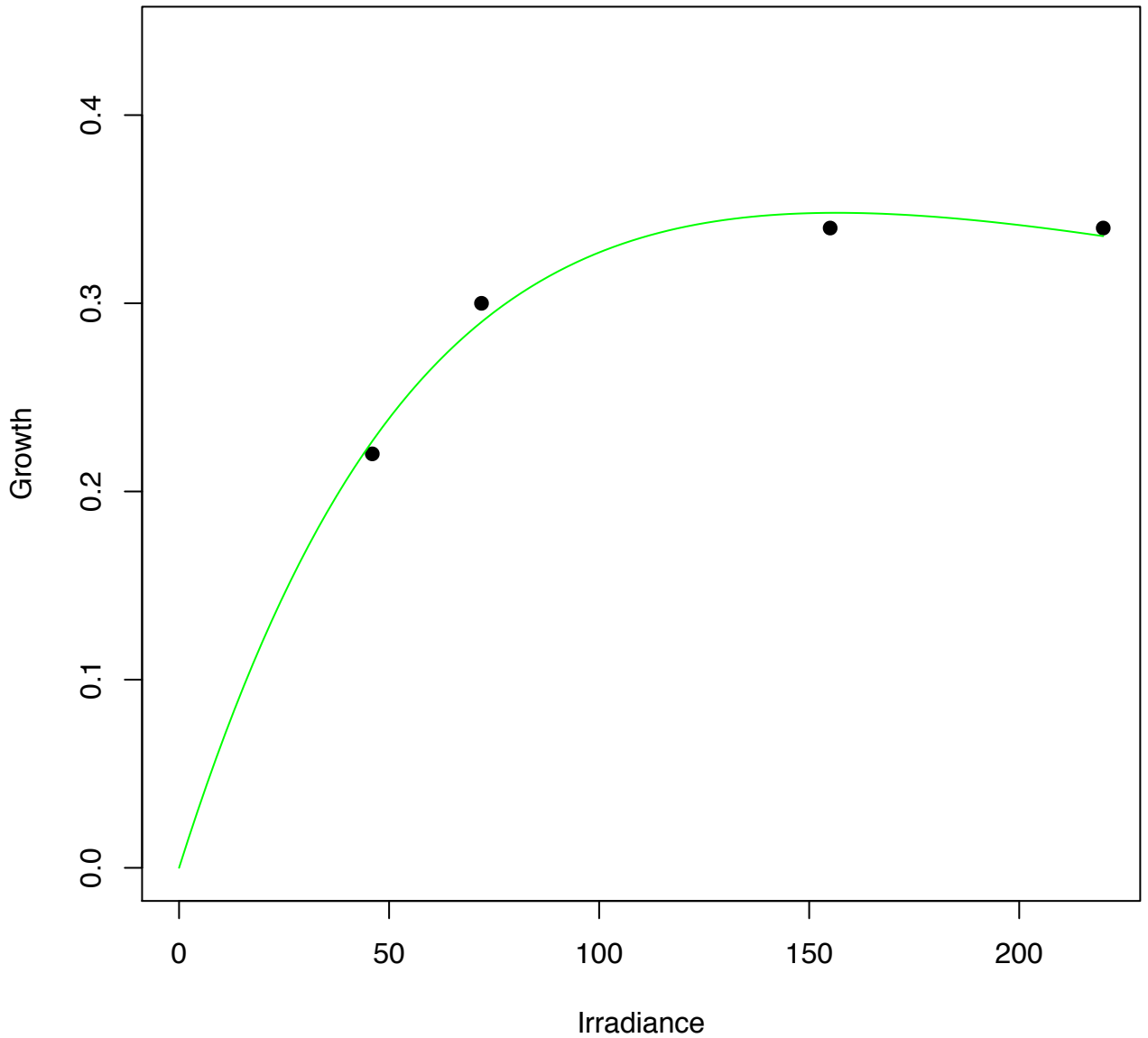
Nitzschia turgiduloides 3°C



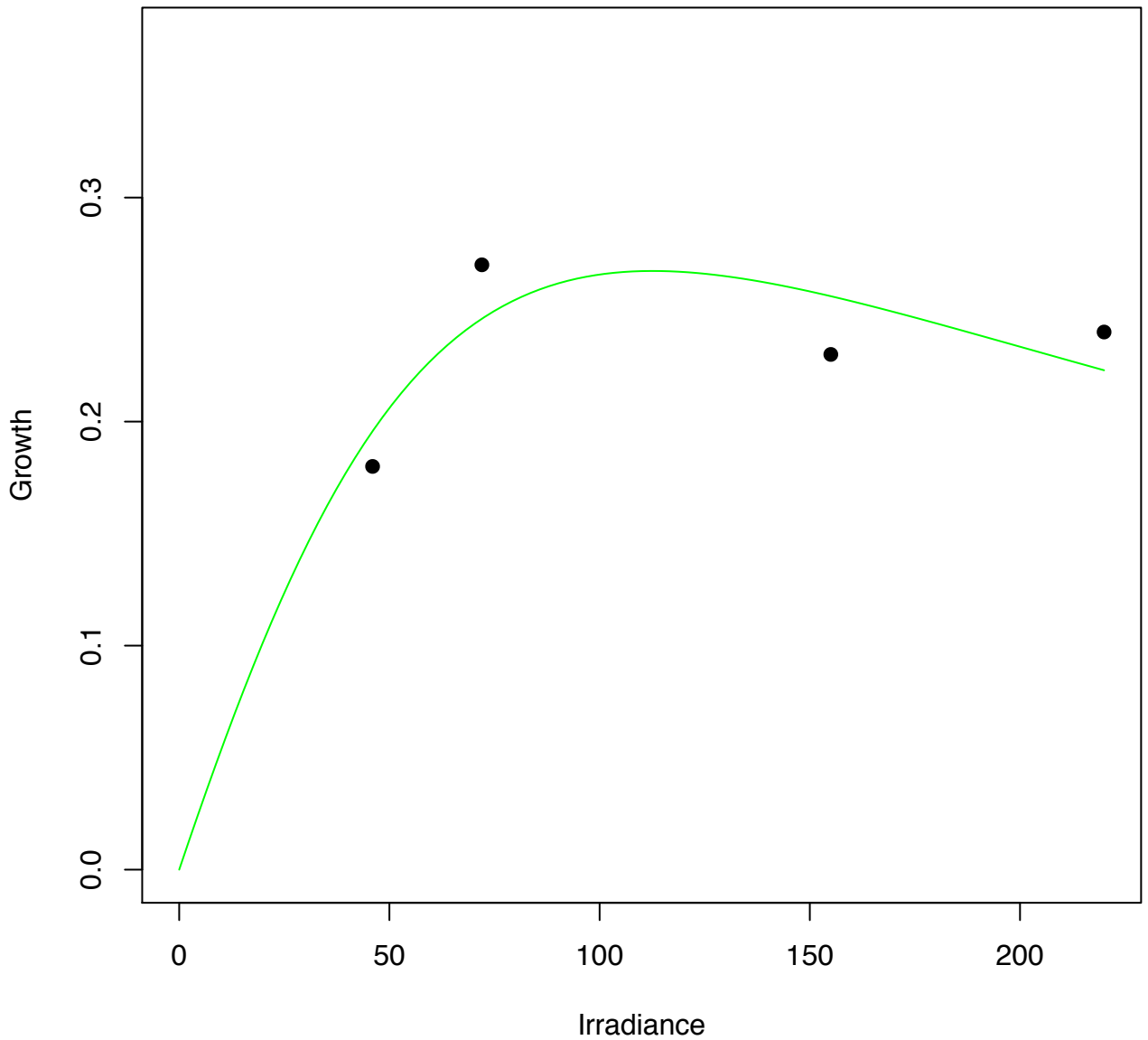
Nitzschia turgiduloides 5°C



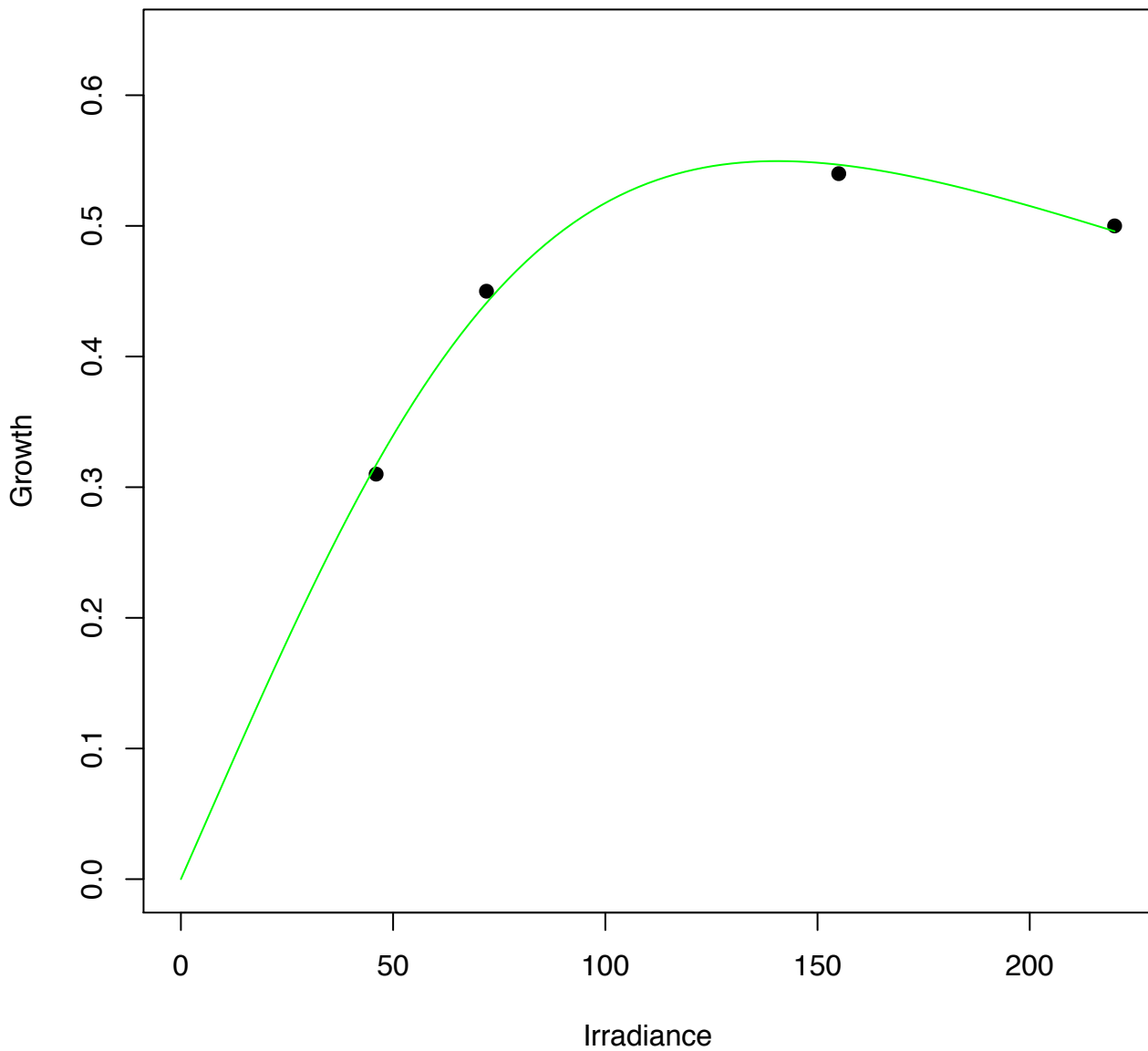
Nitzschia turgiduloides 7°C



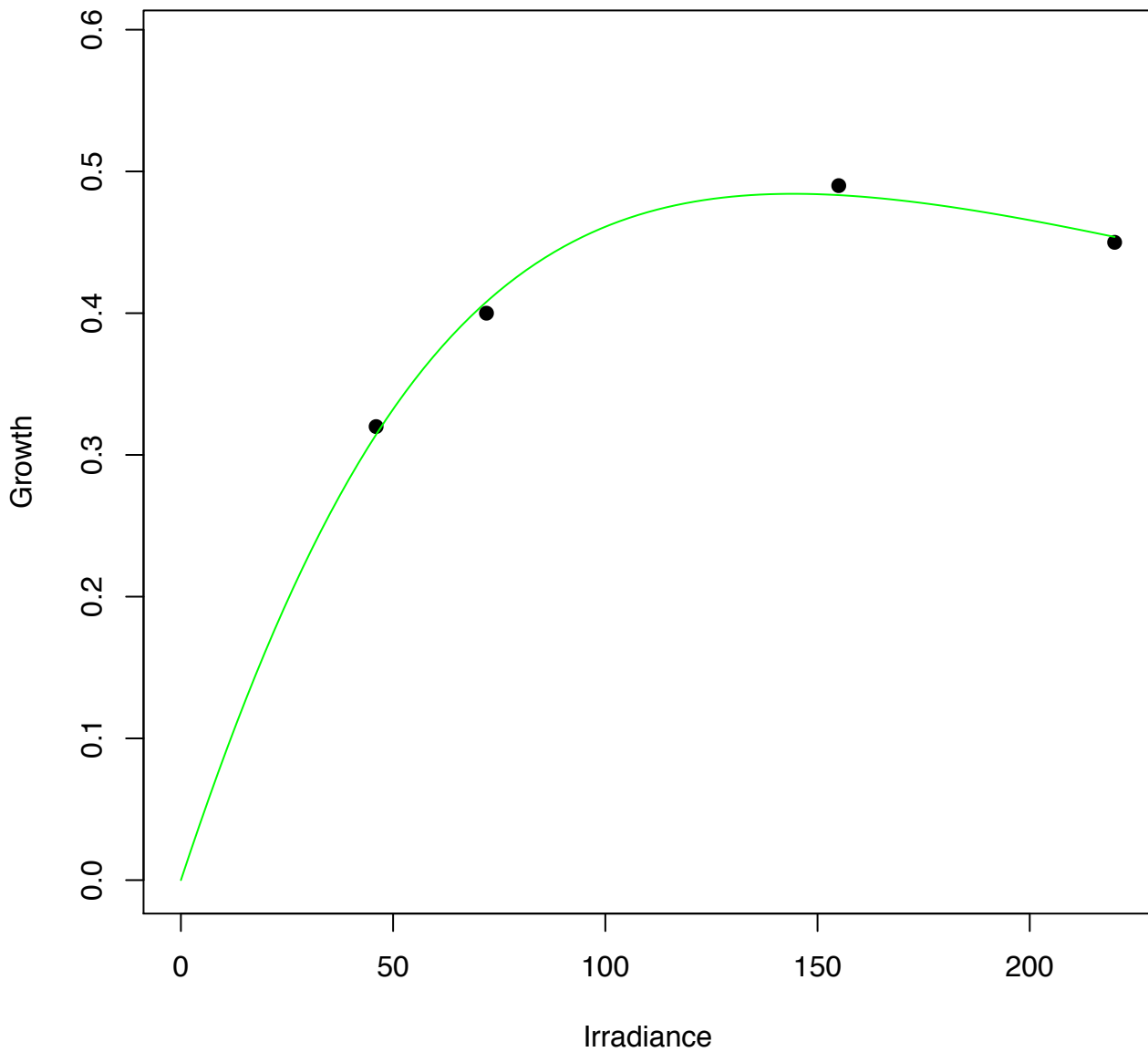
Nitzschia turgiduloides 8°C



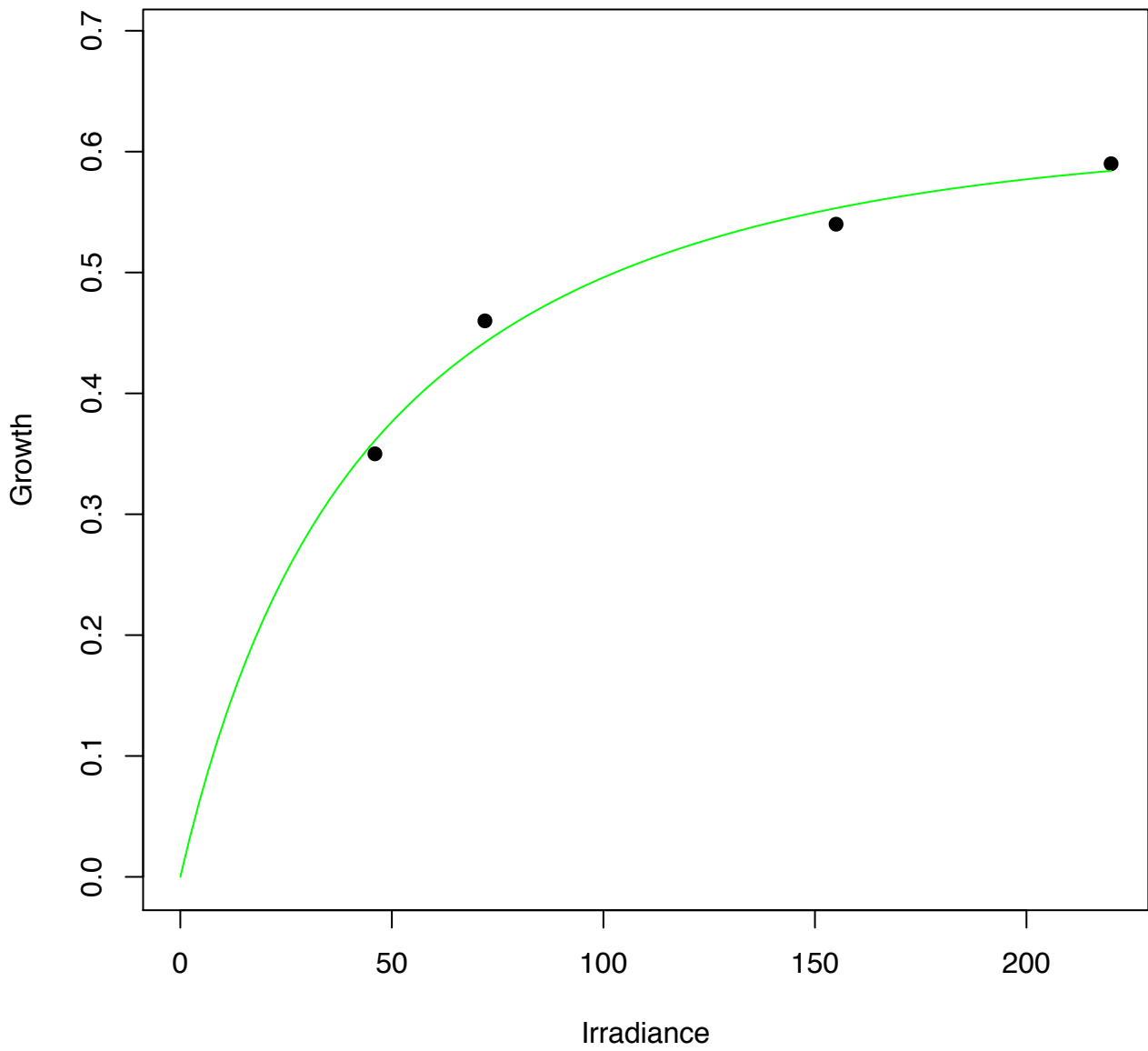
Nitzschia cylindrus 0°C



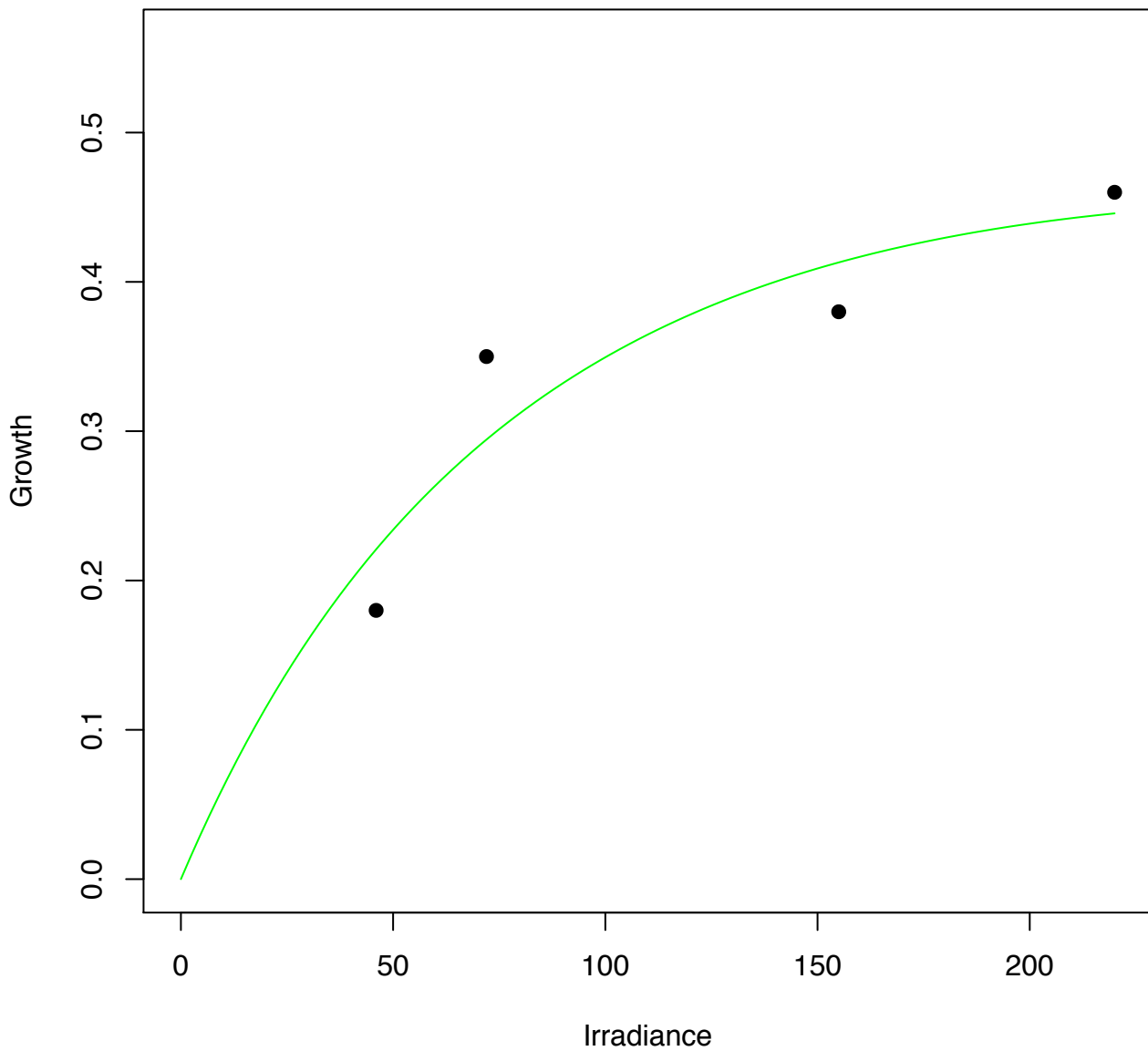
Nitzschia cylindrus 3°C



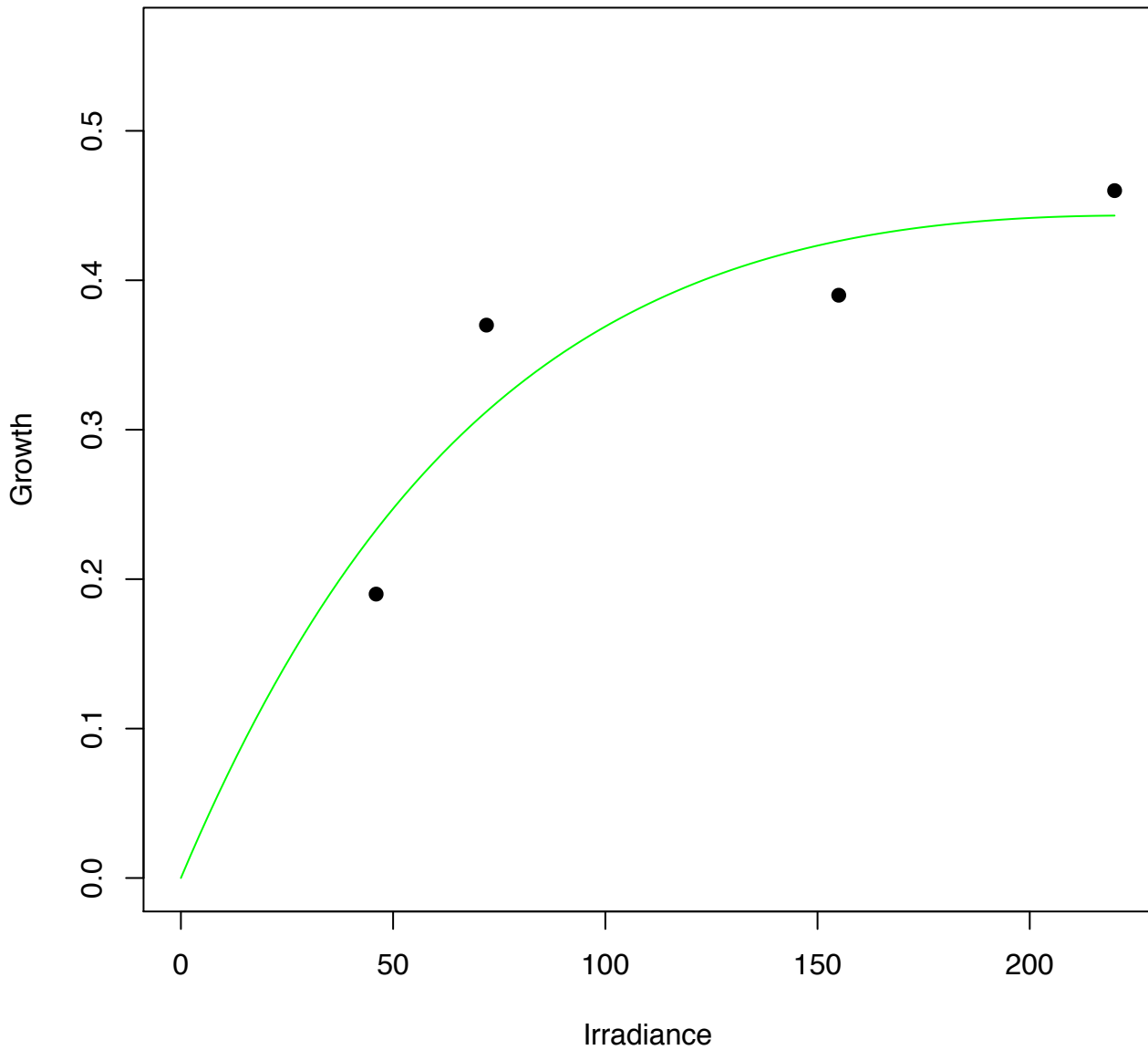
Nitzschia cylindrus 5°C



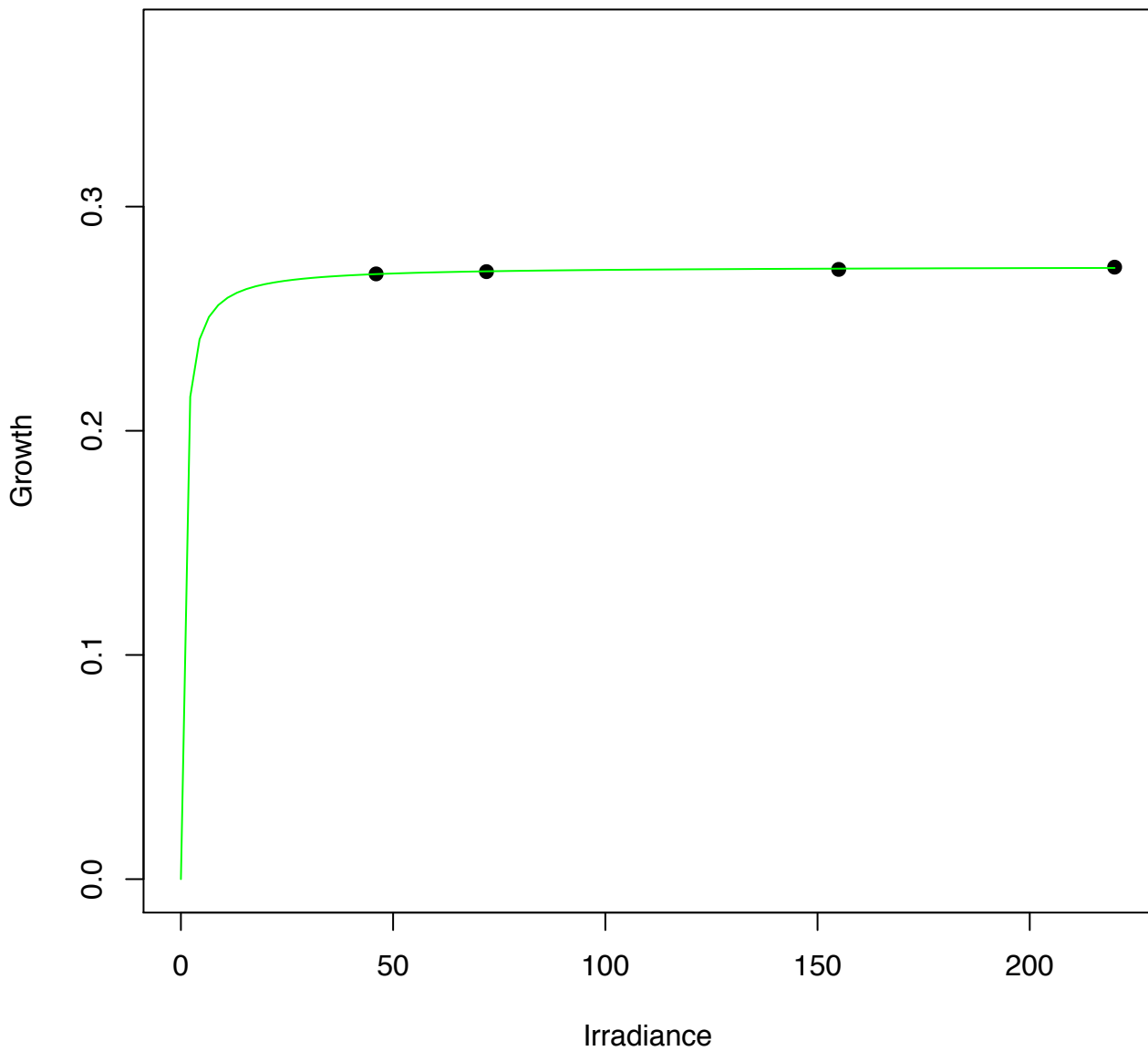
Nitzschia cylindrus 7°C



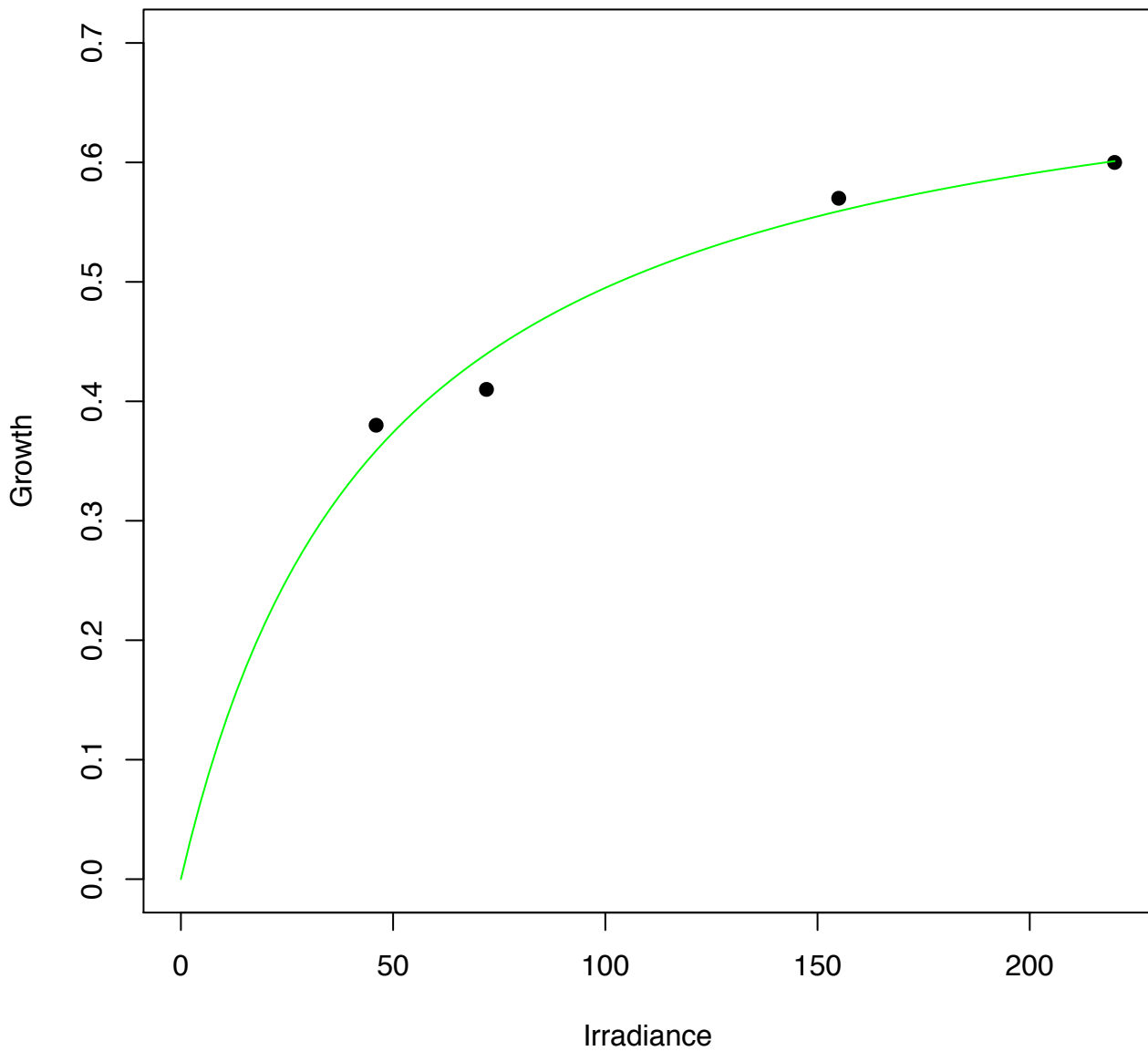
Nitzschia cylindrus 9°C



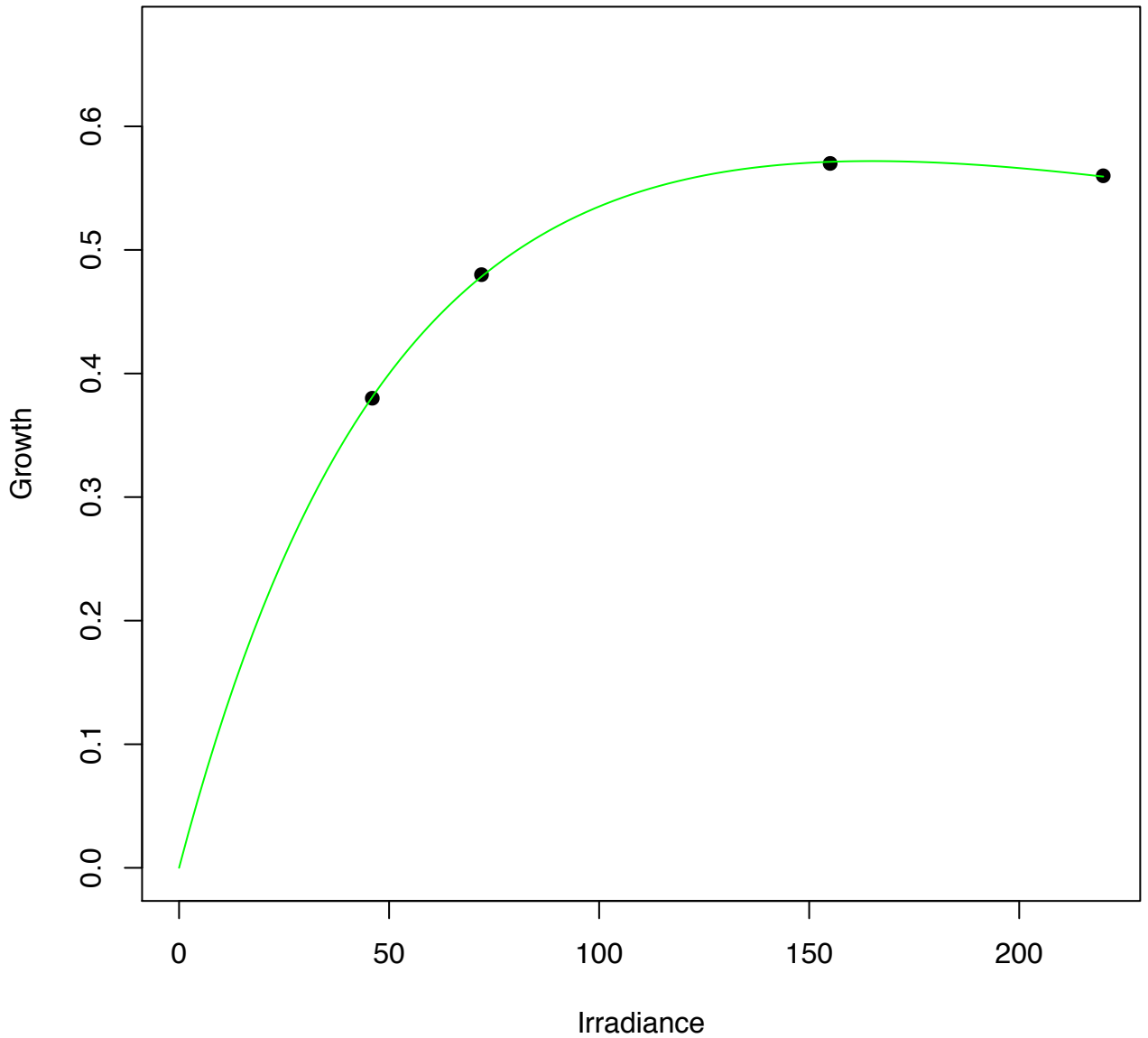
Chaetoceros deflandrei 2°C



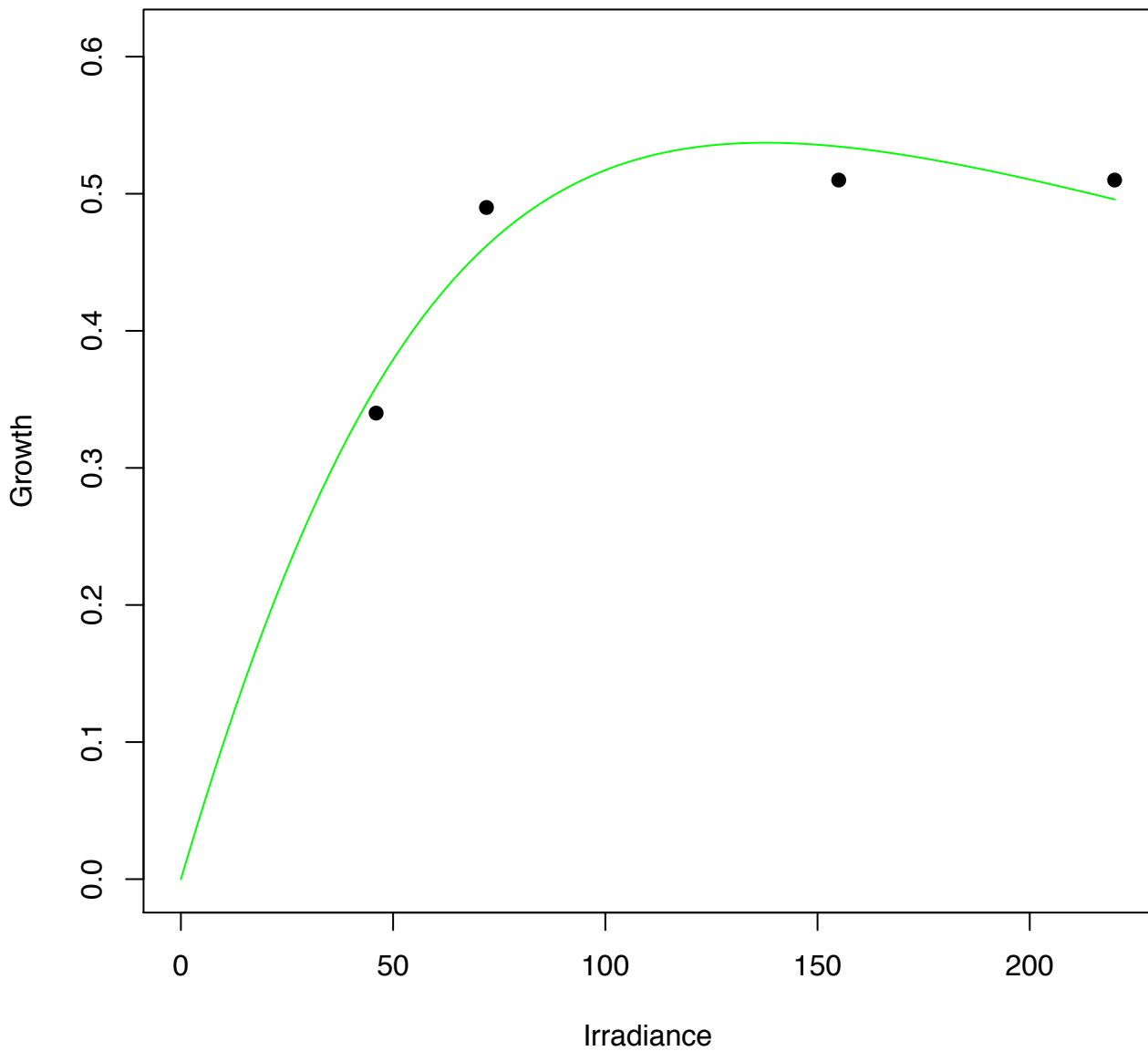
Chaetoceros deflandrei 5°C



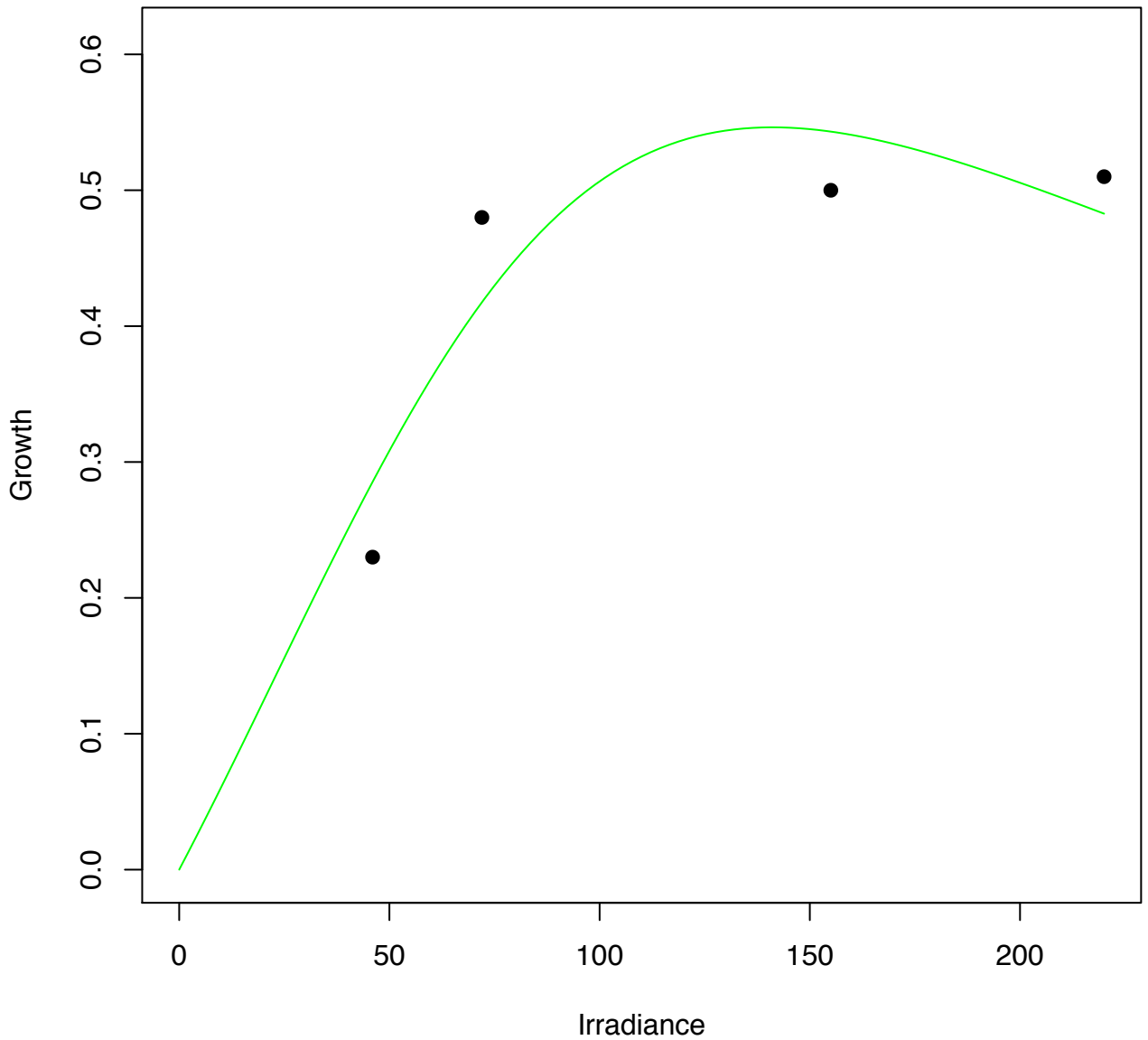
Chaetoceros deflandrei 7°C



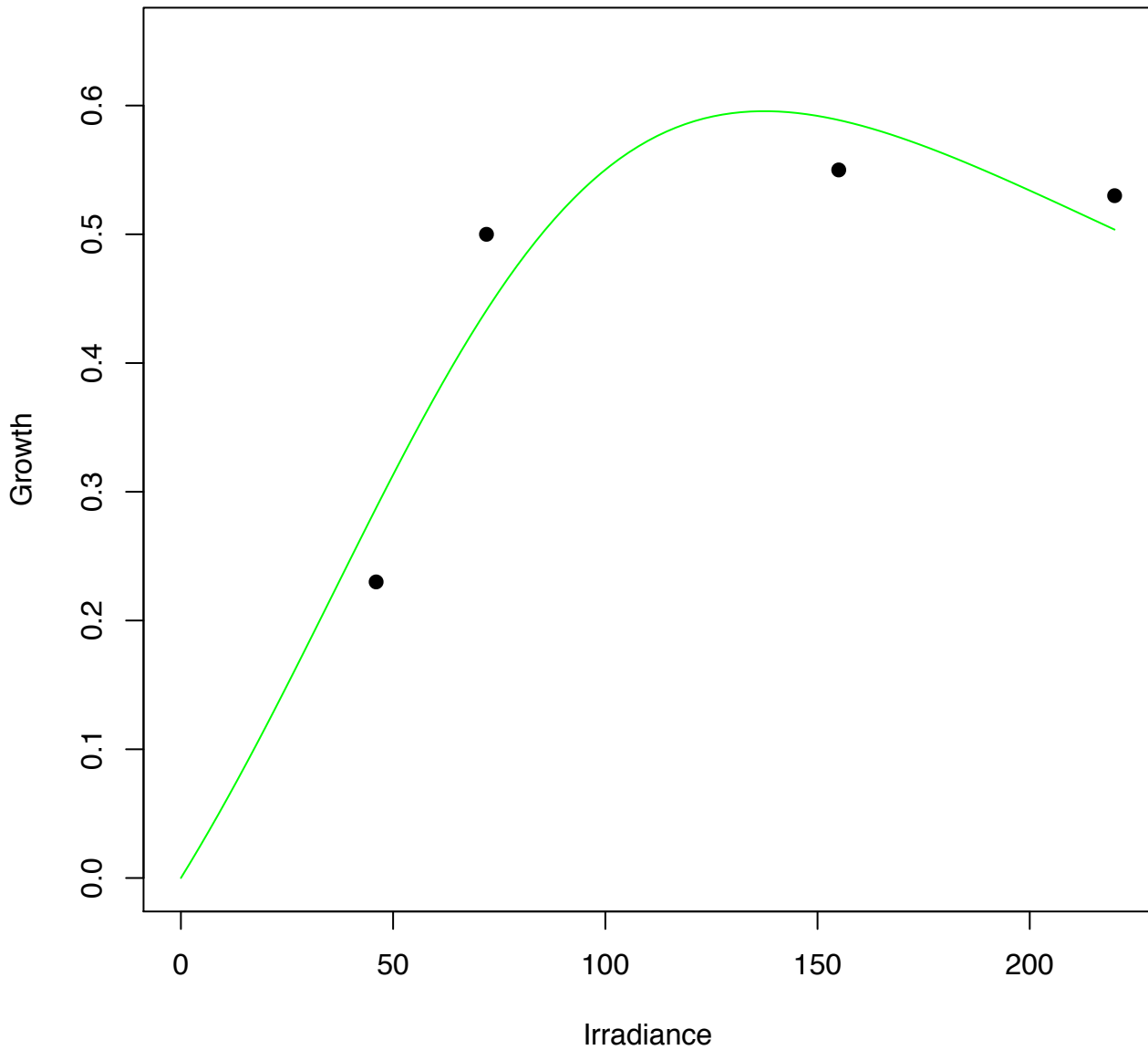
Chaetoceros deflandrei 10°C



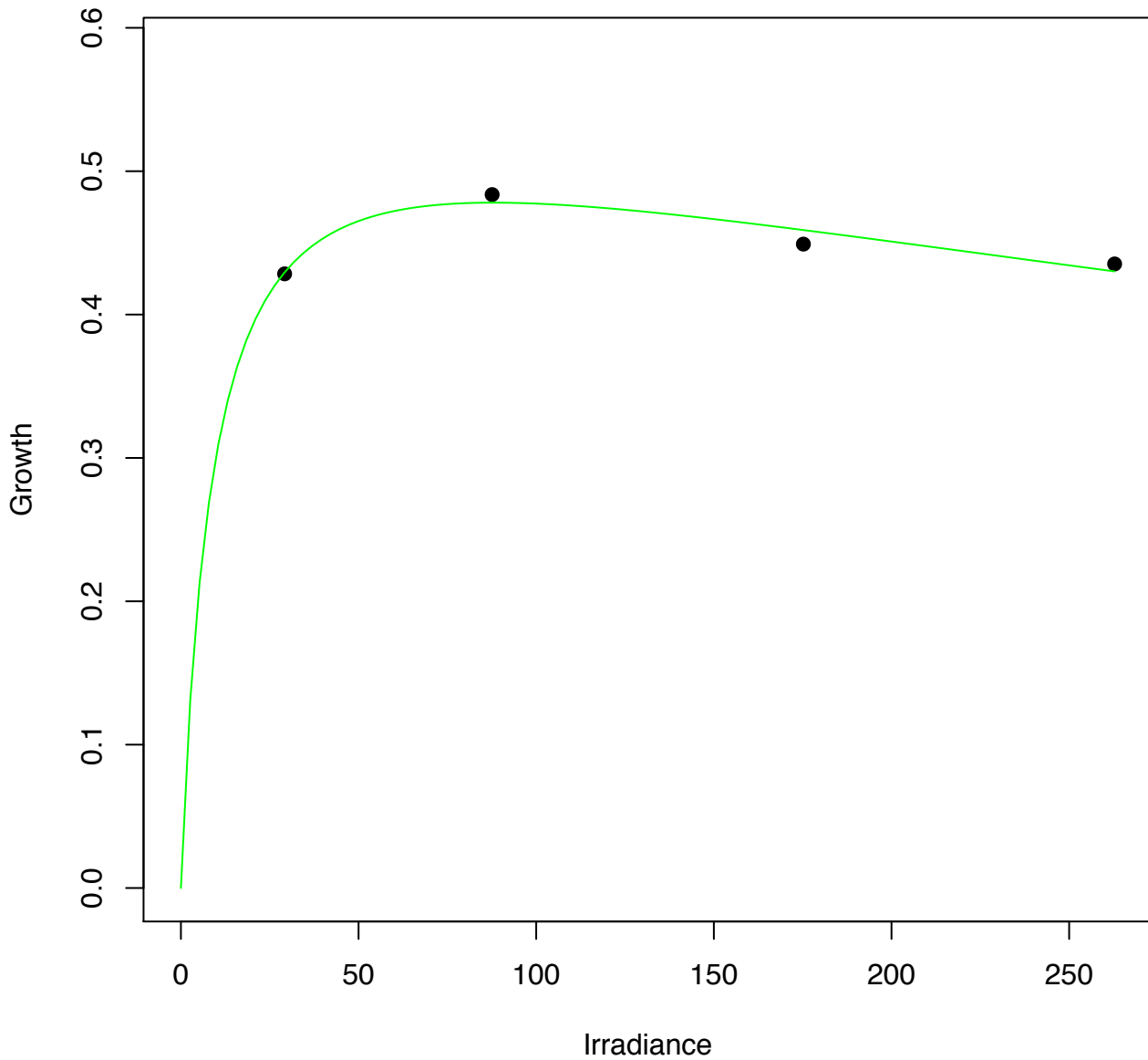
Chaetoceros deflandrei 13°C



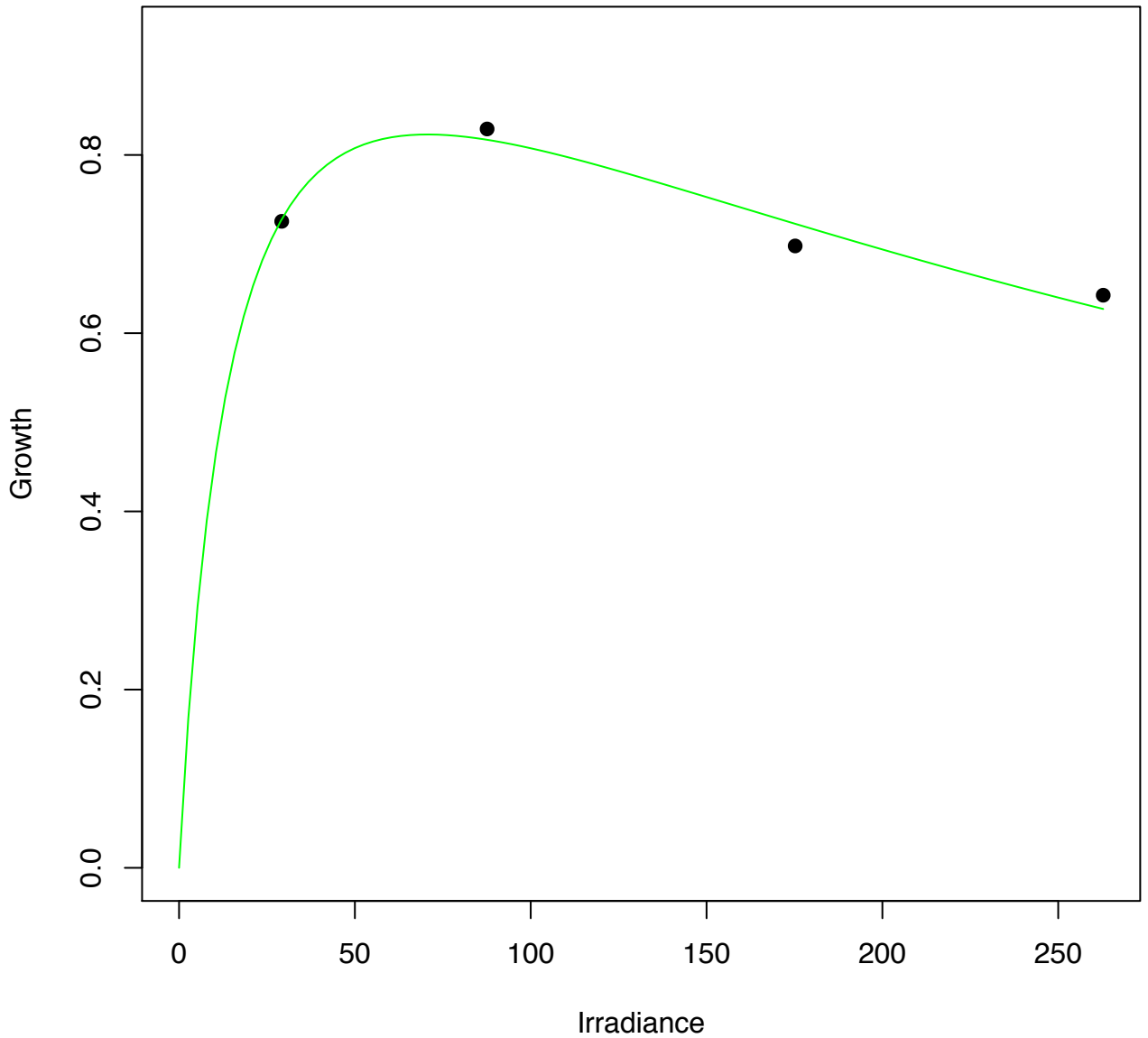
Chaetoceros deflandrei 15°C



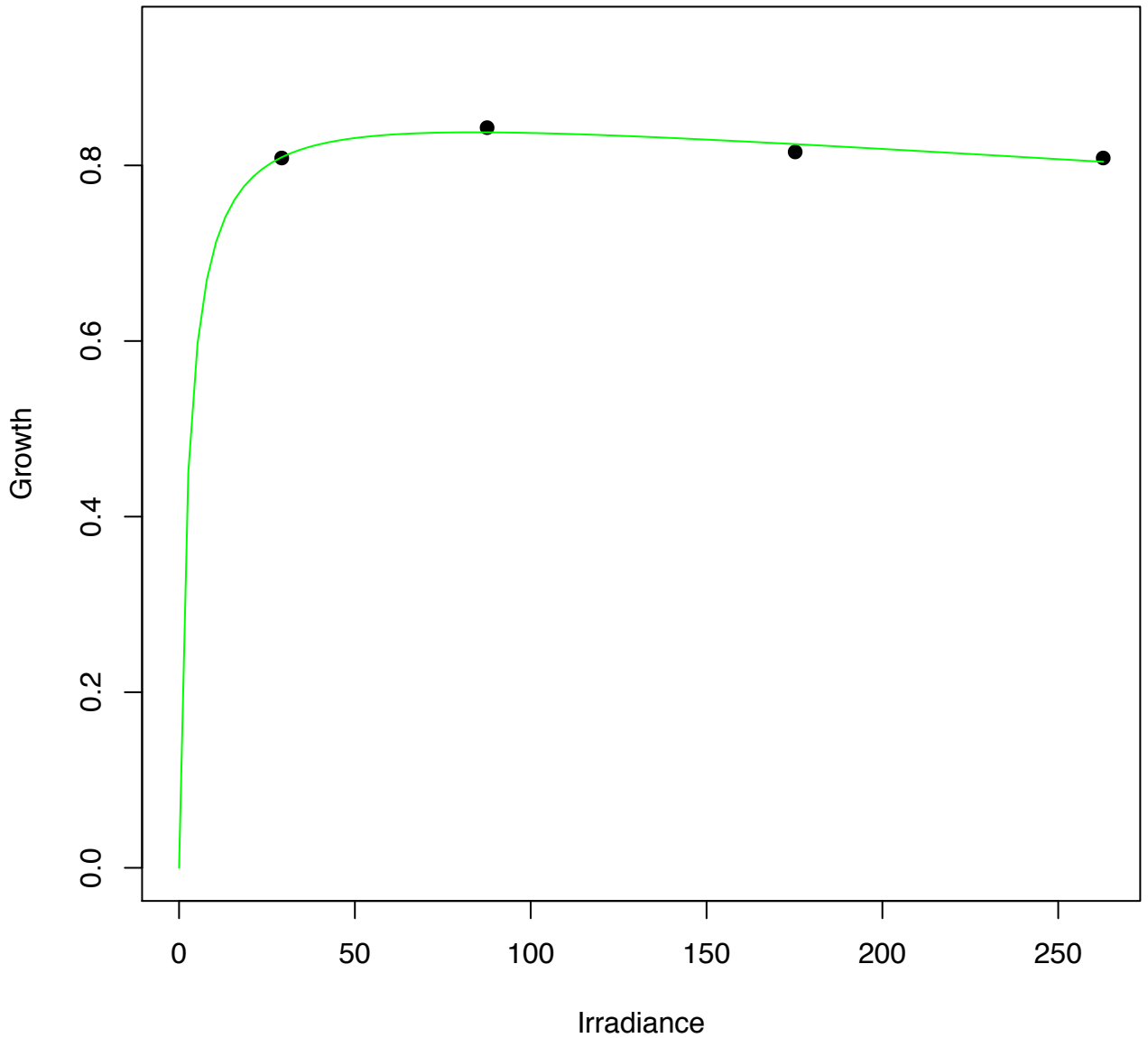
Rhizosolenia fragilissima 9°C



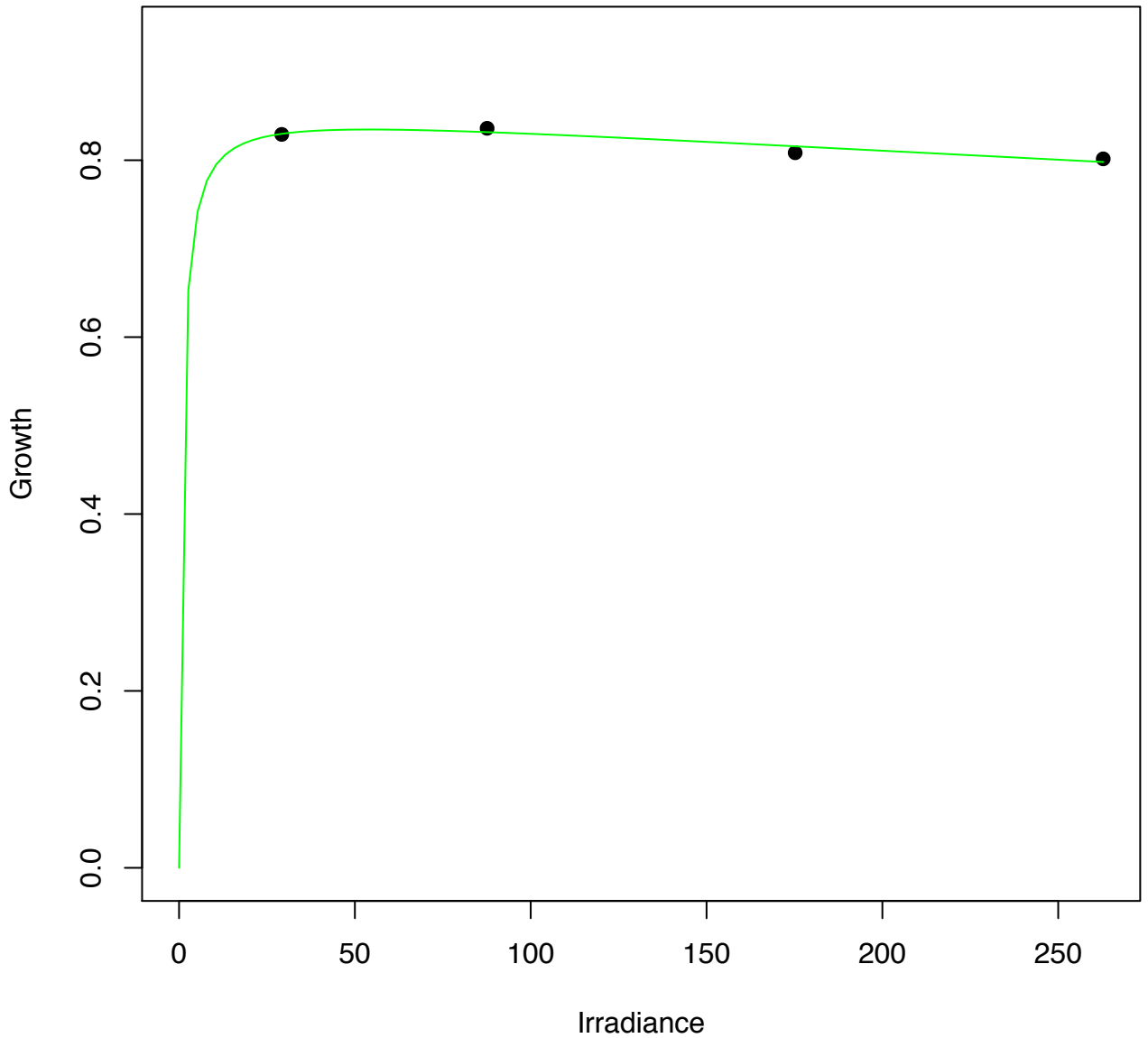
Rhizosolenia fragilissima 12°C



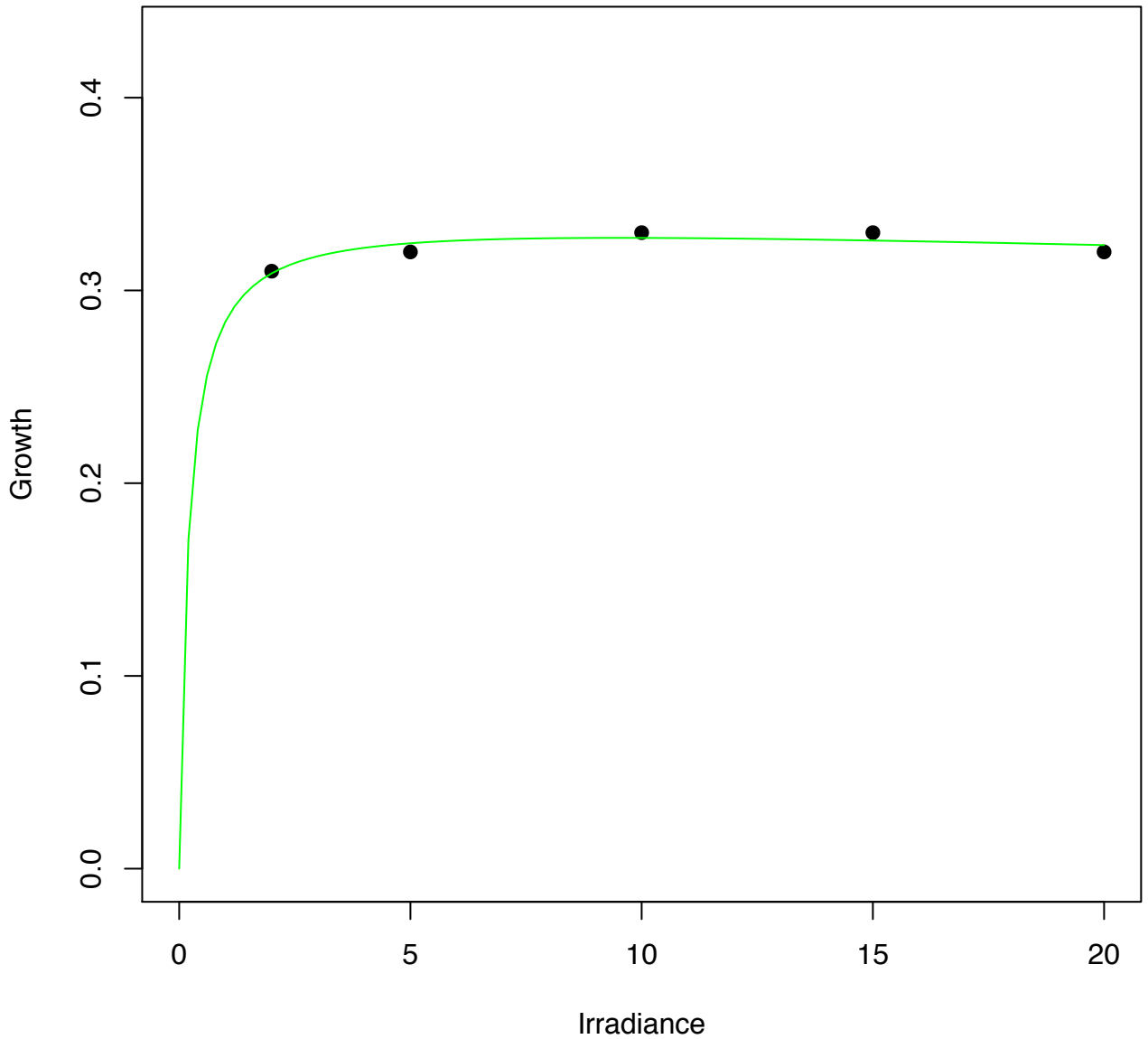
Rhizosolenia fragilissima 18°C



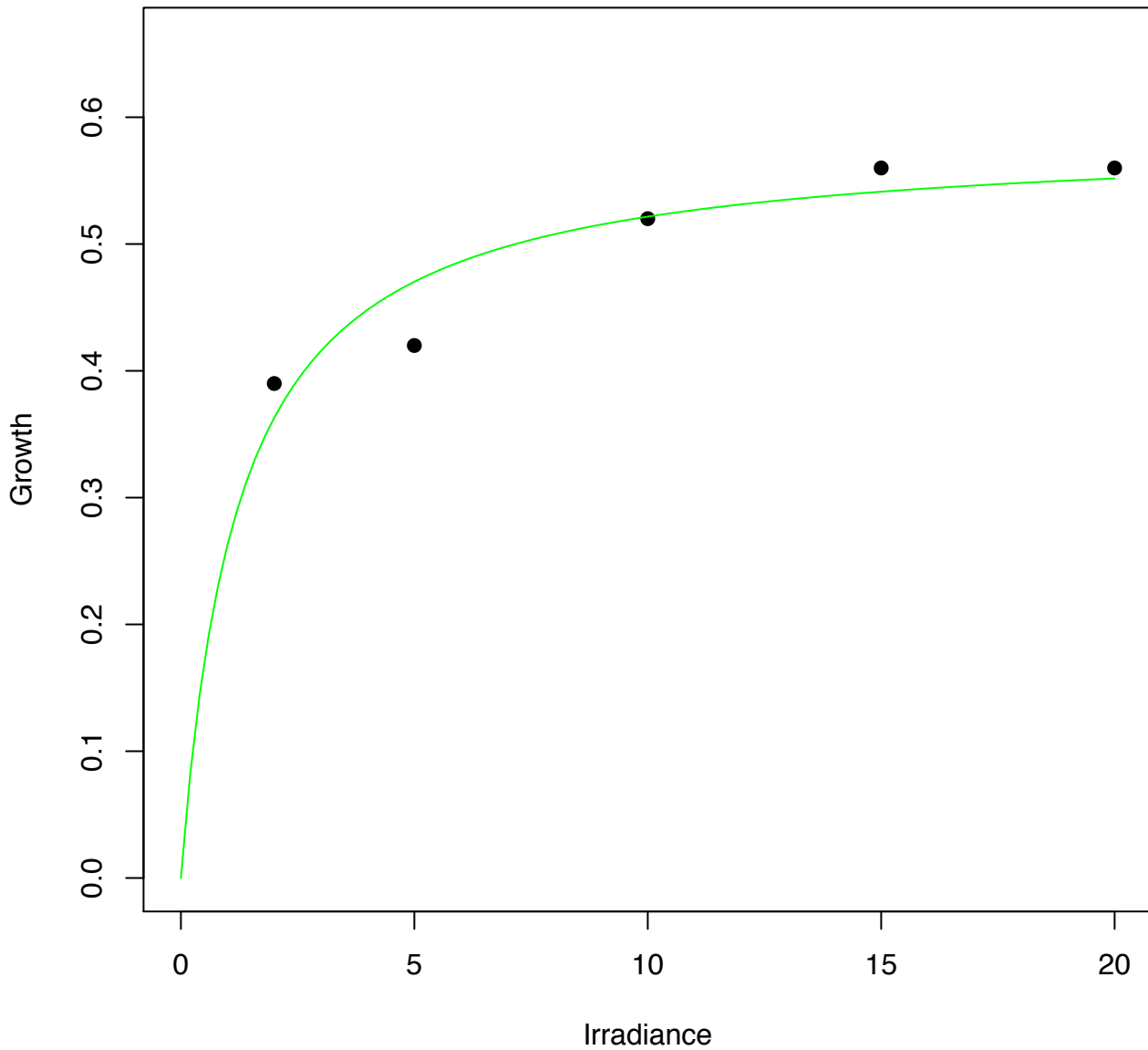
Rhizosolenia fragilissima 25°C



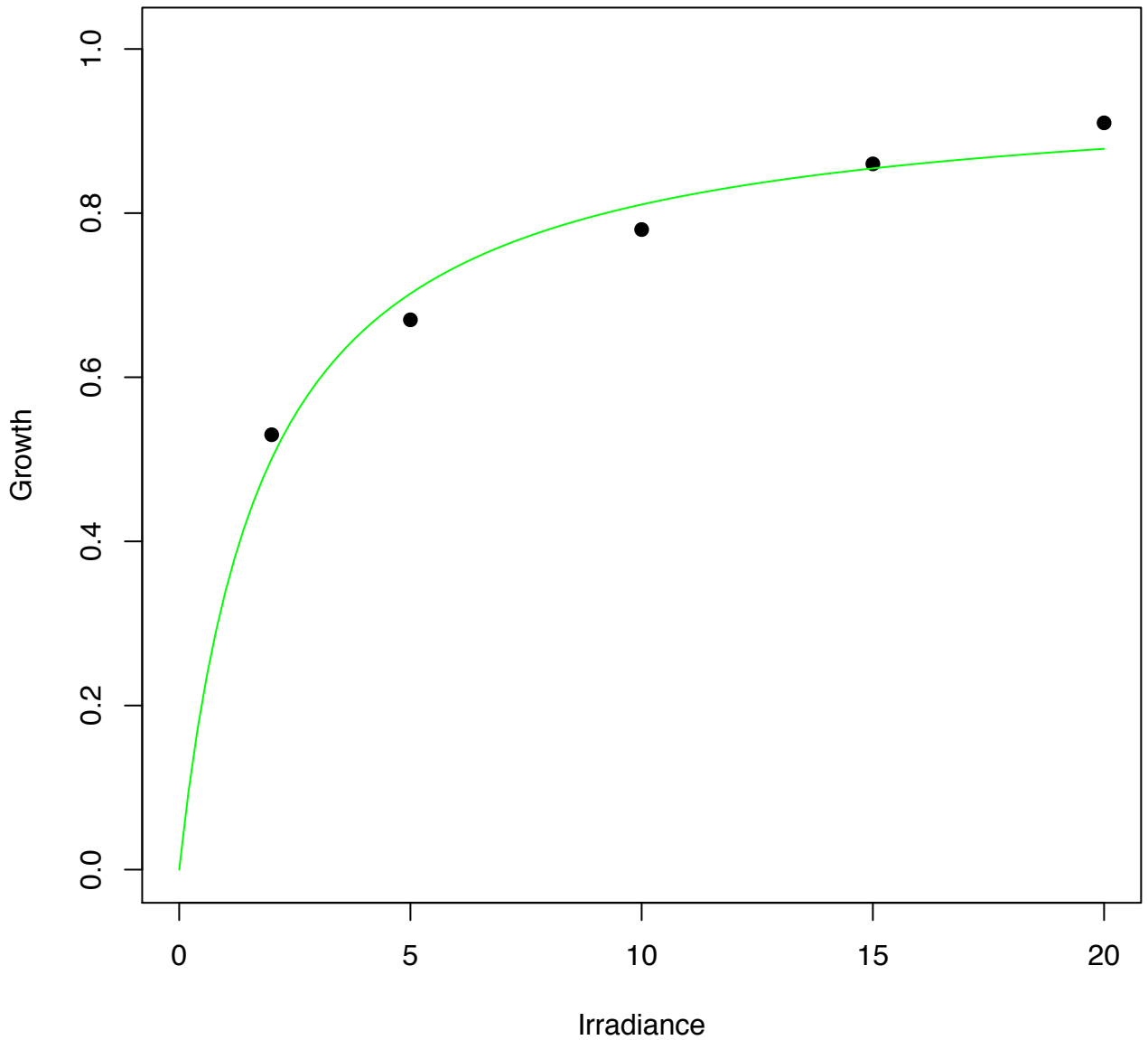
Fragilaria barbararum 0°C



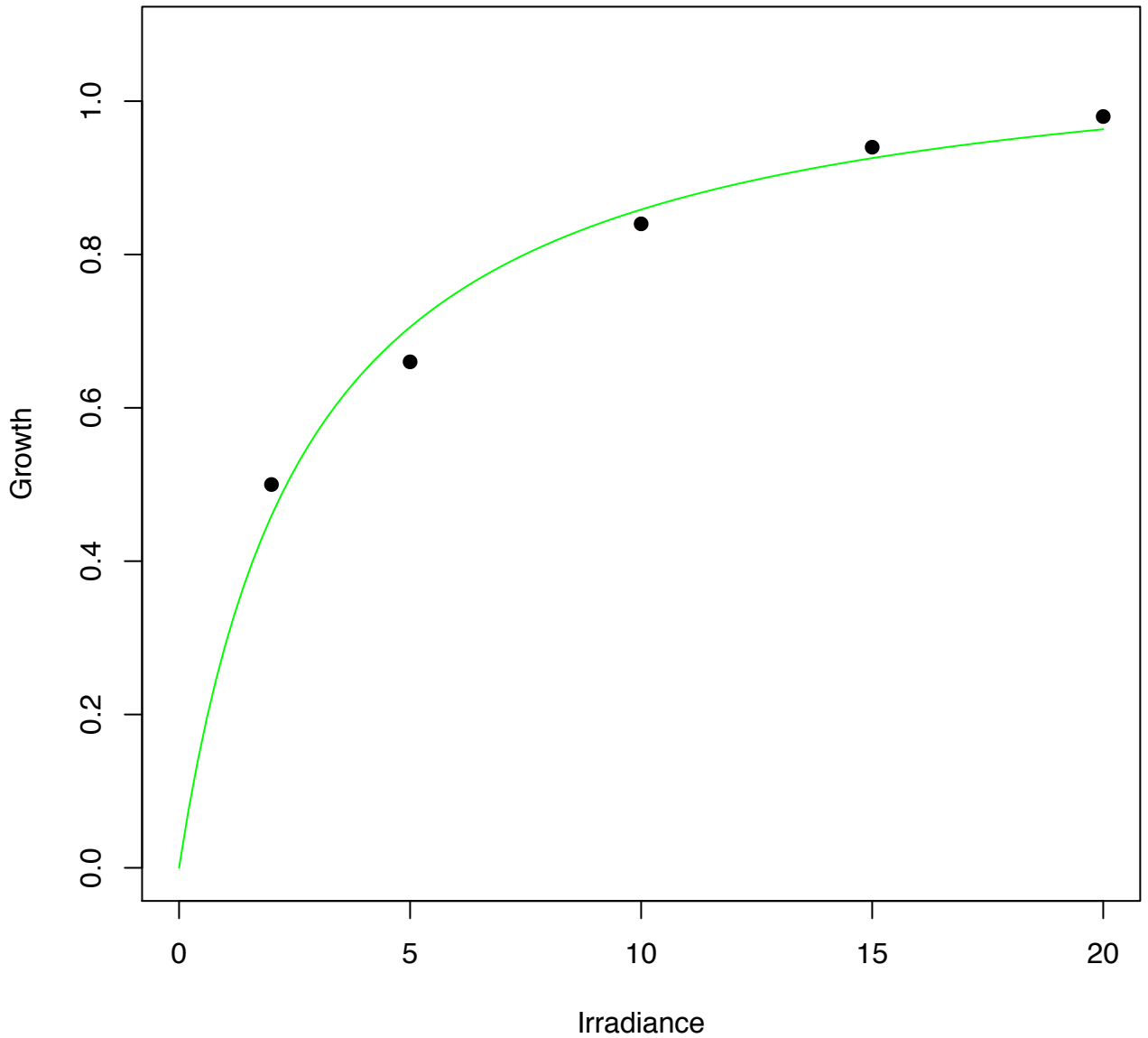
Fragilaria barbararum 5°C



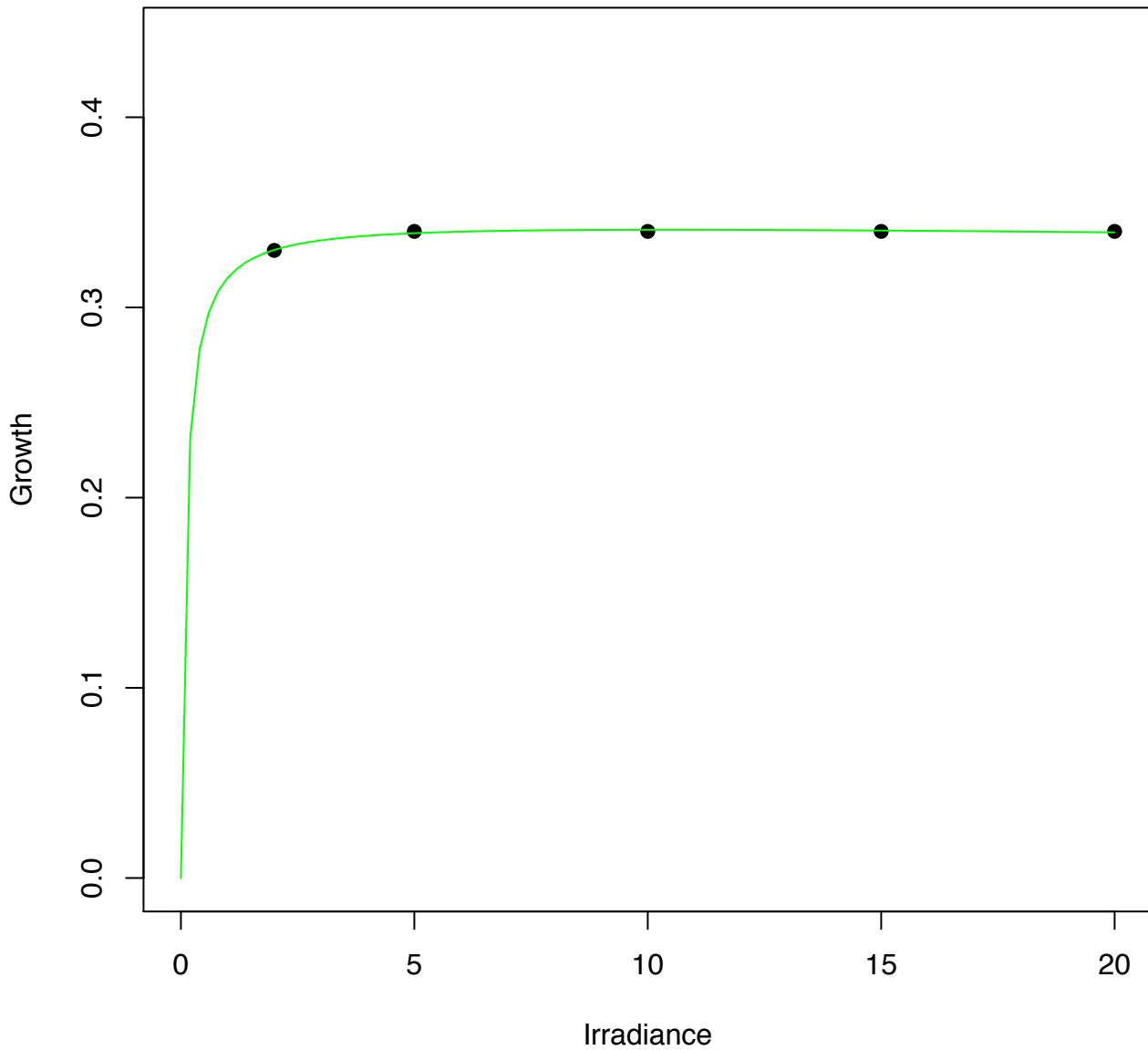
Fragilaria barbararum 10°C



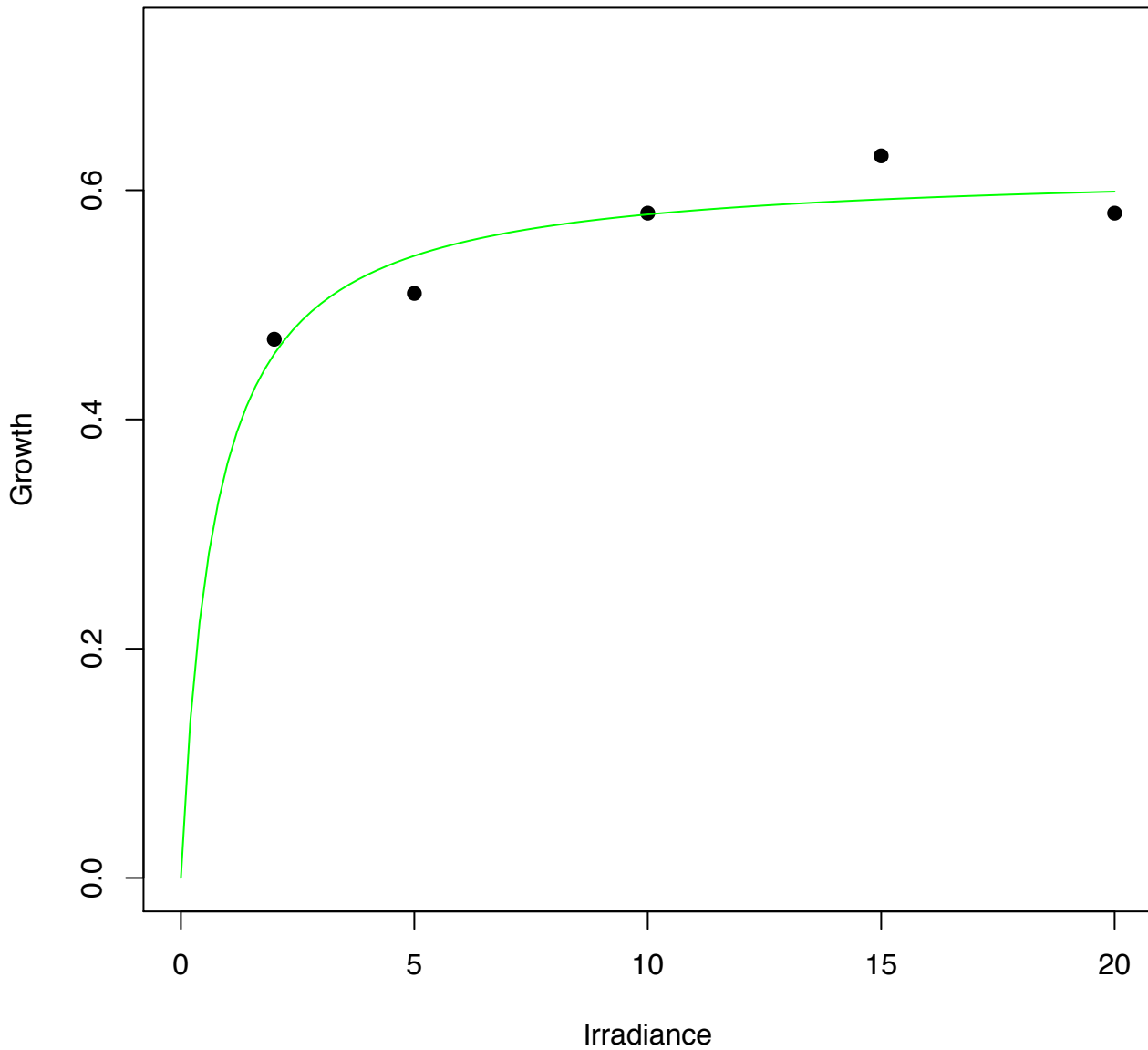
Fragilaria barbararum 15°C



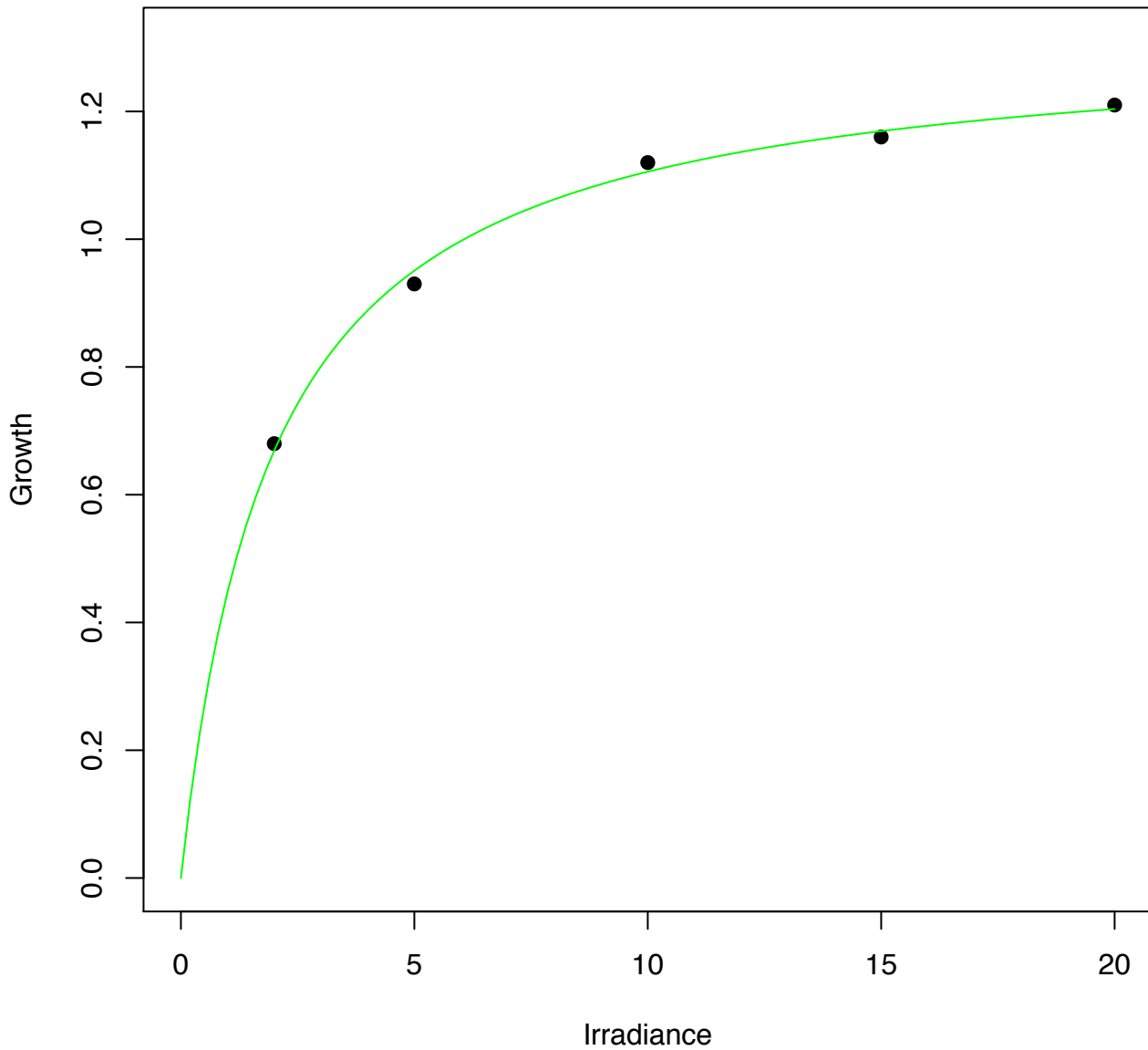
Fragilaria cf. striatula 0°C



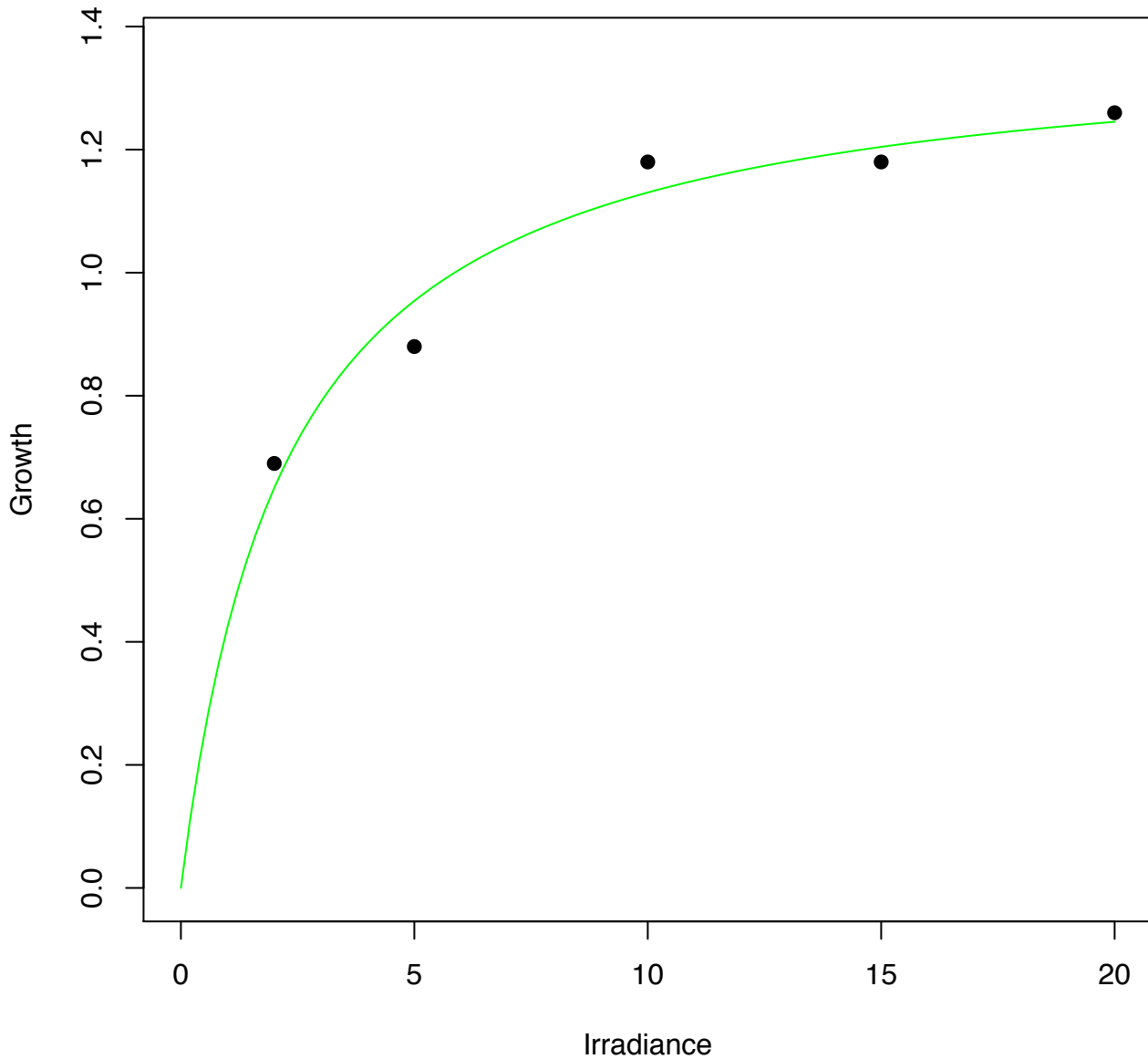
Fragilaria cf. striatula 5°C



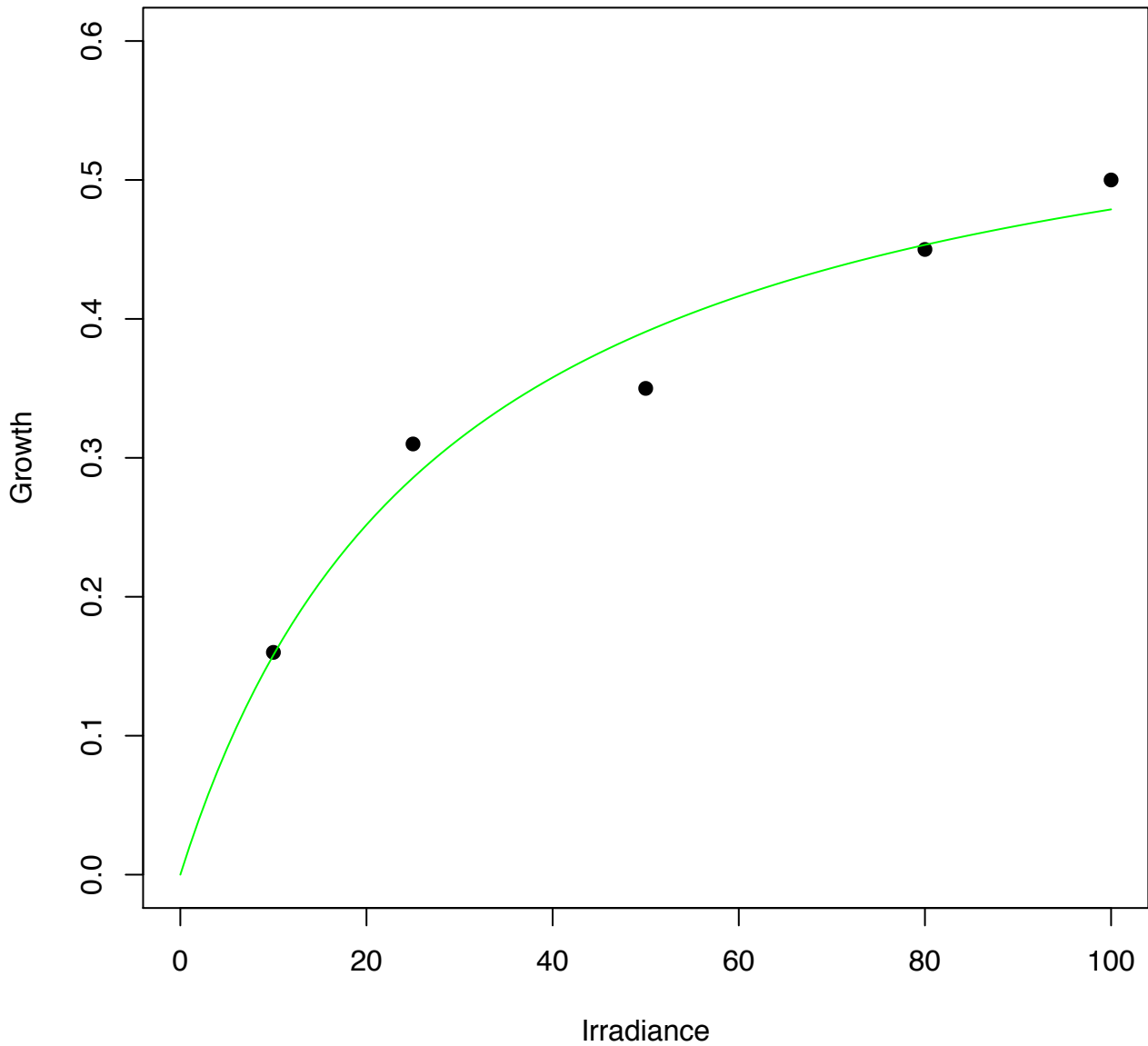
Fragilaria cf. striatula 10°C



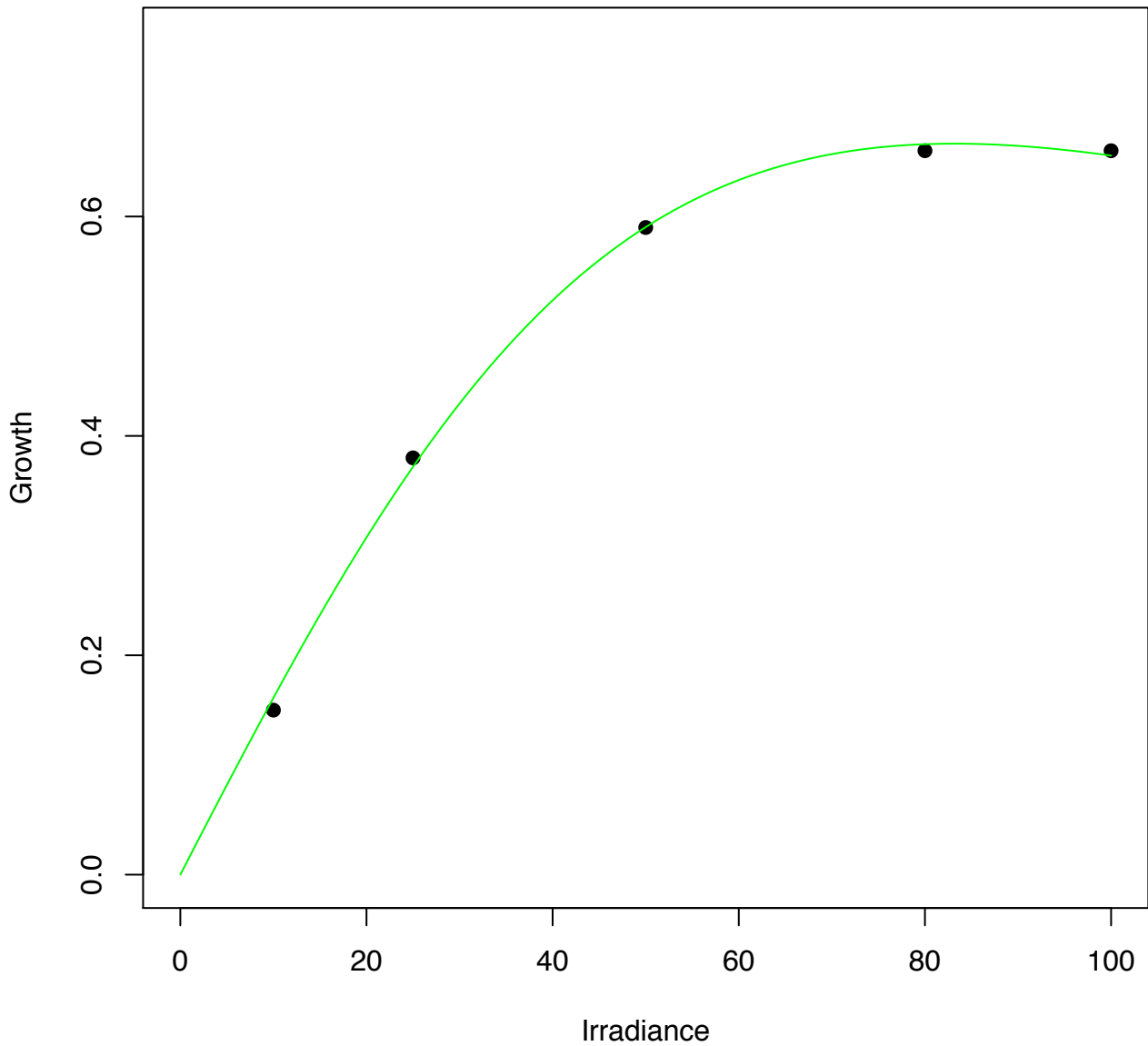
Fragilaria cf. striatula 15°C



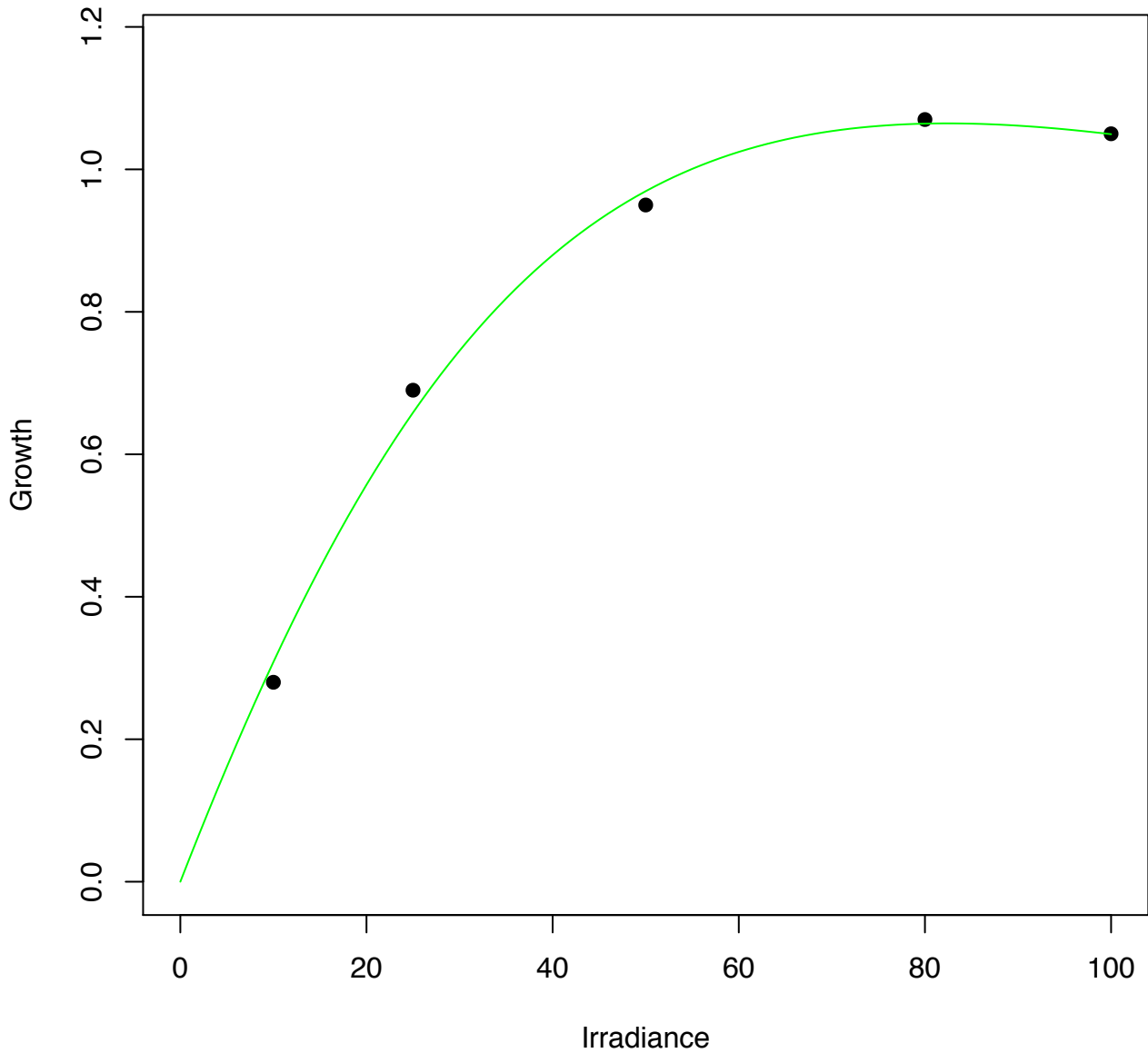
Thalassiosira curviseriata 5°C



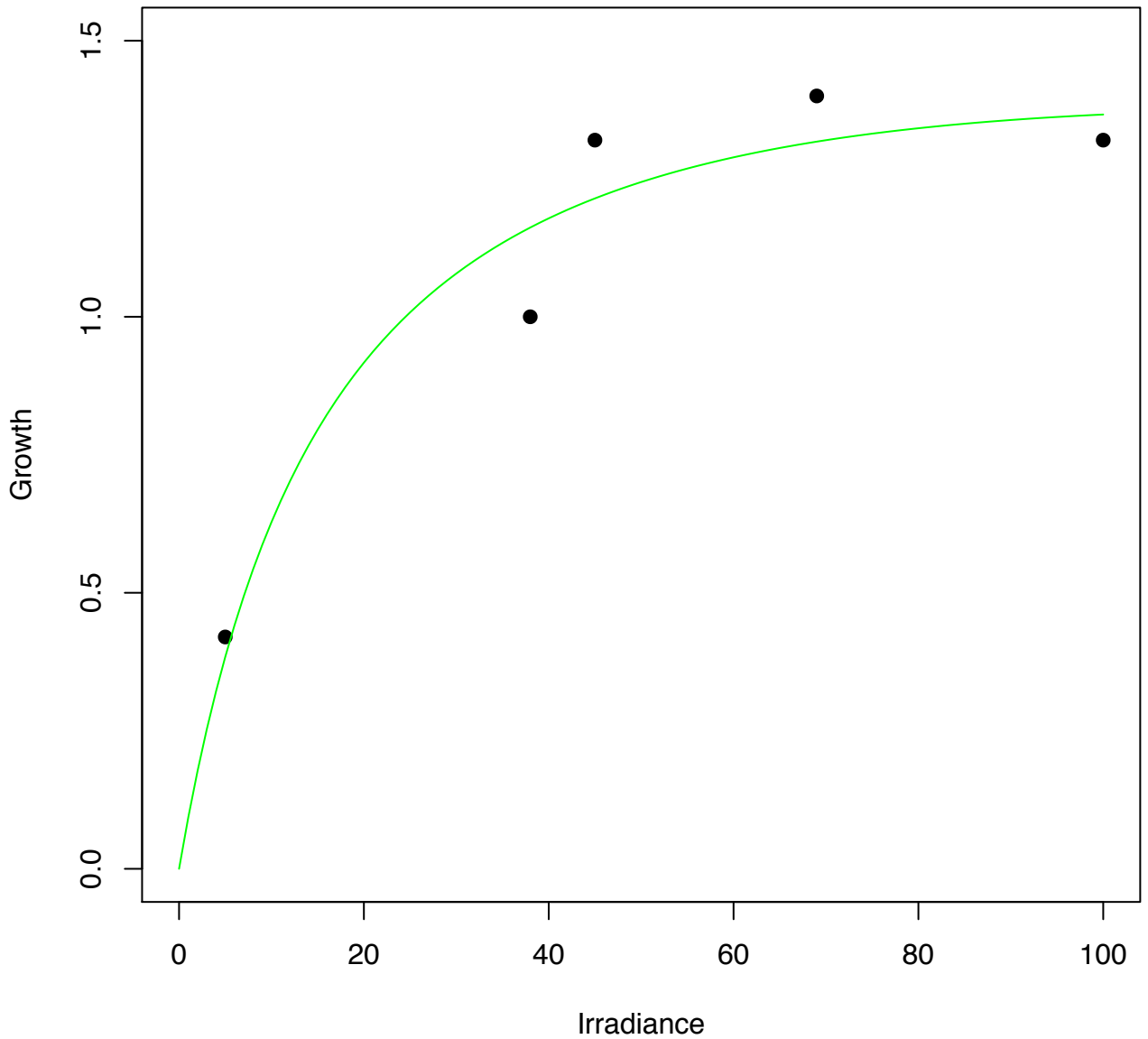
Thalassiosira curviseriata 10°C



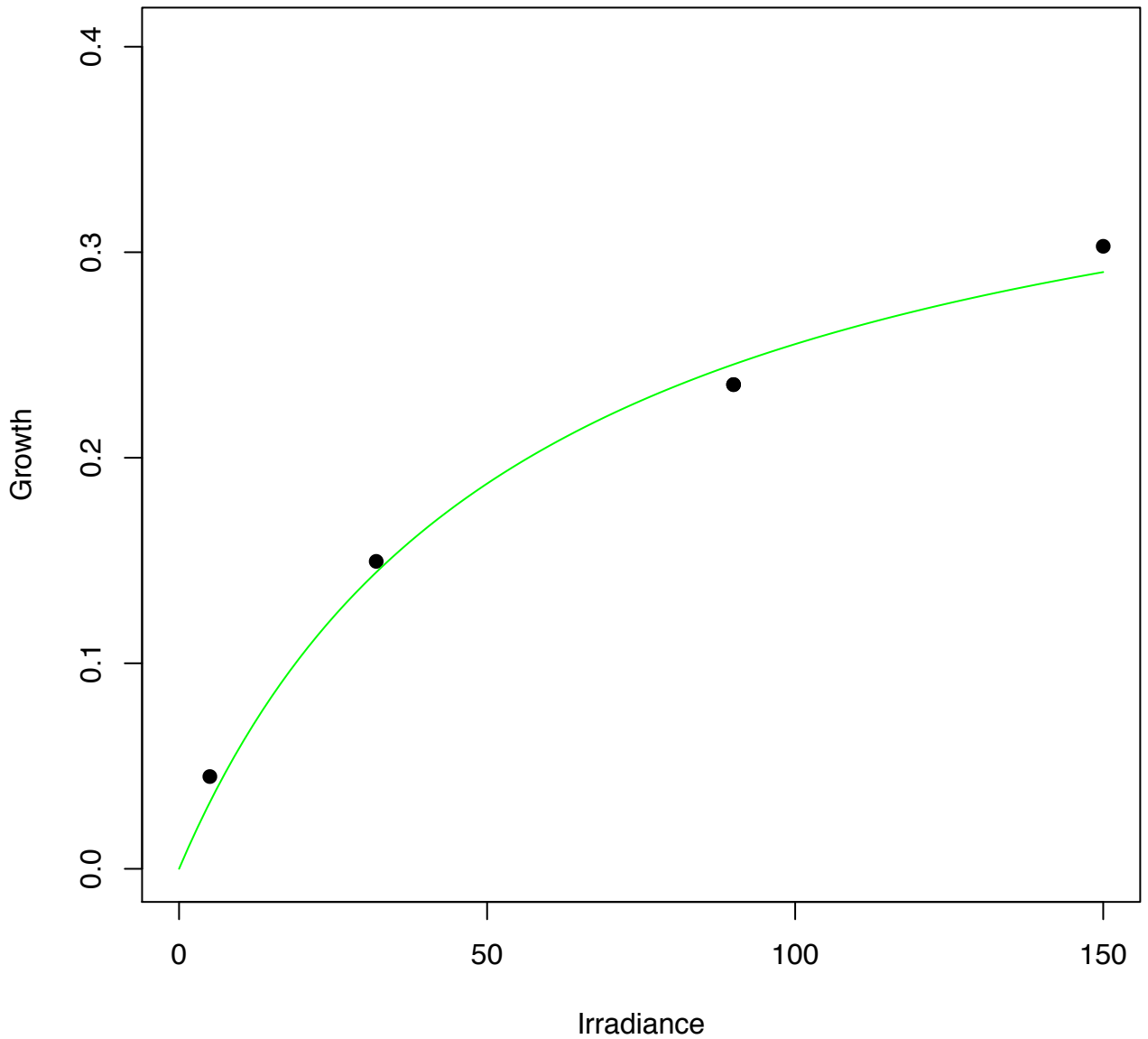
Thalassiosira curviseriata 15°C



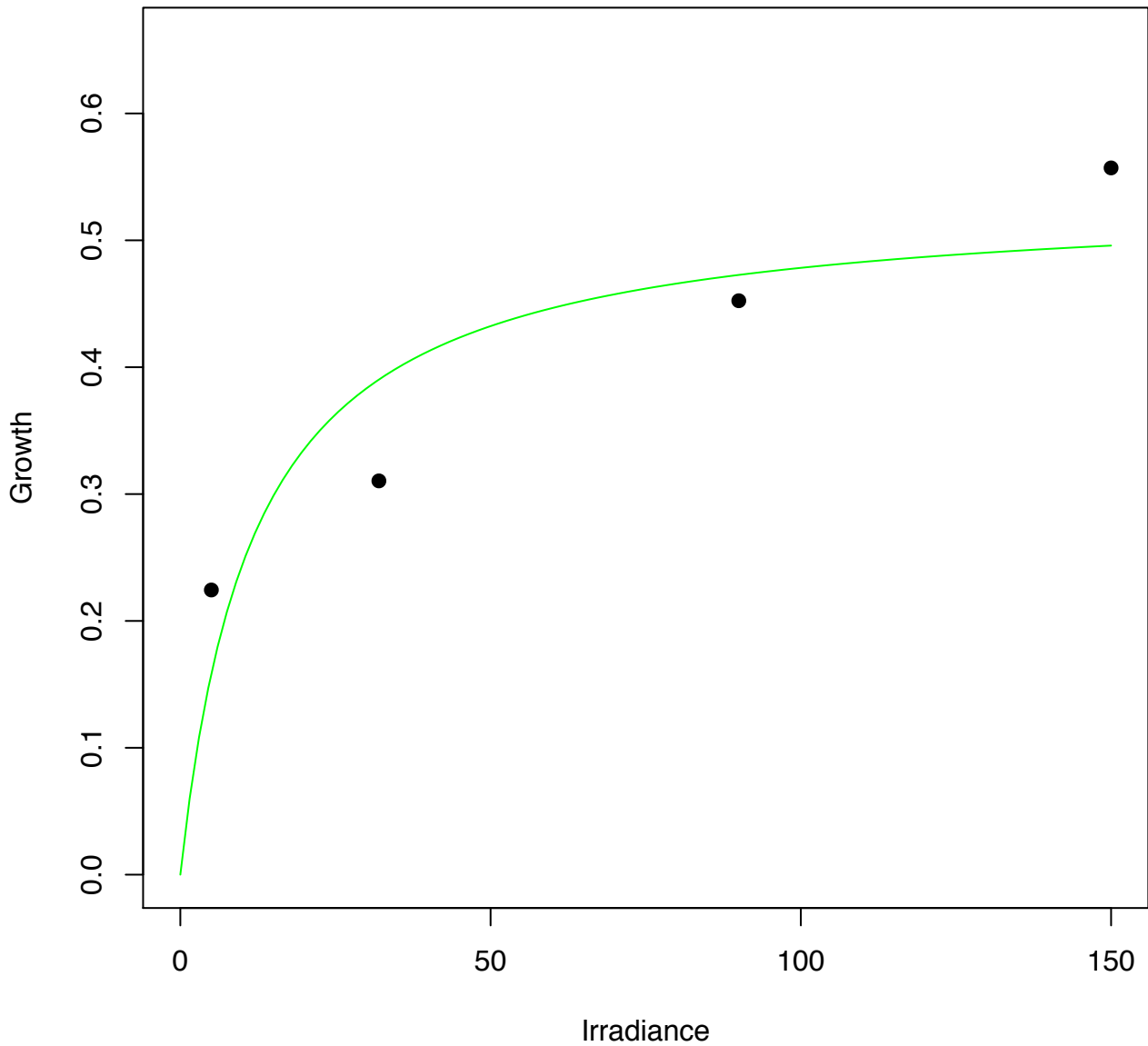
Thalassiosira curviseriata 20°C



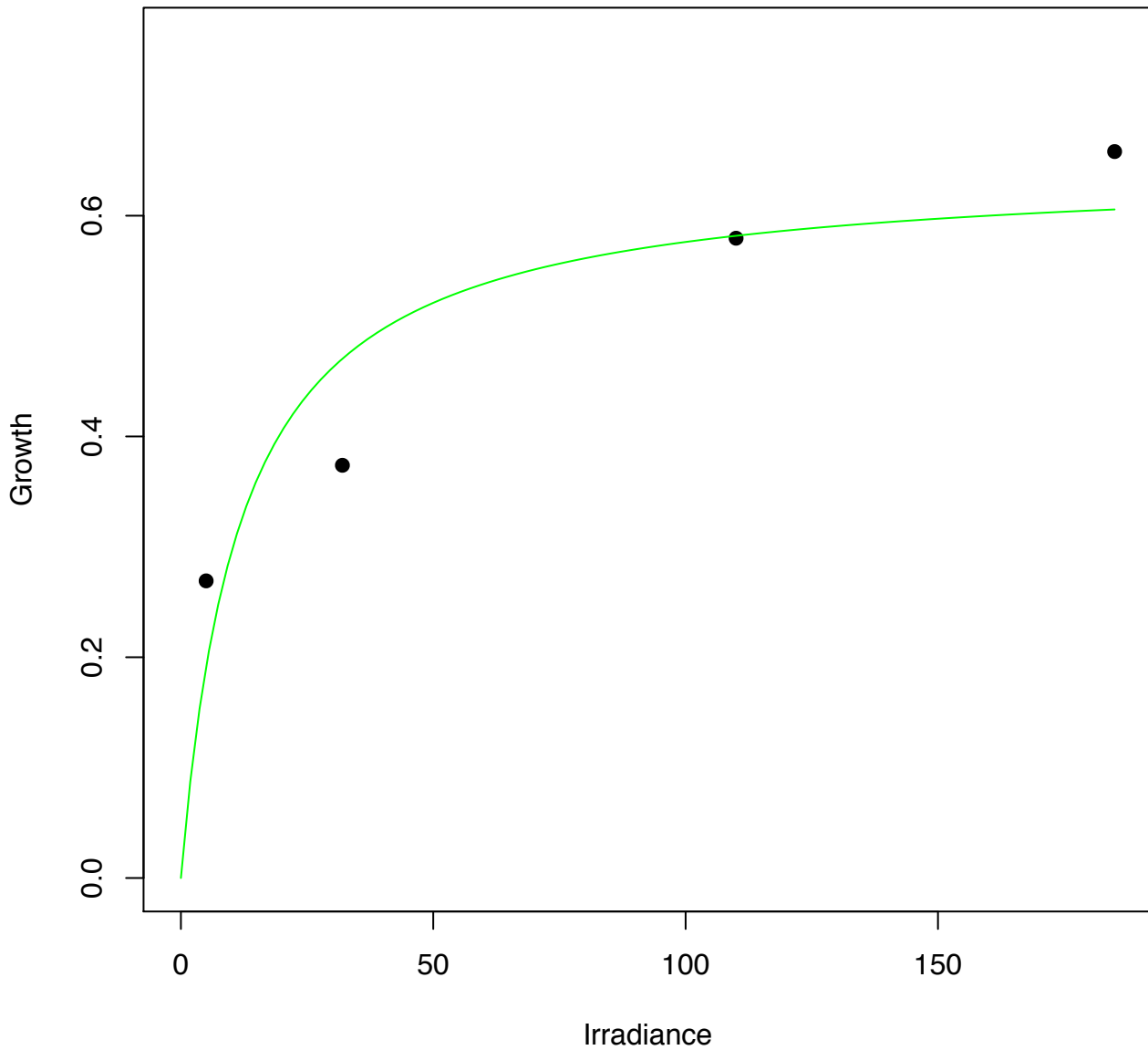
Phaeocystis pouchetii 0°C



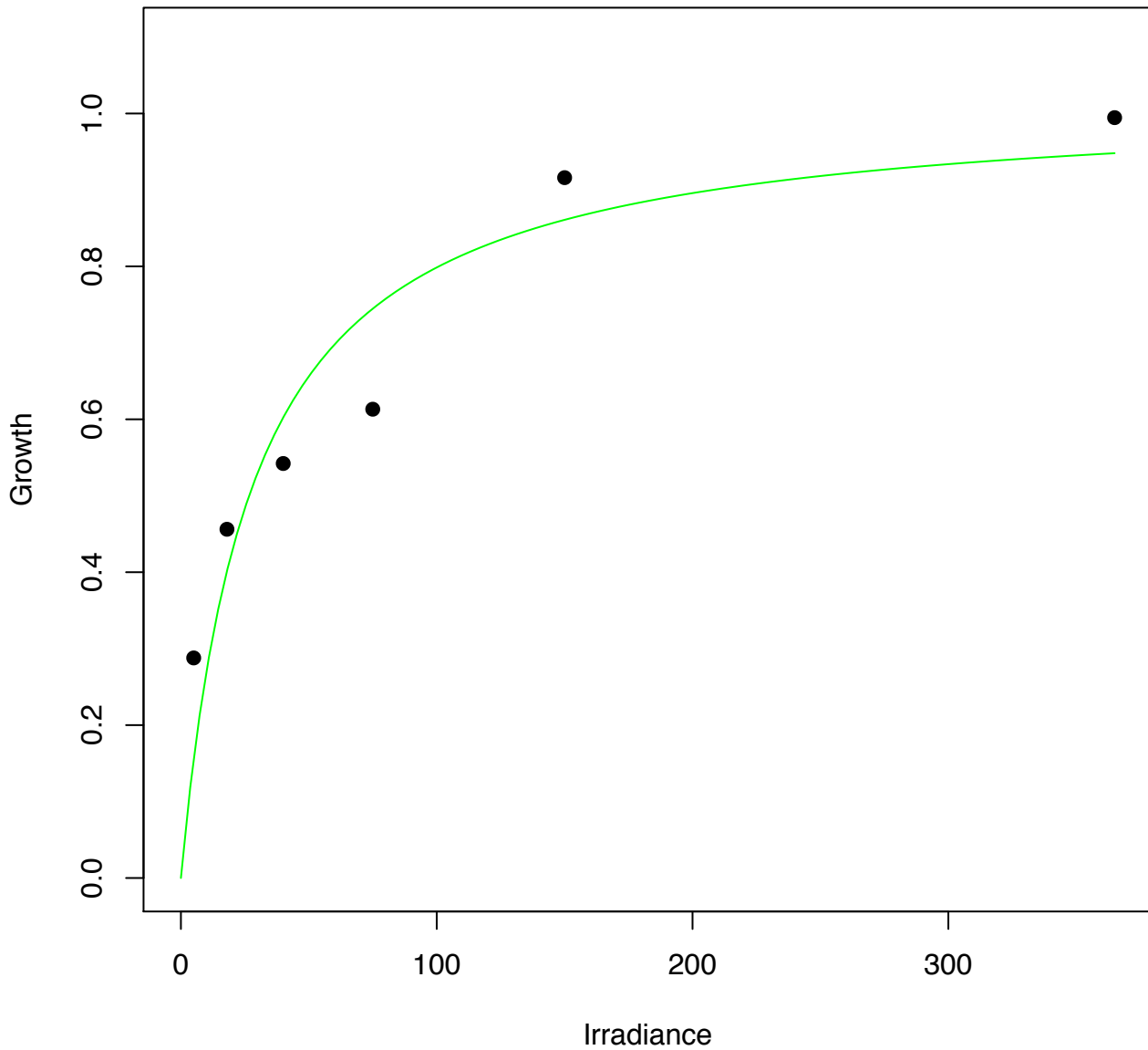
Phaeocystis pouchetii 2°C



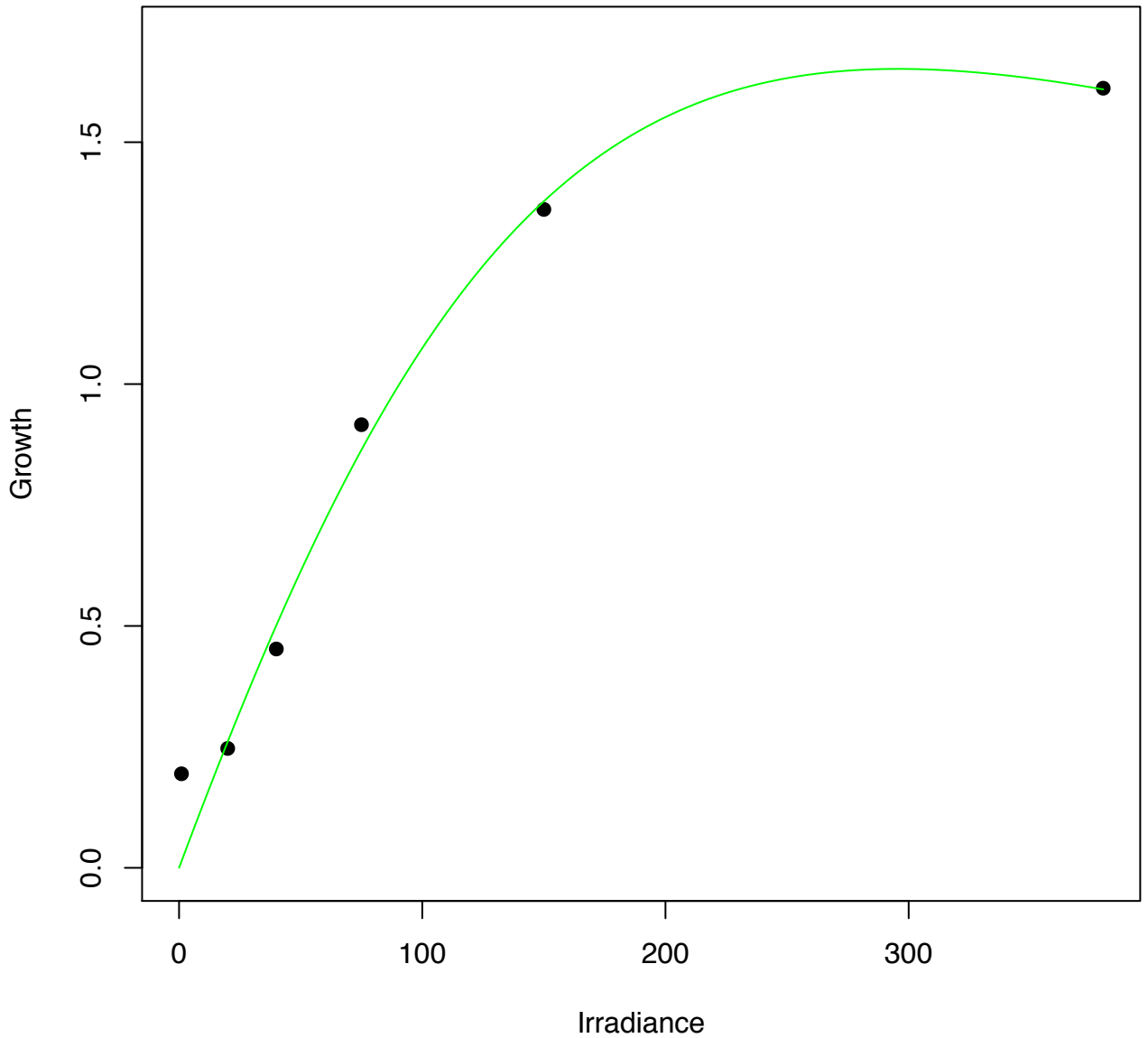
Phaeocystis pouchetii 5°C



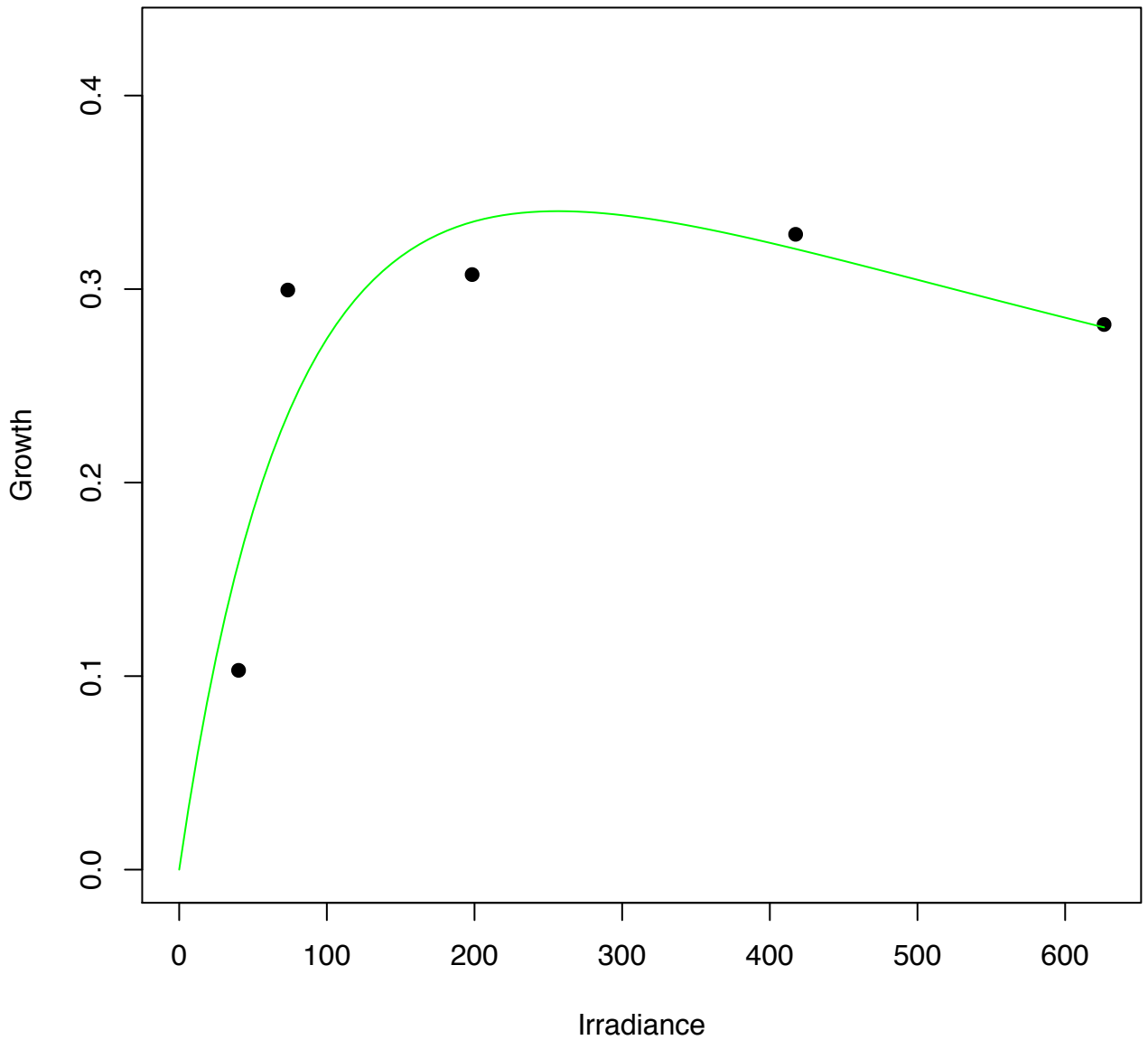
Phaeocystis pouchetii 10°C



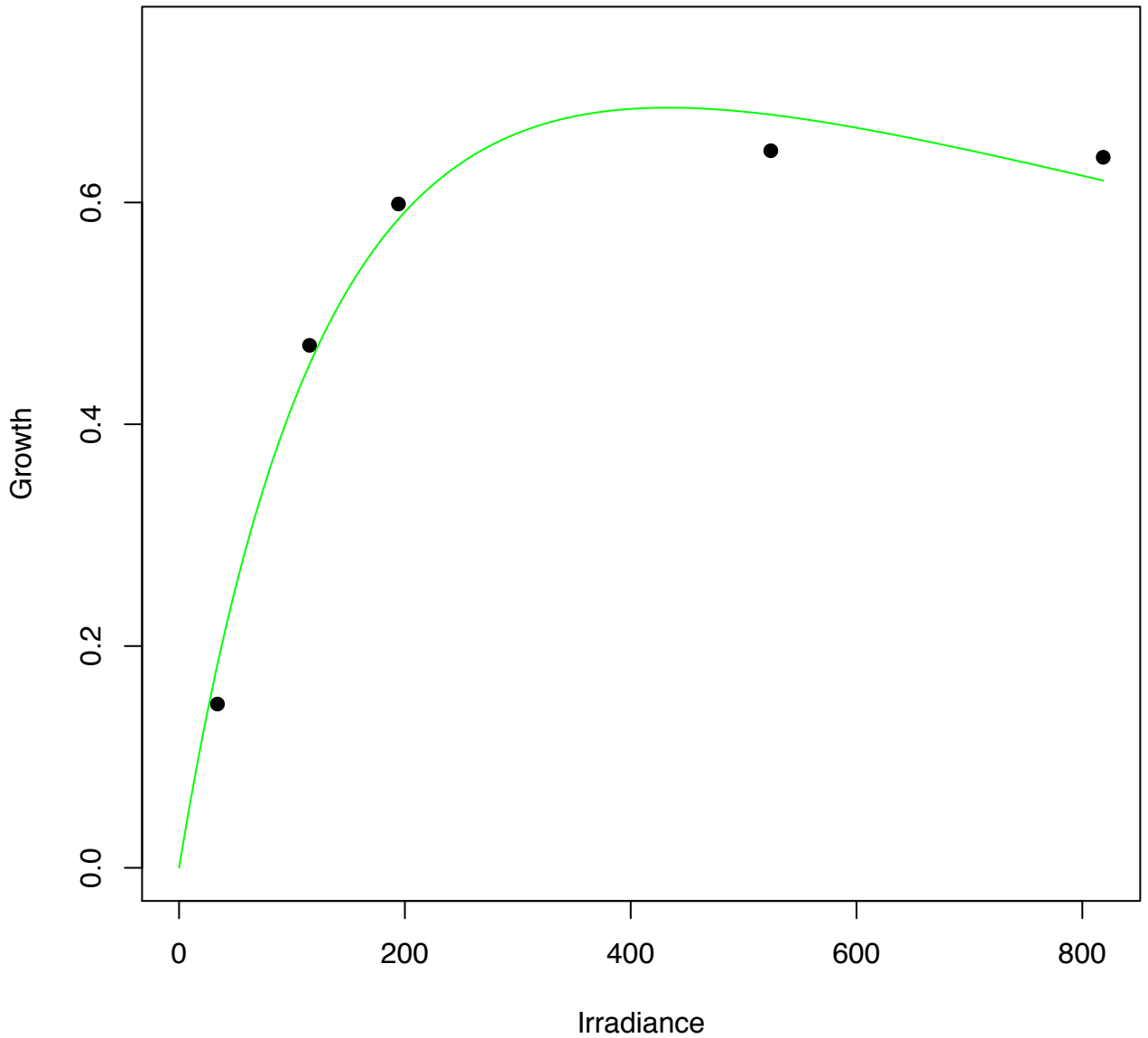
Phaeocystis pouchetii 20°C



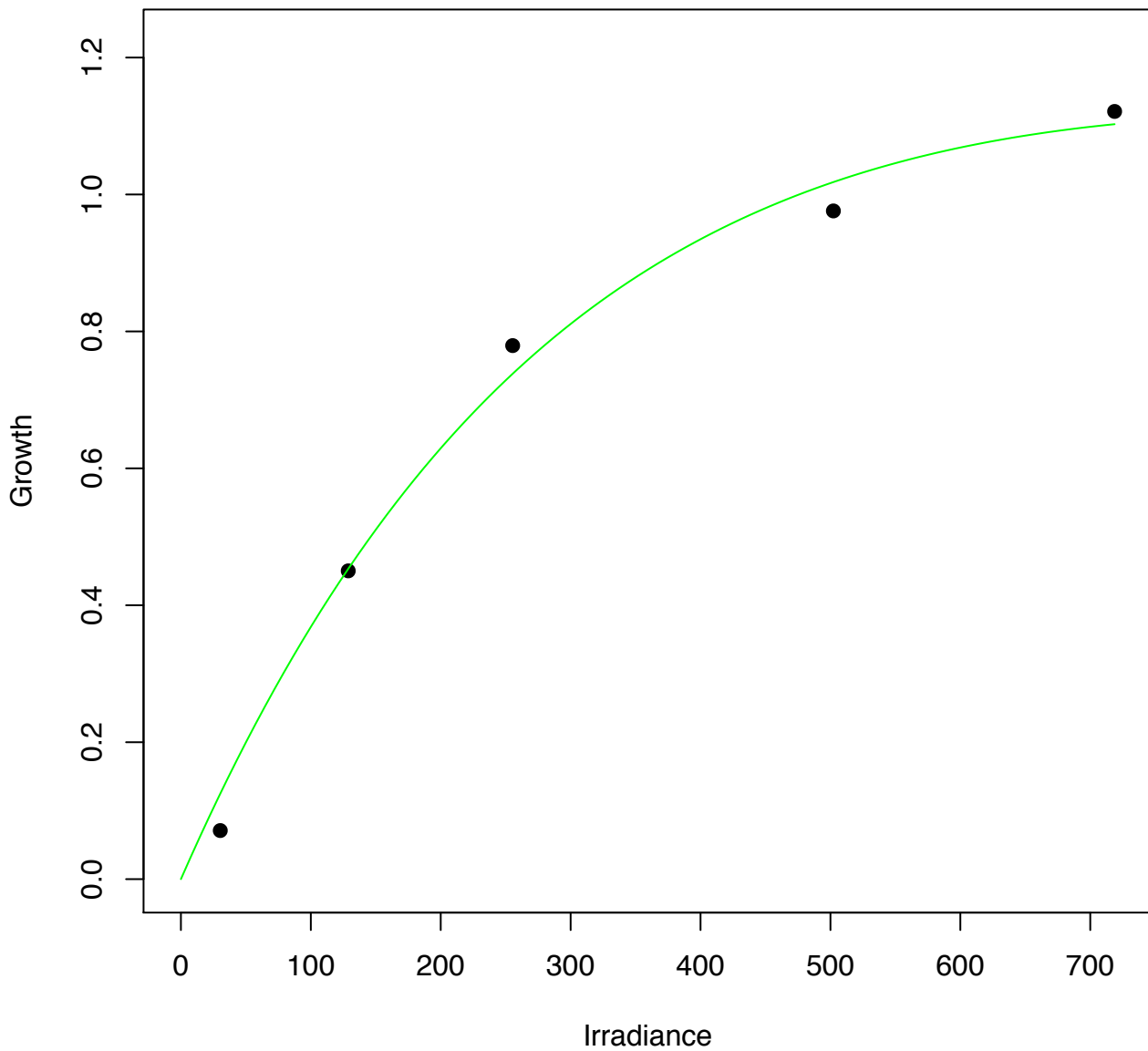
Skeletonema costatum 0°C



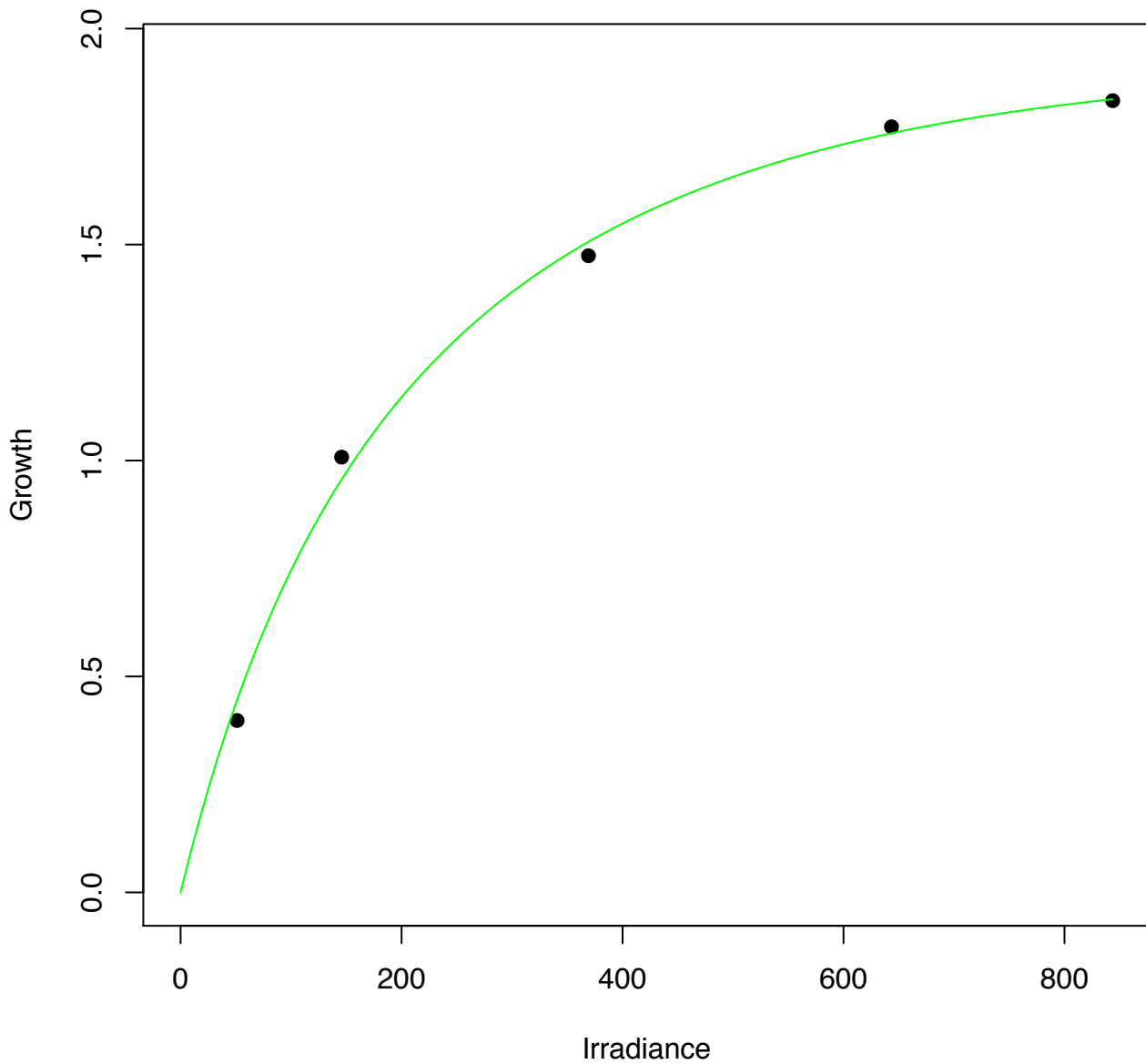
Skeletonema costatum 5°C



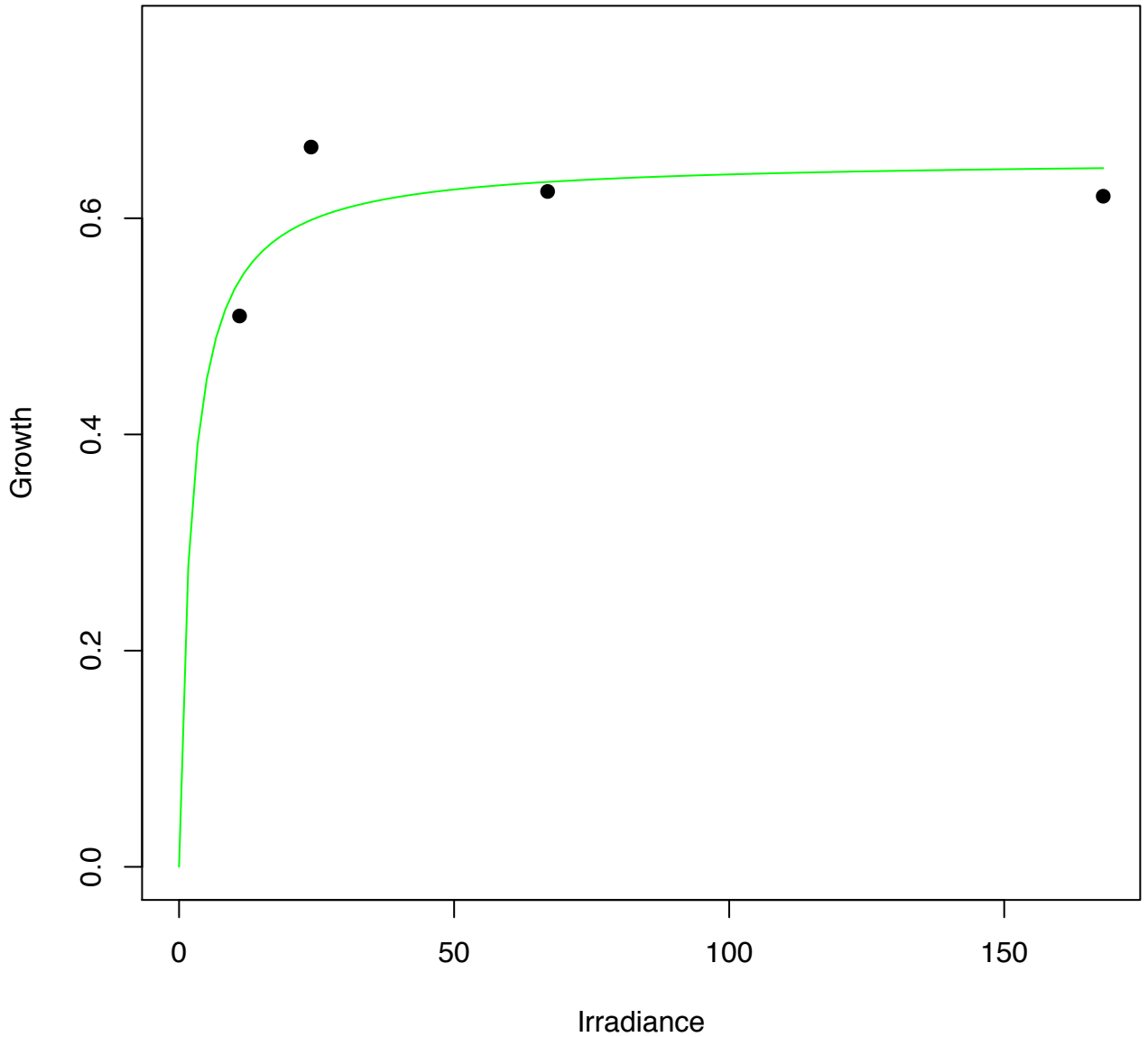
Skeletonema costatum 10°C



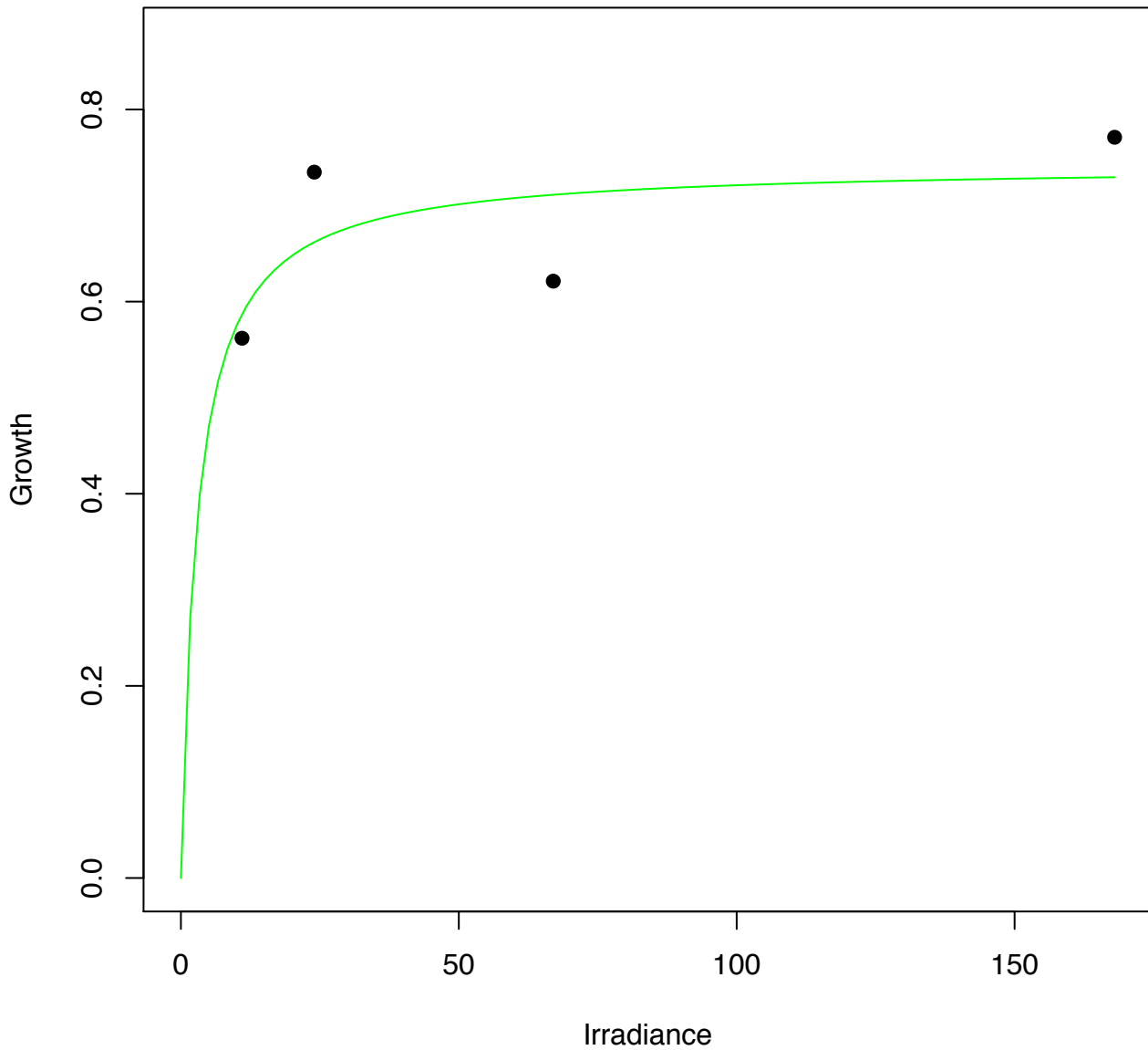
Skeletonema costatum 16°C



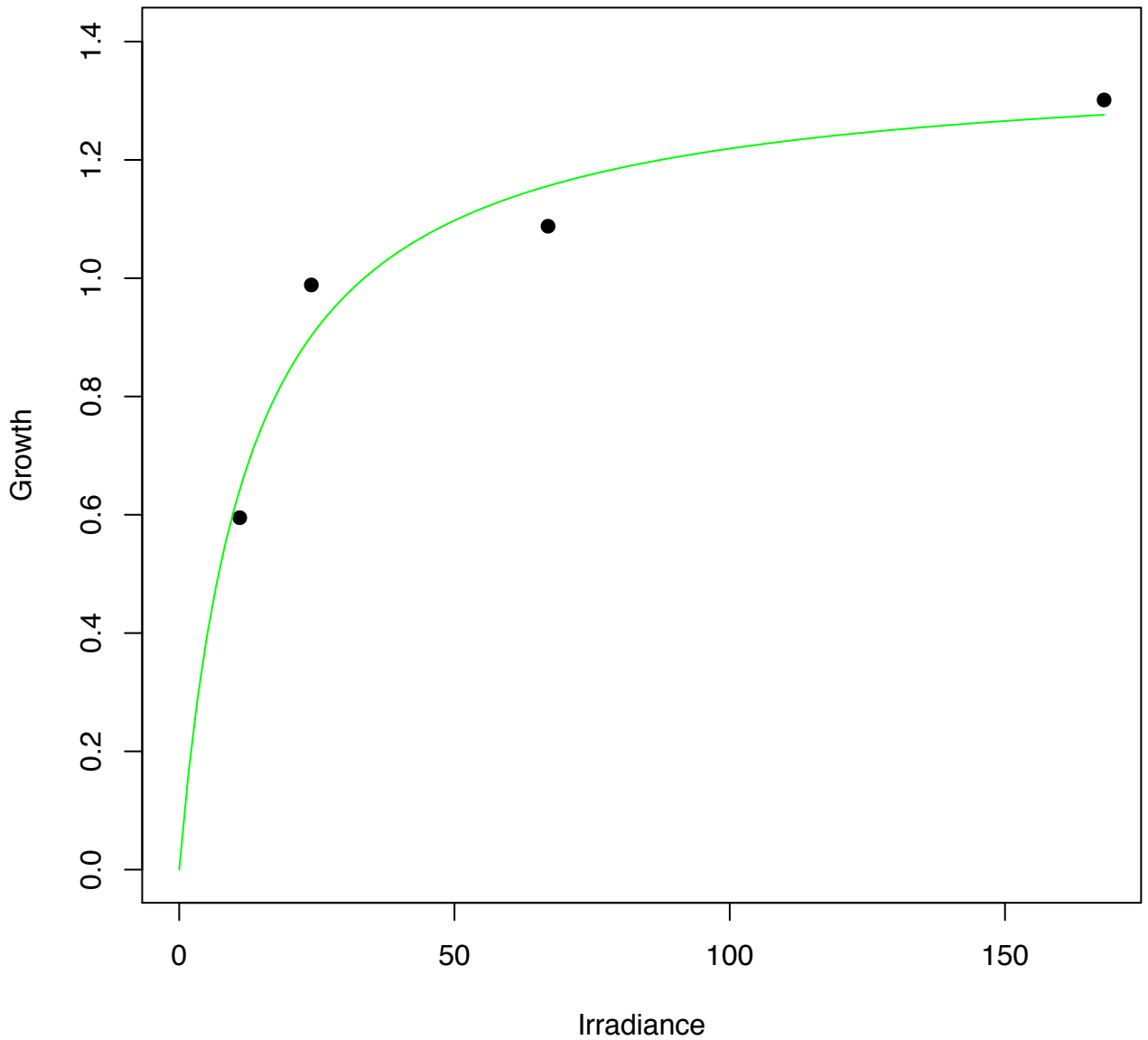
Isochrysis galbana 10°C



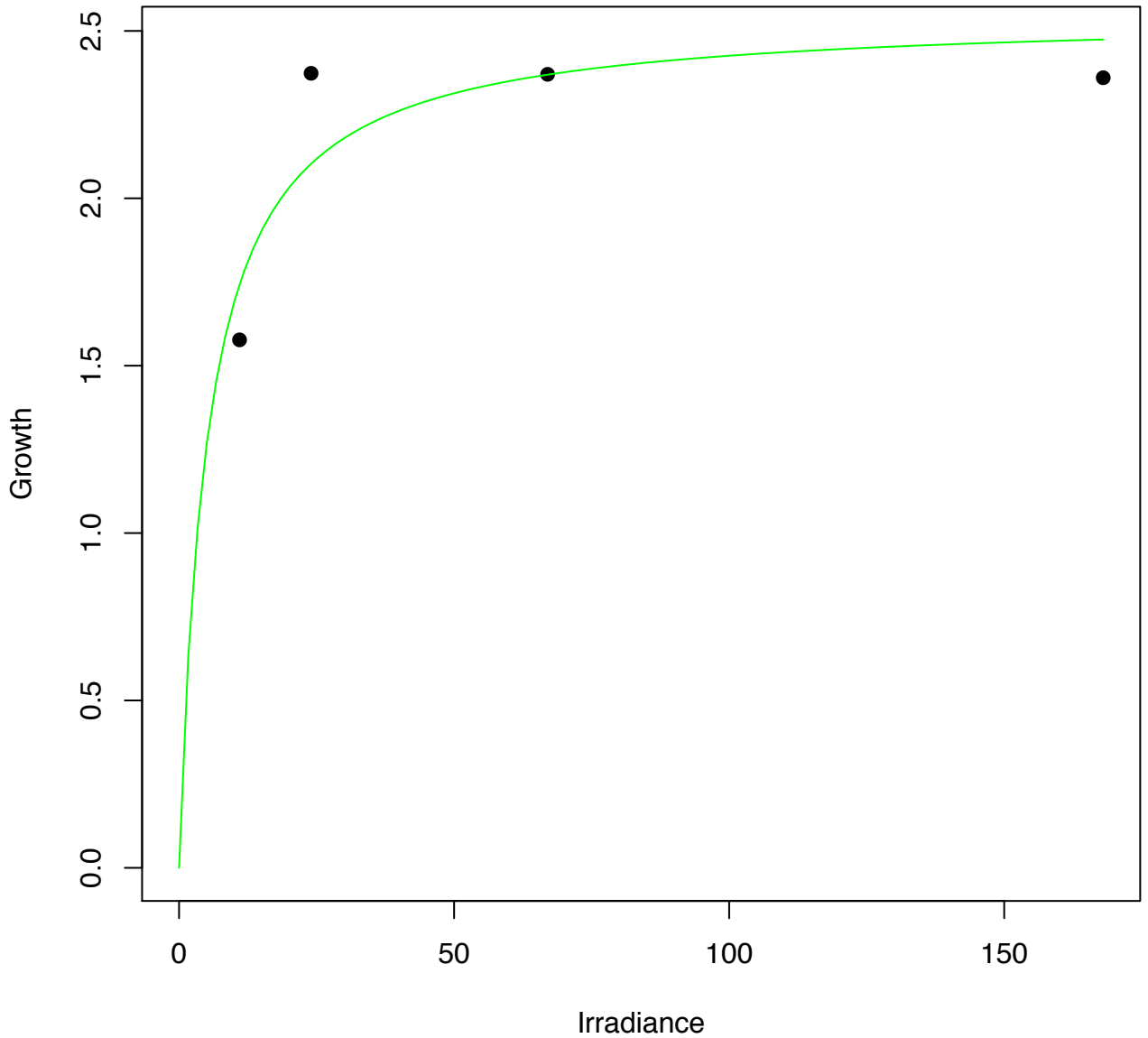
Isochrysis galbana 15°C



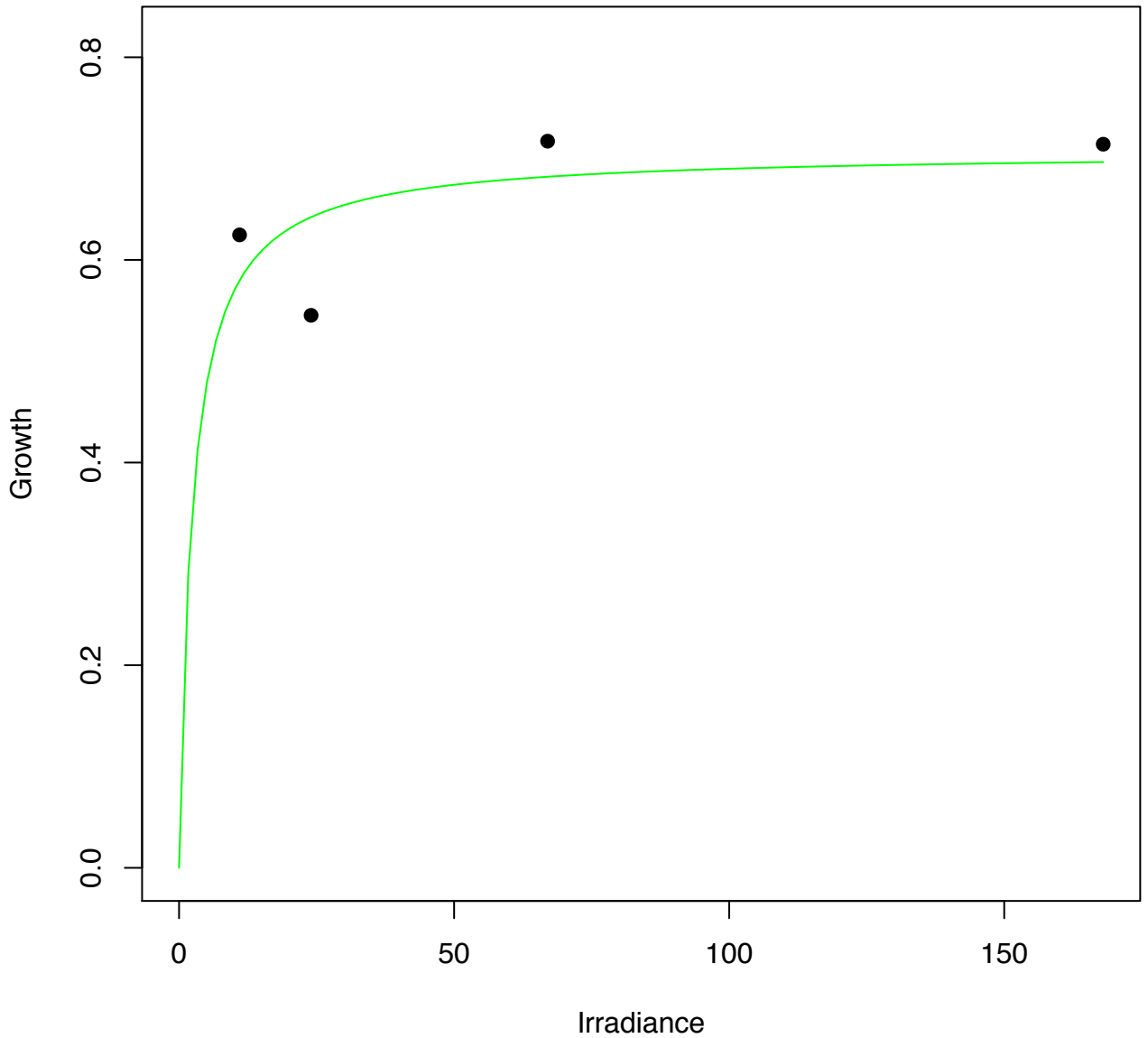
Isochrysis galbana 20°C



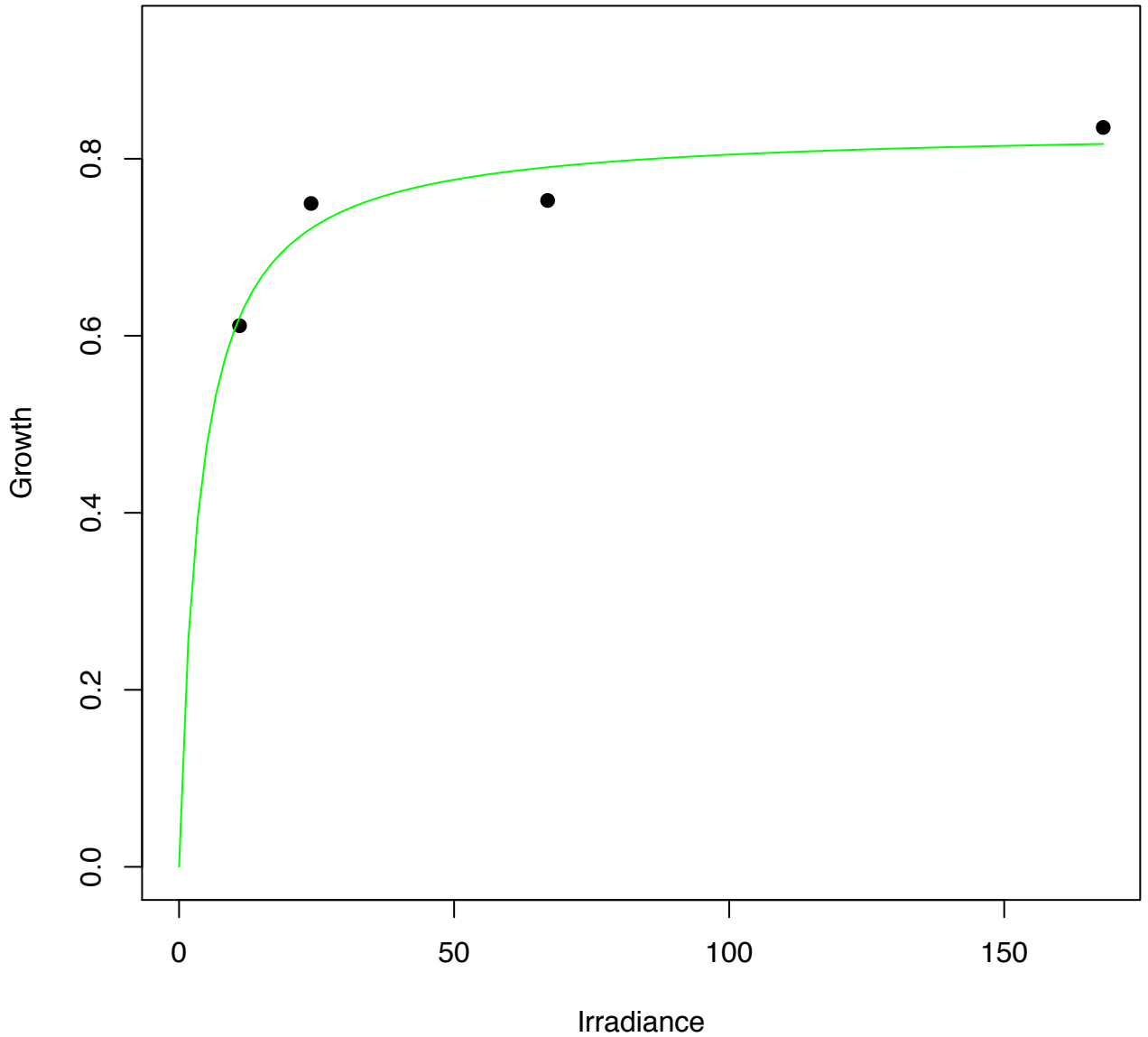
Isochrysis galbana 25°C



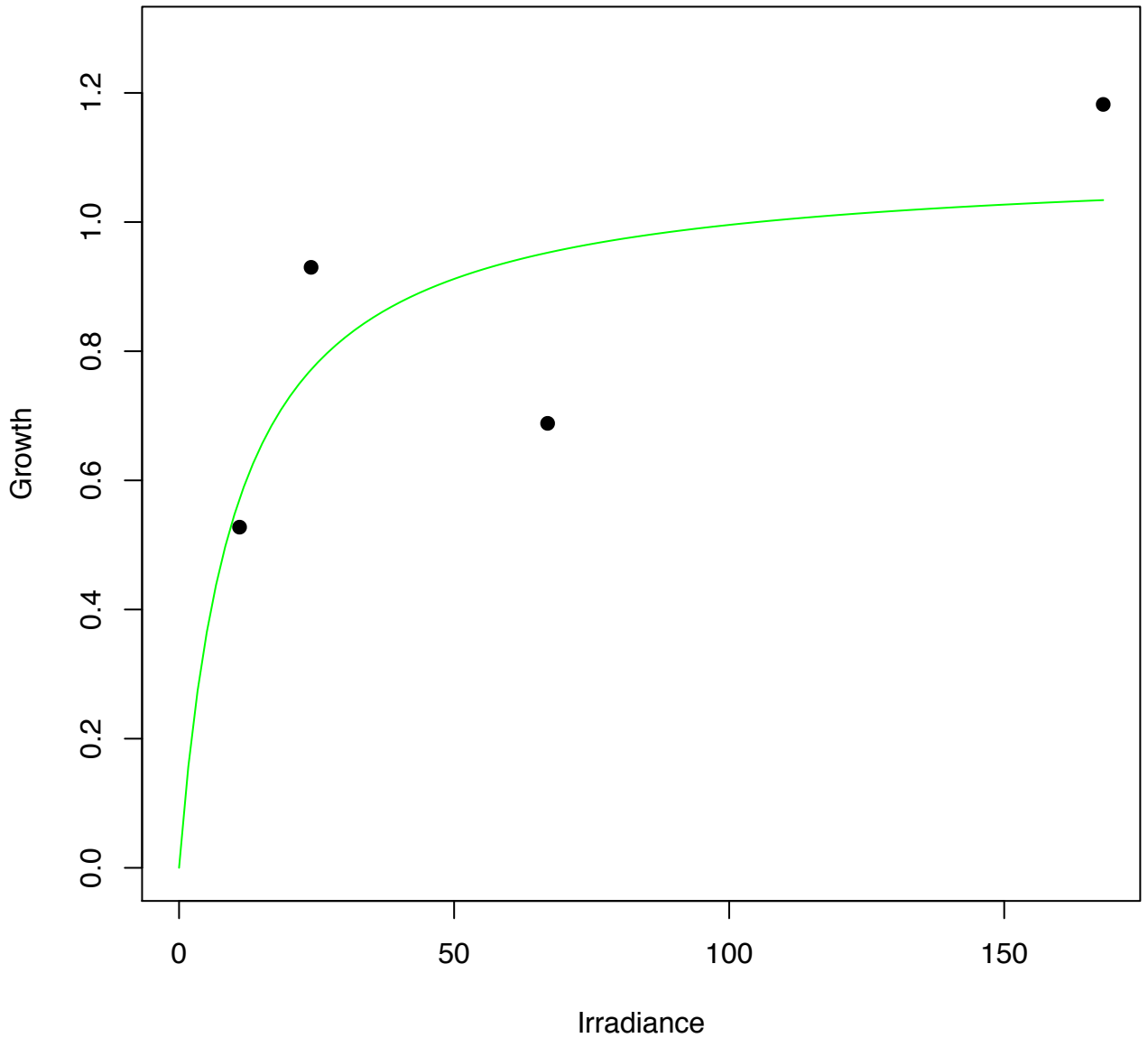
Rhodomonas salina 10°C



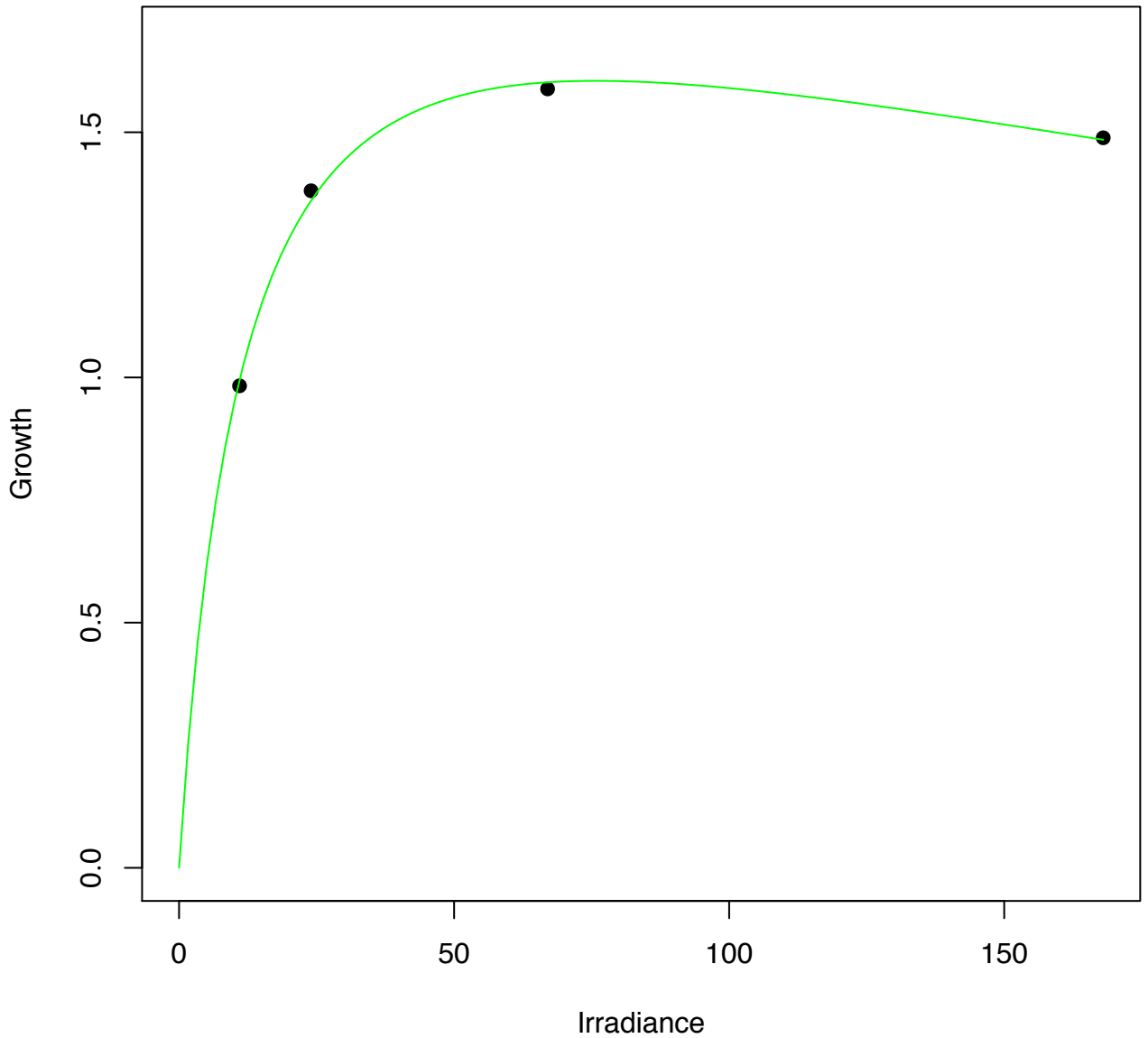
Rhodomonas salina 15°C



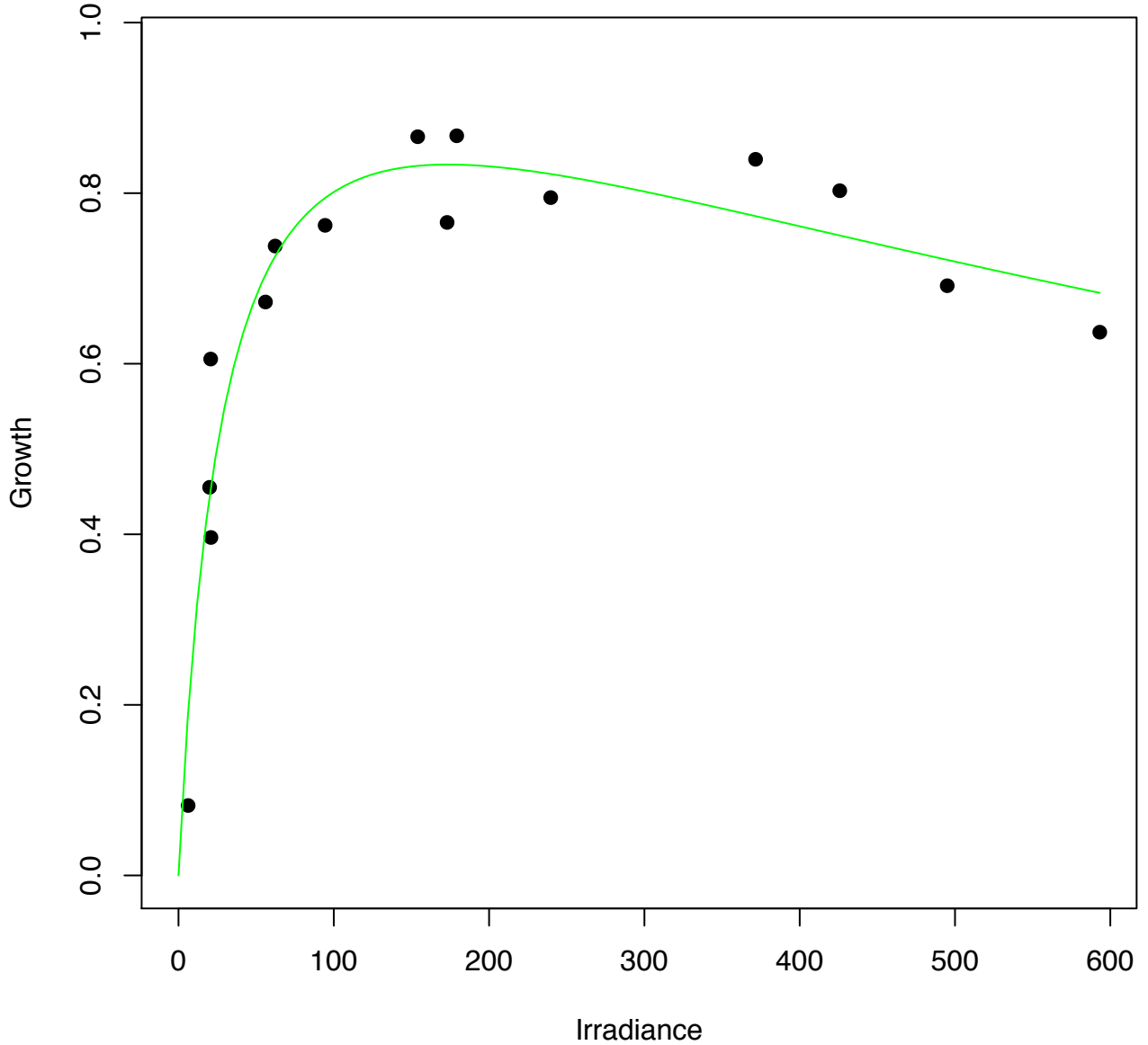
Rhodomonas salina 20°C



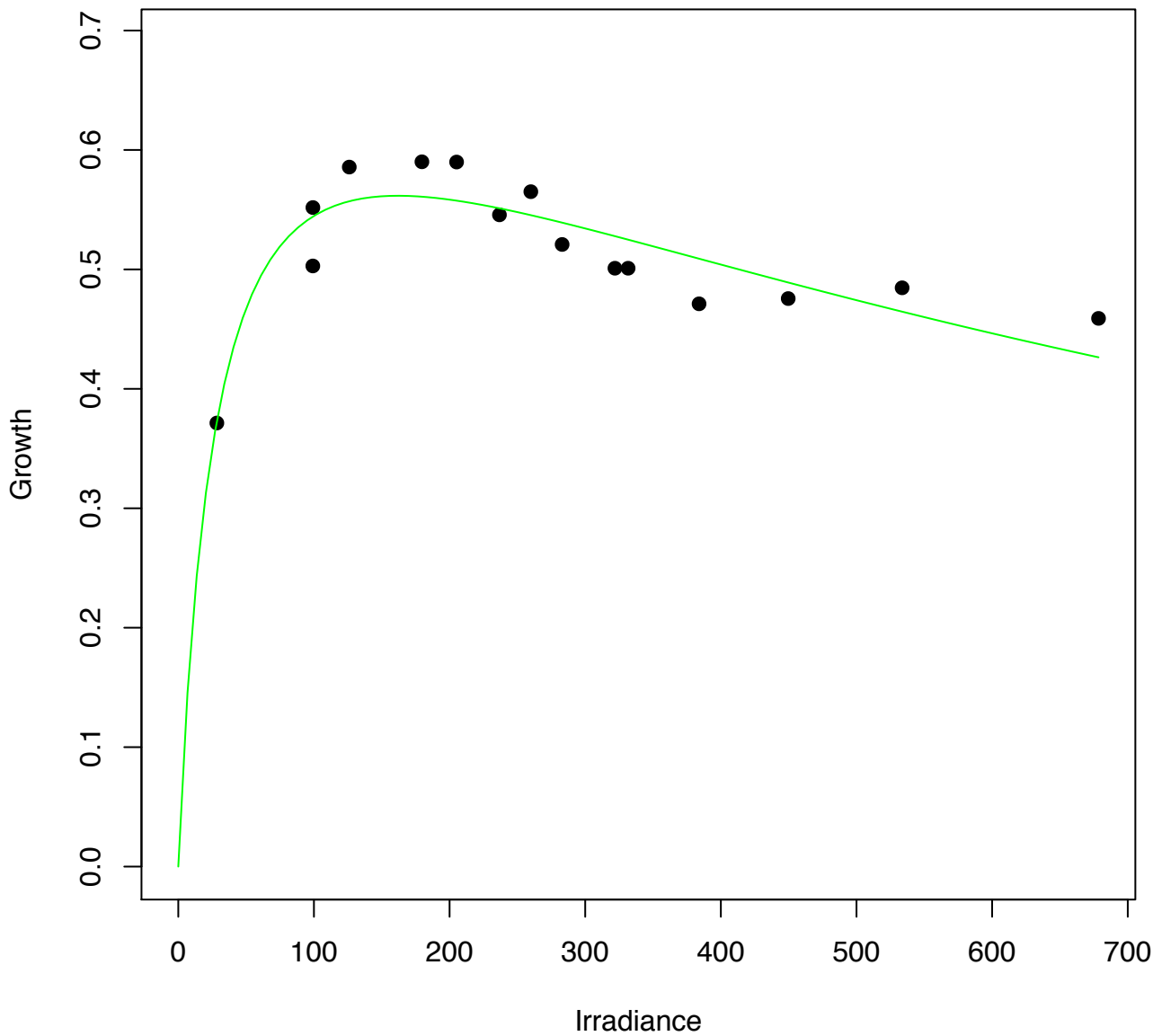
Rhodomonas salina 25°C



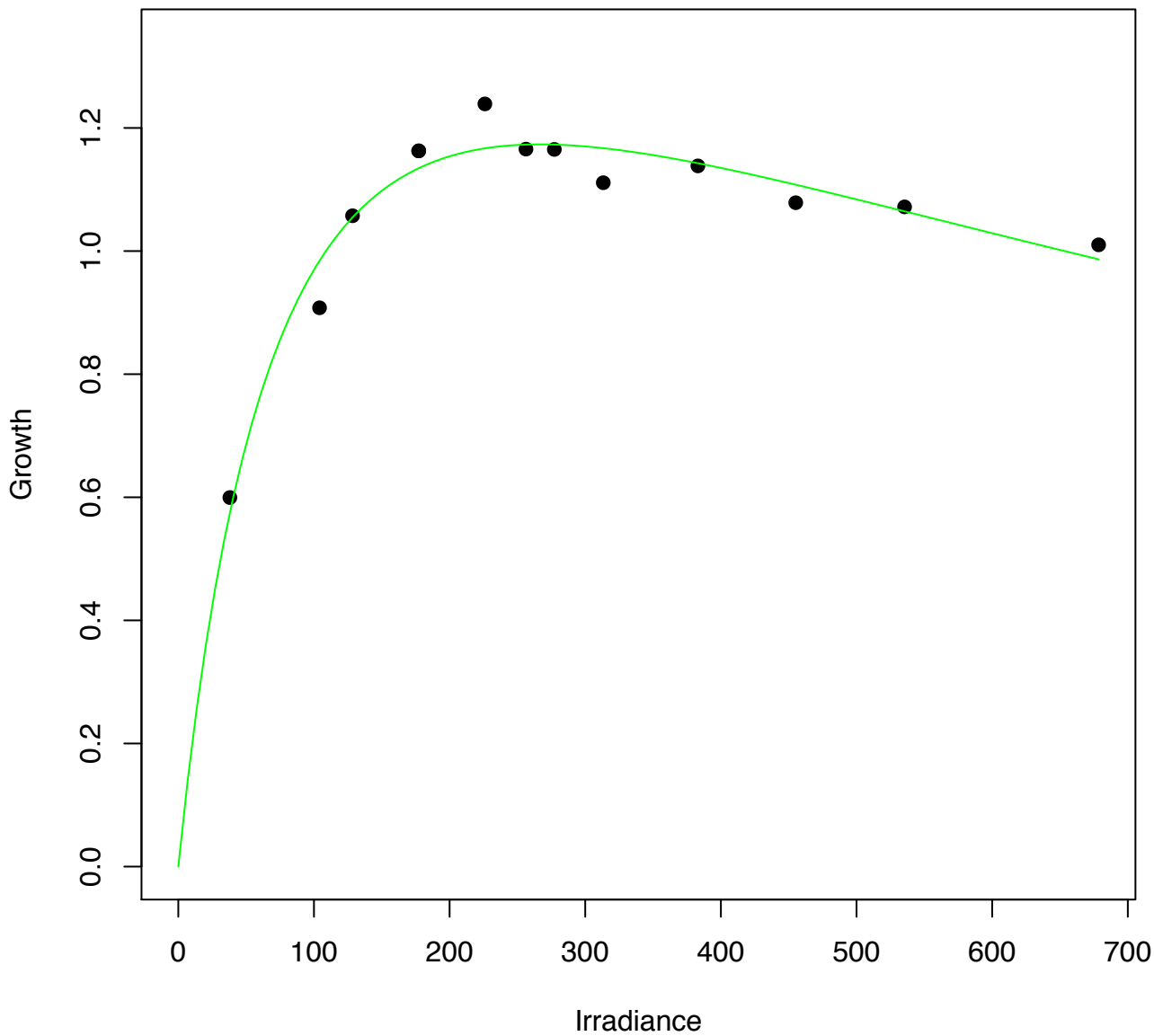
Scenedesmus crassus 15°C



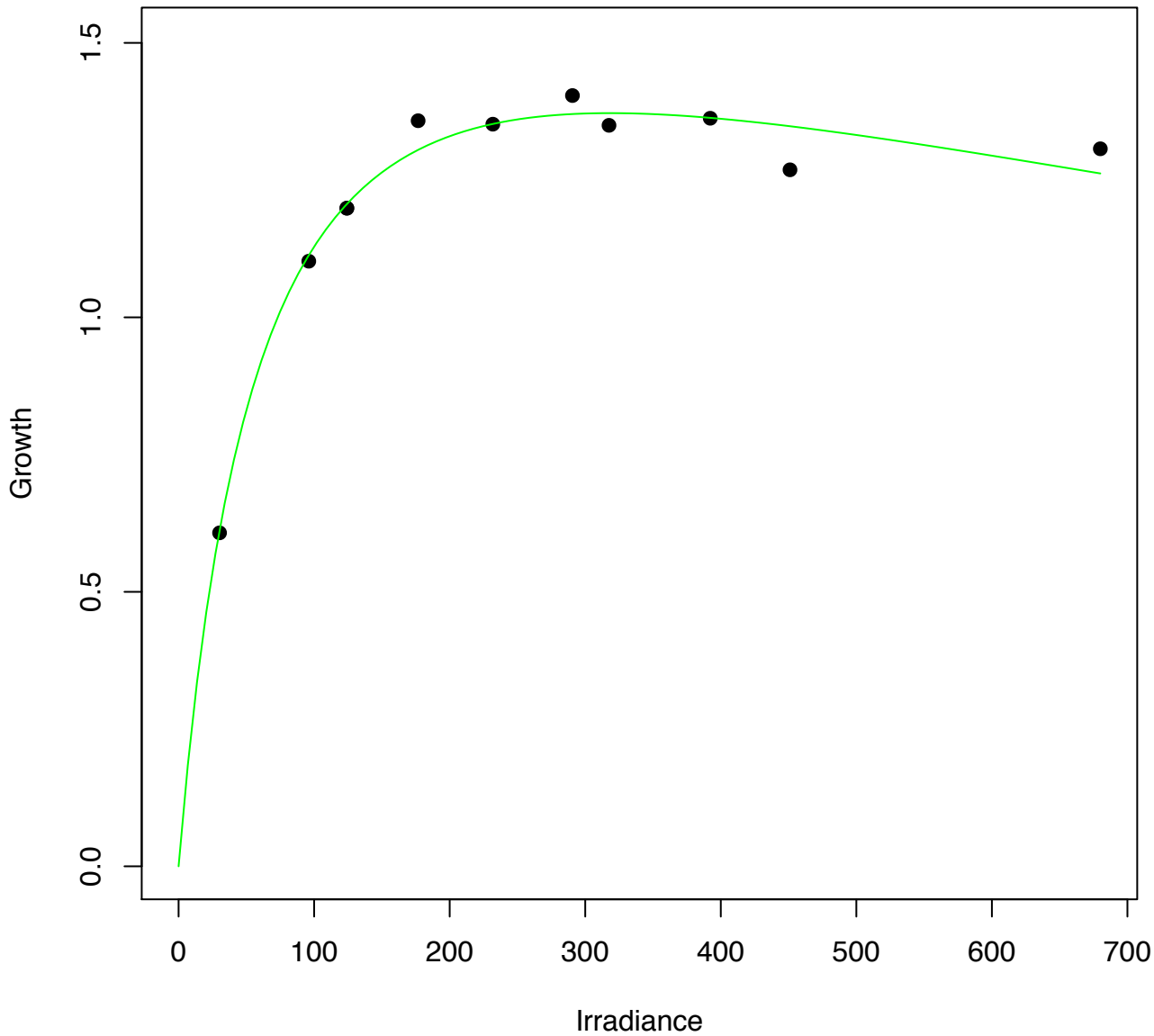
Scenedesmus crassus 20°C



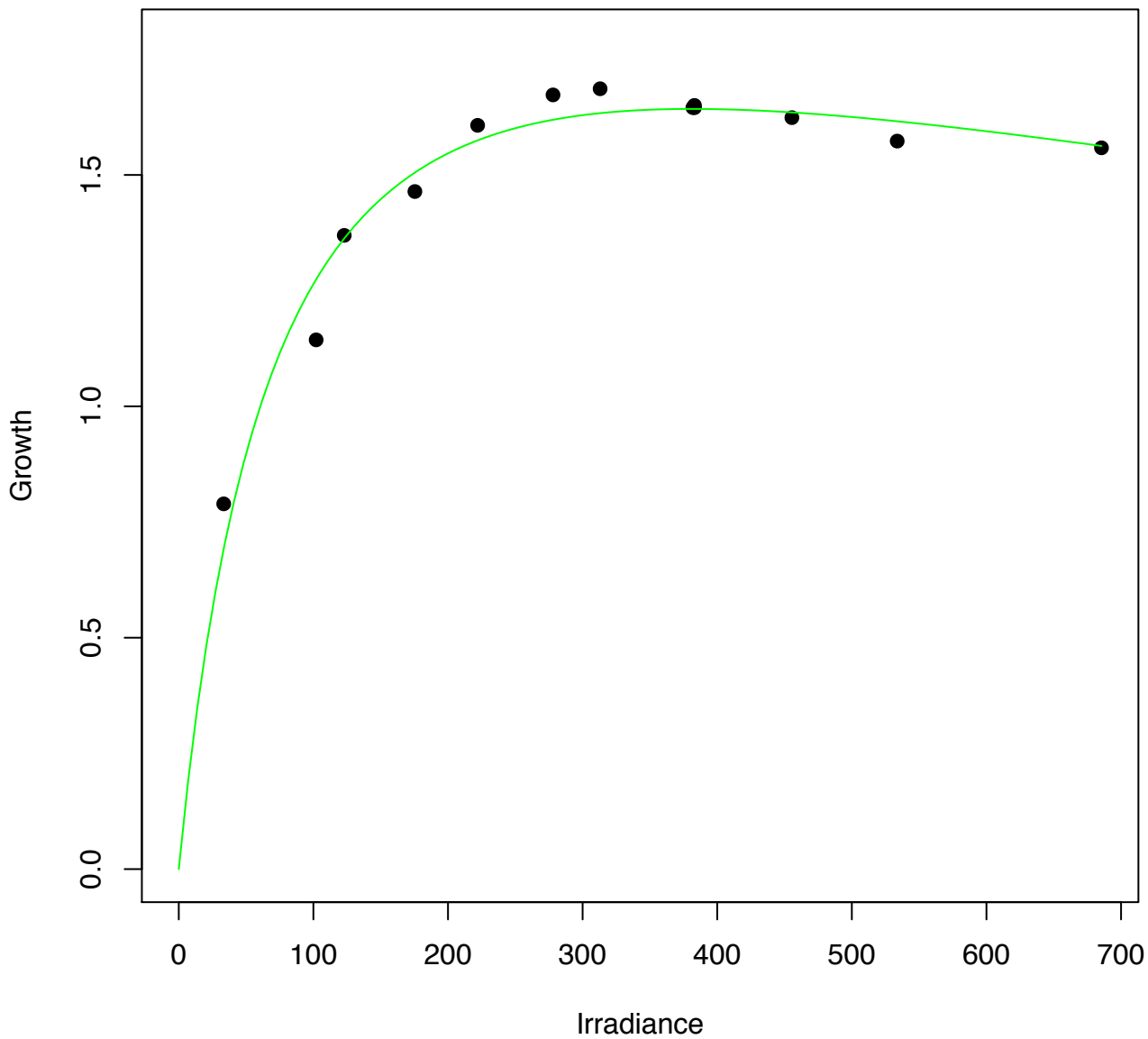
Scenedesmus crassus 25°C



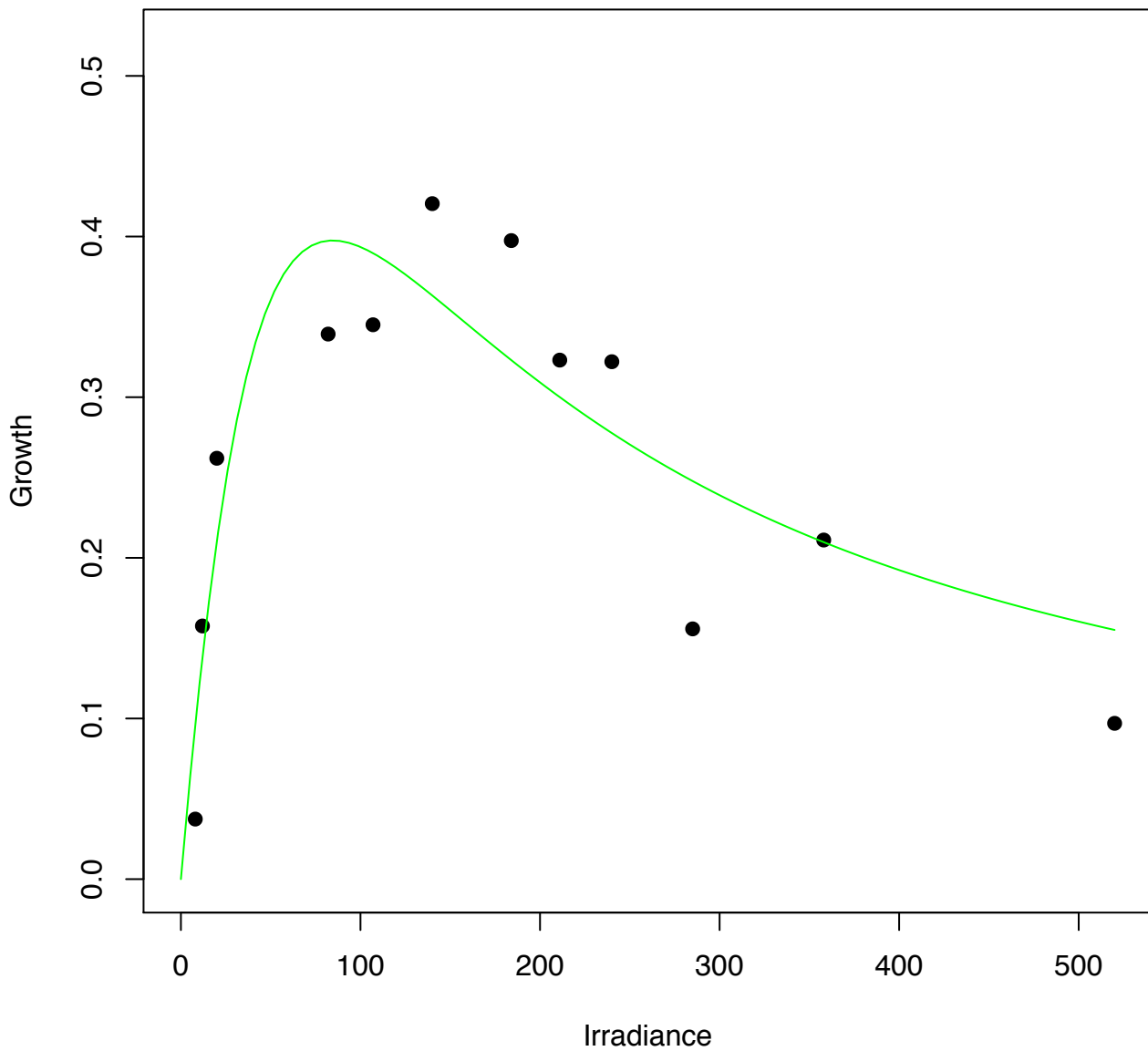
Scenedesmus crassus 27°C



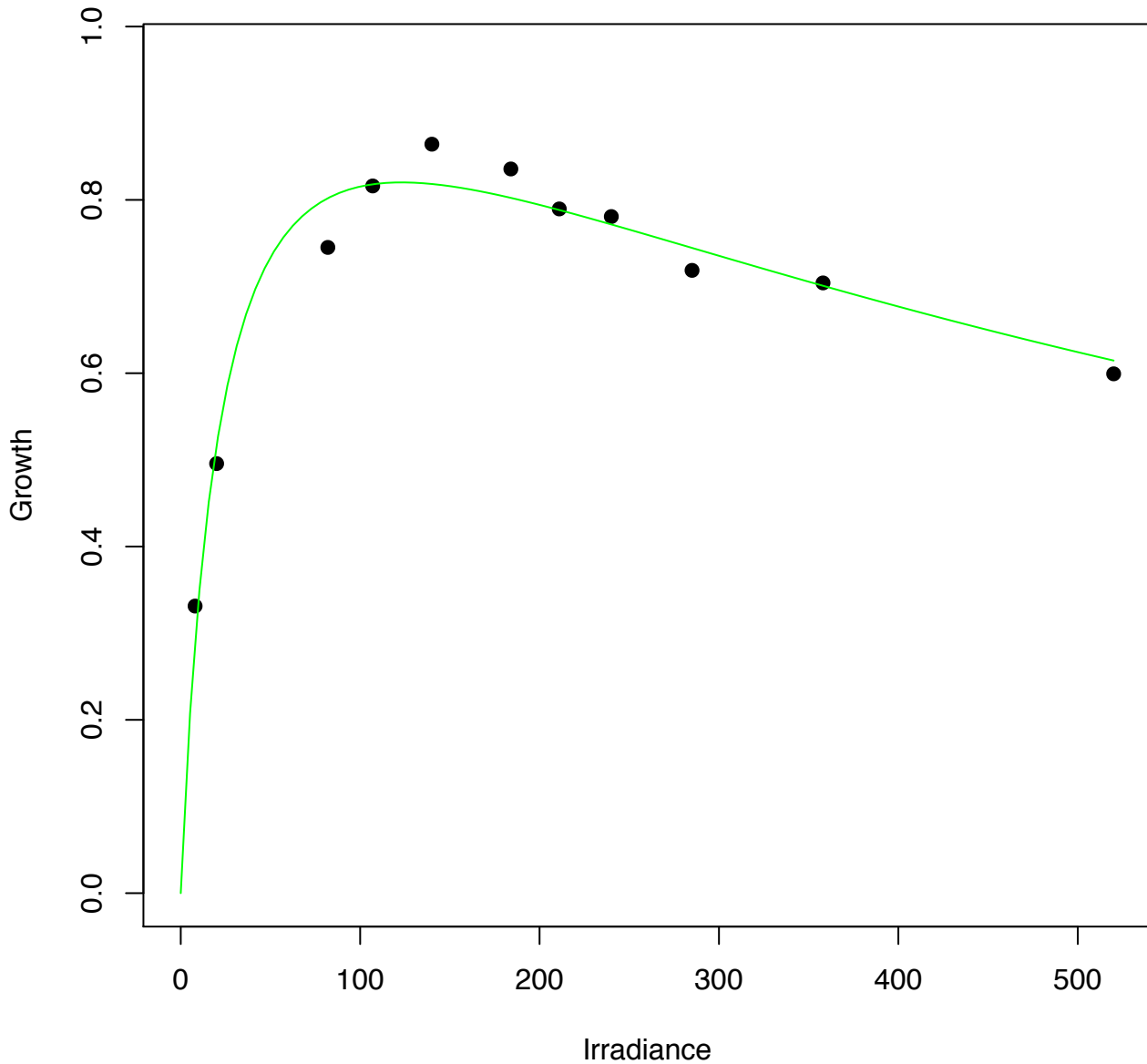
Scenedesmus crassus 32°C



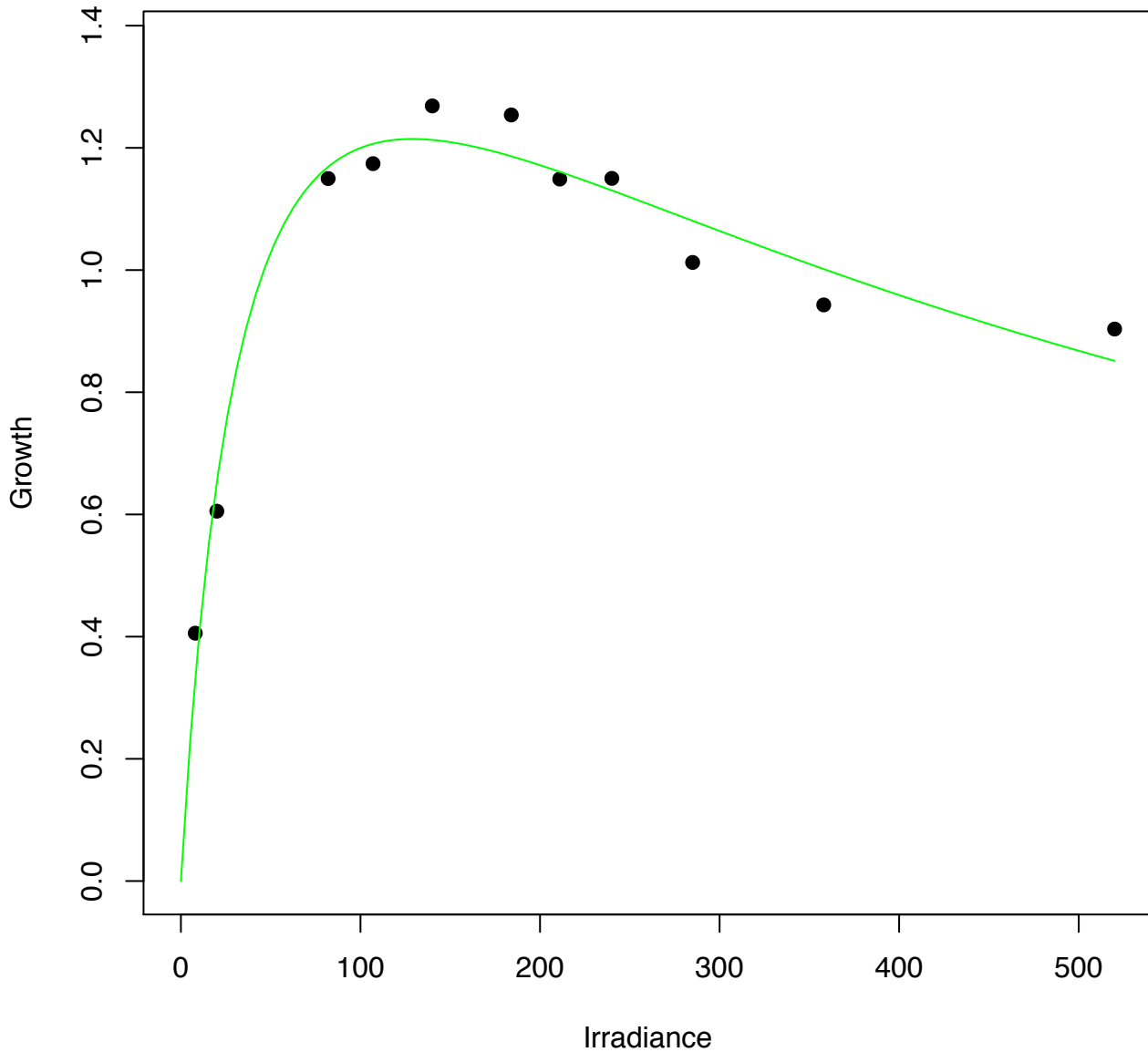
Coelastrum microporum 15°C



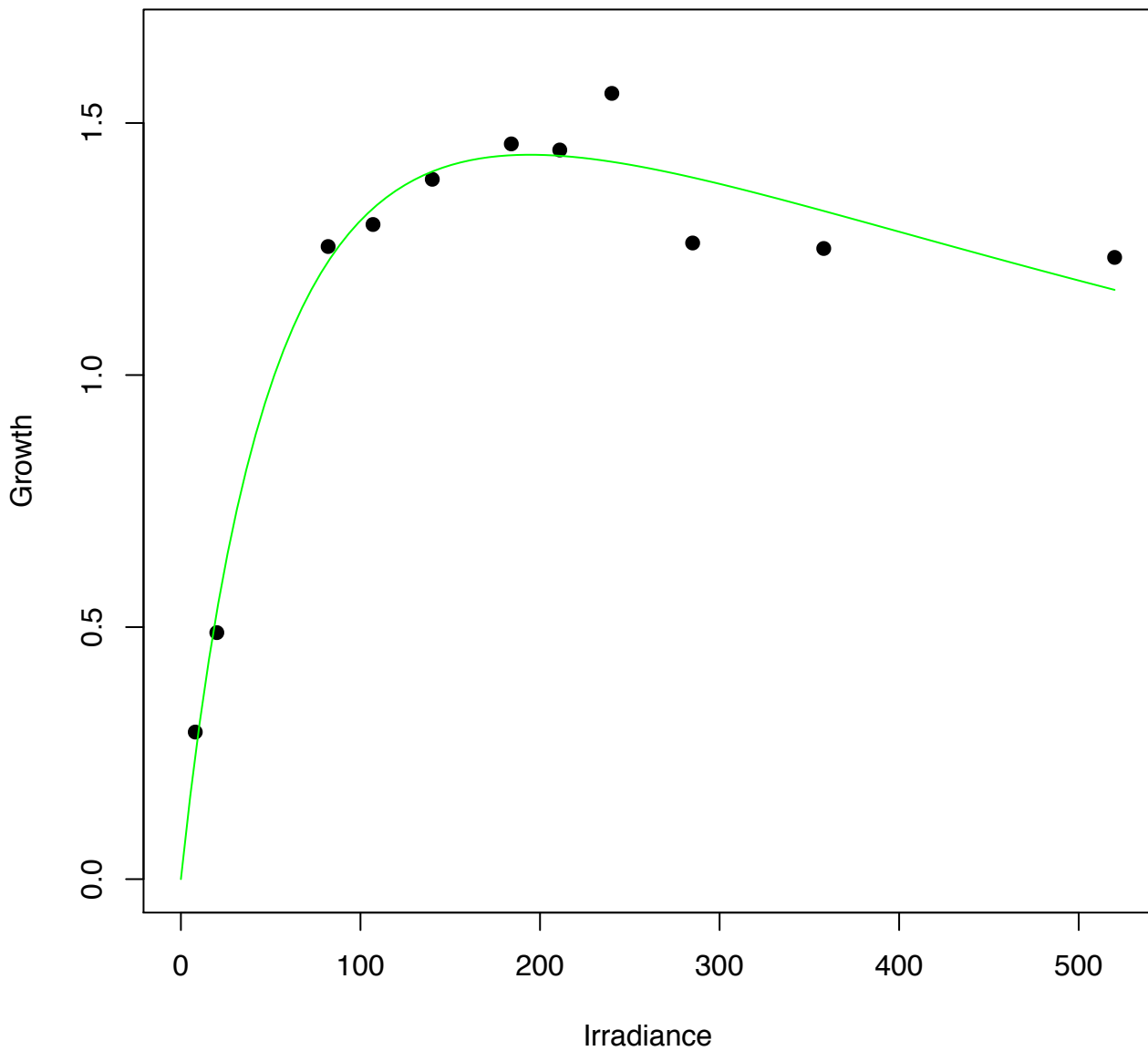
Coelastrum microporum 20°C



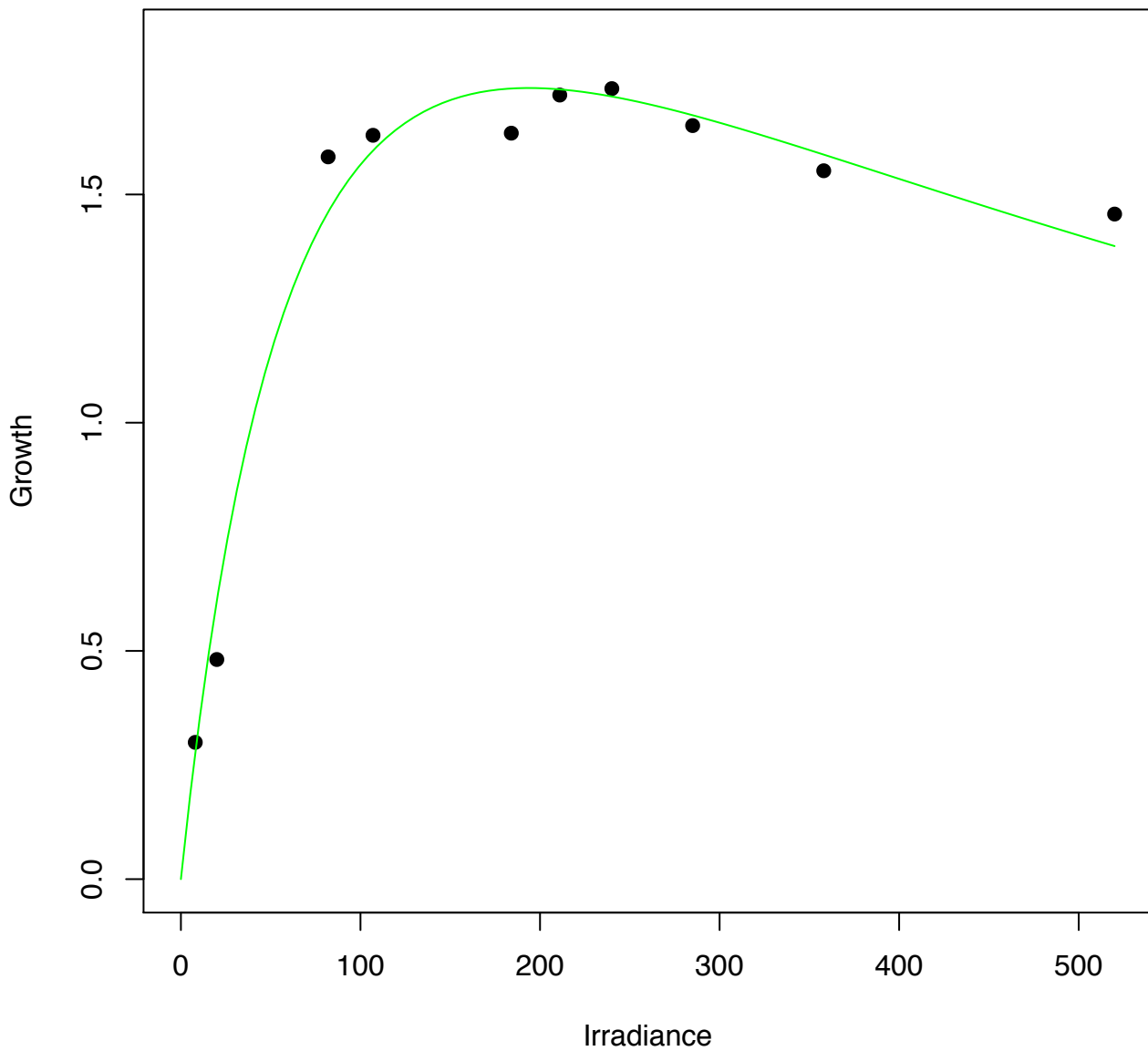
Coelastrum microporum 25°C



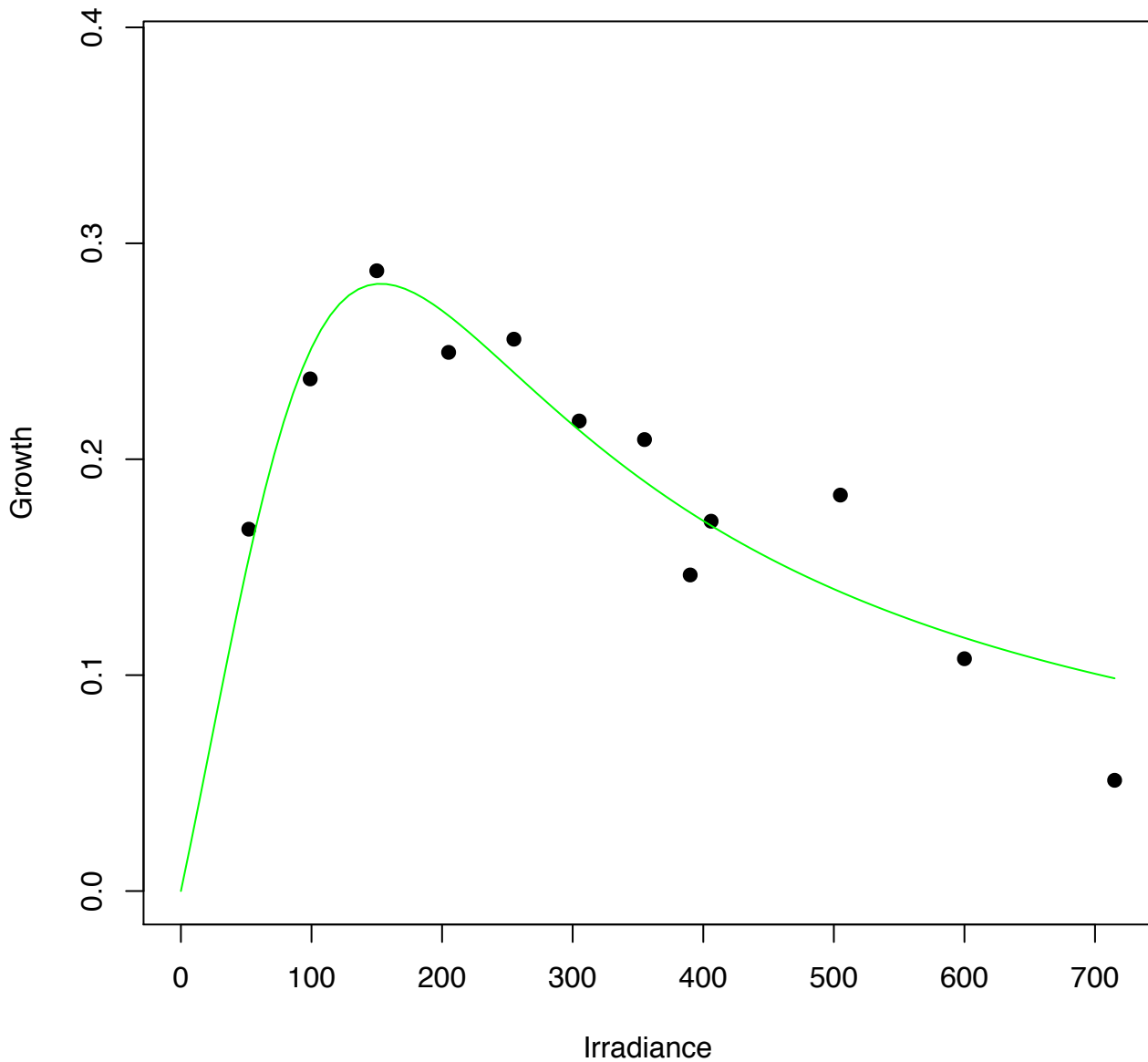
Coelastrum microporum 27°C



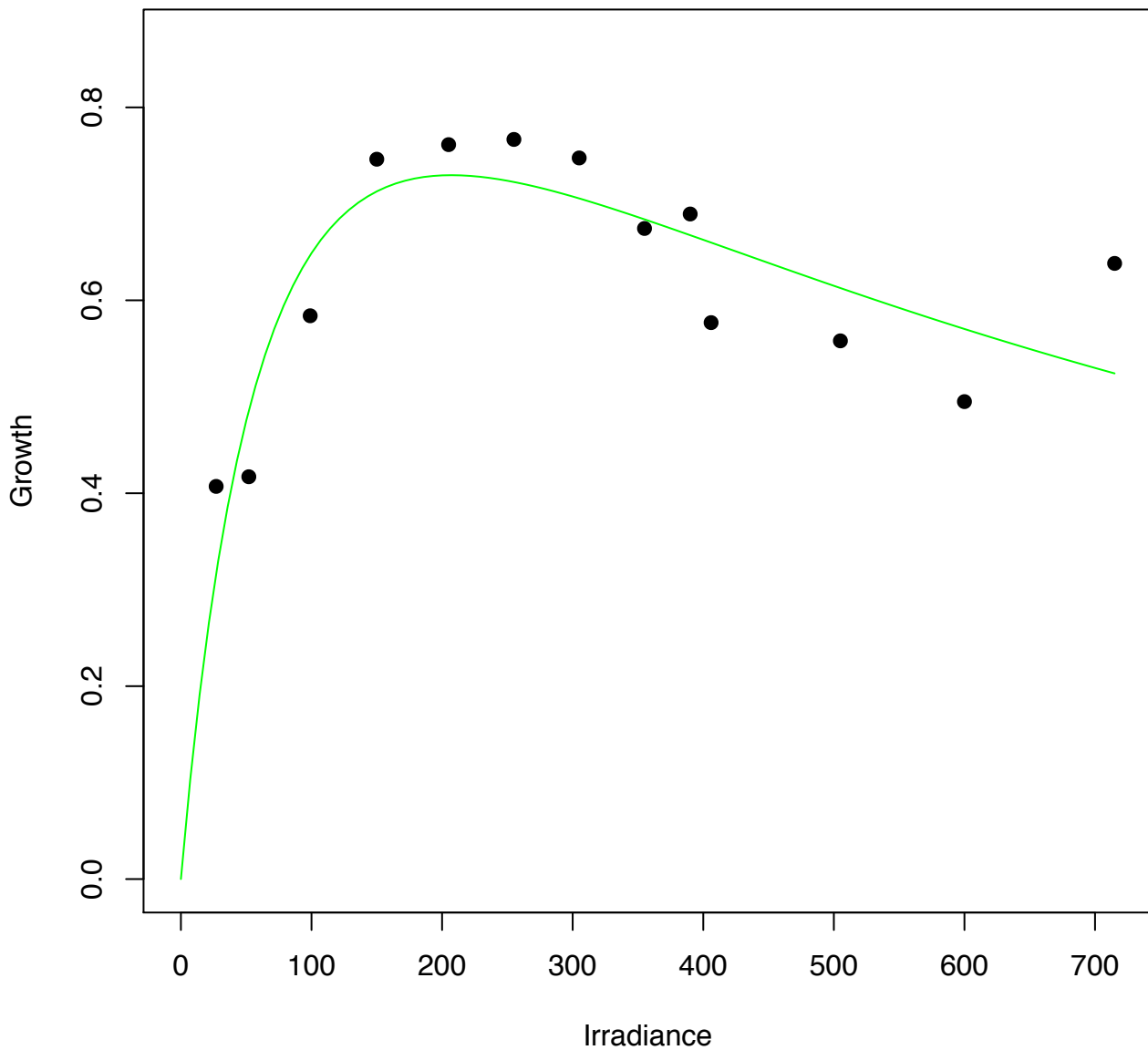
Coelastrum microporum 32°C



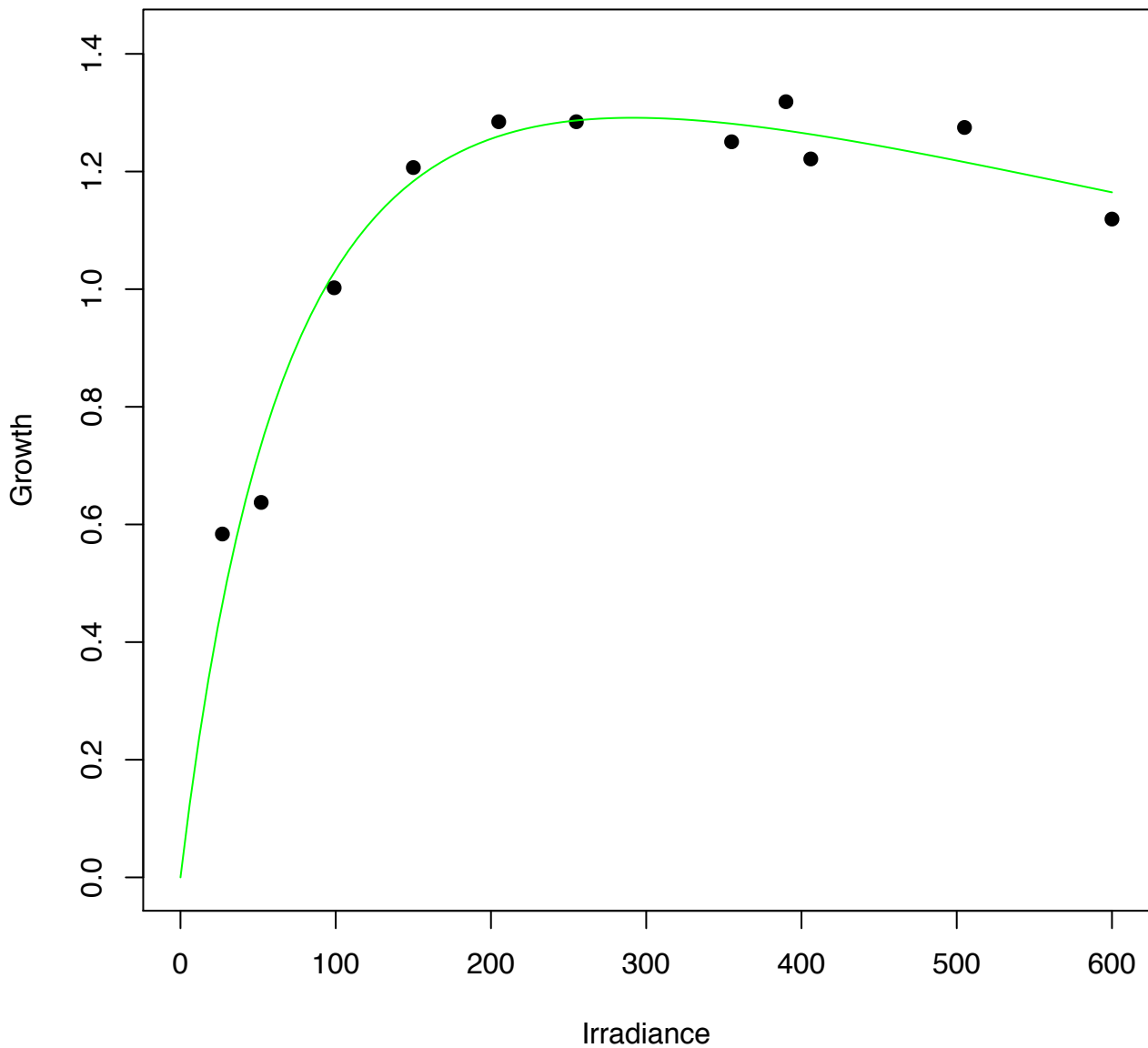
Dictyosphaerium pulchellum 15°C



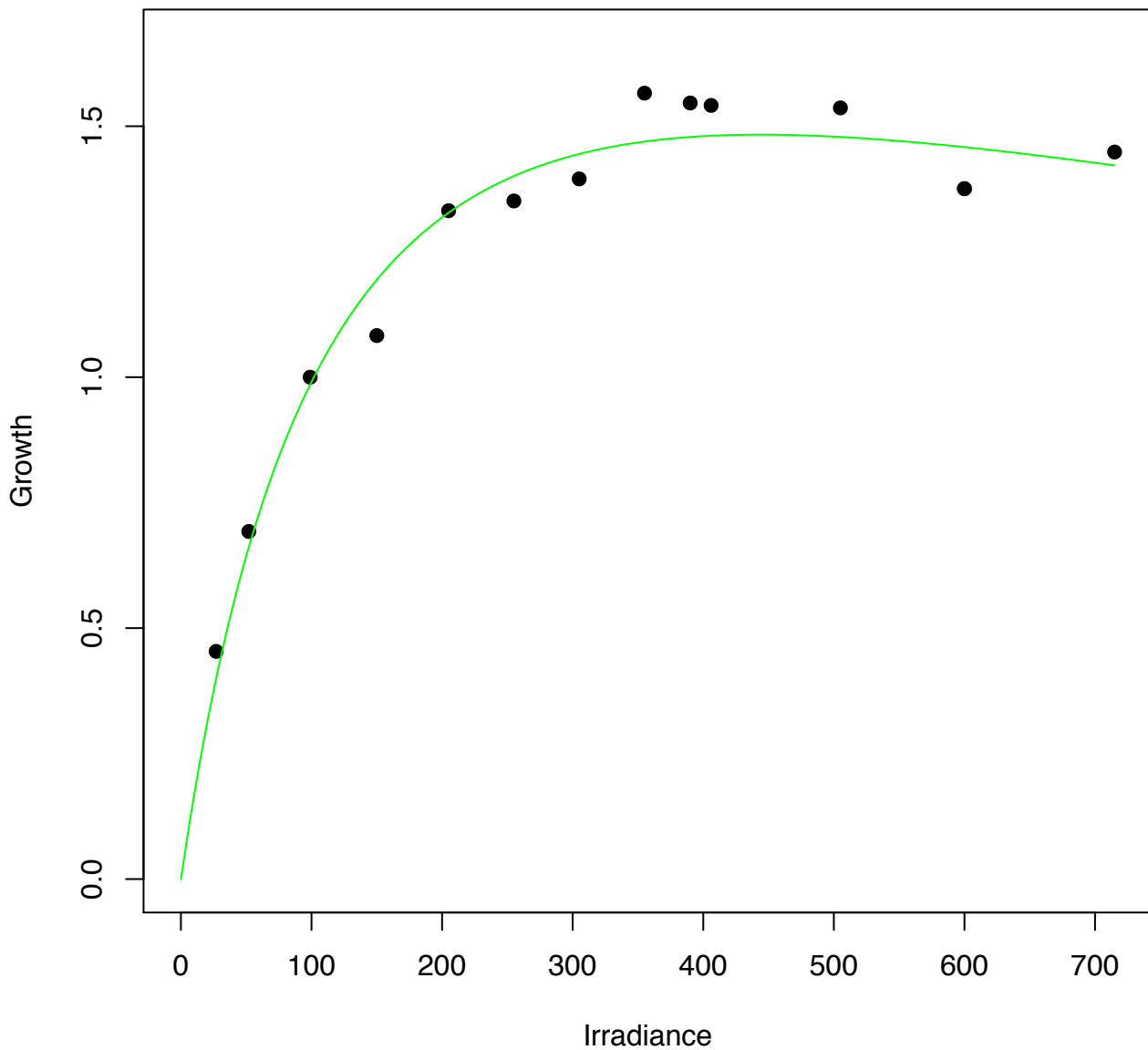
Dictyosphaerium pulchellum 20°C



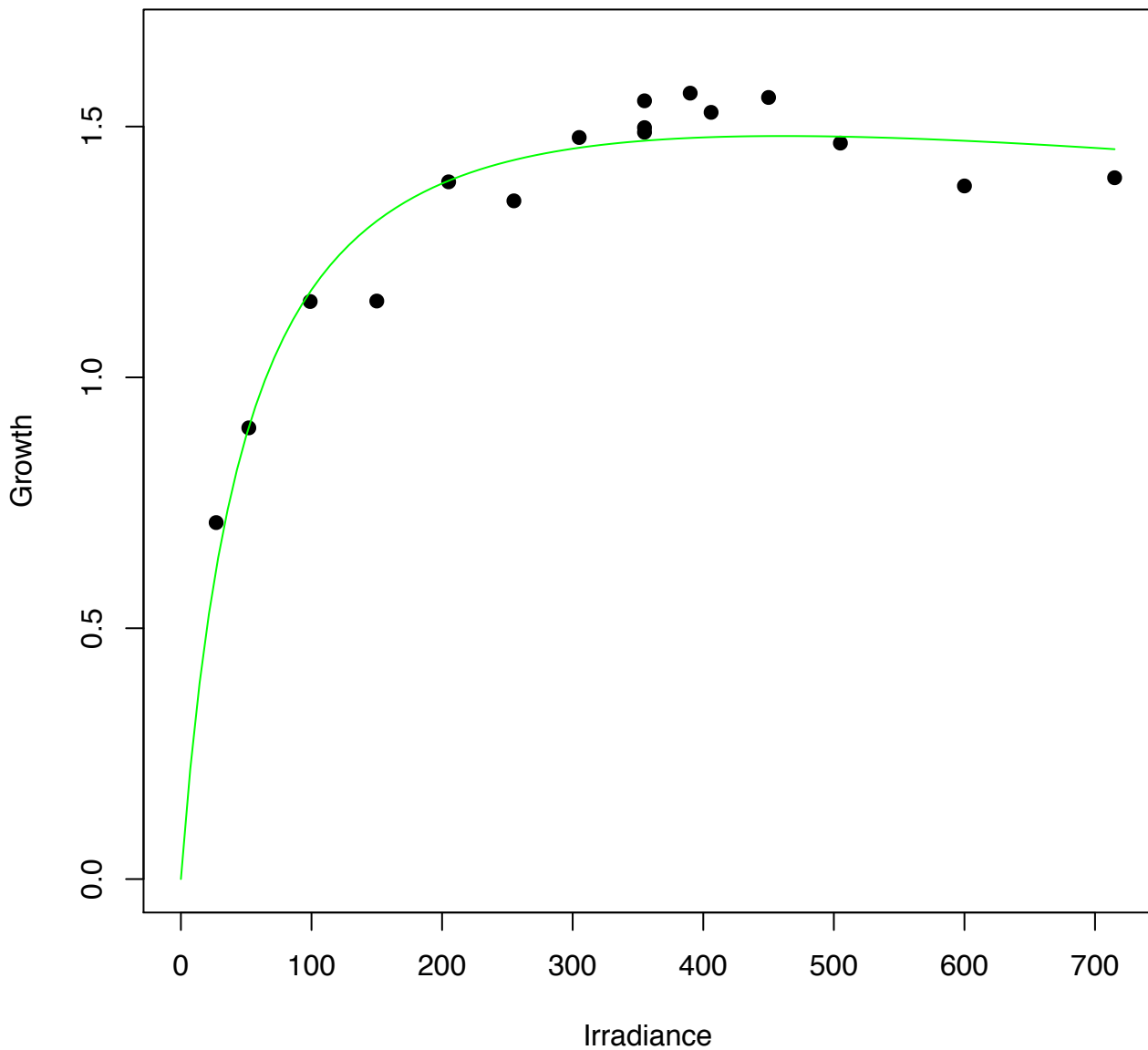
Dictyosphaerium pulchellum 25°C



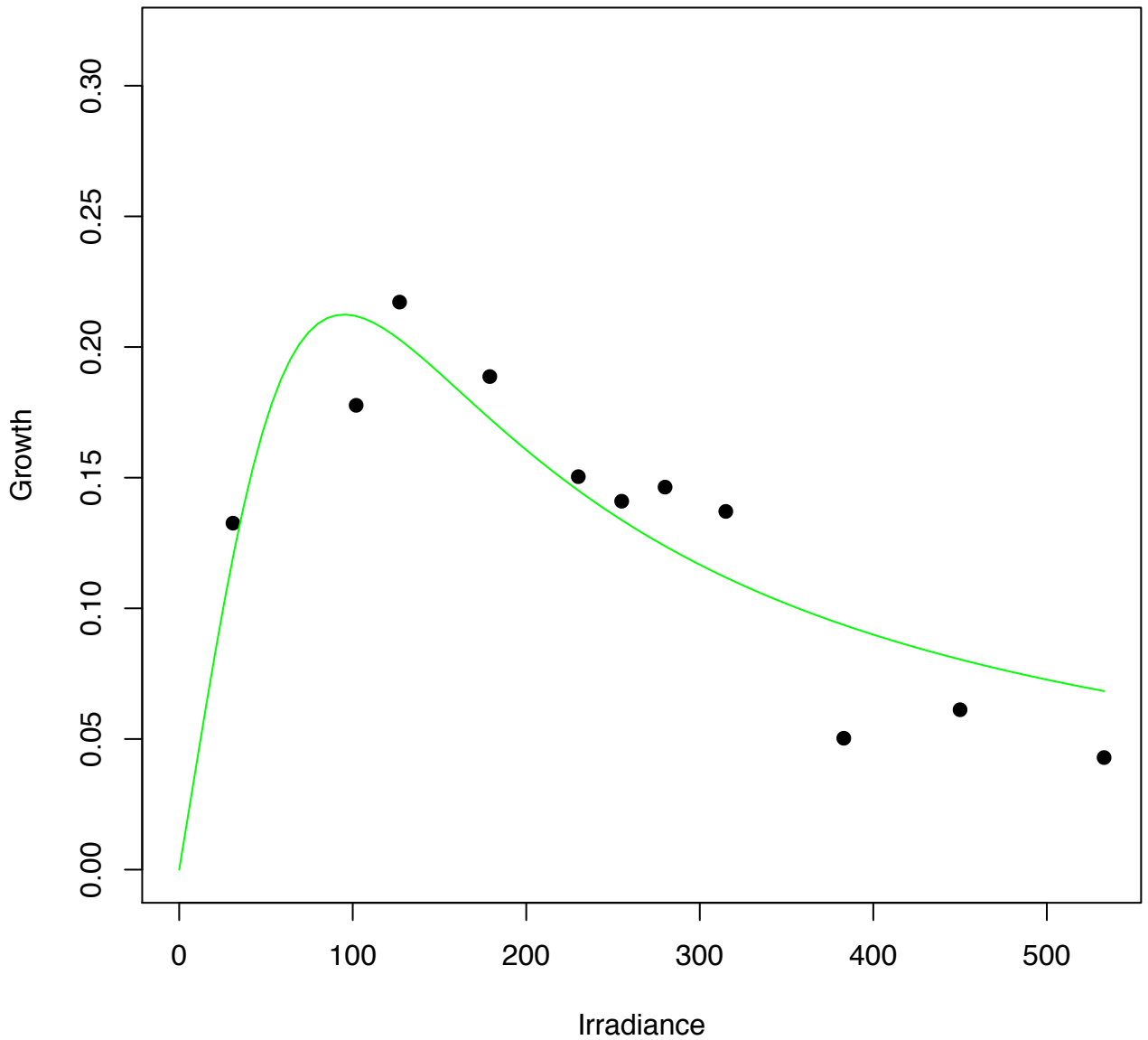
Dictyosphaerium pulchellum 28°C



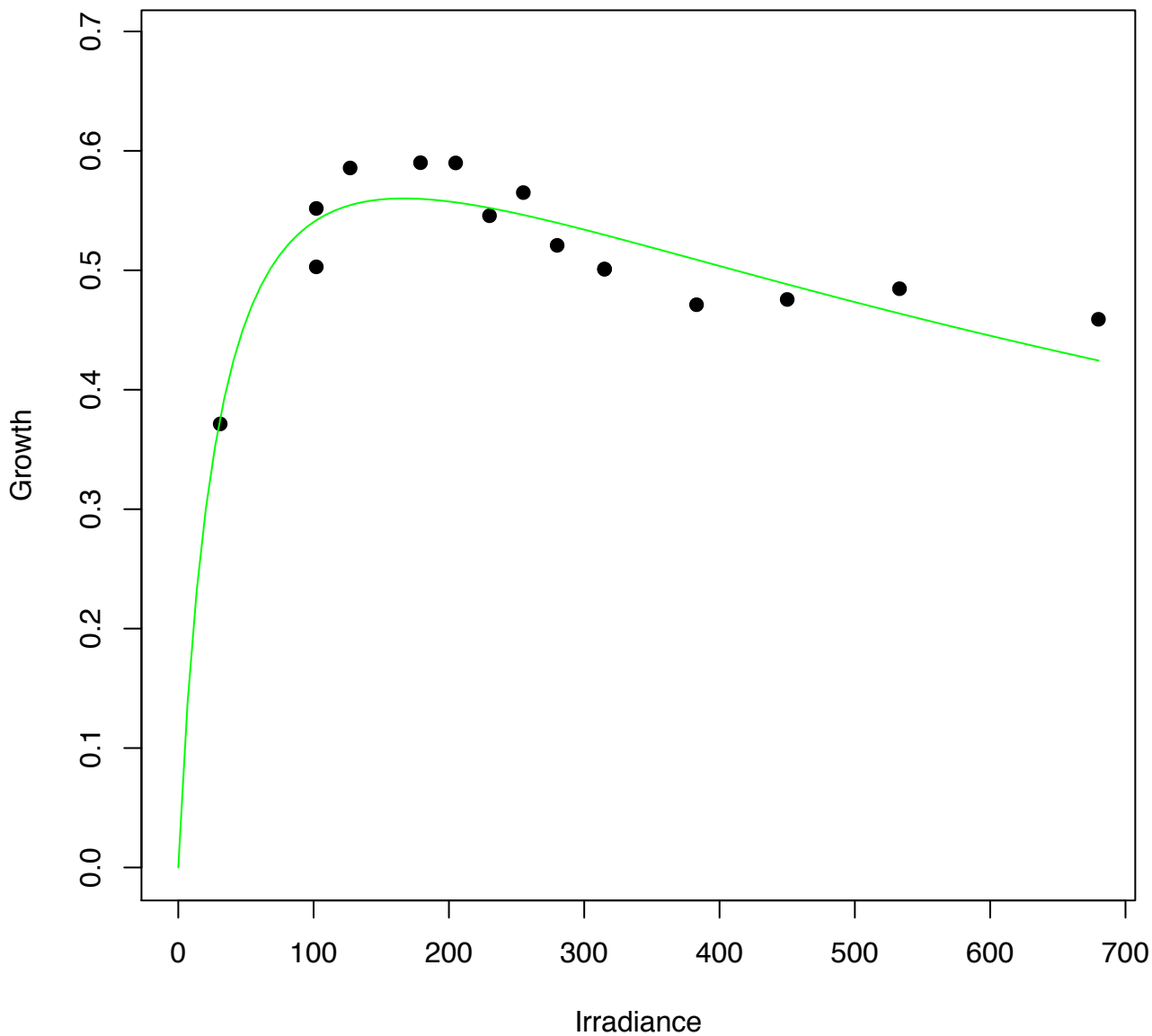
Dictyosphaerium pulchellum 32°C



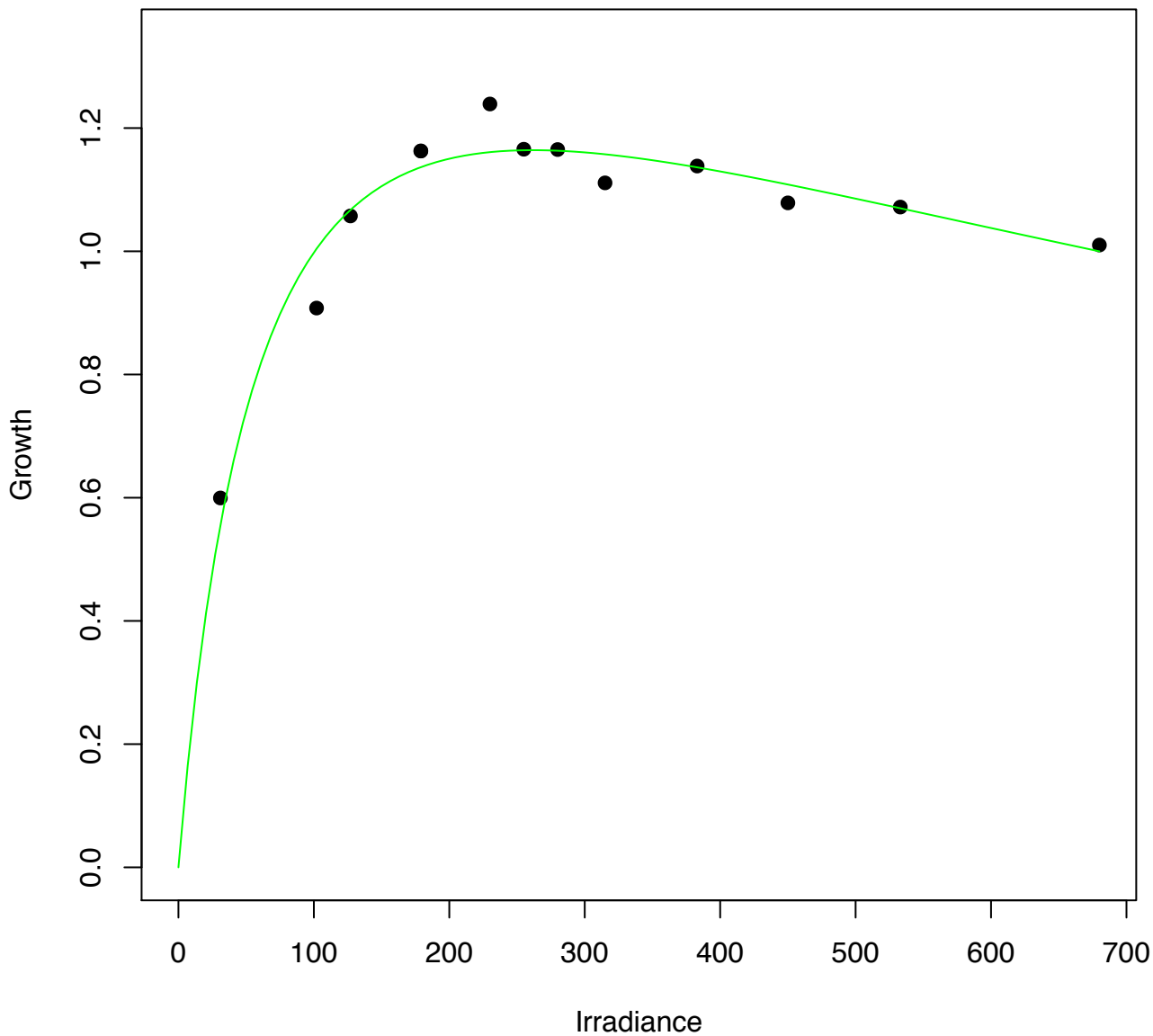
Scenedesmus quadricauda 15°C



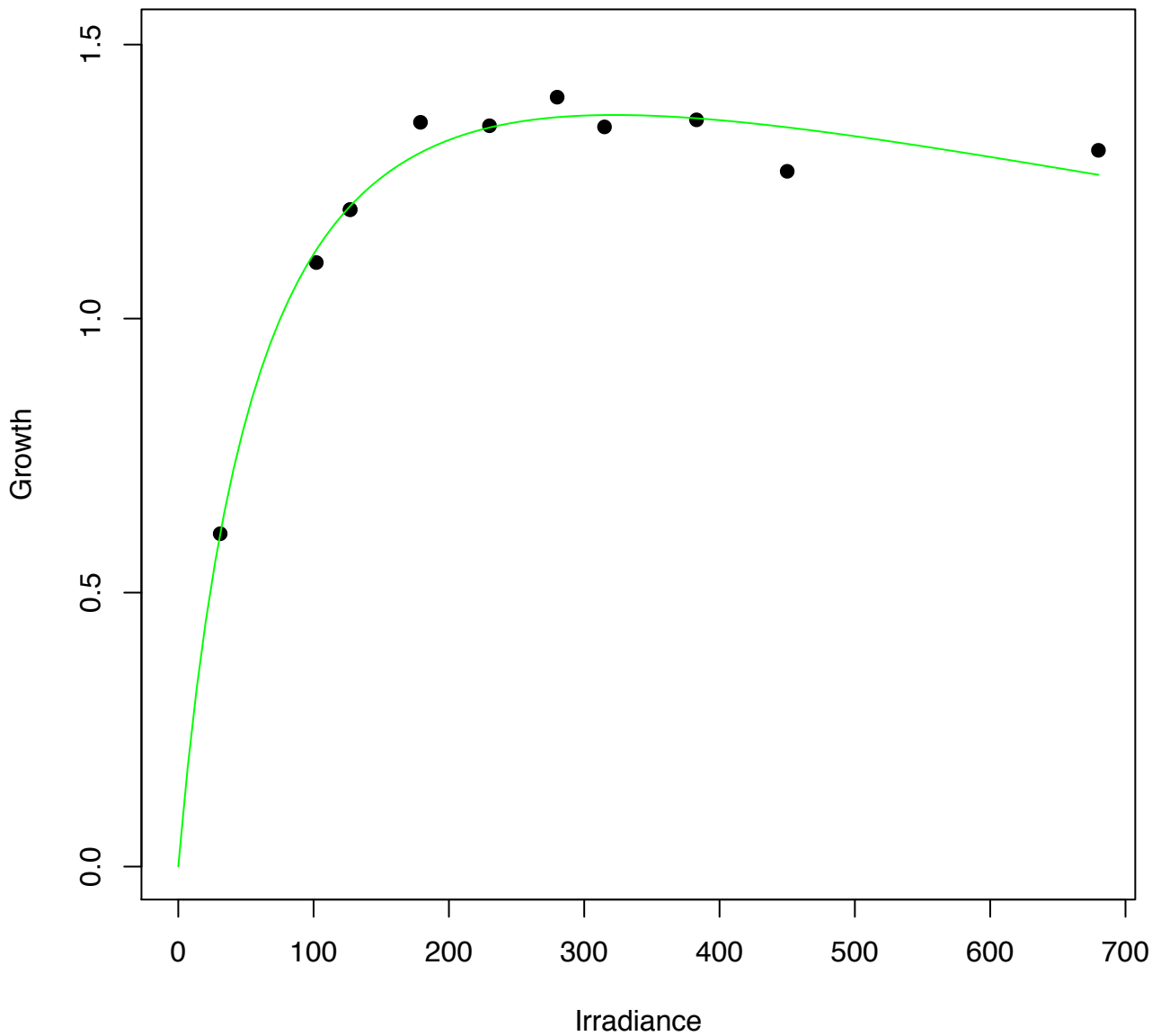
Scenedesmus quadricauda 20°C



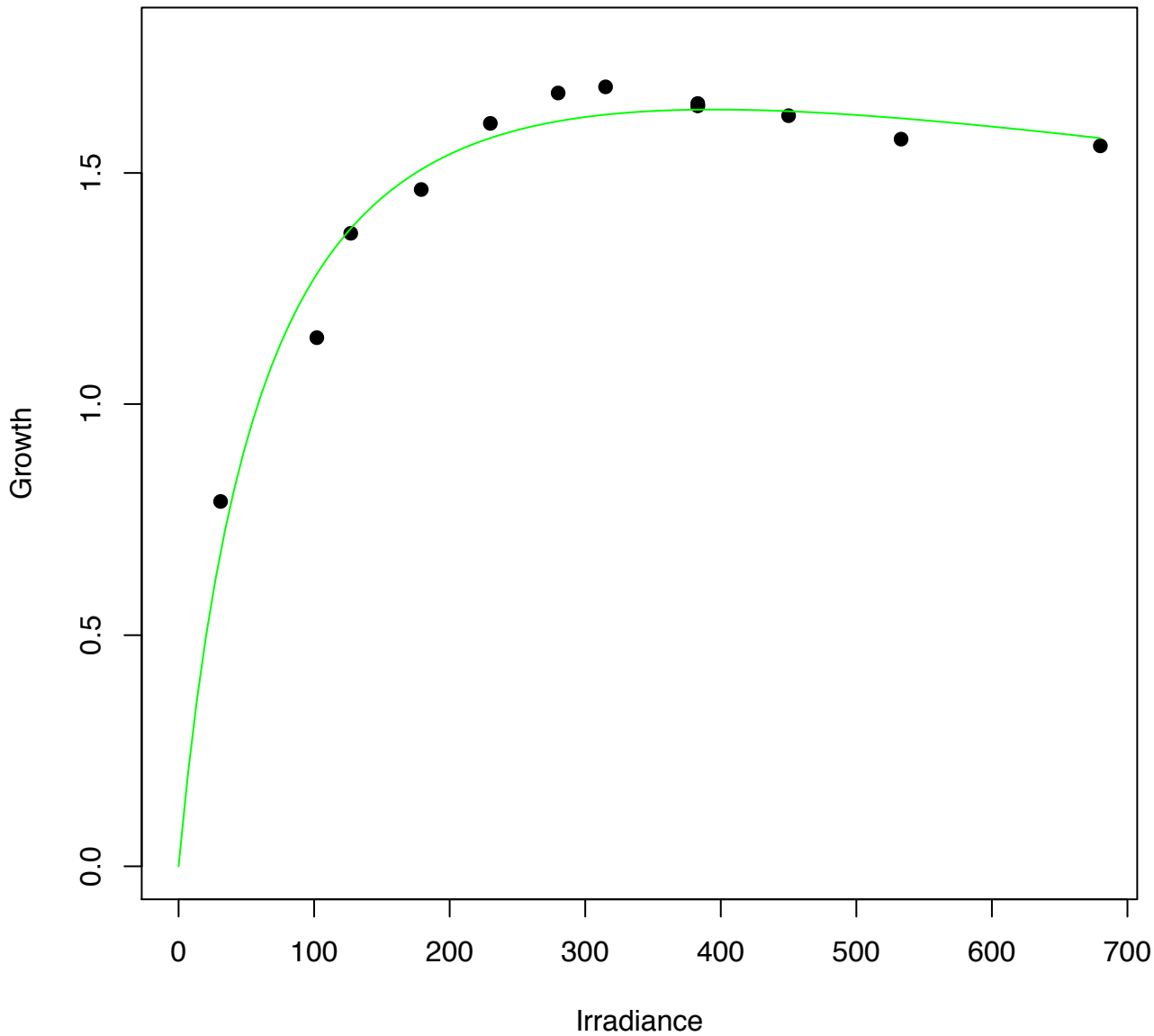
Scenedesmus quadricauda 25°C



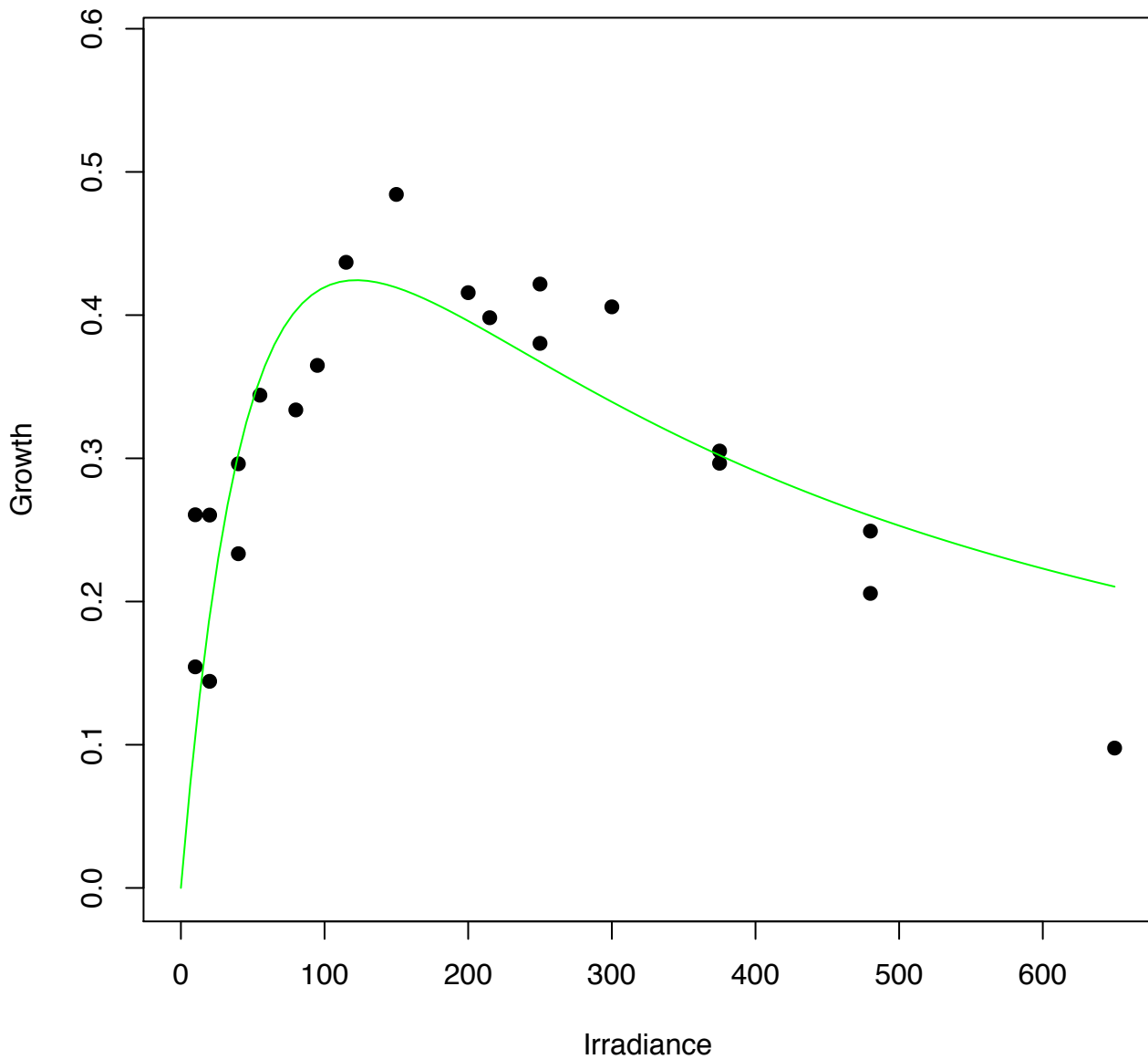
Scenedesmus quadricauda 27°C



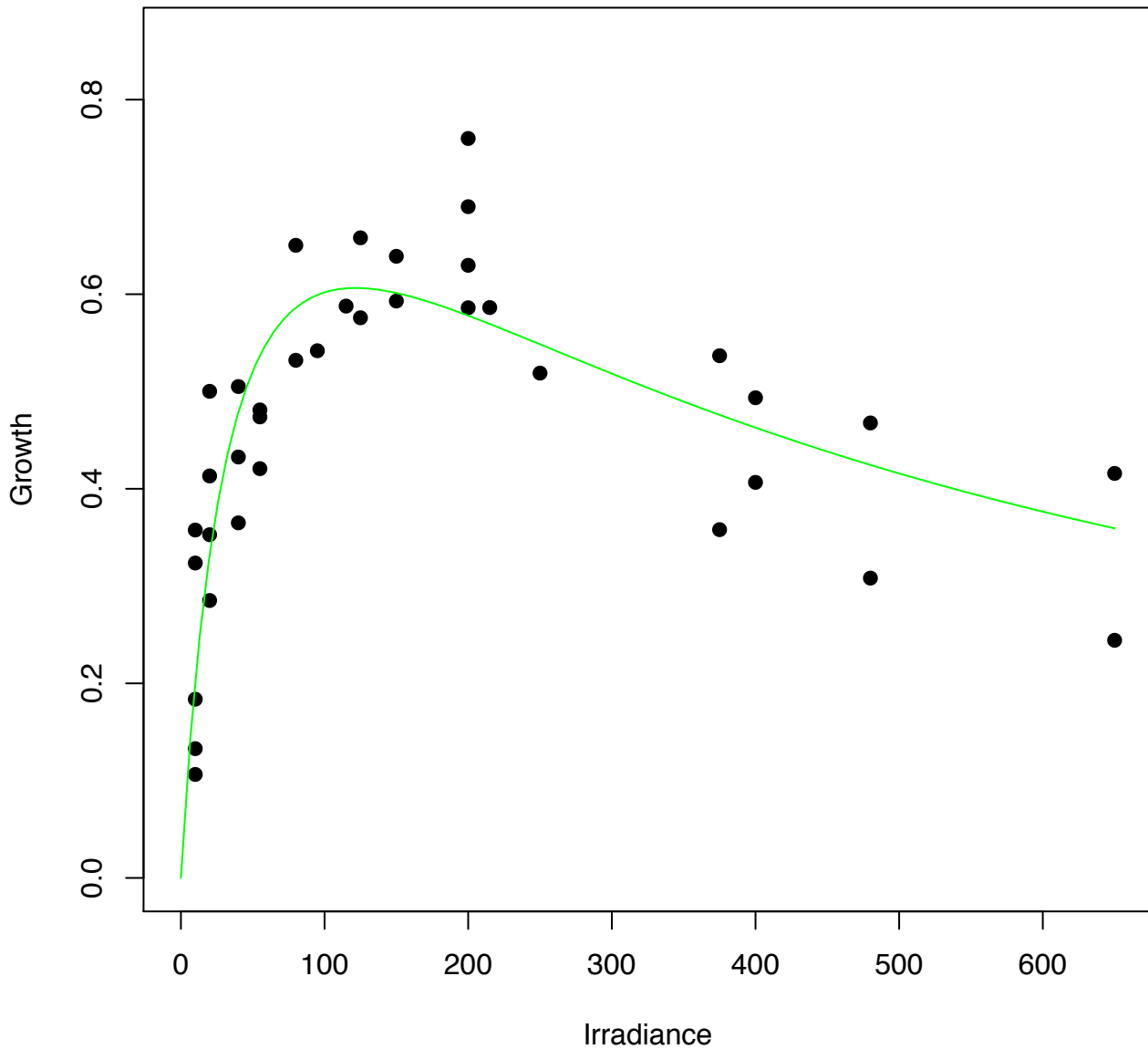
Scenedesmus quadricauda 32°C



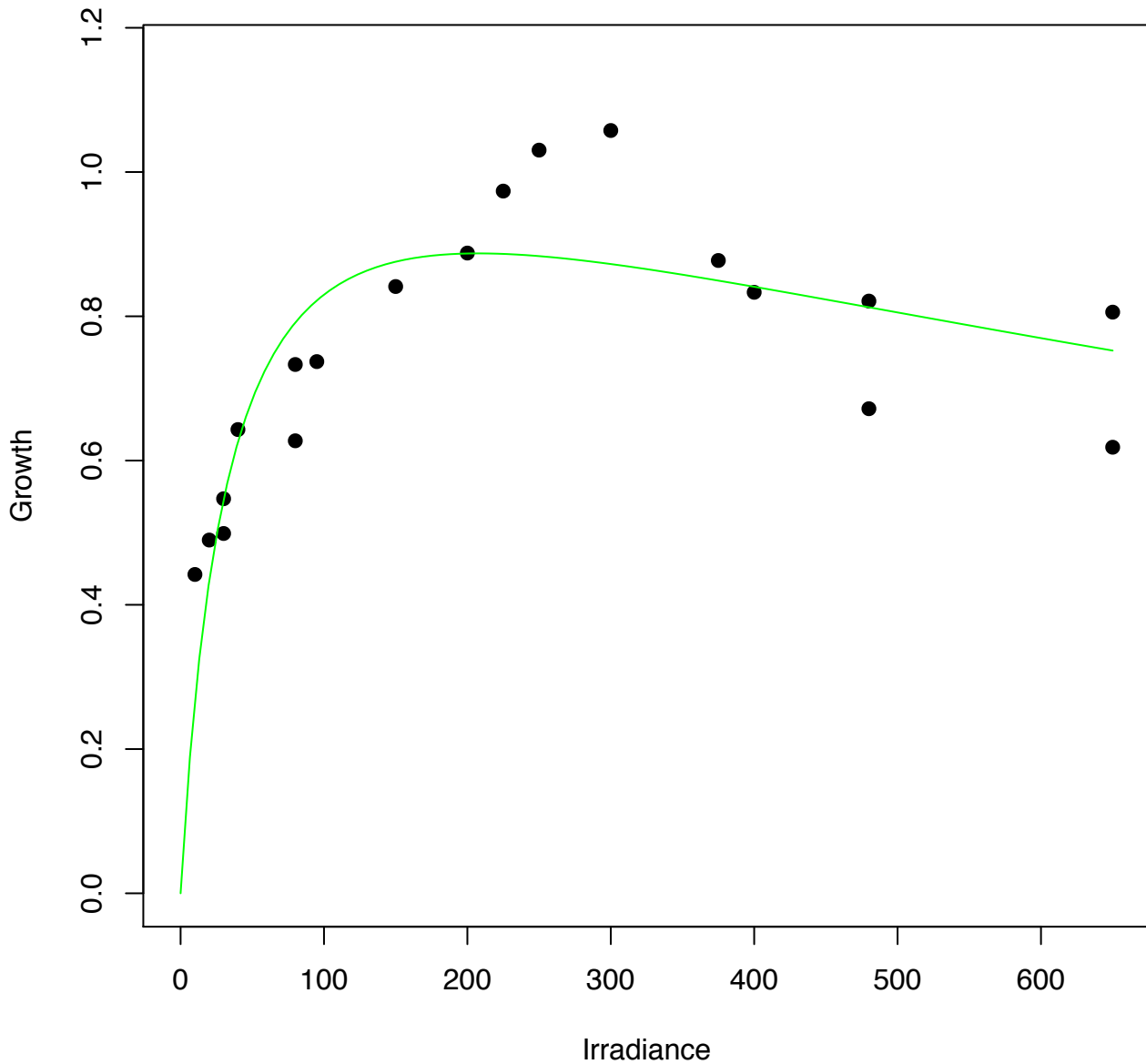
Fragilaria bidens 10°C



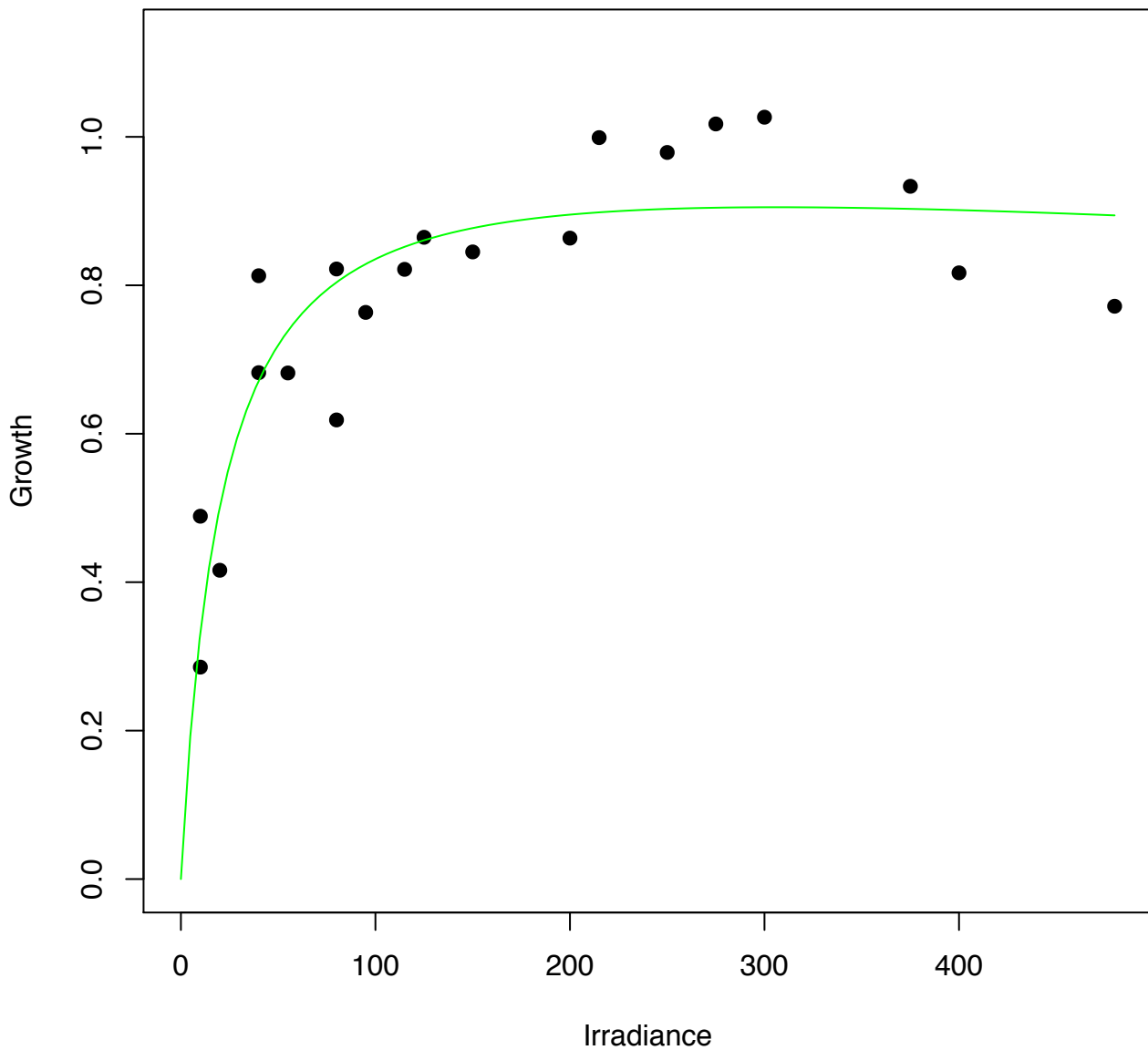
Fragilaria bidens 15°C



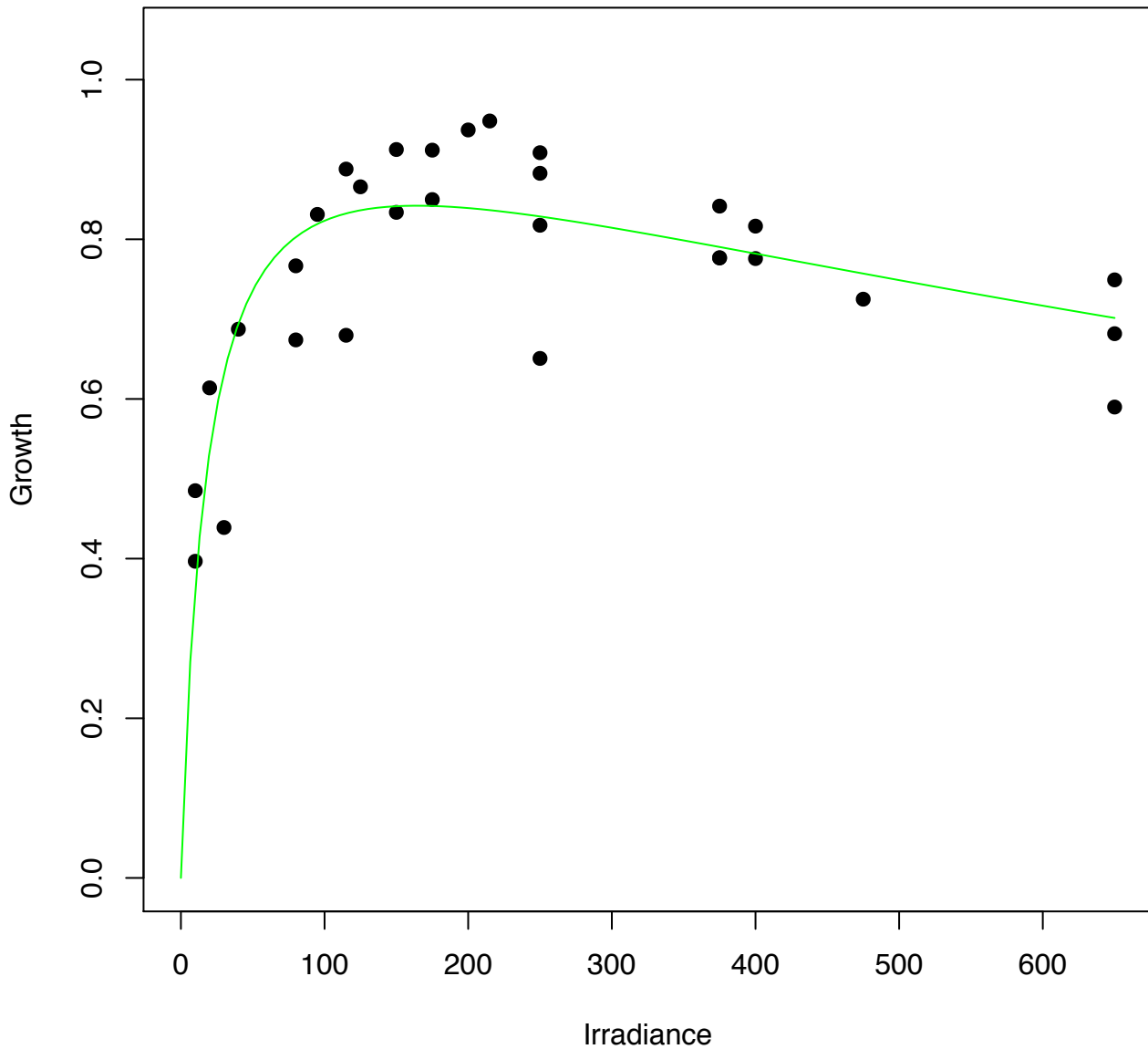
Fragilaria bidens 20°C



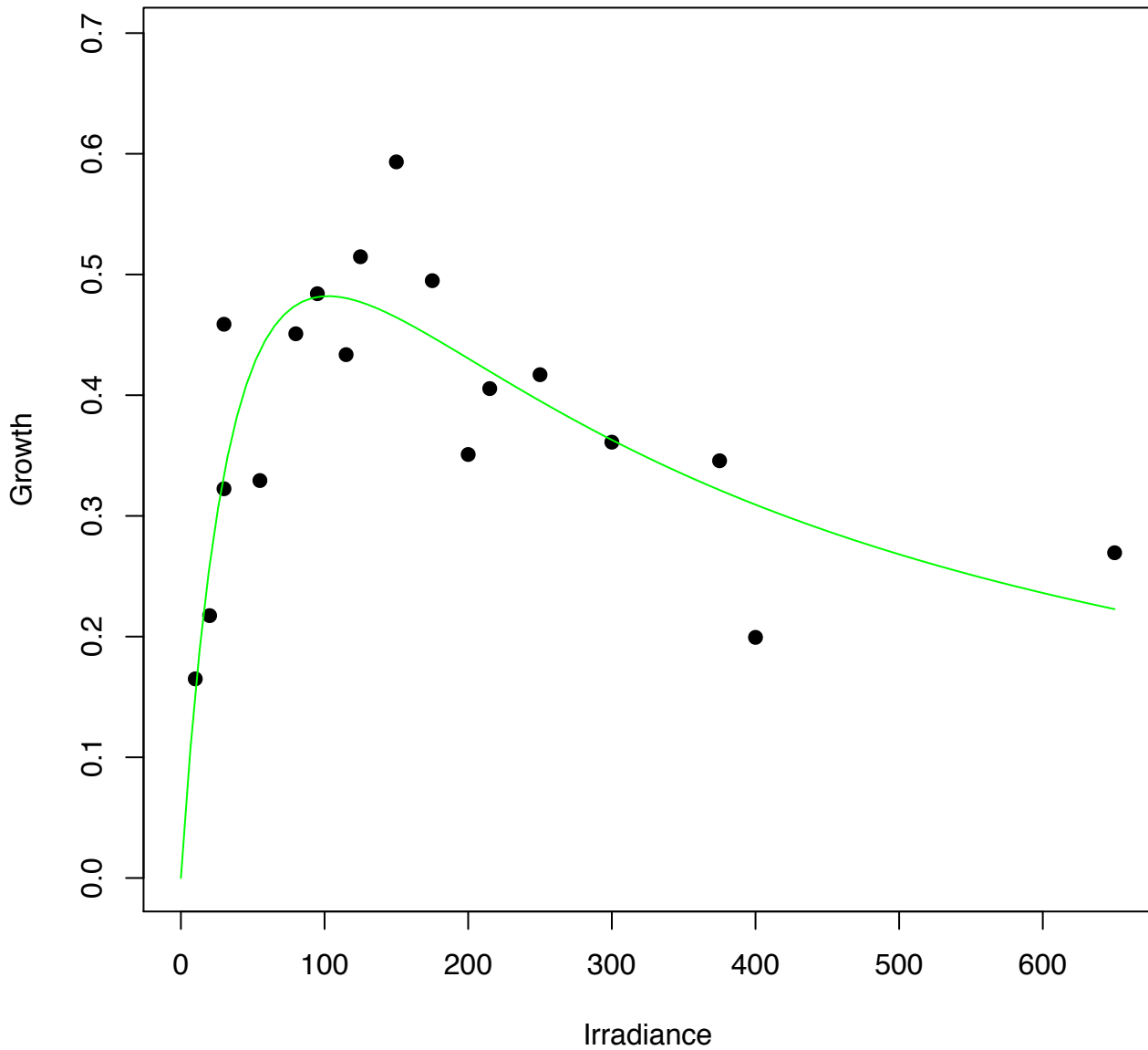
Fragilaria bidens 22°C



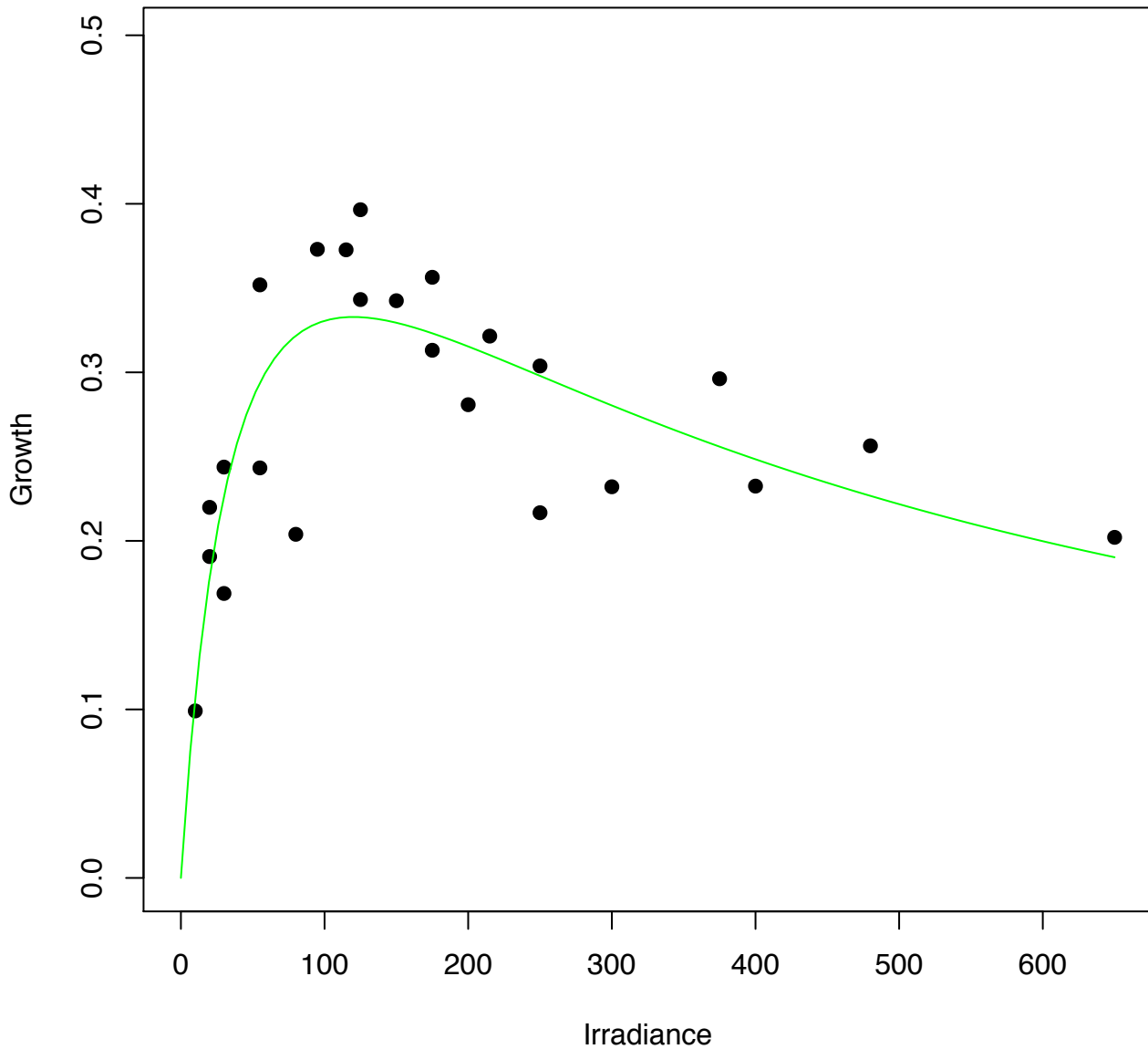
Fragilaria bidens 22°C



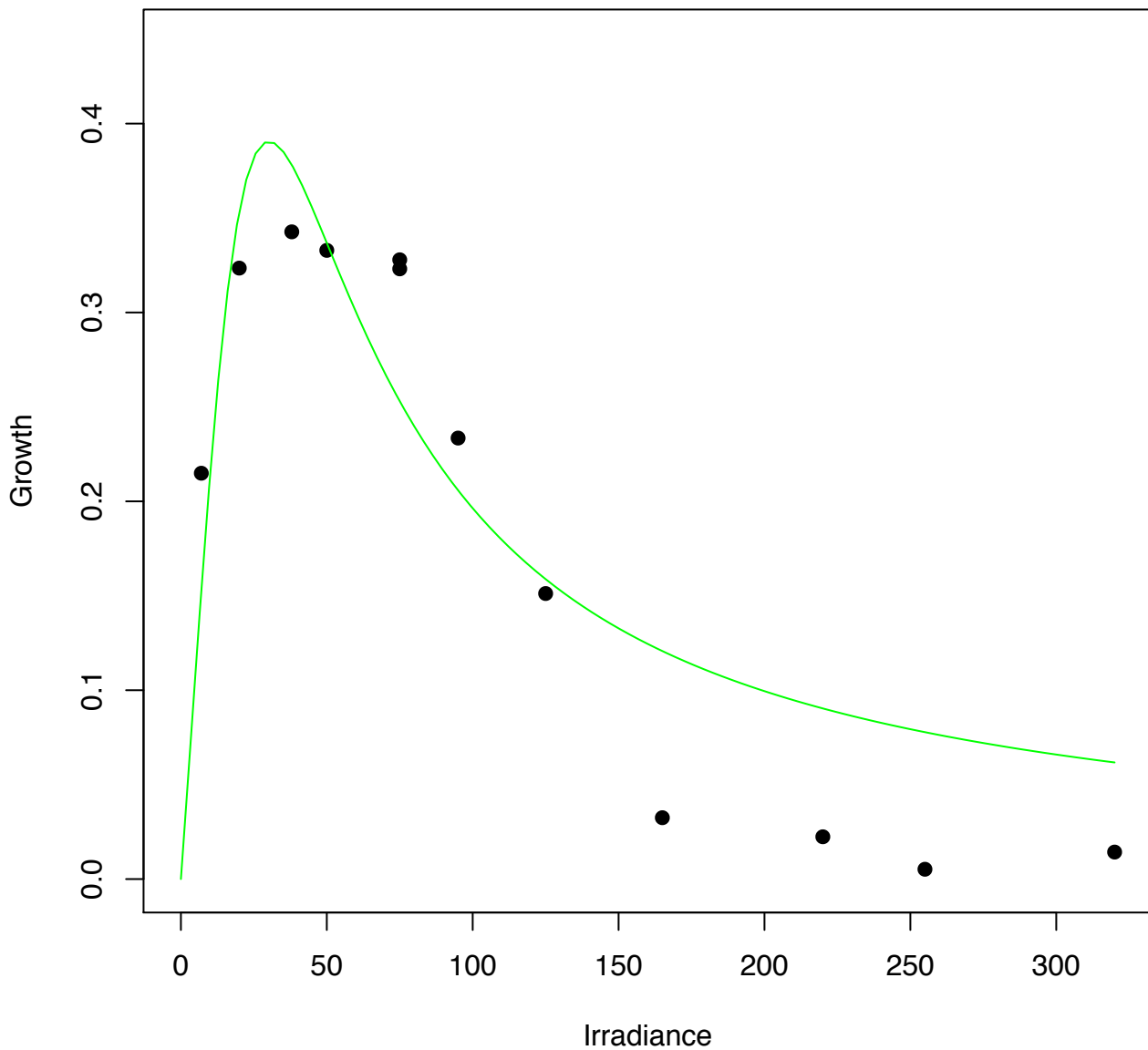
Fragilaria bidens 29°C



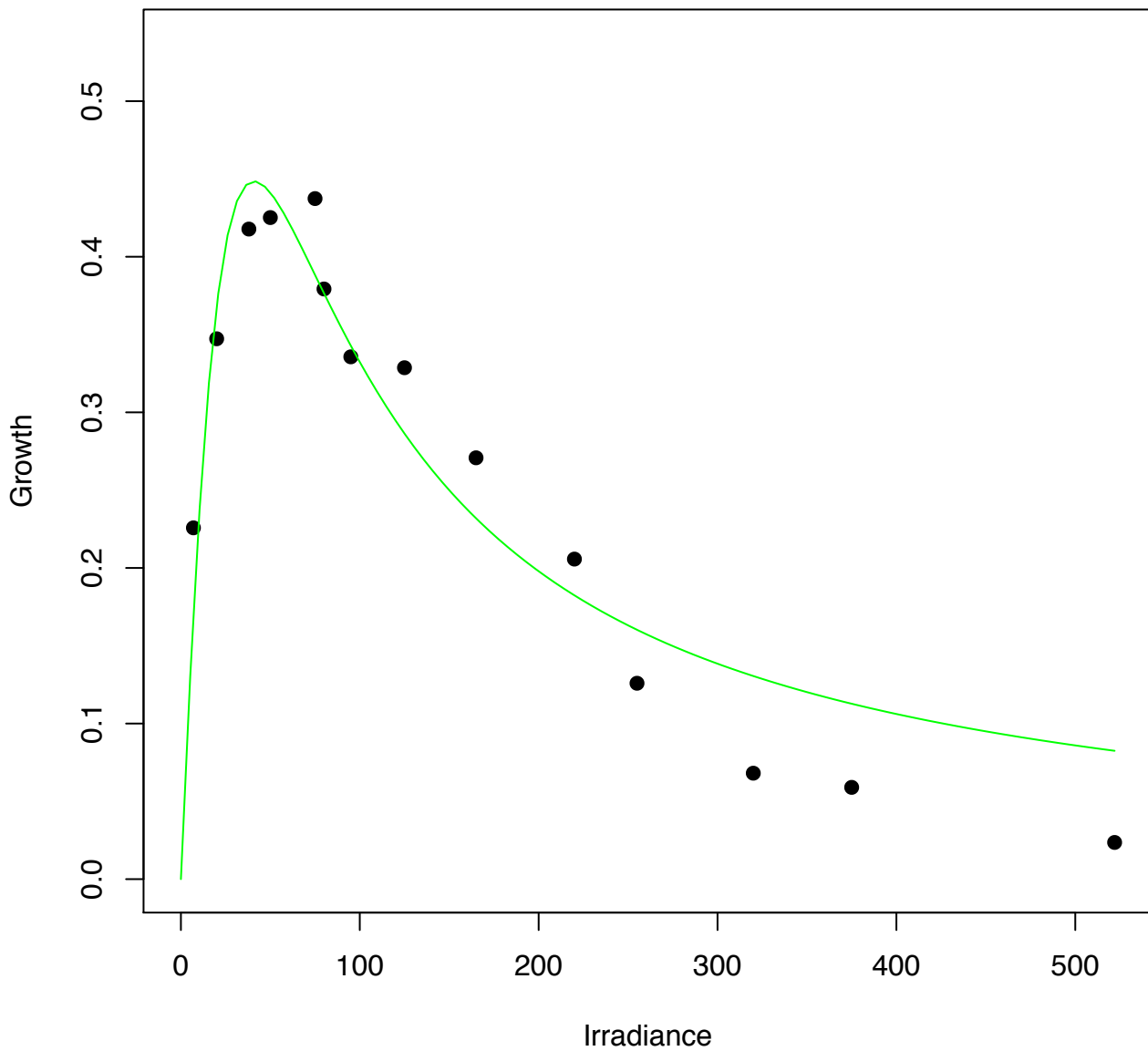
Fragilaria bidens 32°C



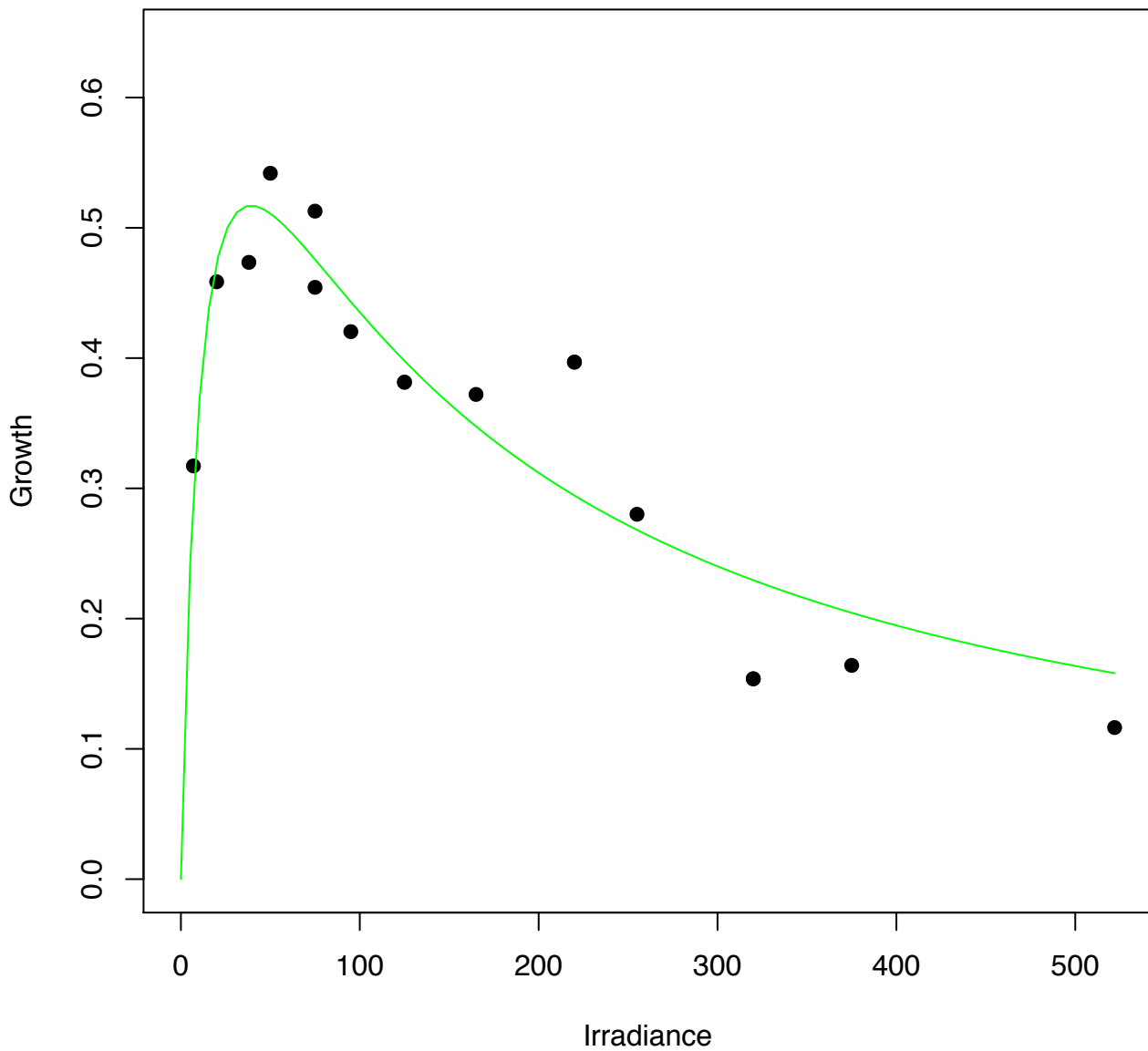
Anabaena cylindrica 15°C



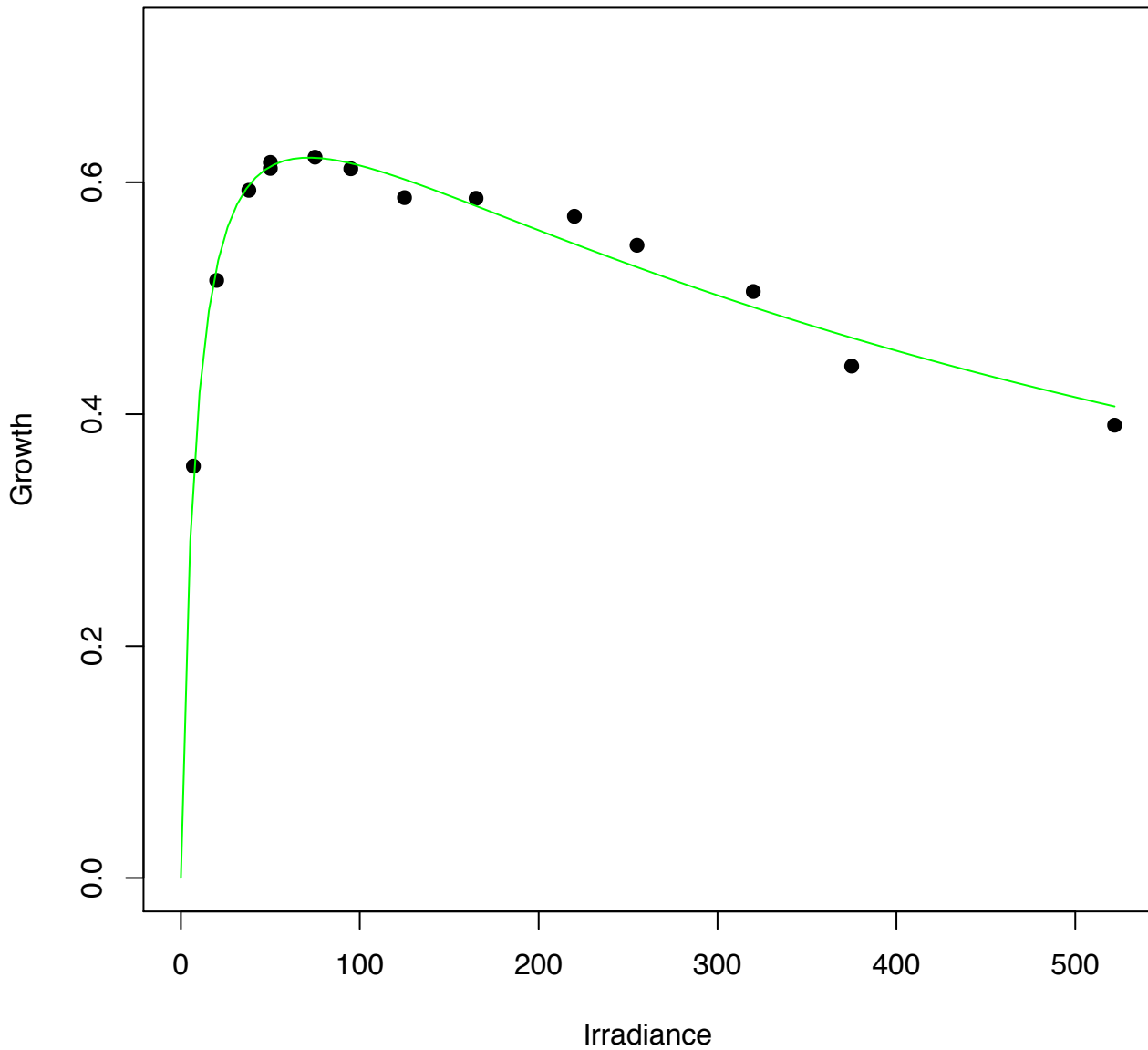
Anabaena cylindrica 20°C



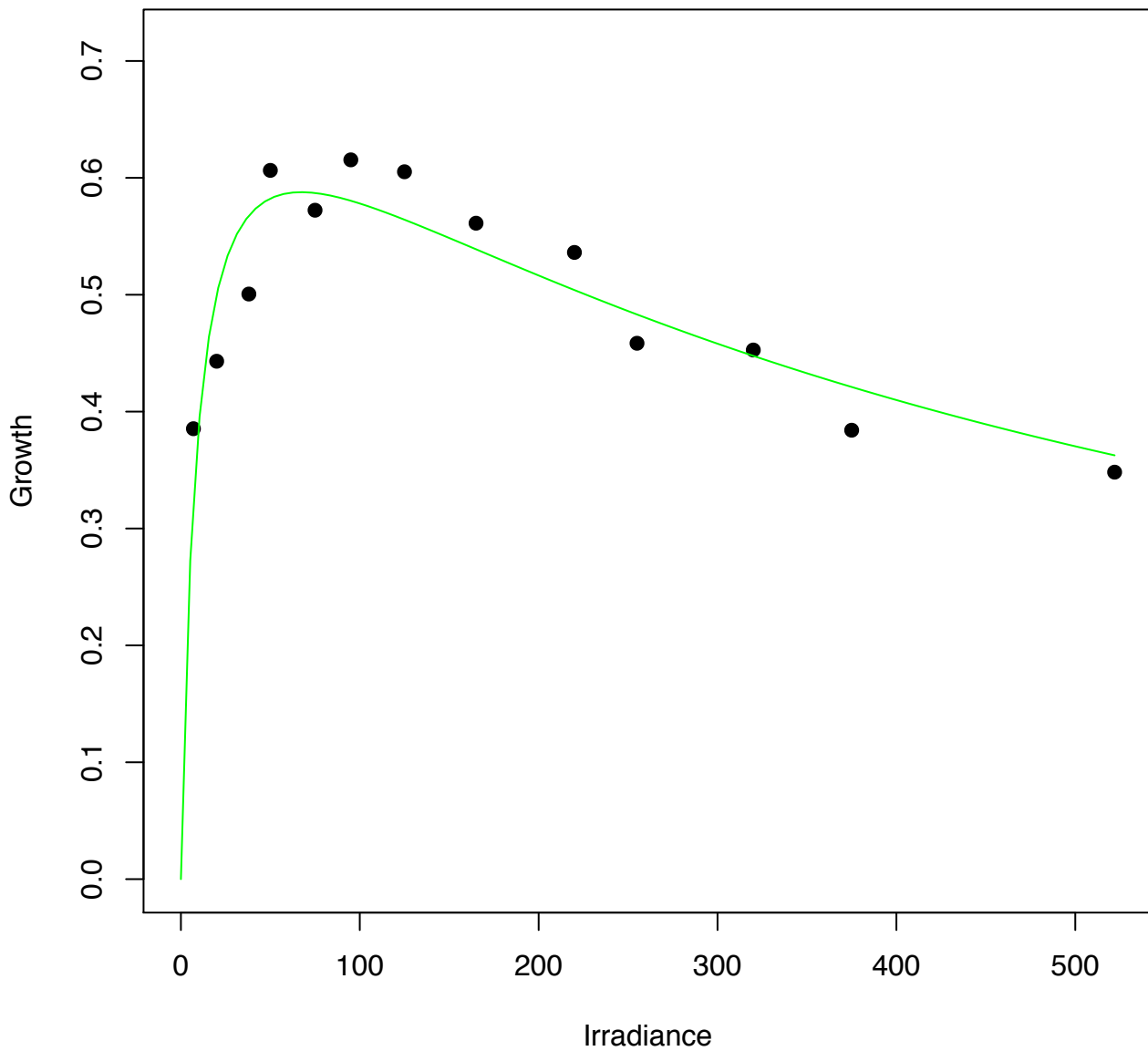
Anabaena cylindrica 25°C



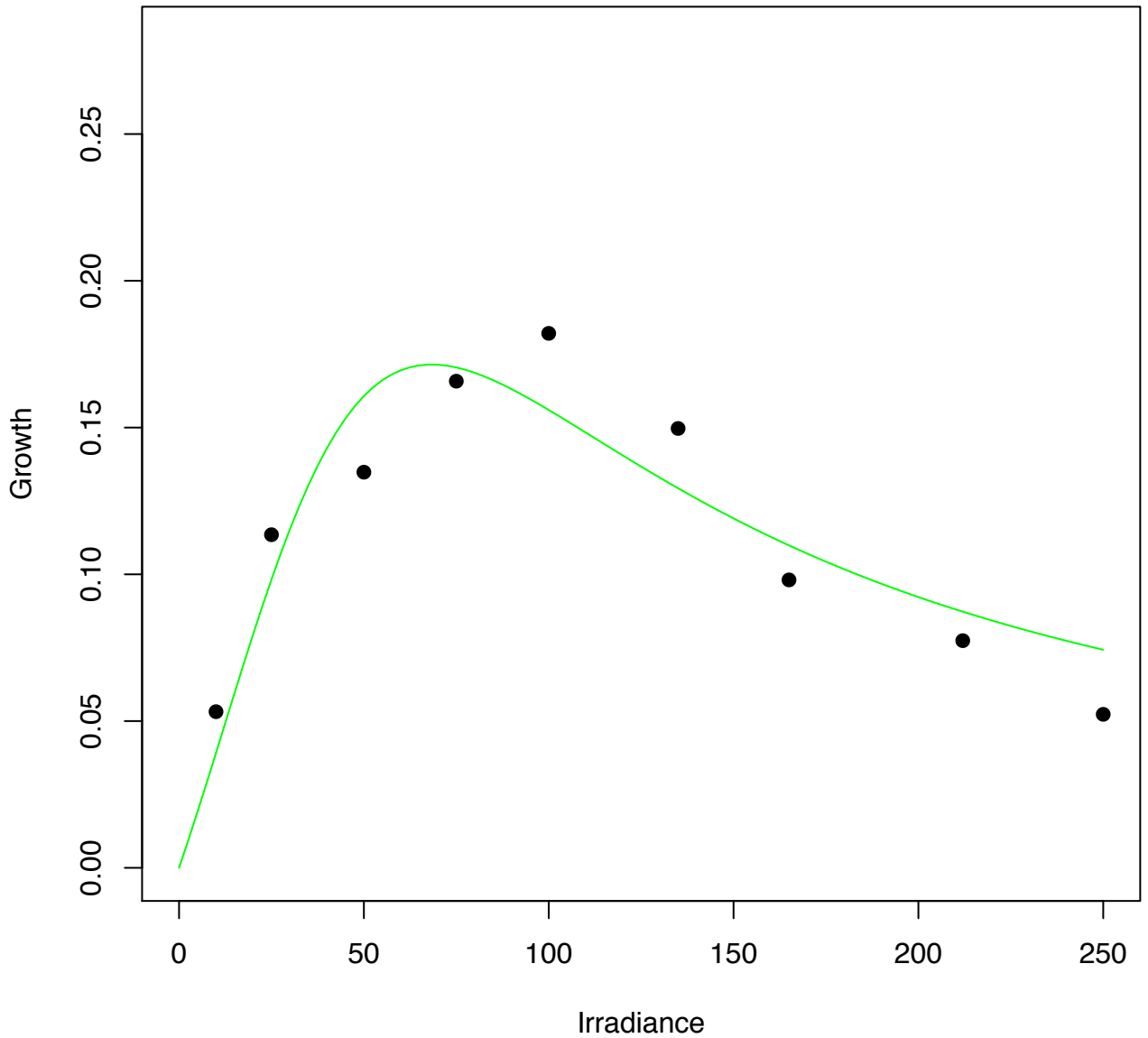
Anabaena cylindrica 29°C



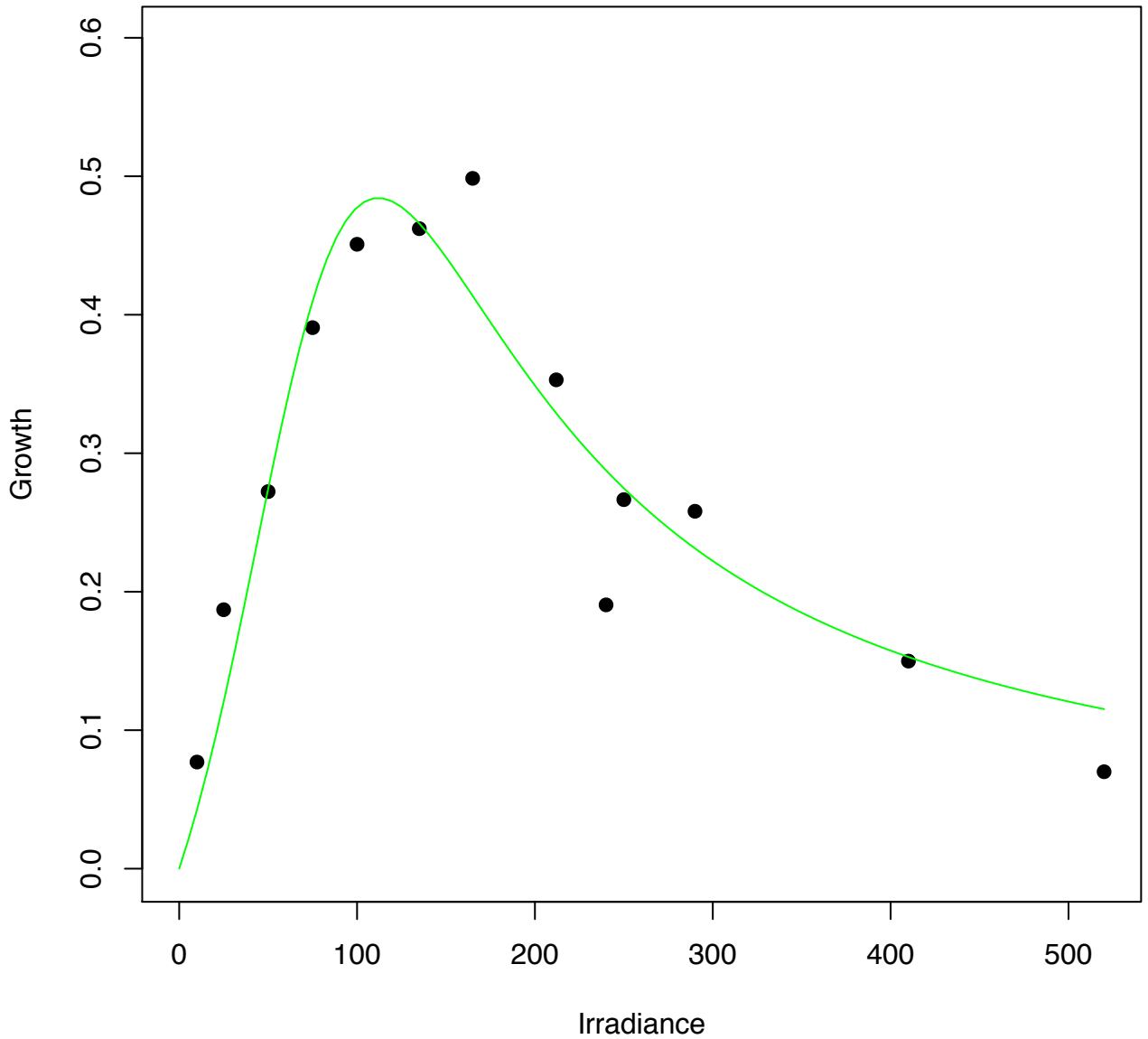
Anabaena cylindrica 32°C



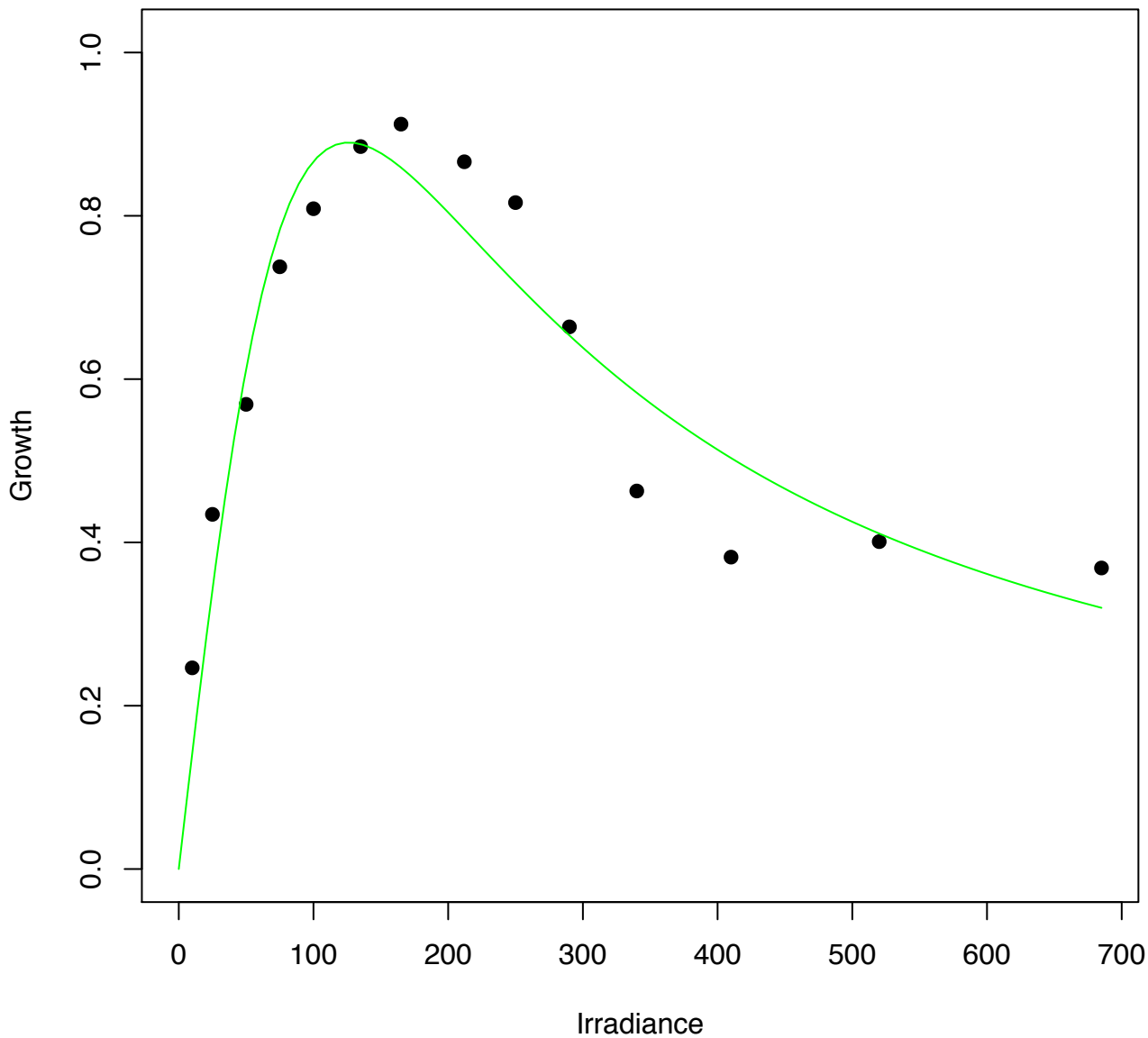
Pediastrum boryanum 15°C



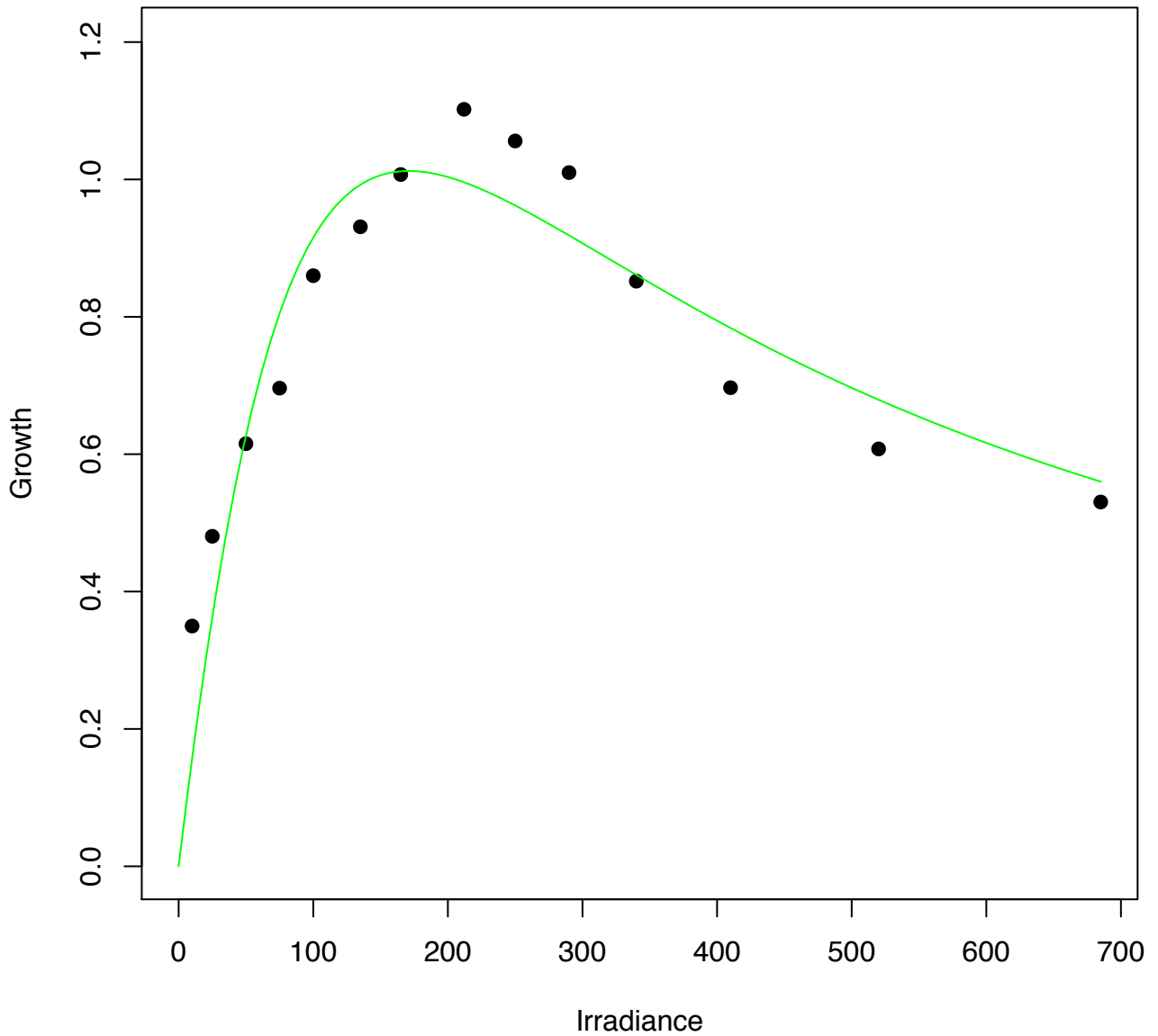
Pediastrum boryanum 20°C



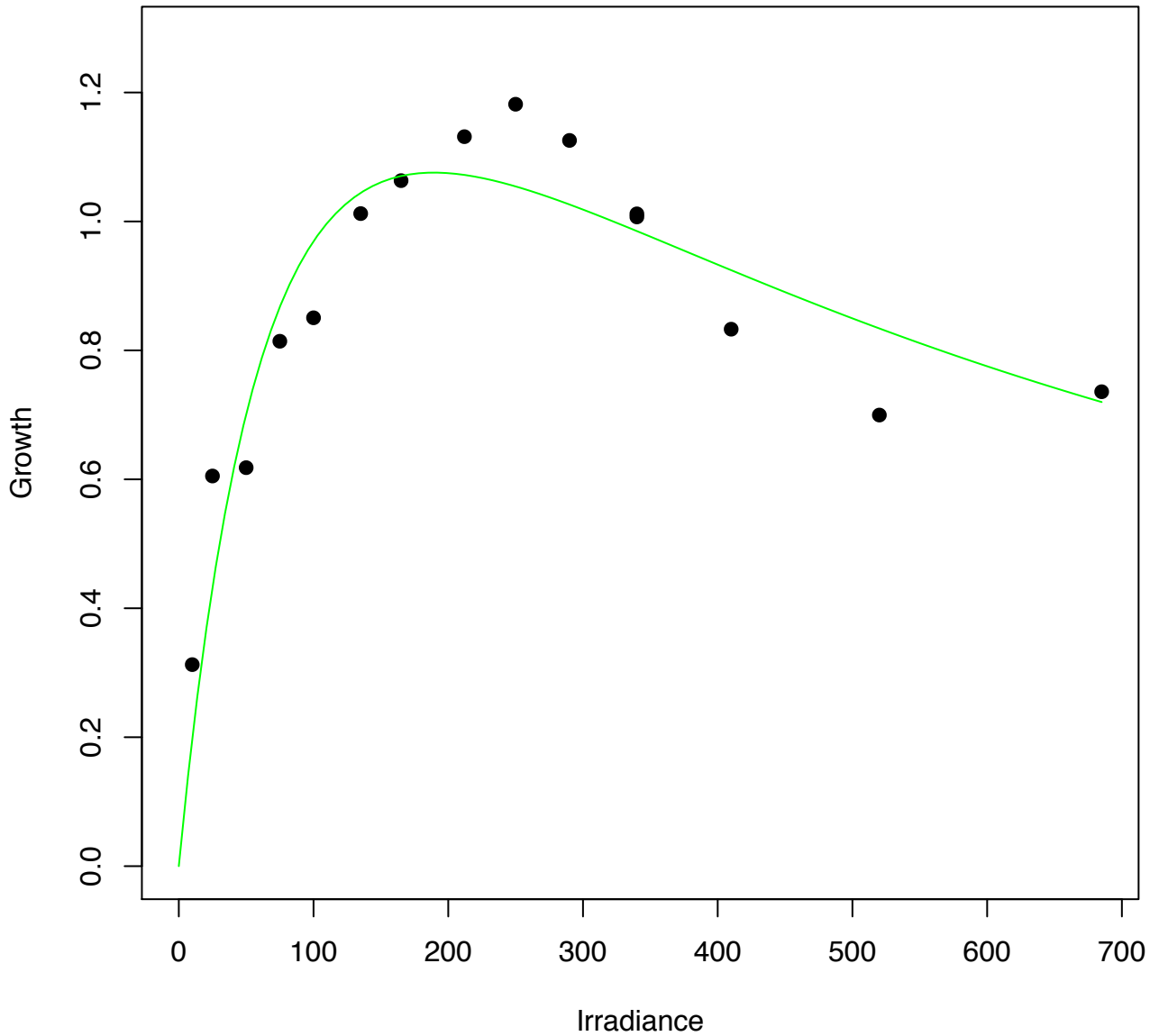
Pediastrum boryanum 25°C



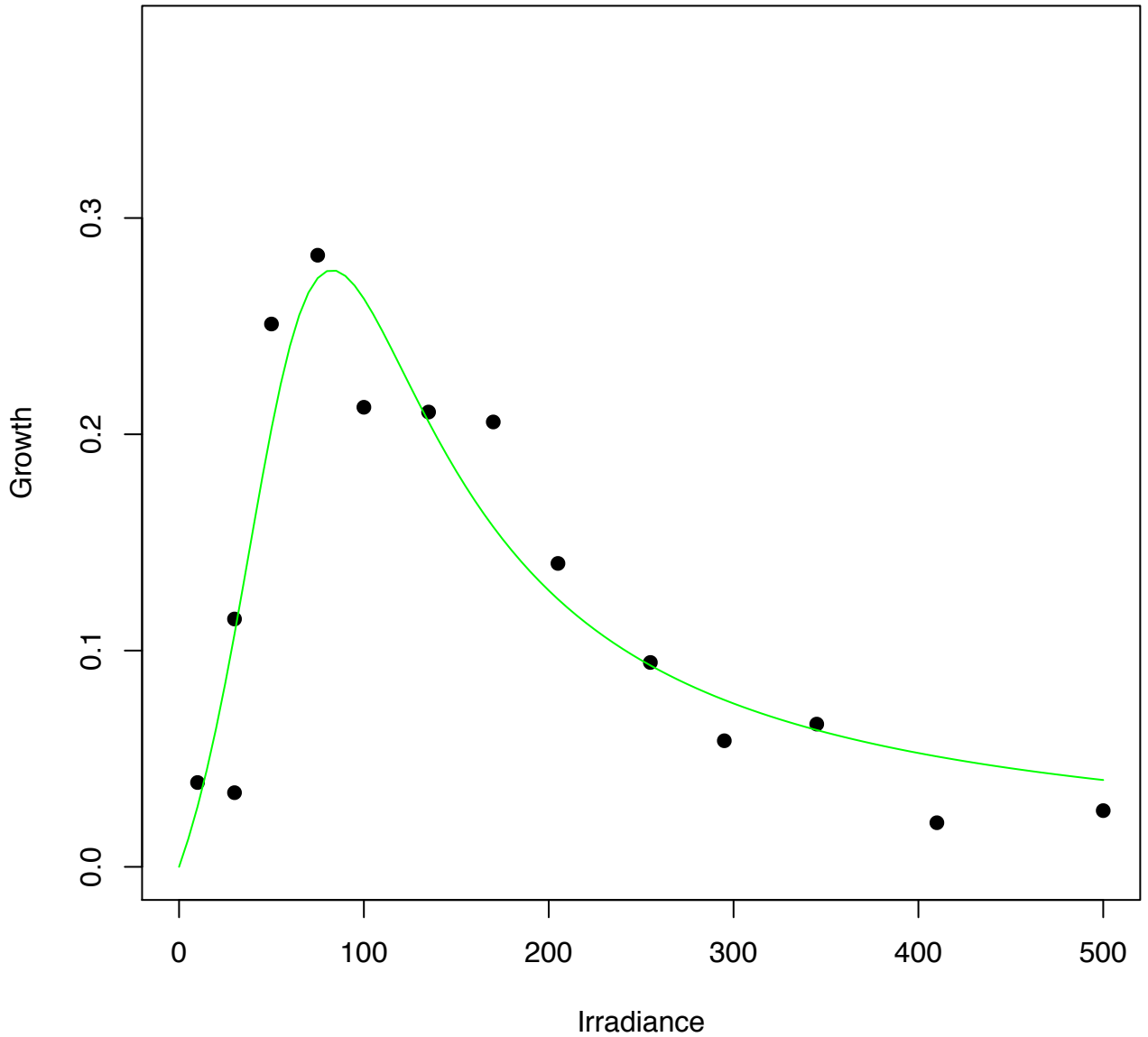
Pediastrum boryanum 28°C



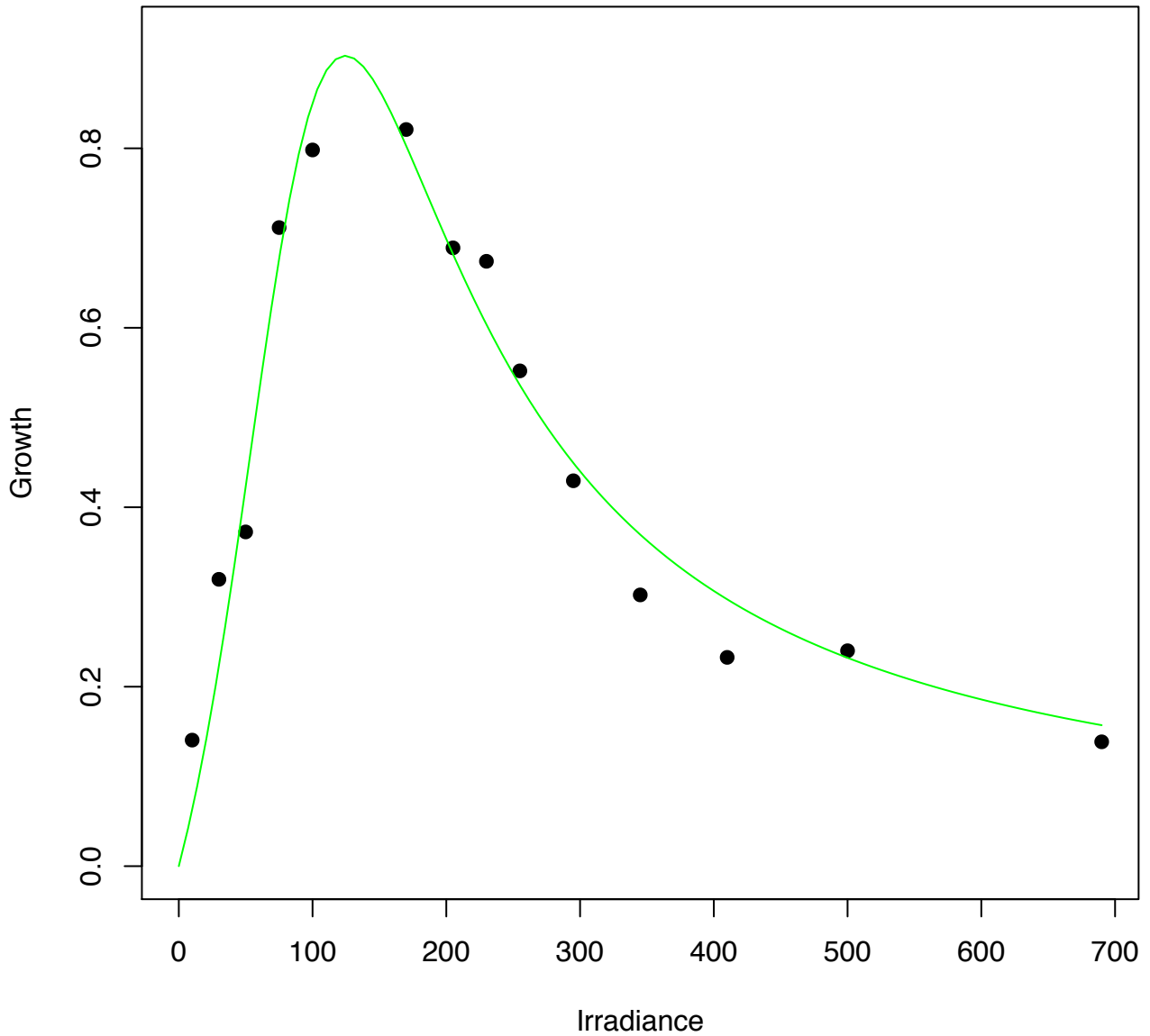
Pediastrum boryanum 32°C



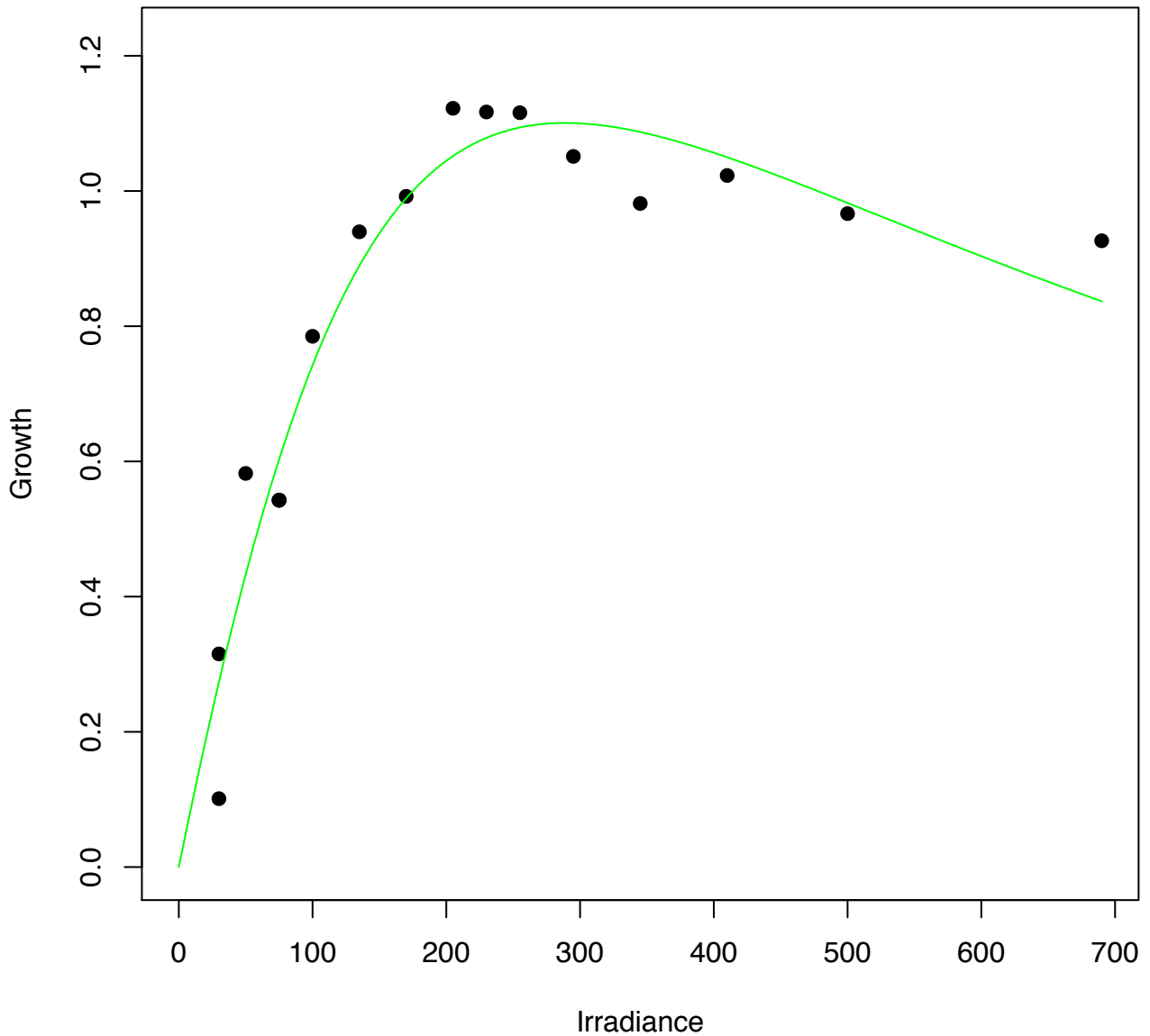
Monoraphidium minutum 15°C



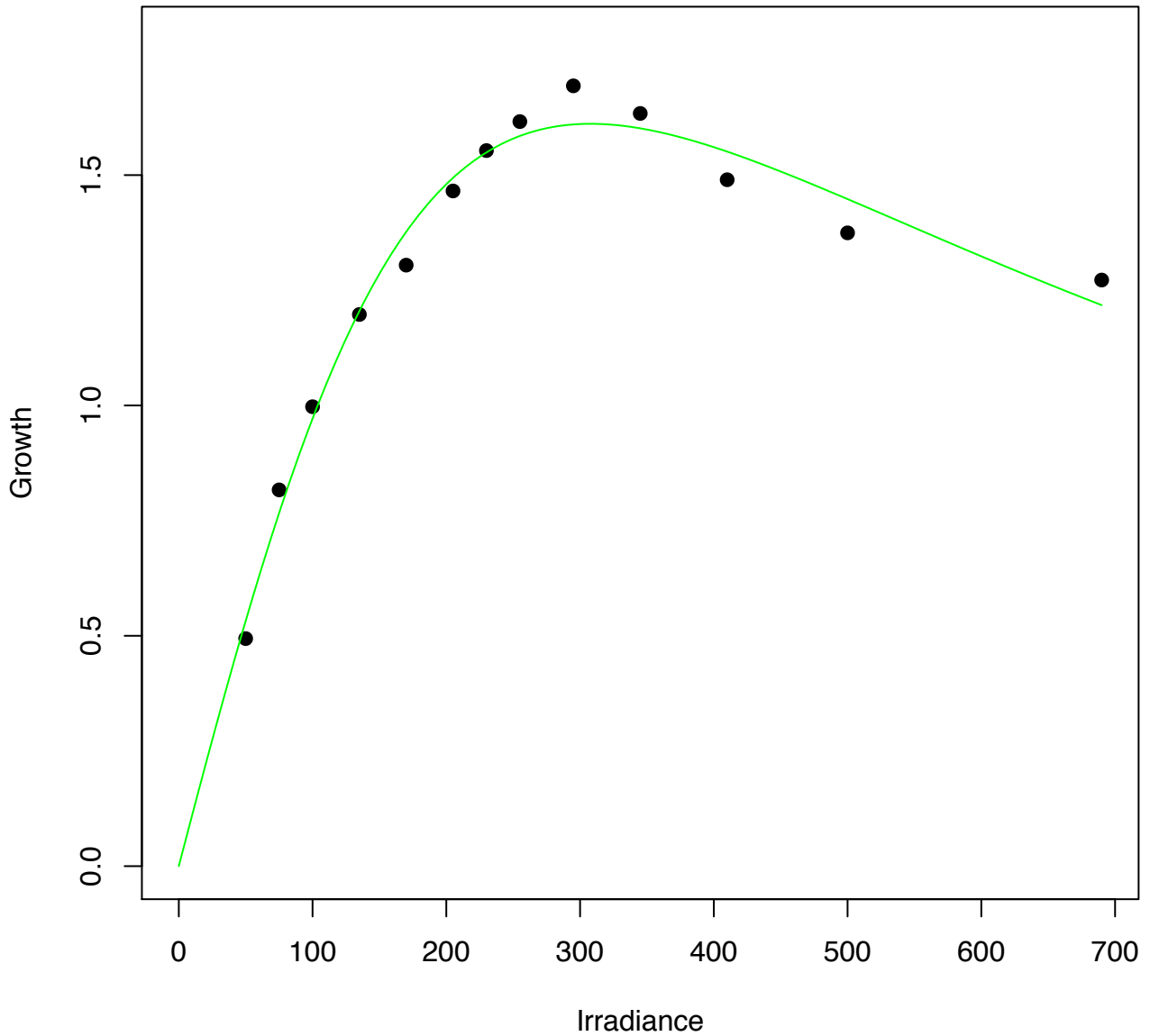
Monoraphidium minutum 20°C



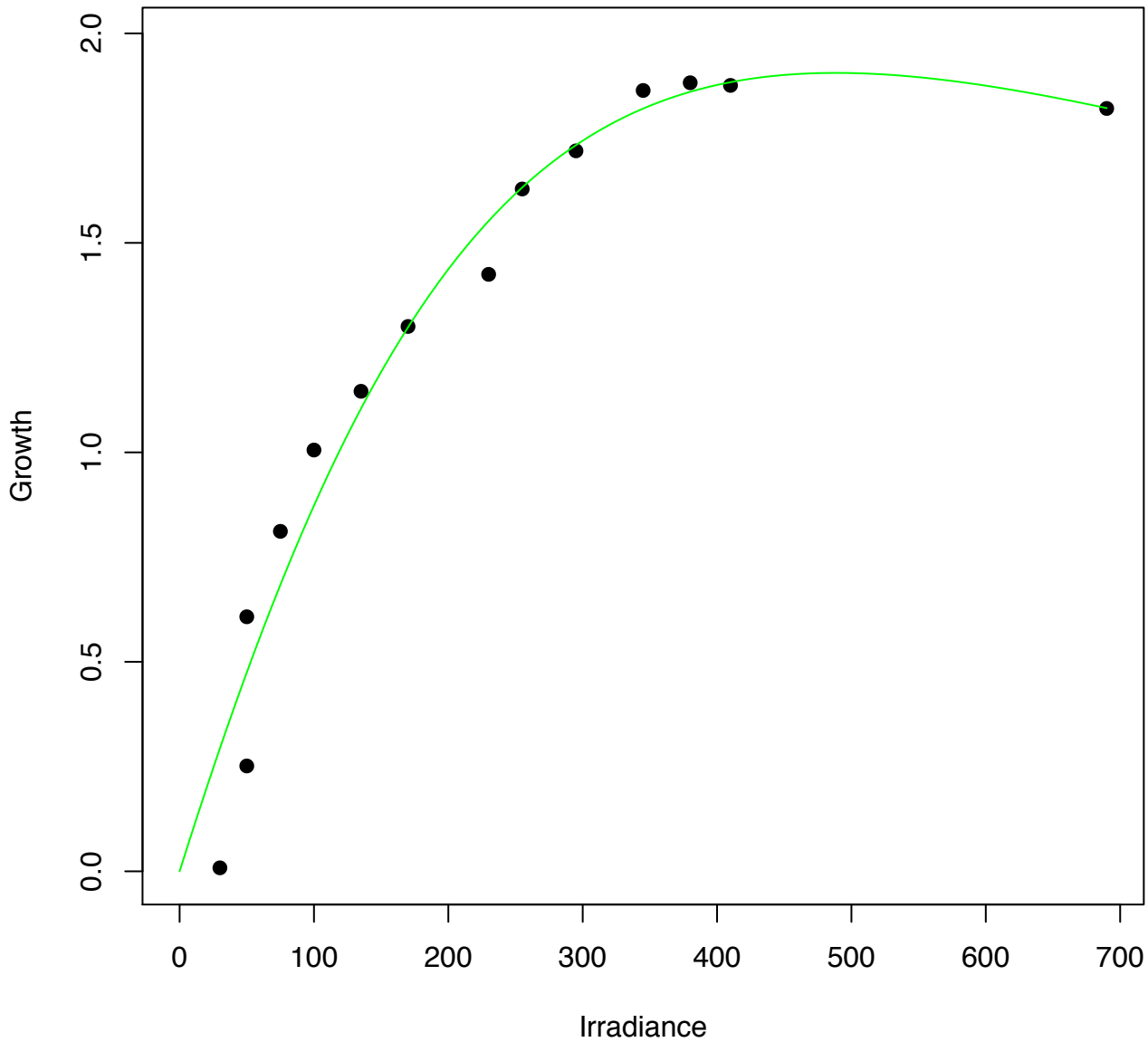
Monoraphidium minutum 25°C



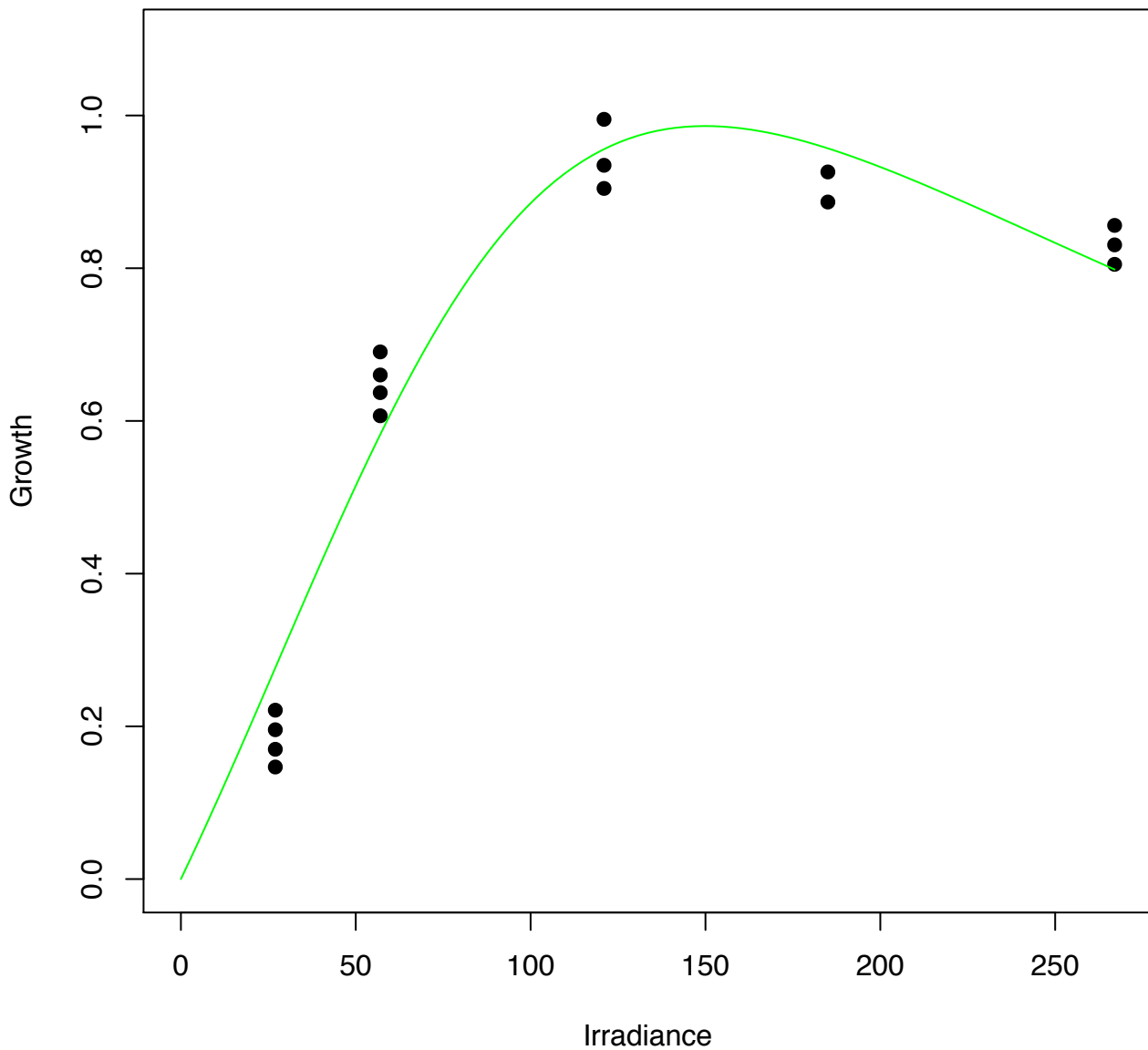
Monoraphidium minutum 30°C



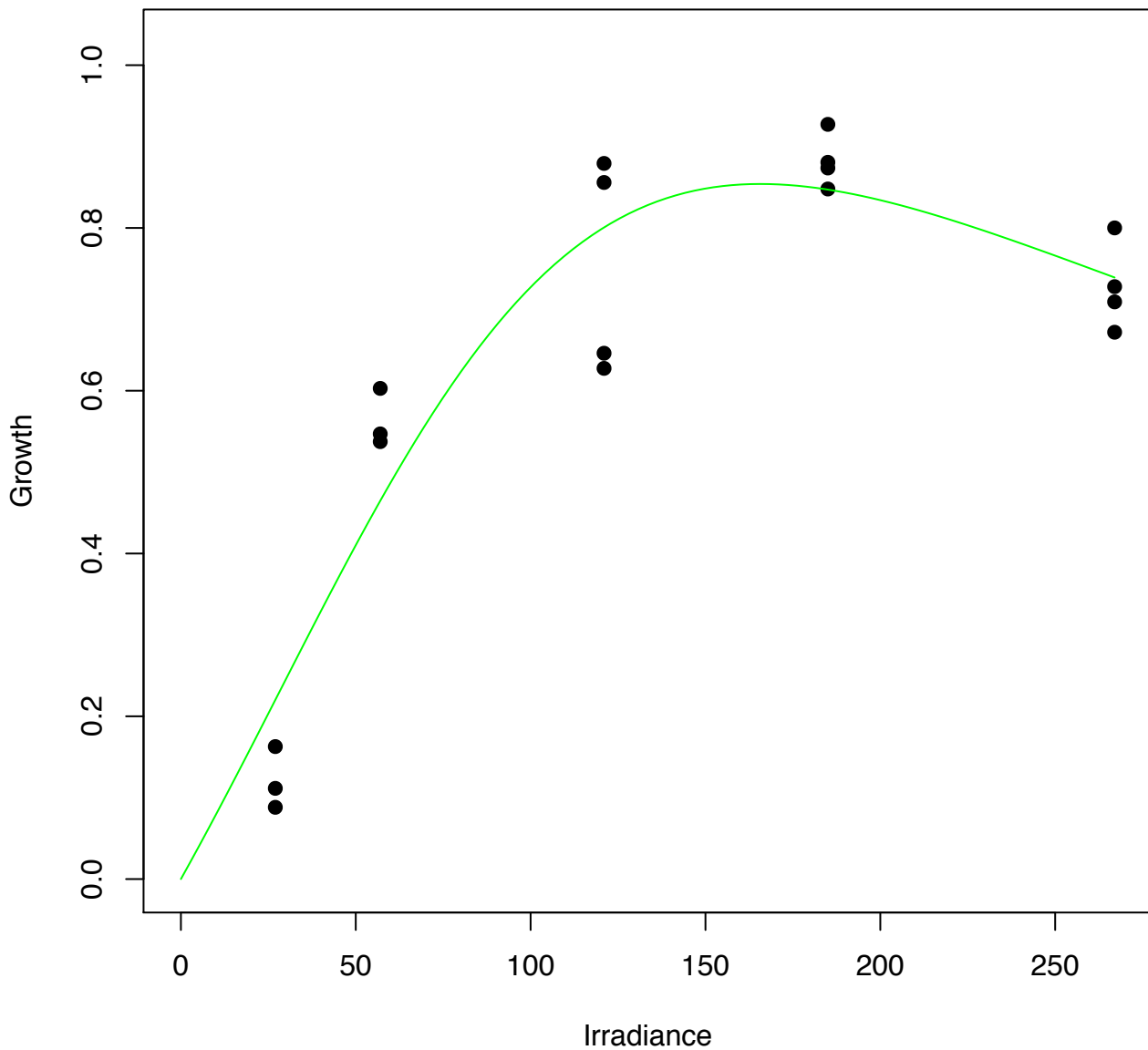
Monoraphidium minutum 35°C



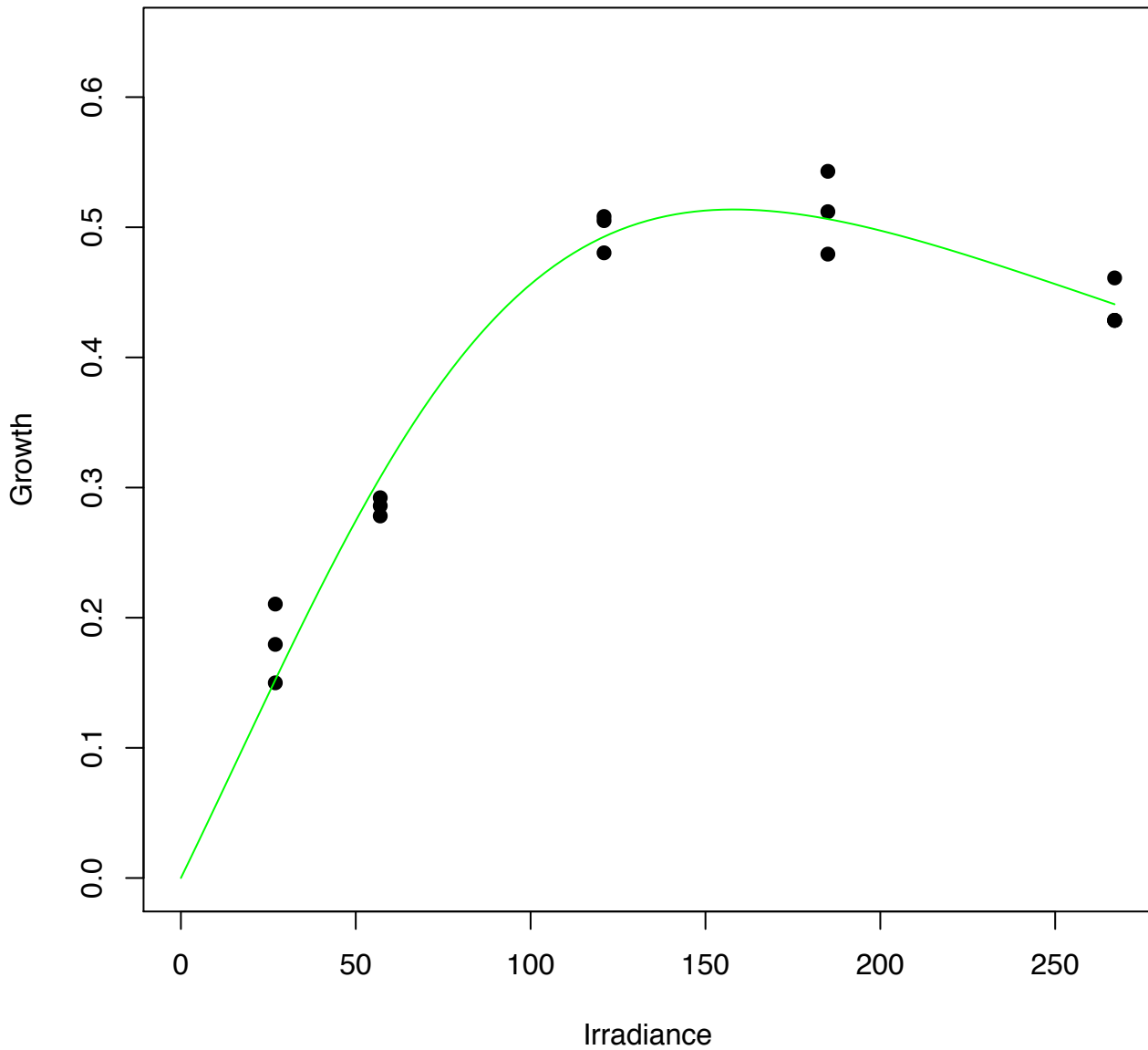
Cryptomonas 979_67 25°C



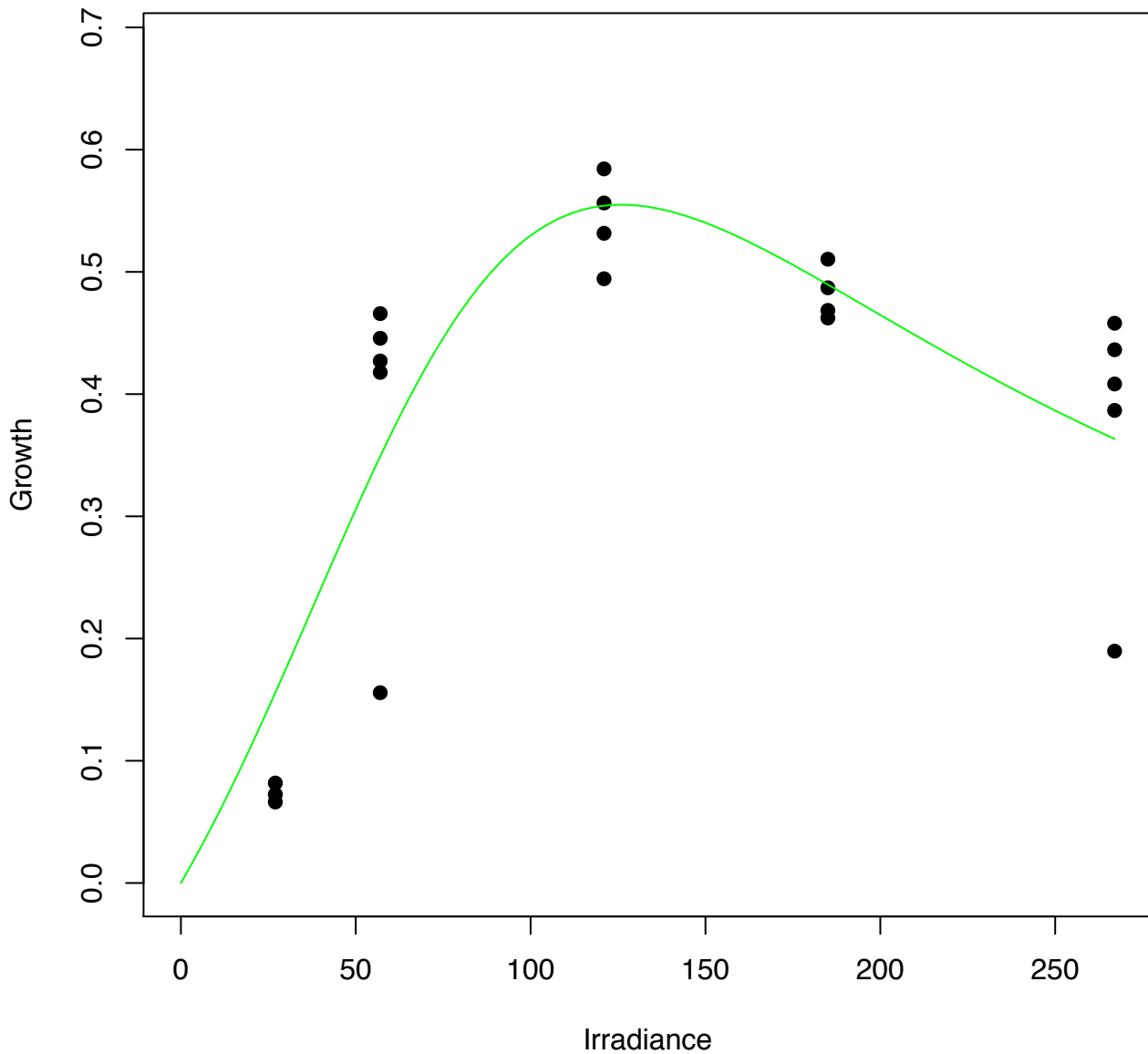
Cryptomonas 979_67 21°C



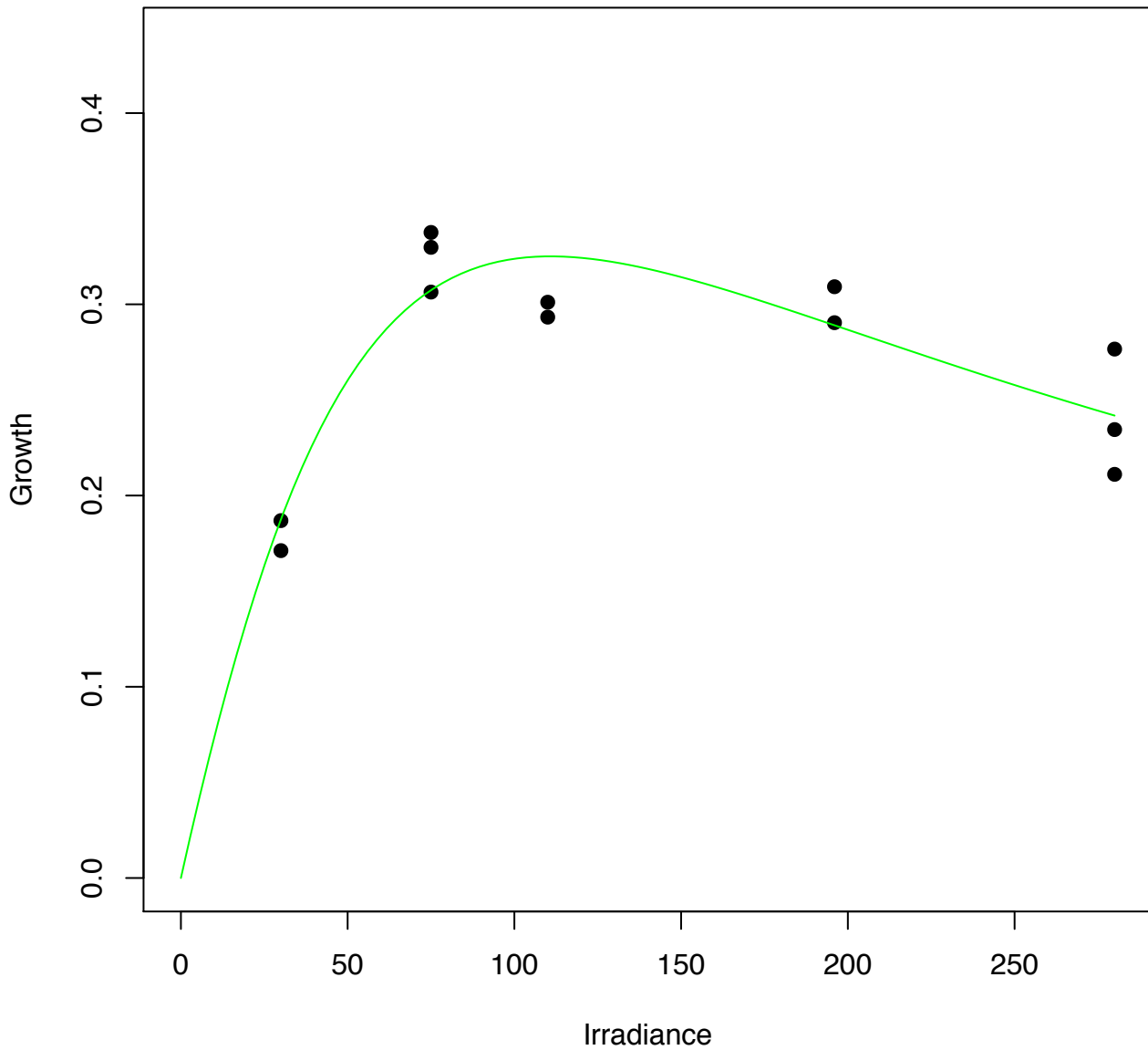
Cryptomonas 979_67 16°C



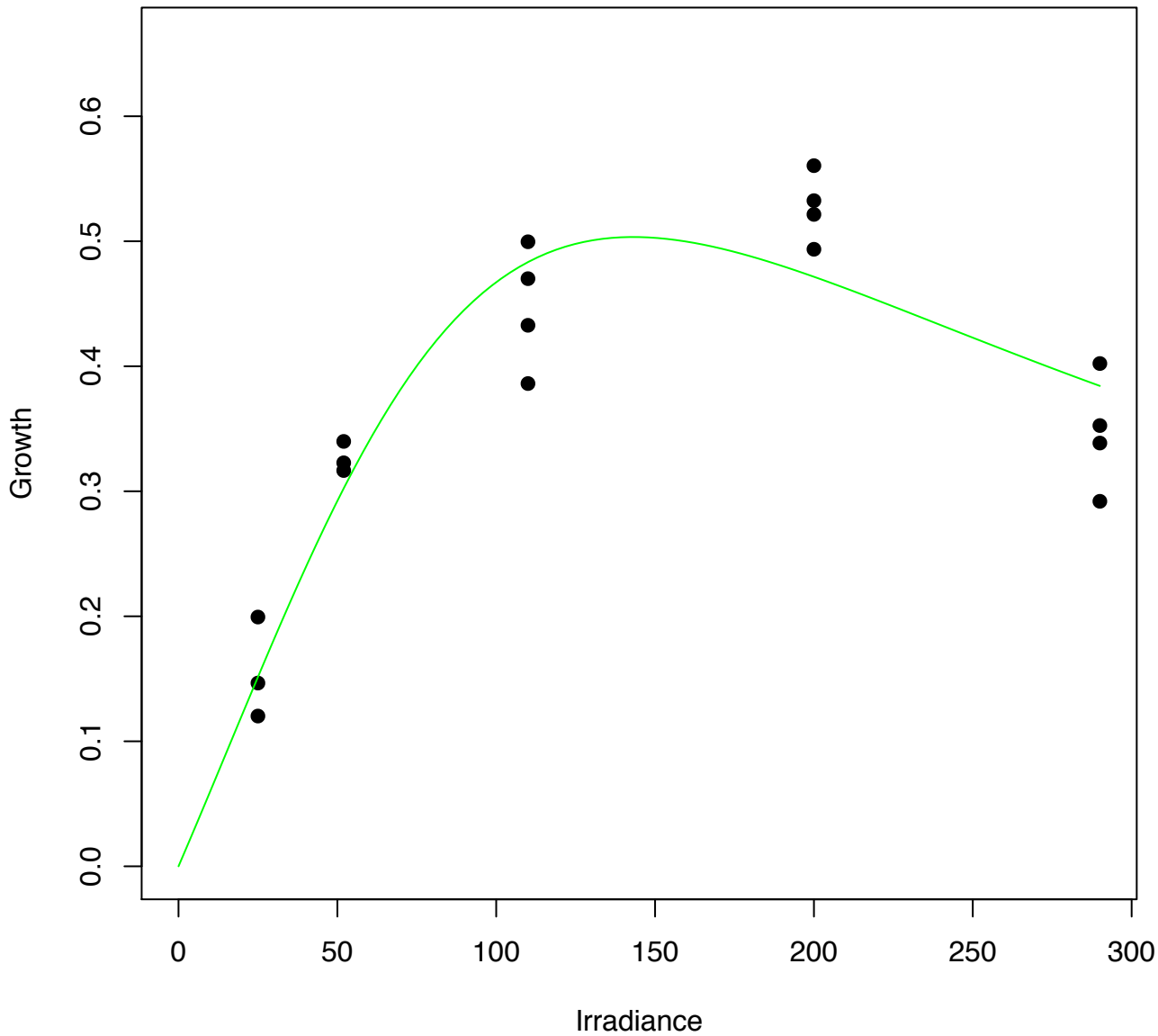
Cryptomonas 979_67 12°C



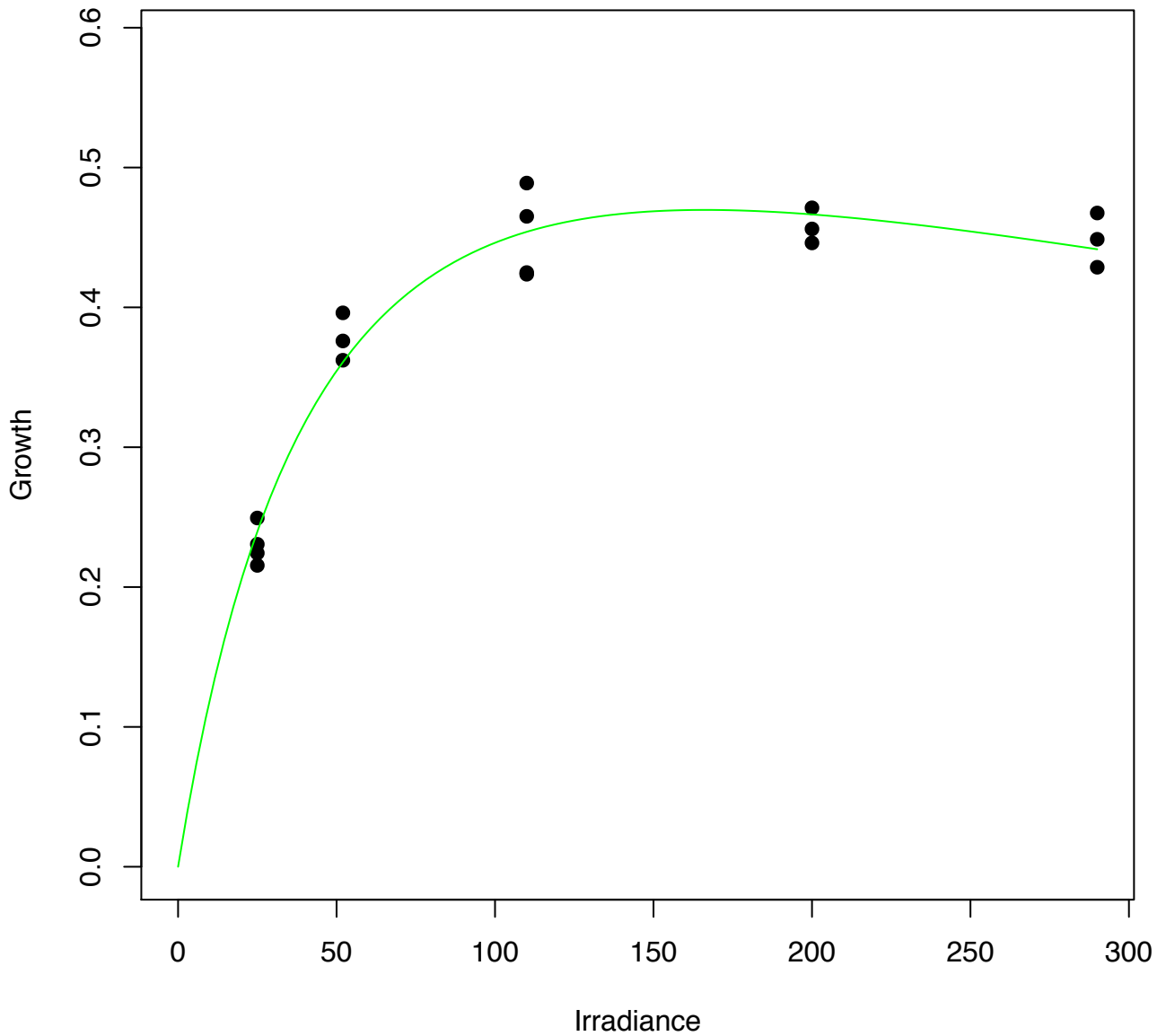
Cryptomonas 979_67 8°C



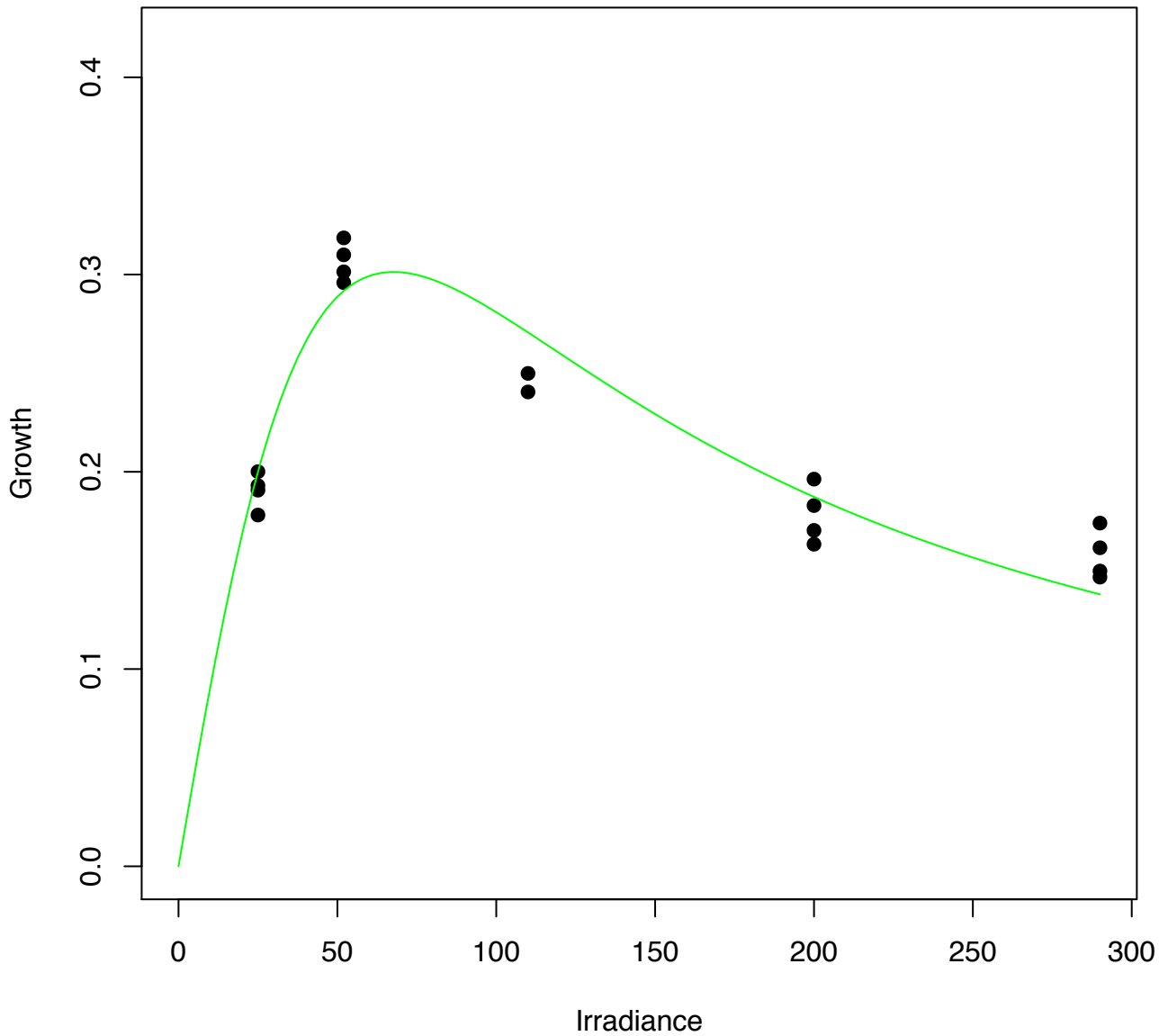
Cryptomonas 979_62 21°C



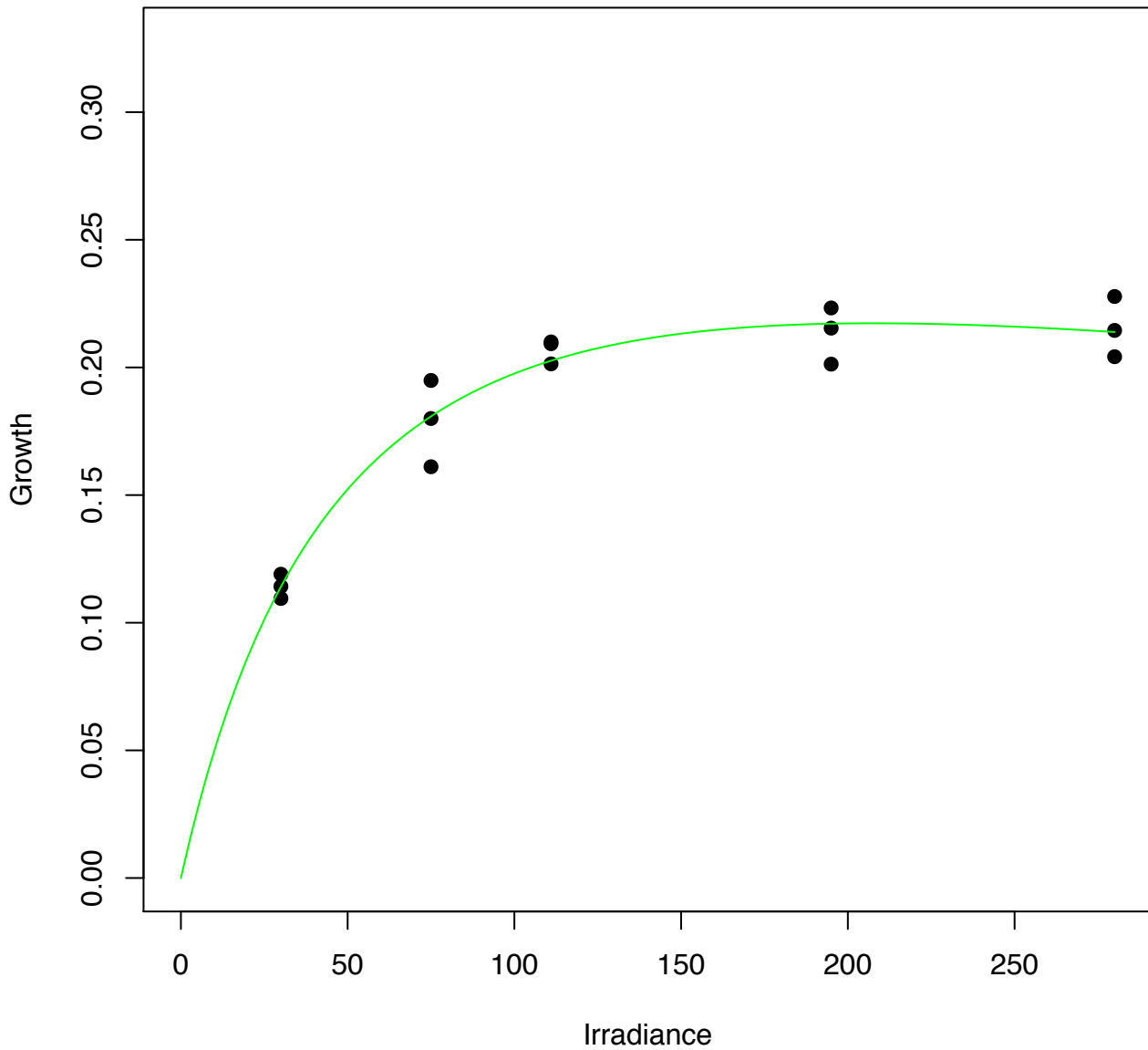
Cryptomonas 979_62 16°C



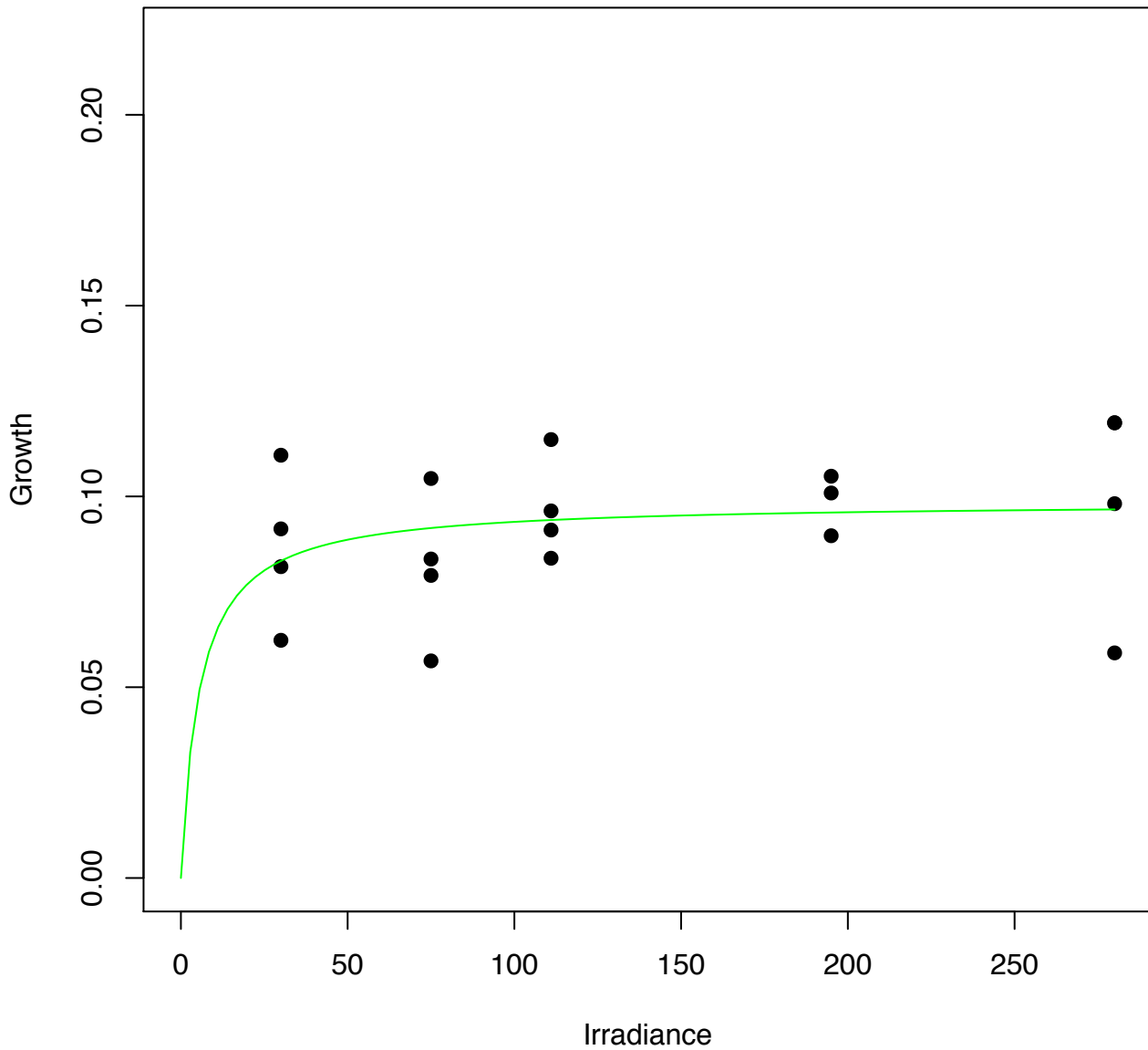
Cryptomonas 979_62 12°C



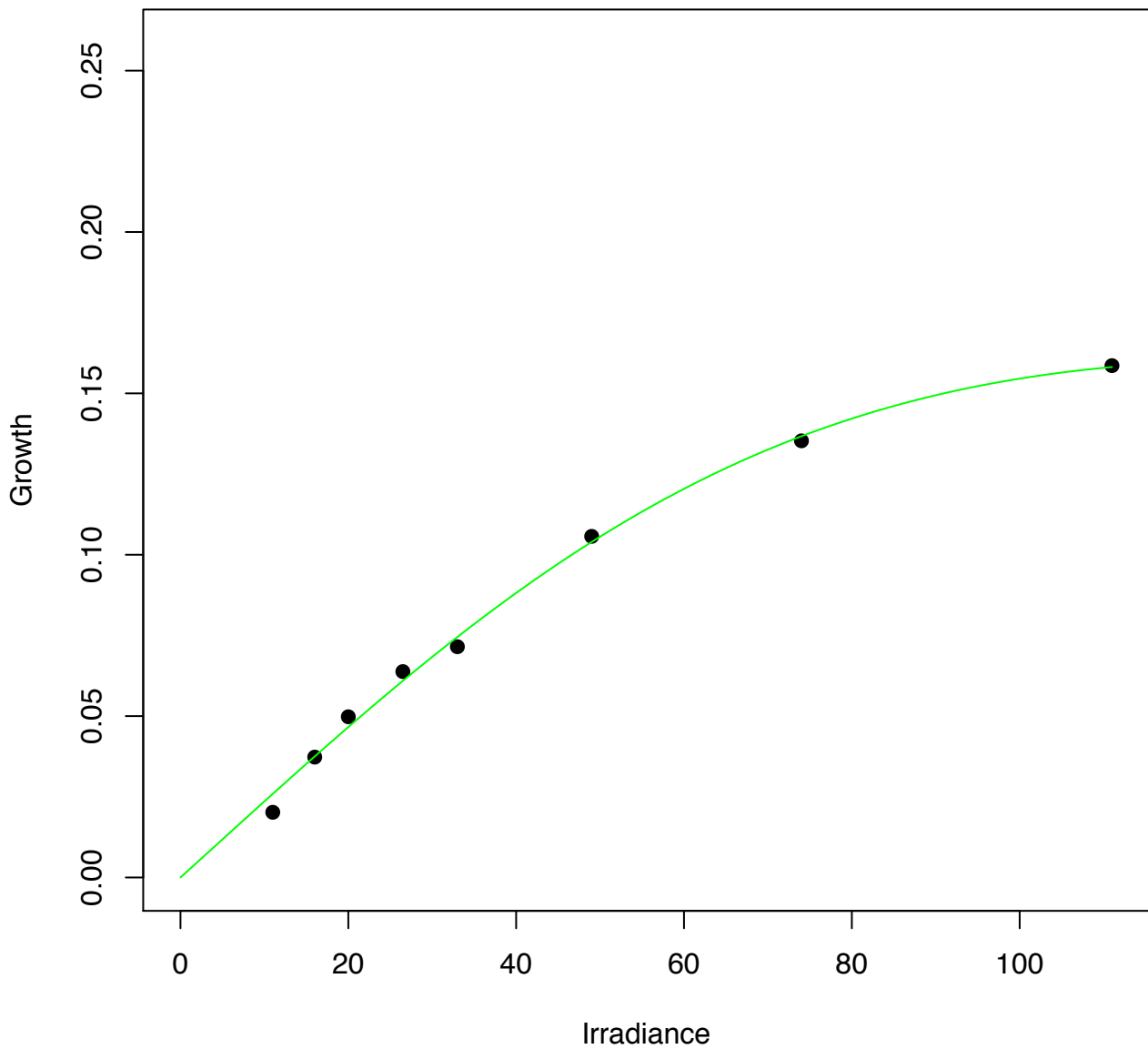
Cryptomonas 979_62 10°C



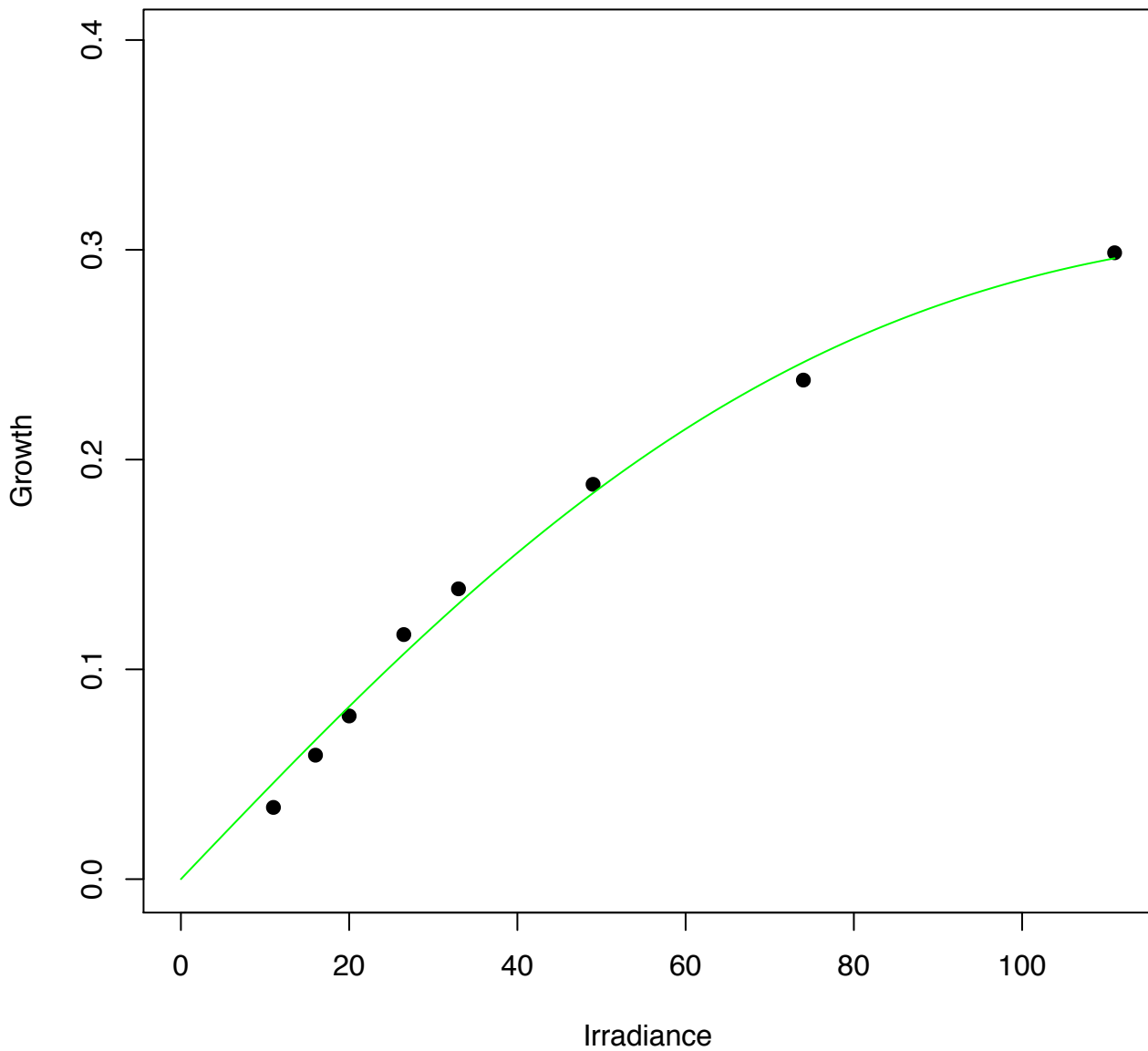
Cryptomonas 979_62 5°C



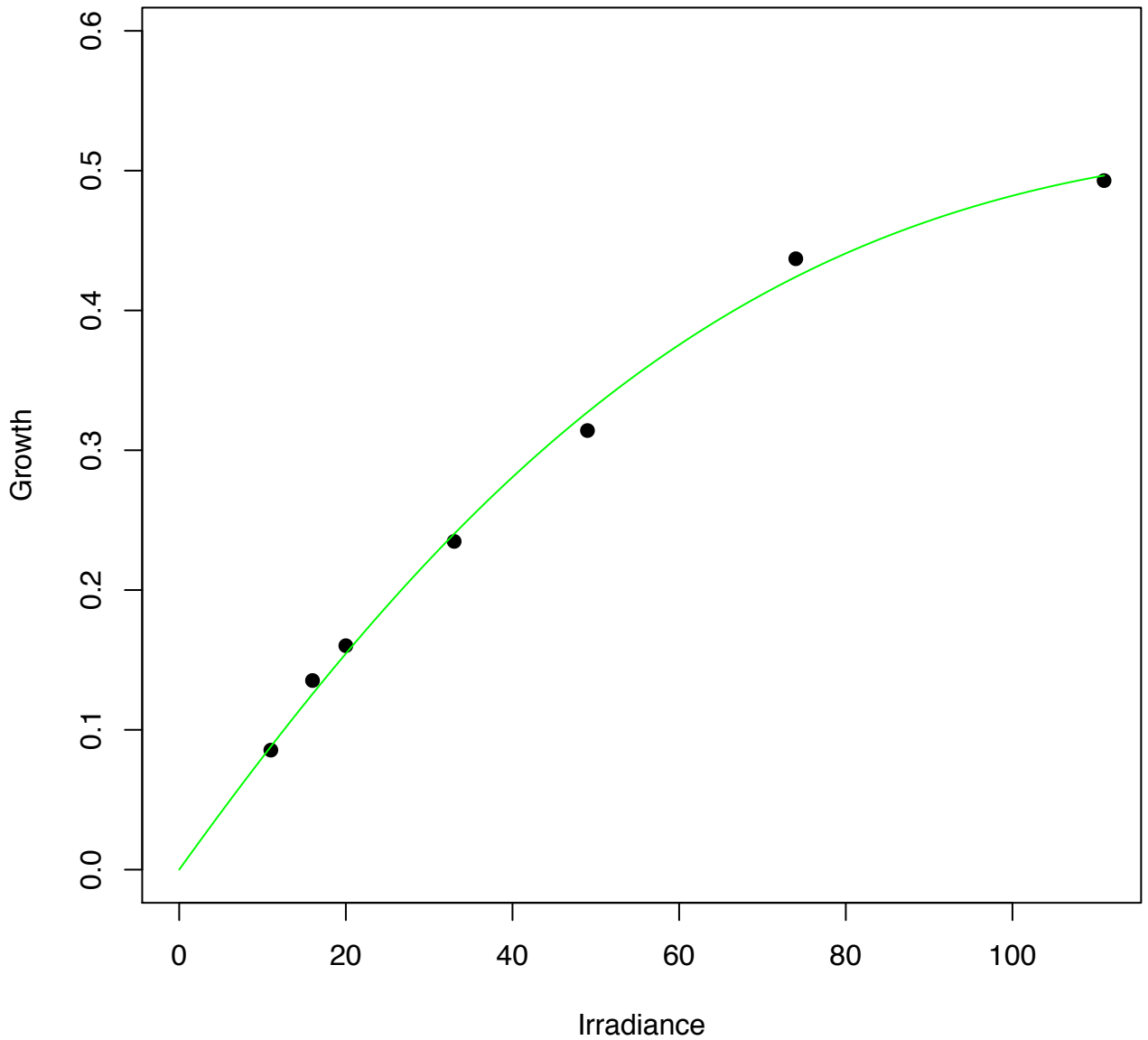
Synura sphagnicola 5°C



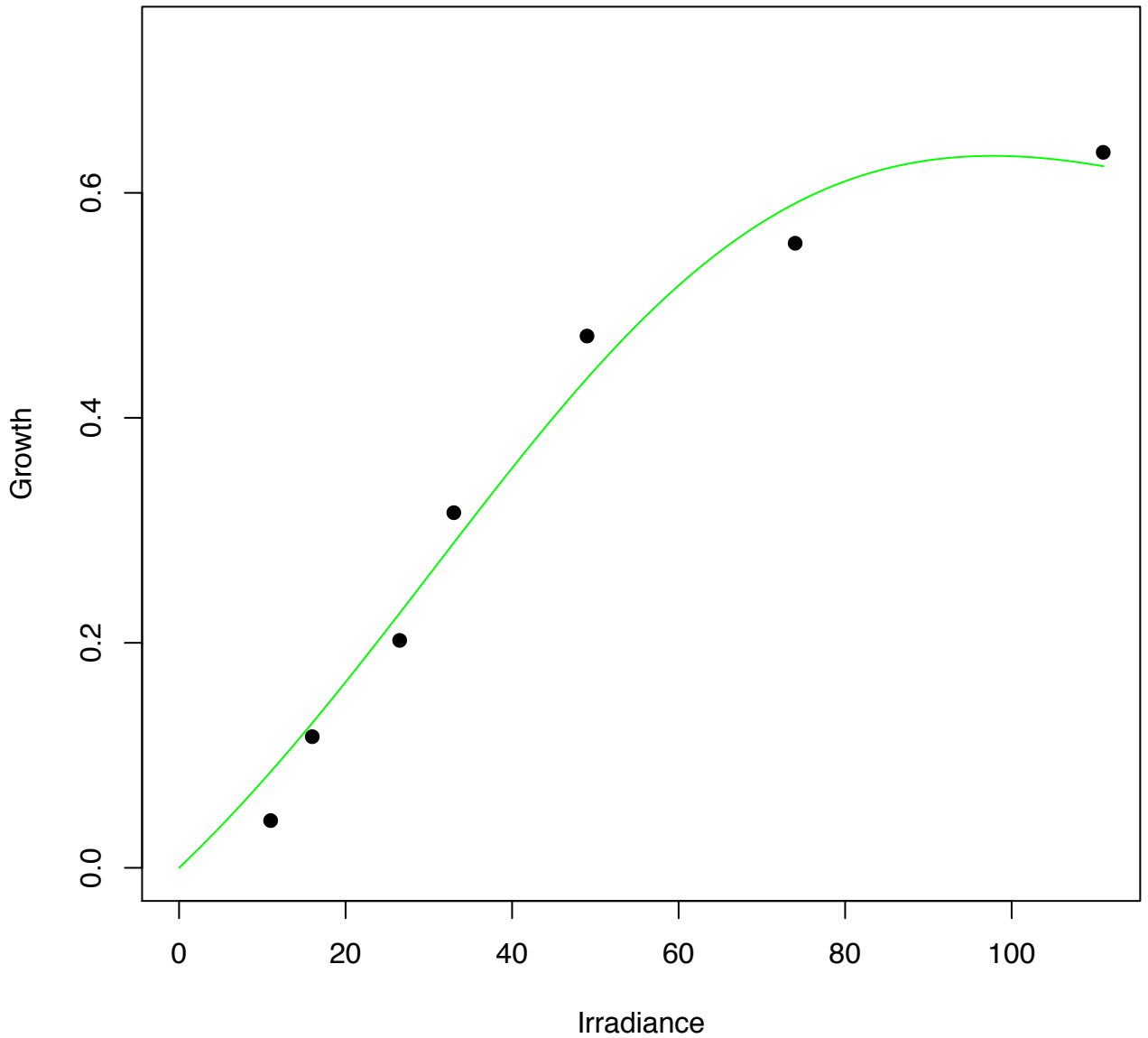
Synura sphagnicola 8°C



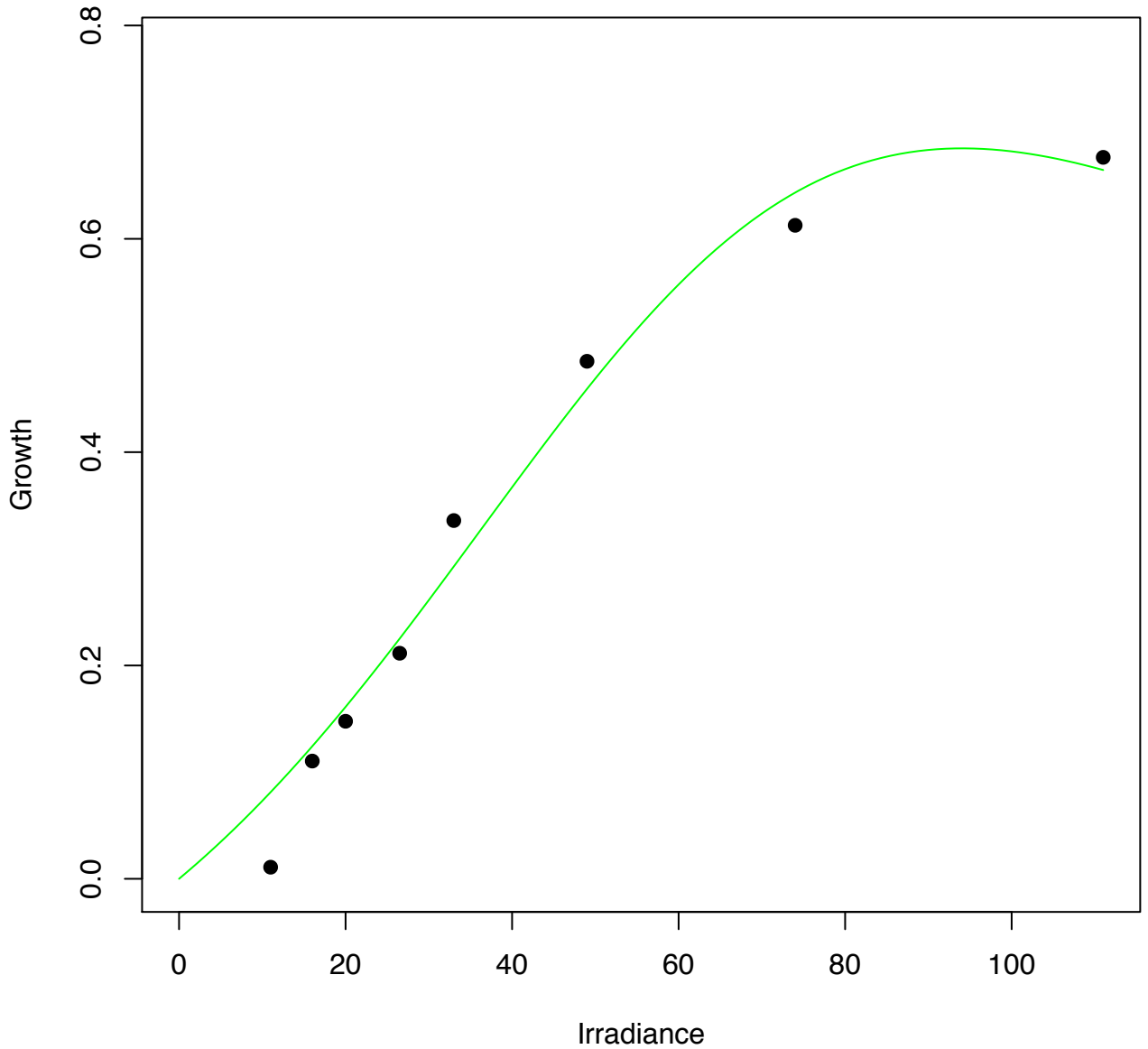
Synura sphagnicola 10°C



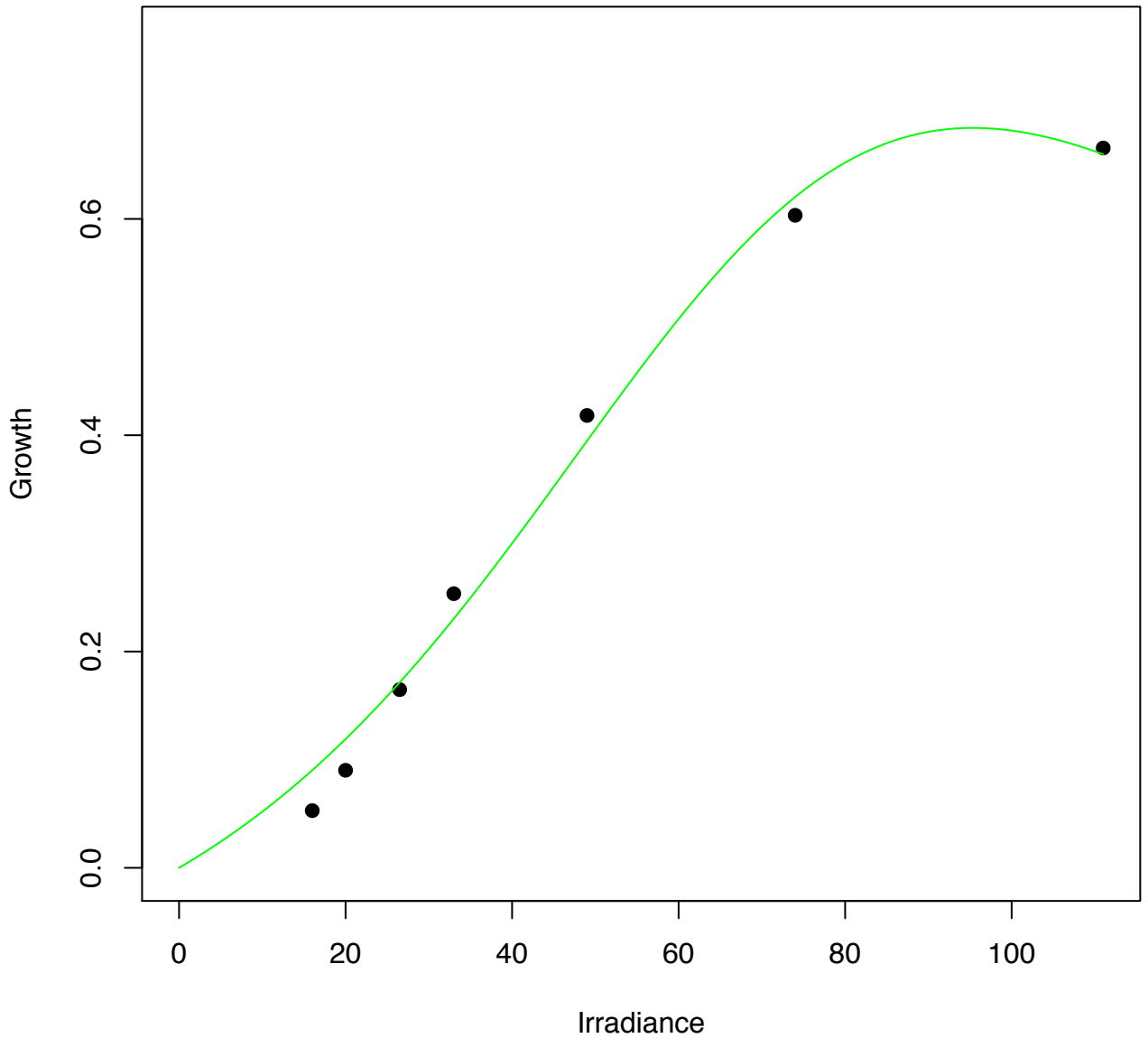
Synura sphagnicola 12°C



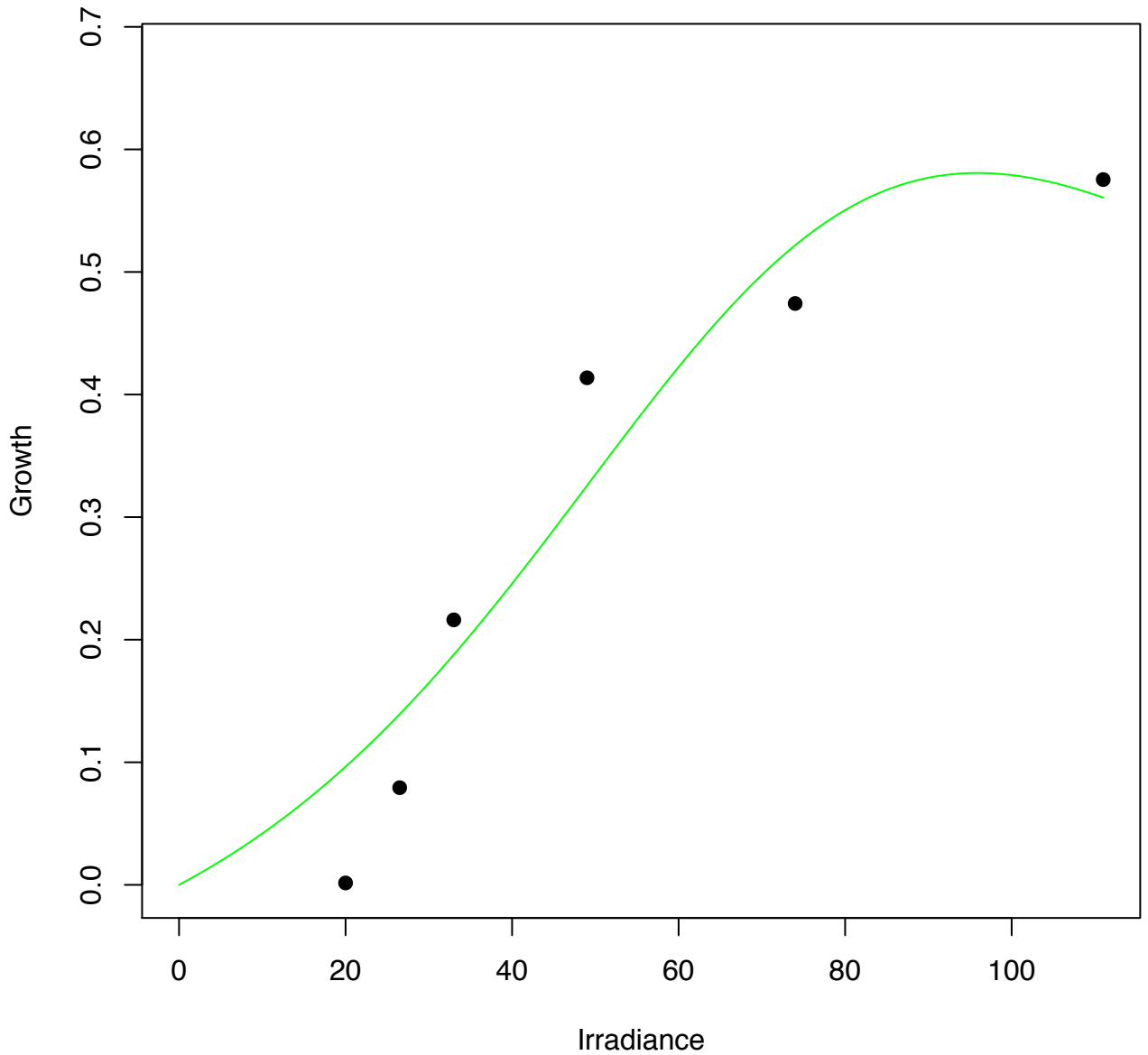
Synura sphagnicola 15°C



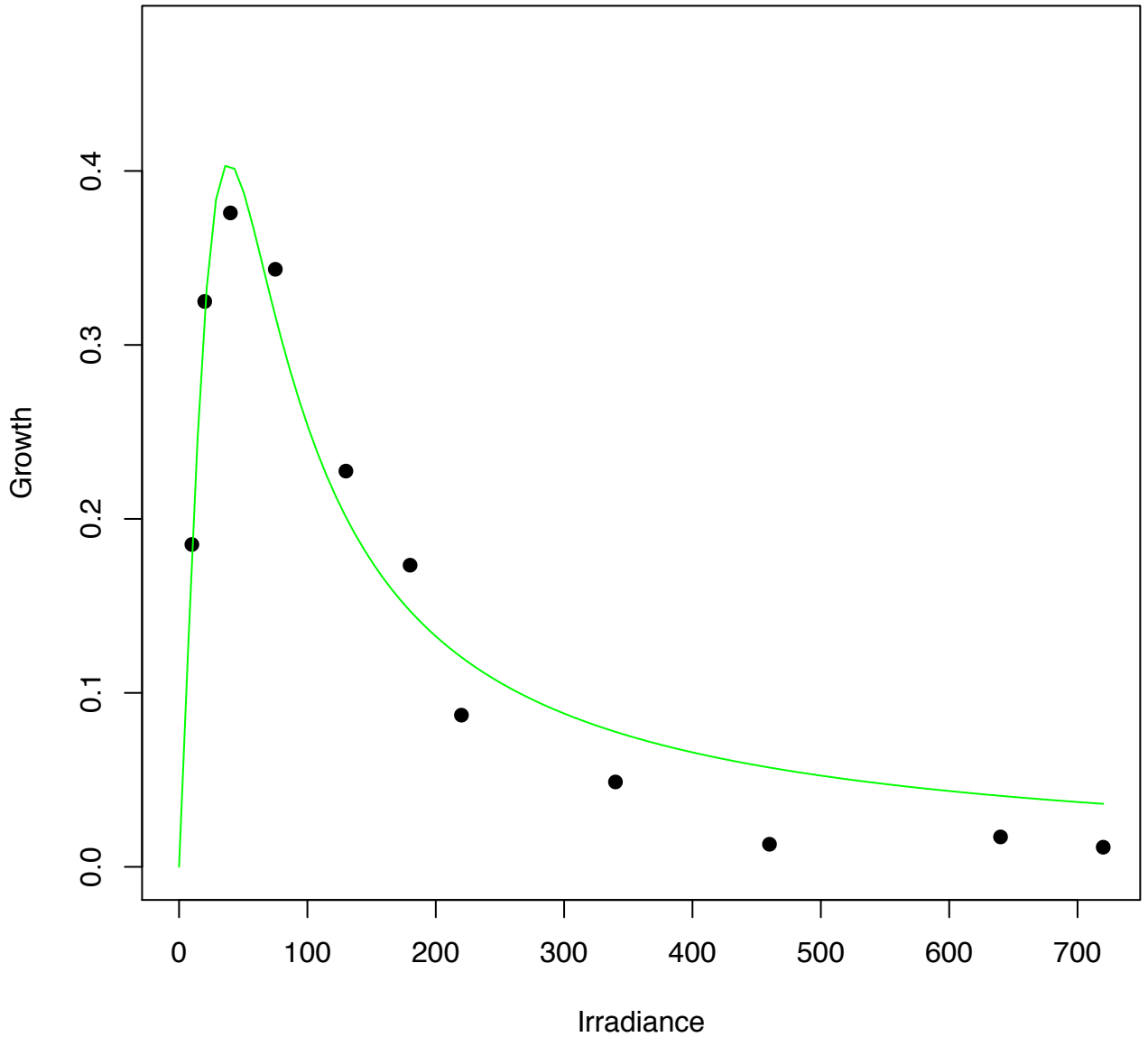
Synura sphagnicola 18°C



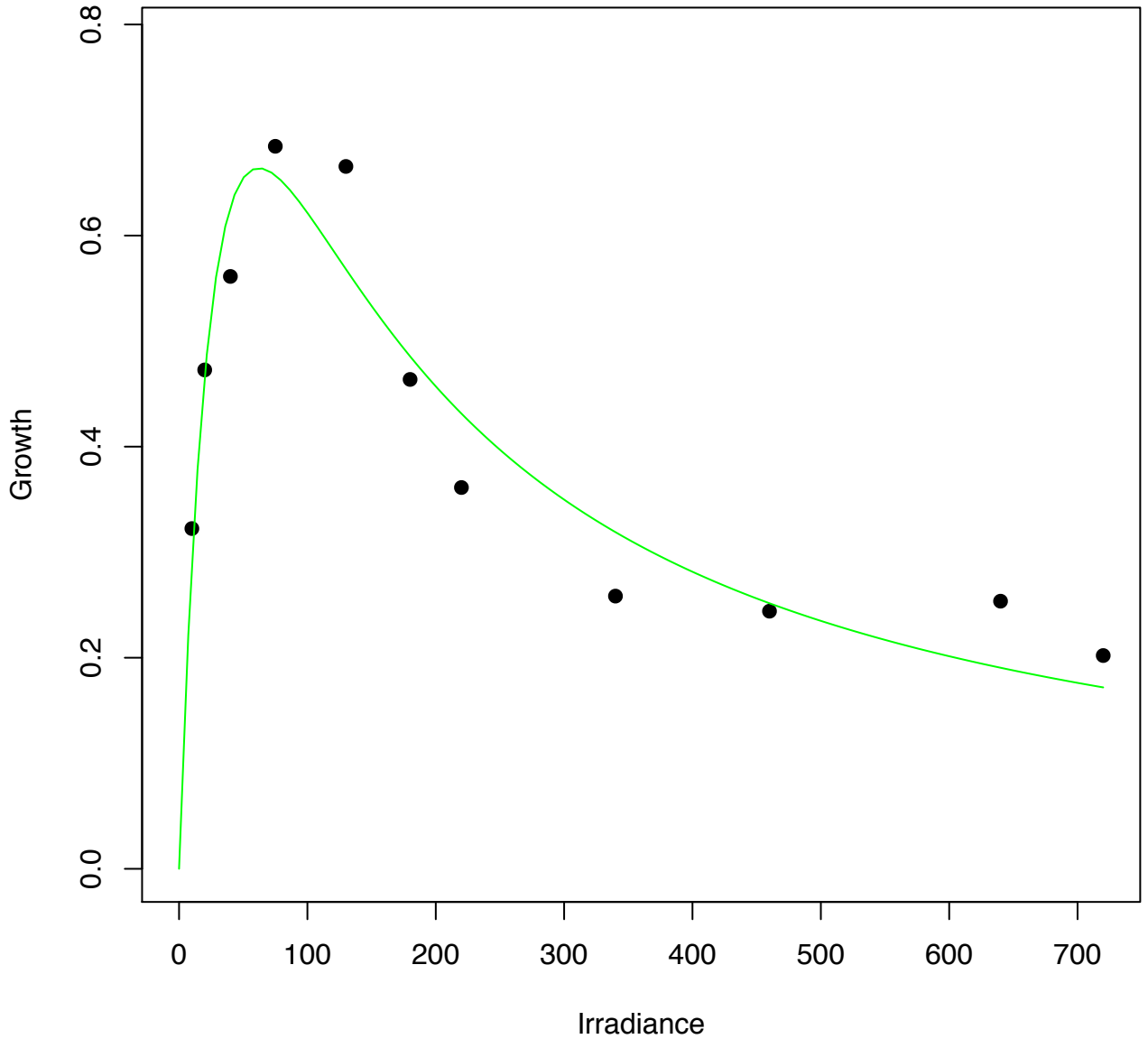
Synura sphagnicola 20°C



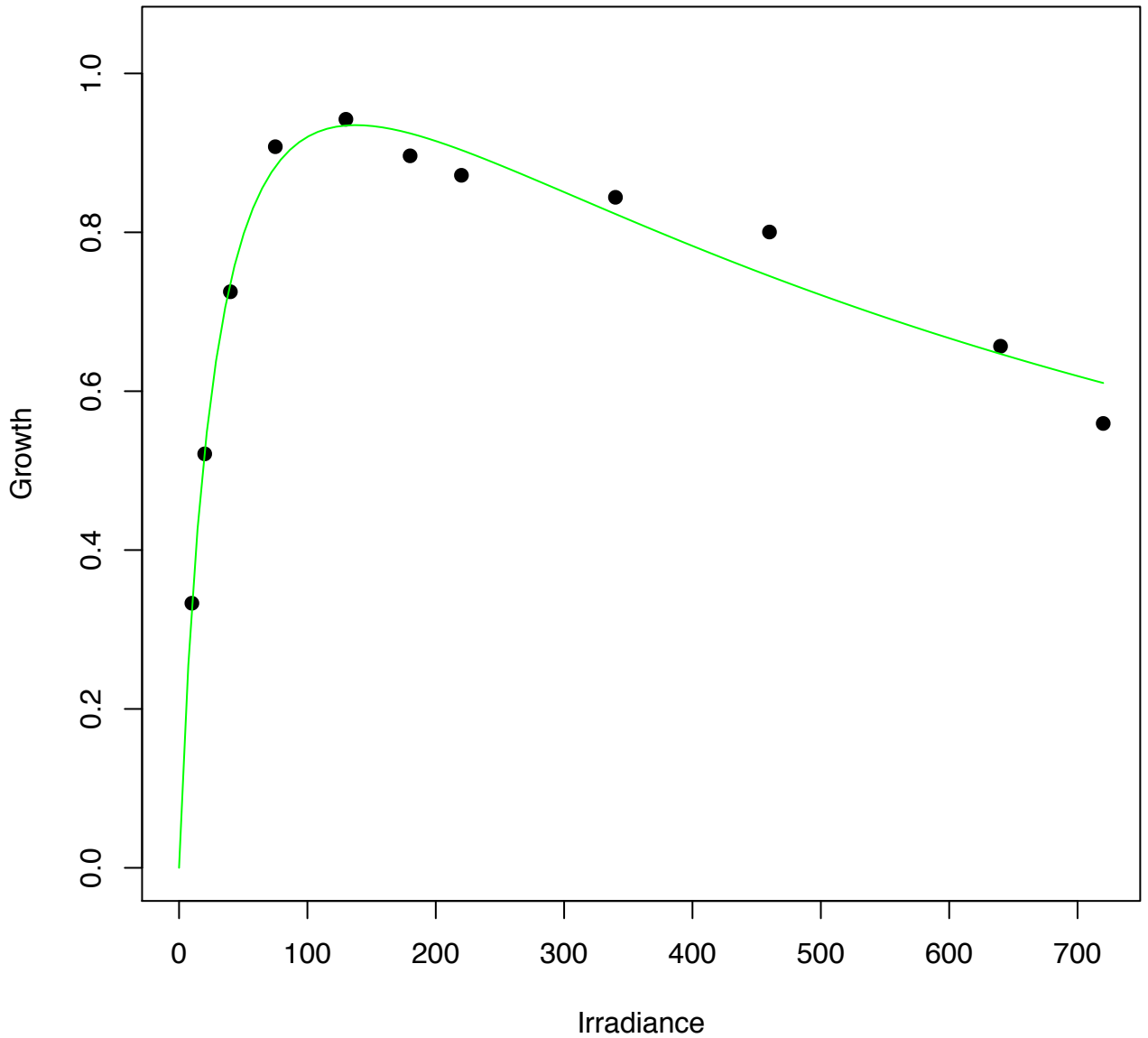
Chlorella vulgaris 10°C



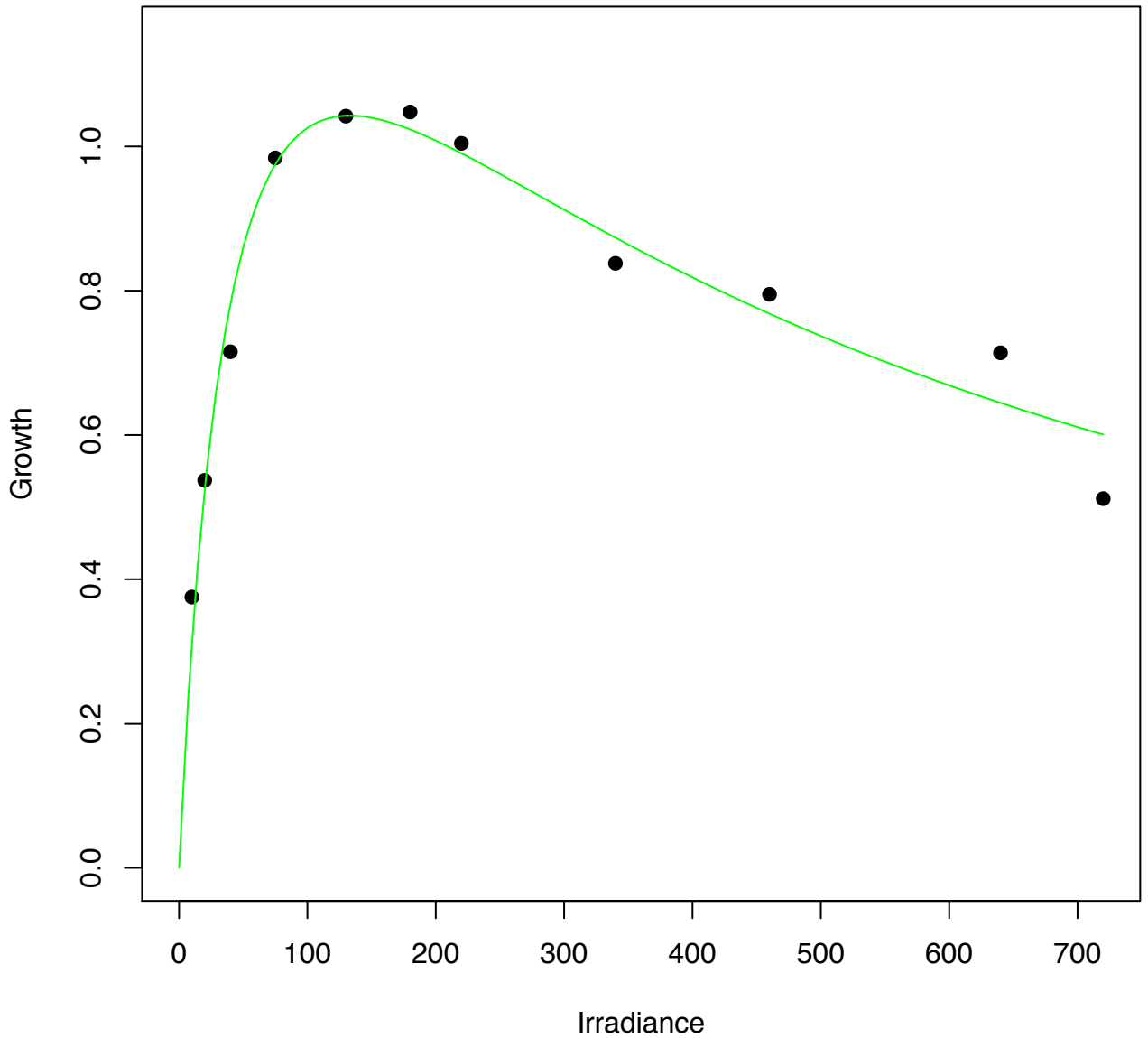
Chlorella vulgaris 15°C



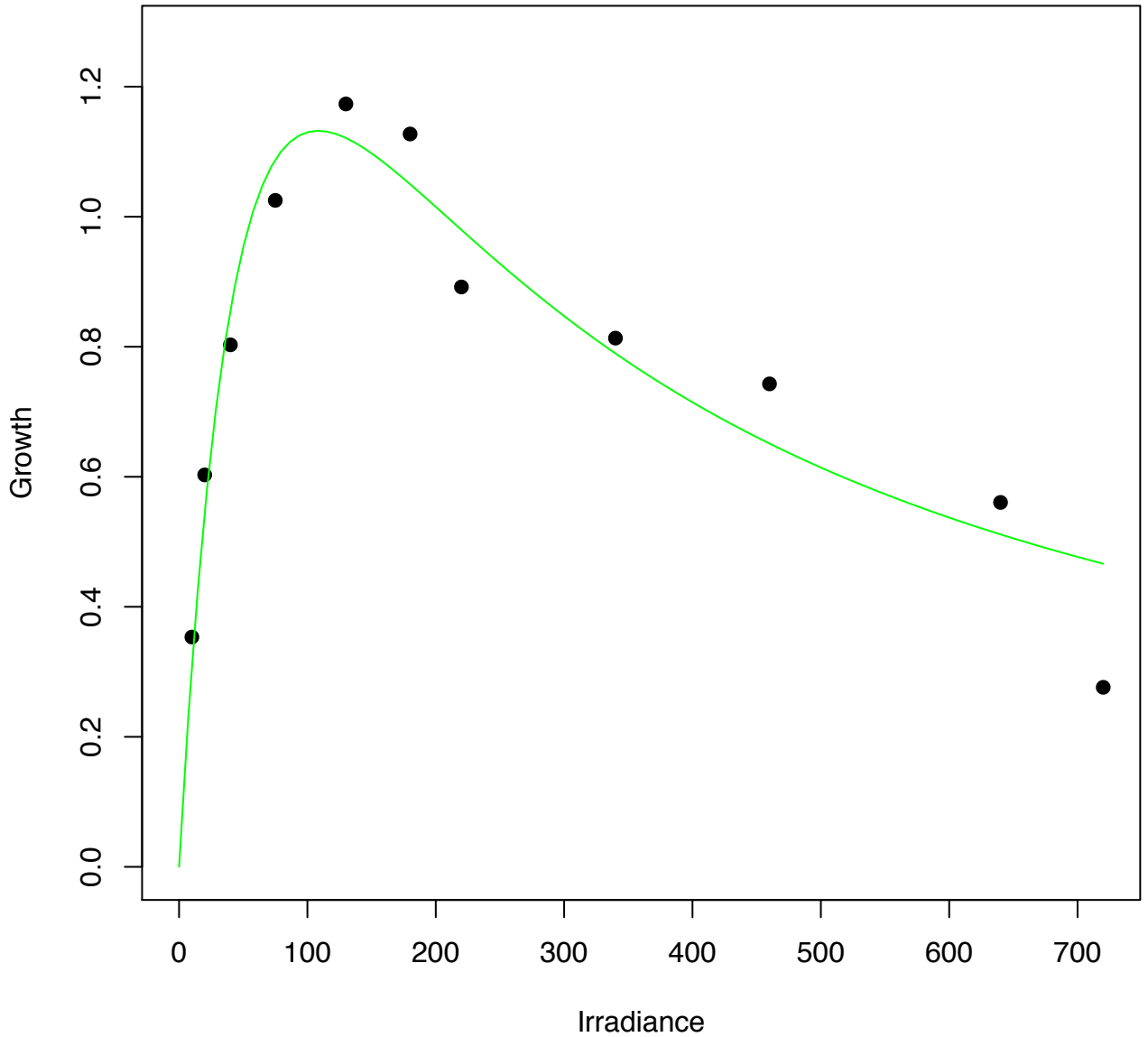
Chlorella vulgaris 20°C



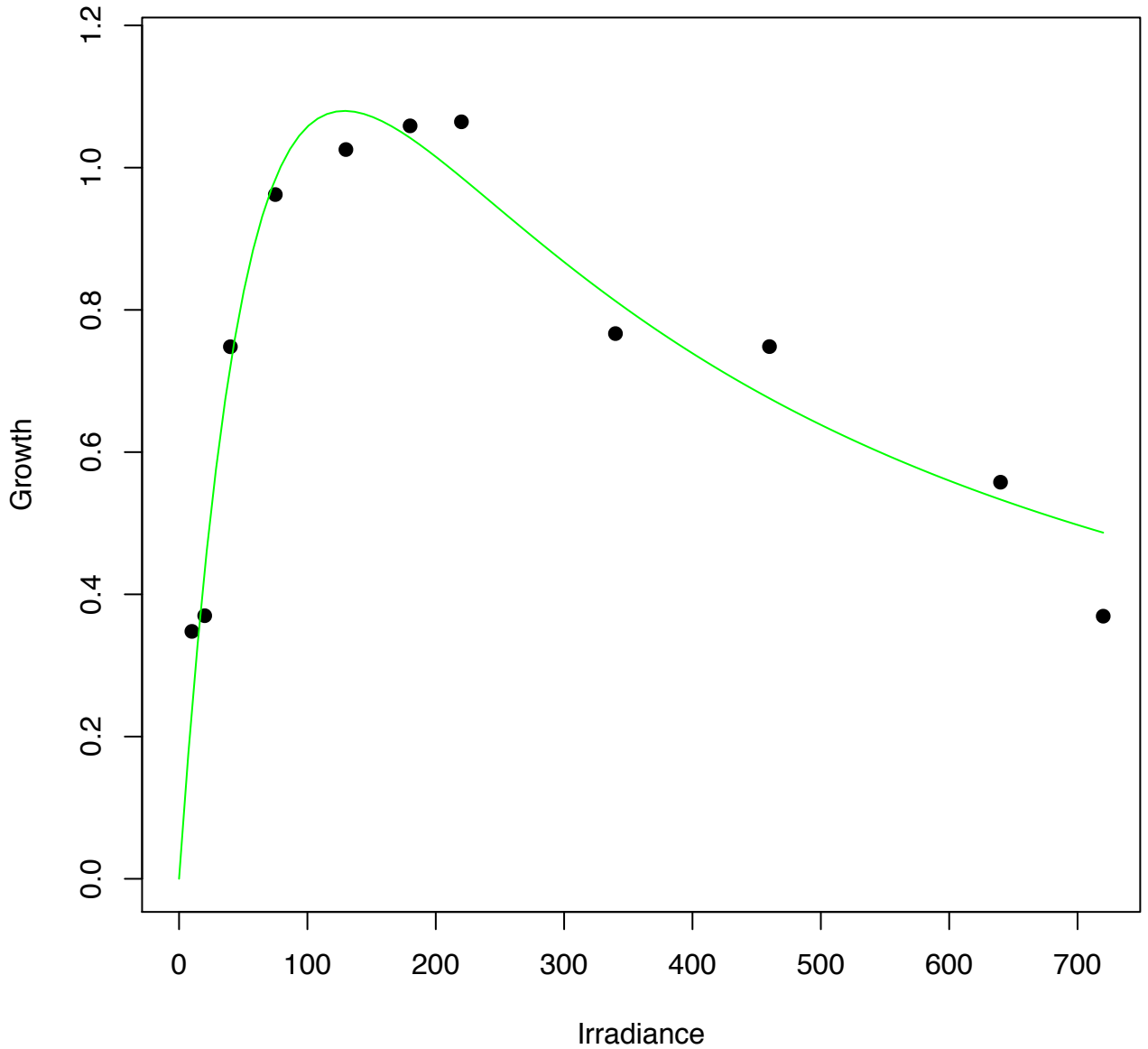
Chlorella vulgaris 25°C



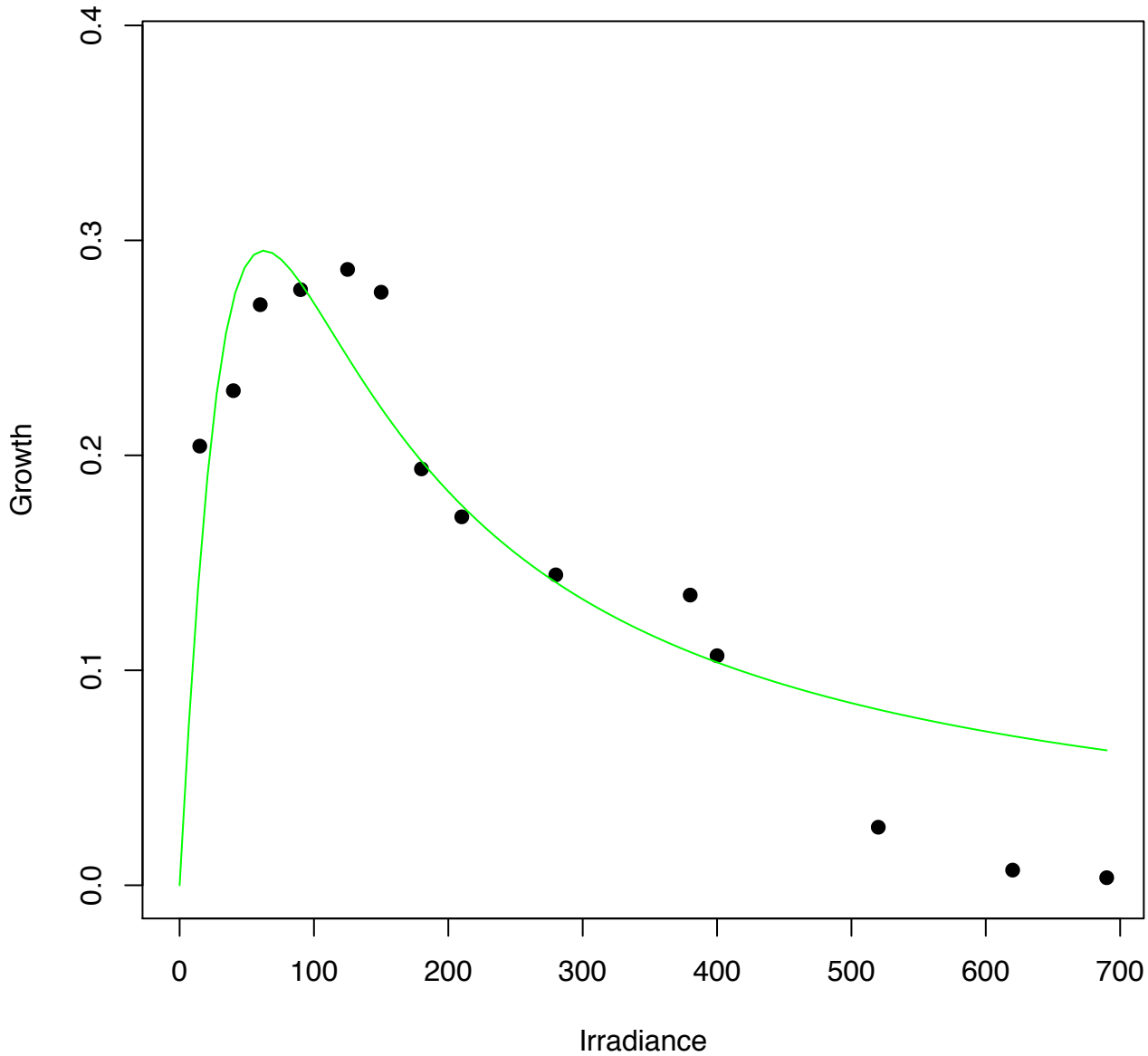
Chlorella vulgaris 30°C



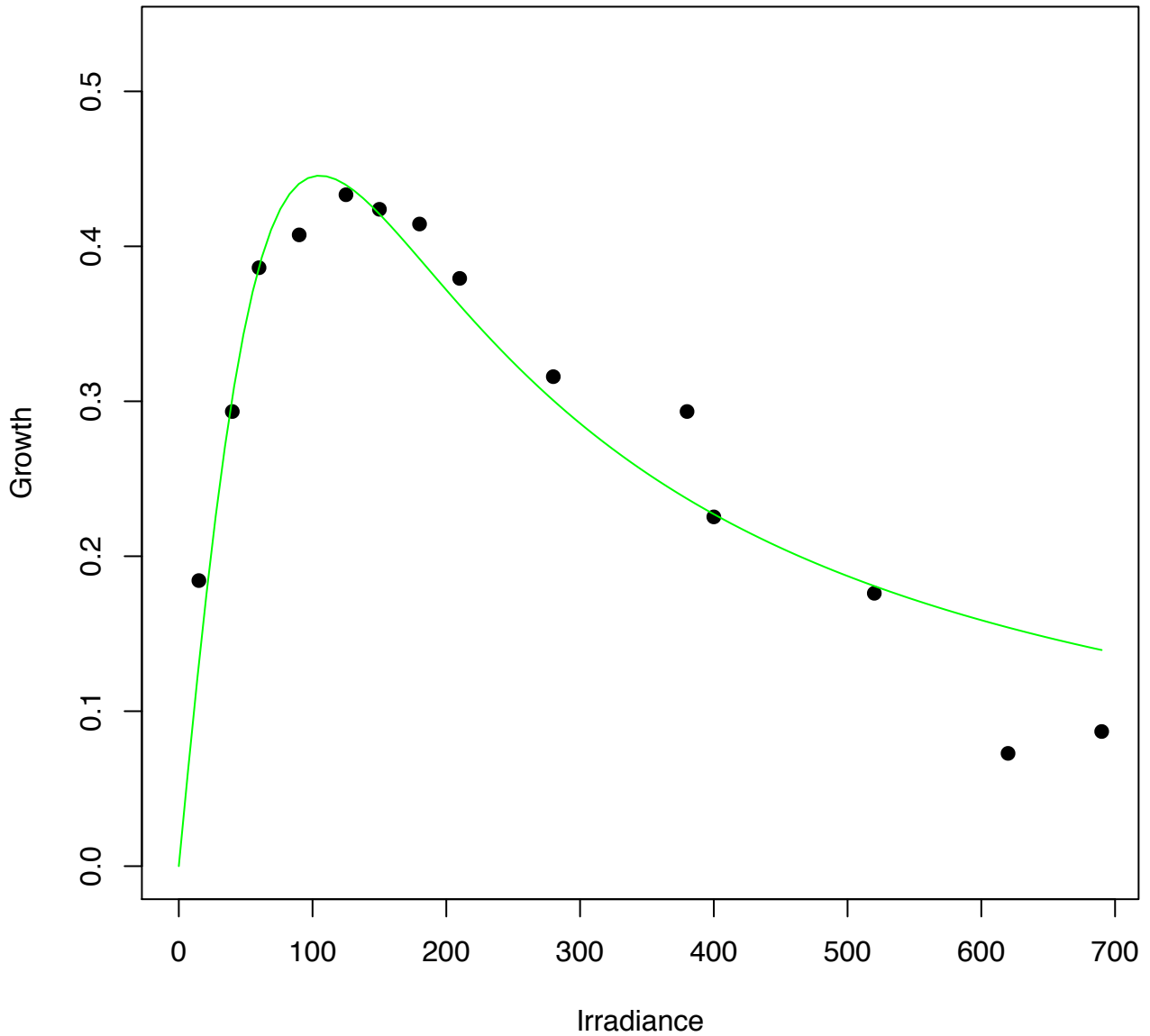
Chlorella vulgaris 35°C



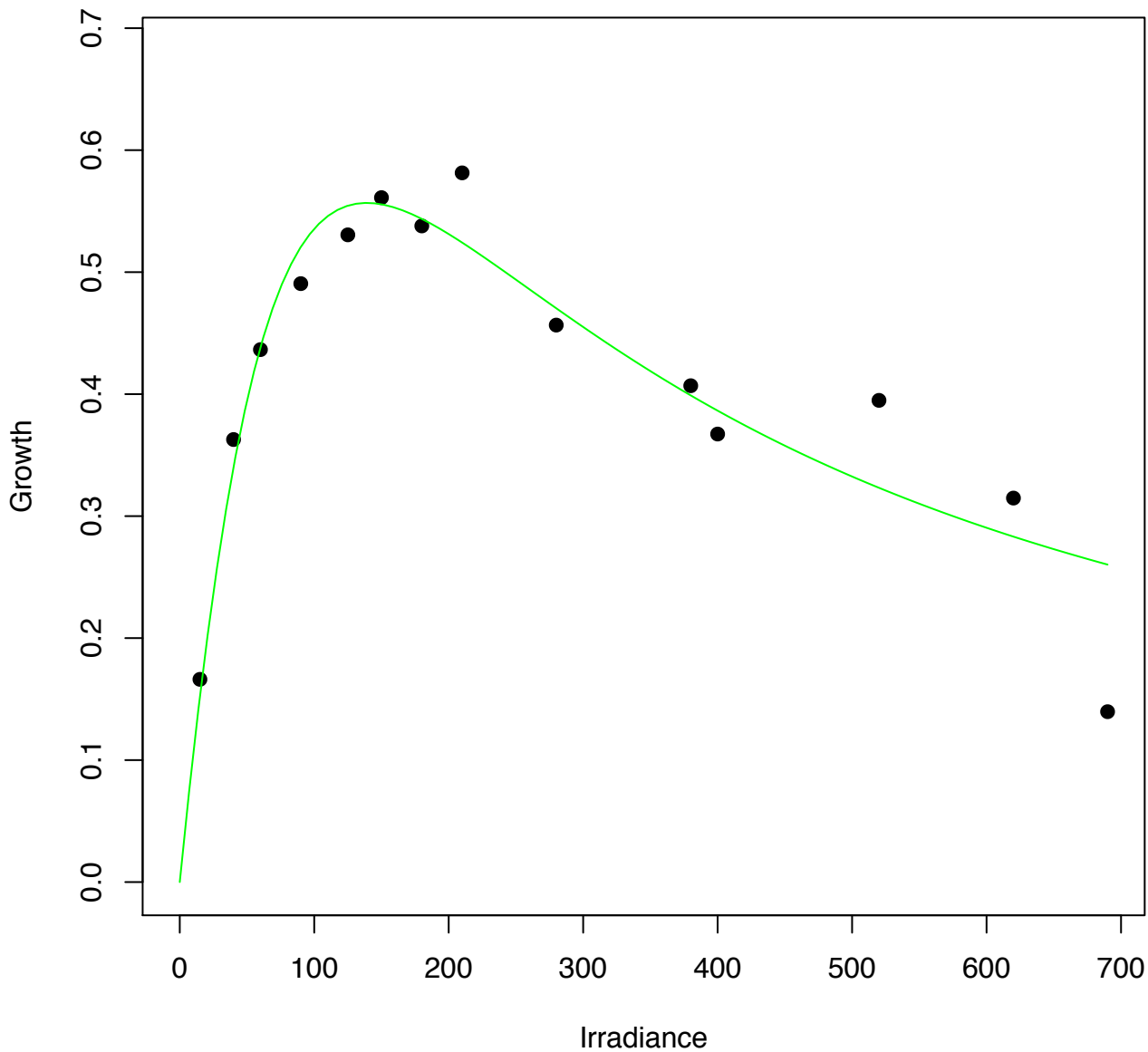
Fragilaria crotonensis 15°C



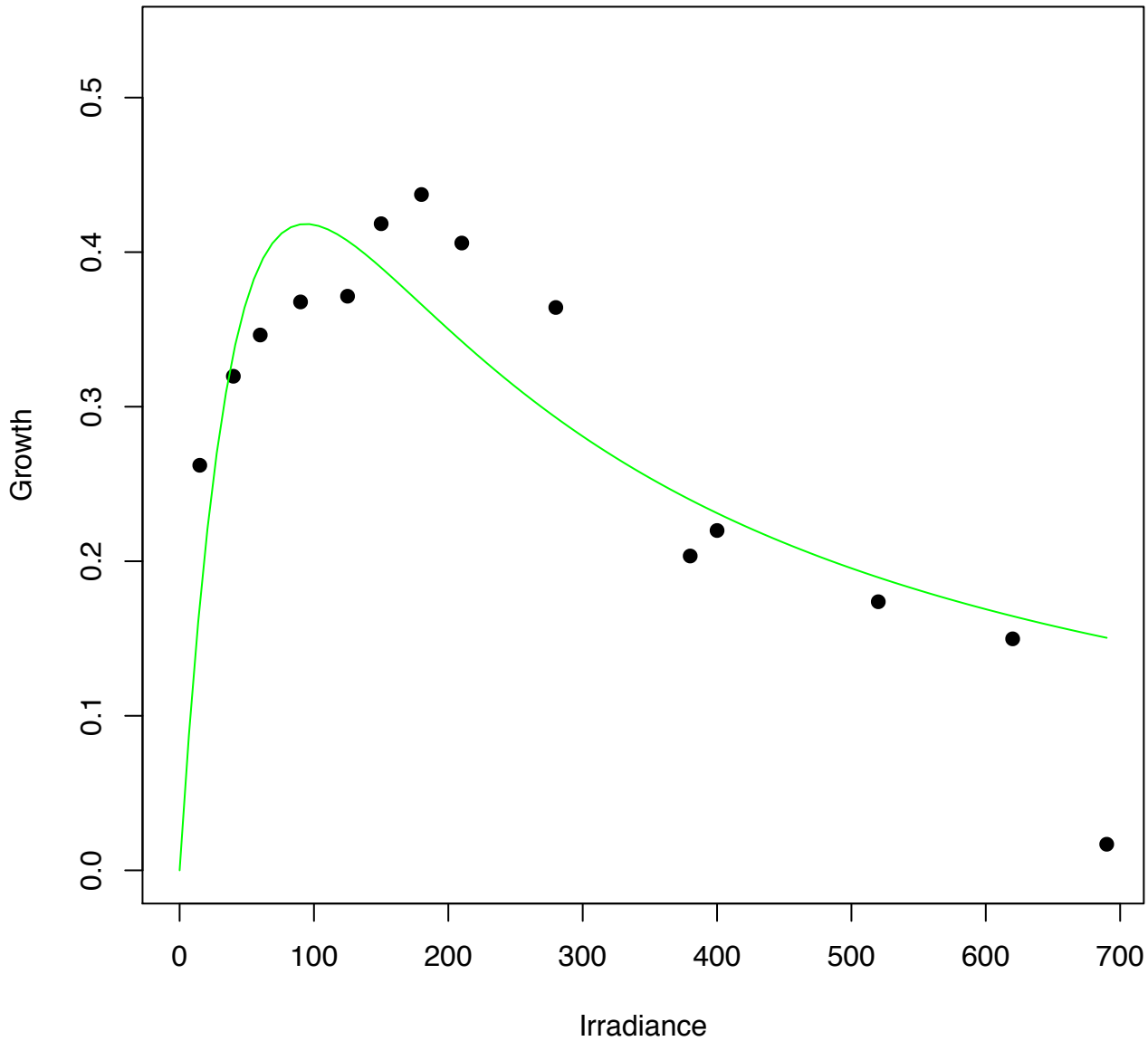
Fragilaria crotonensis 20°C



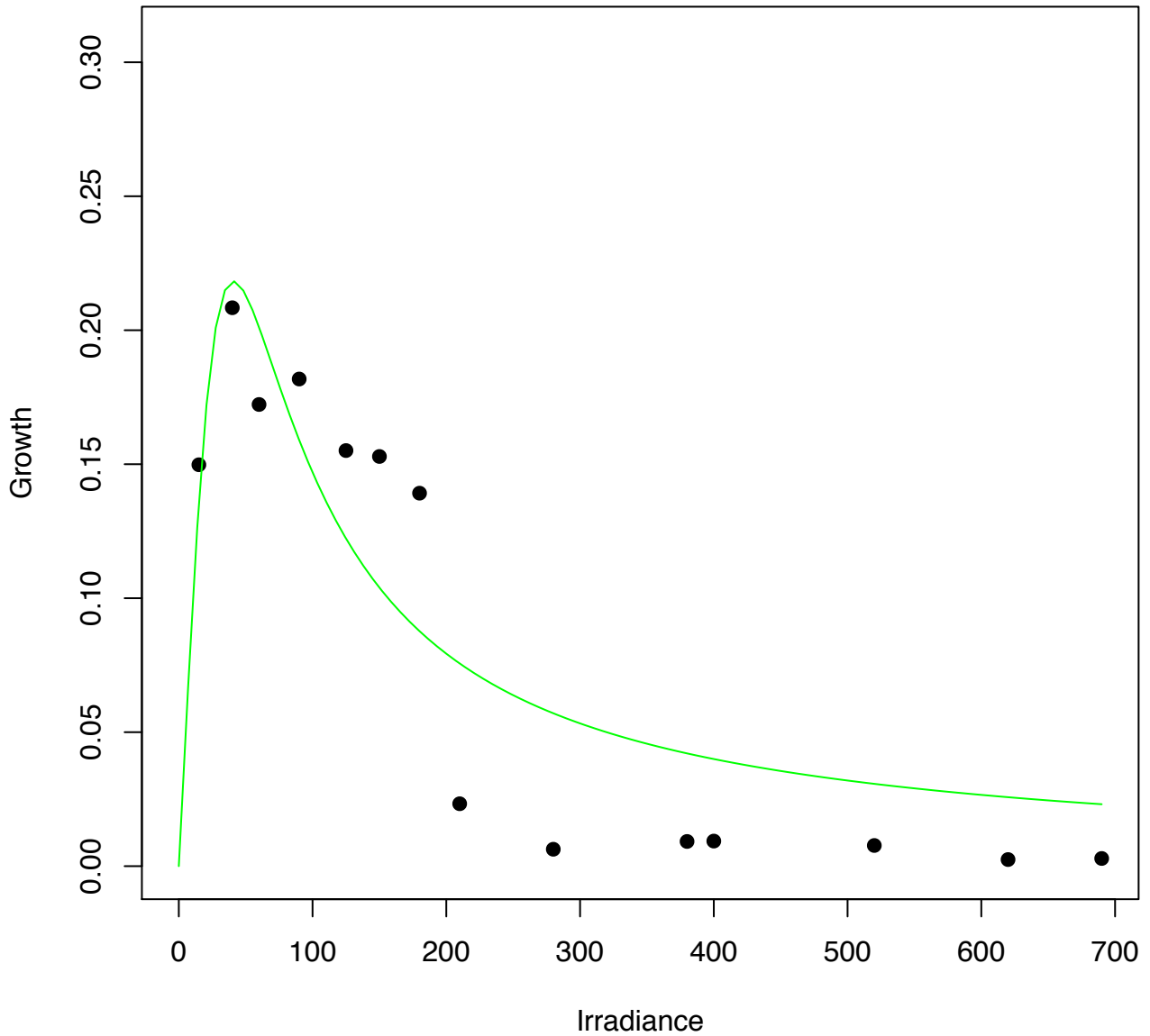
Fragilaria crotonensis 25°C



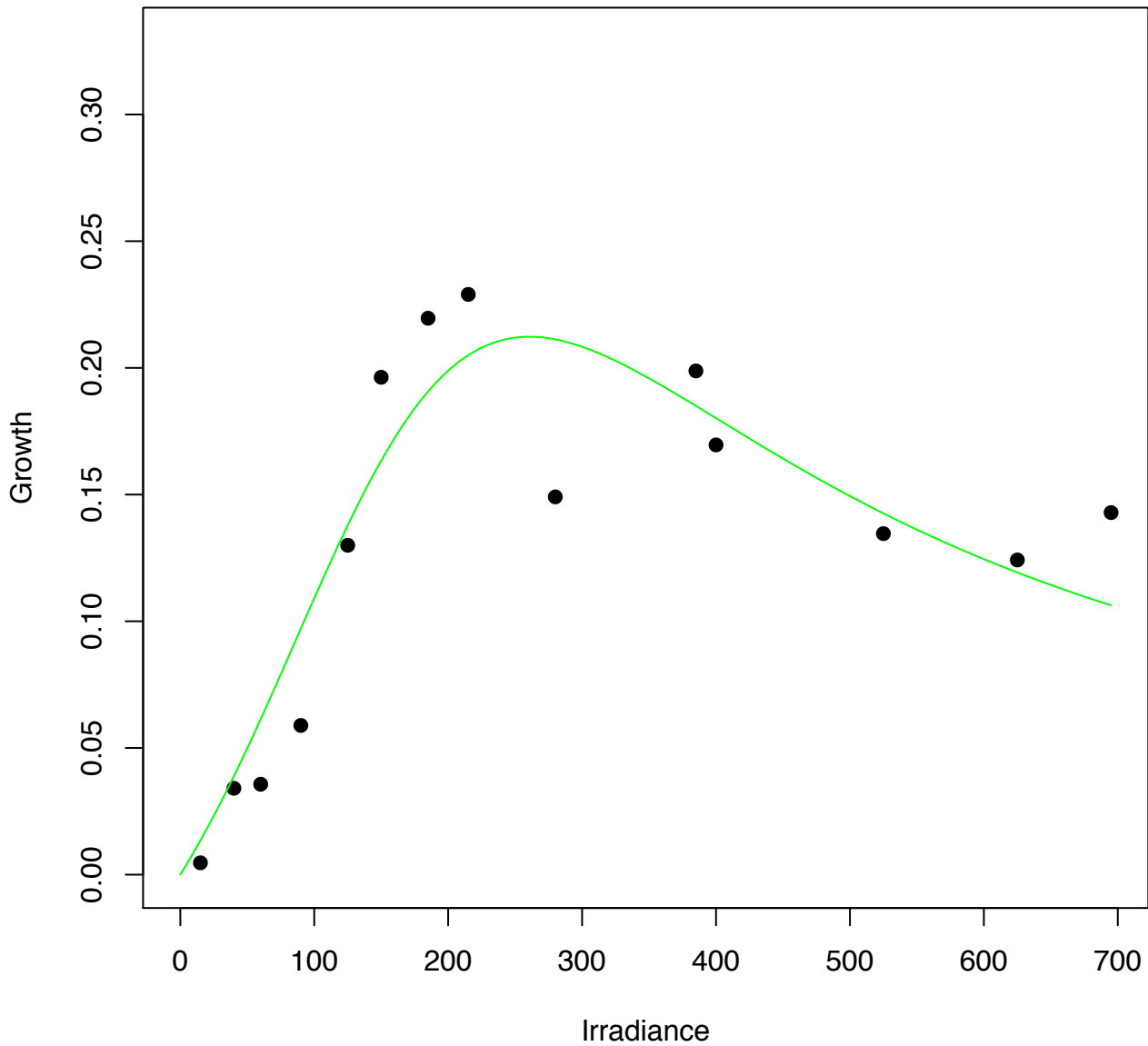
Fragilaria crotonensis 30°C



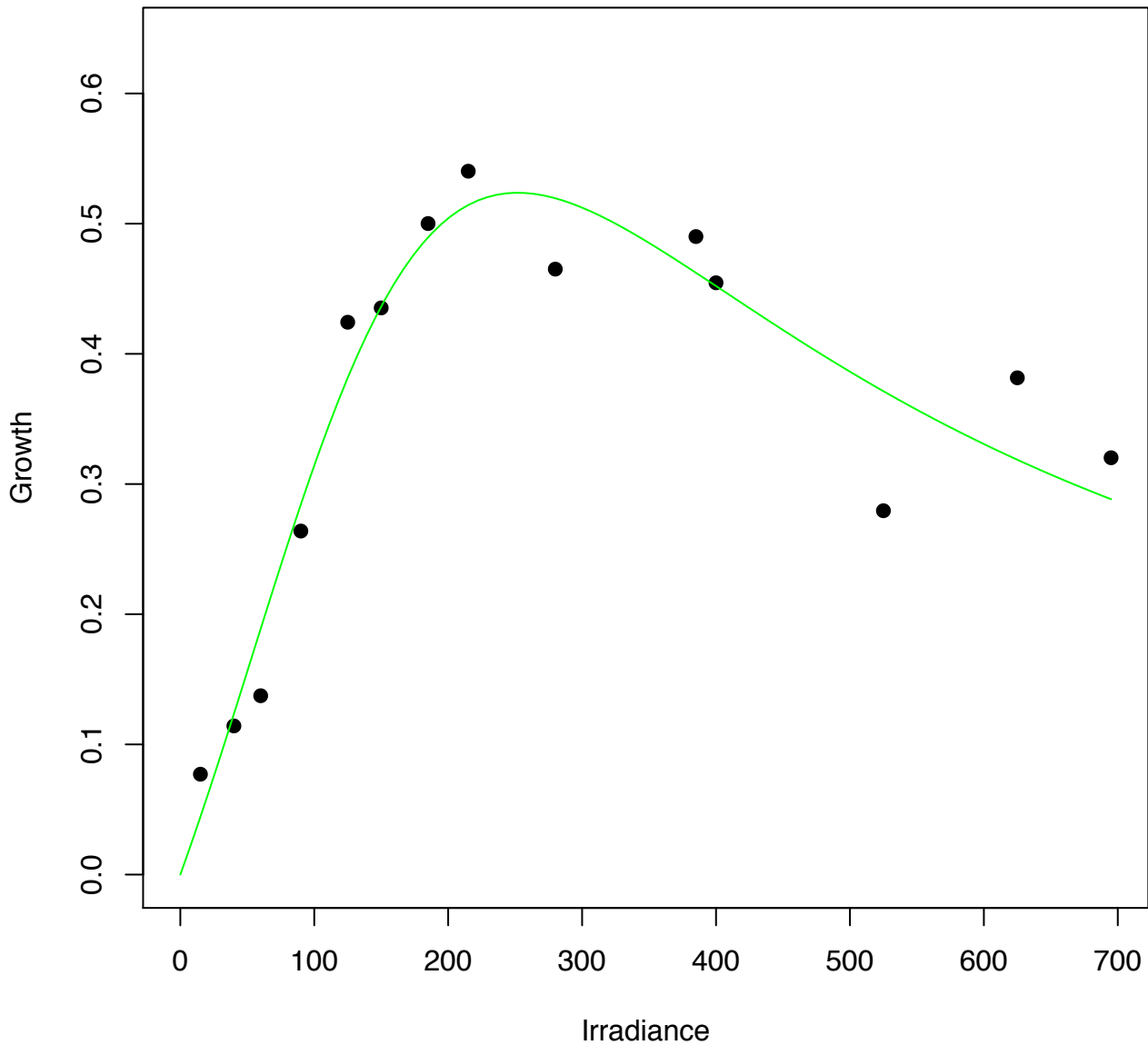
Fragilaria crotonensis 35°C



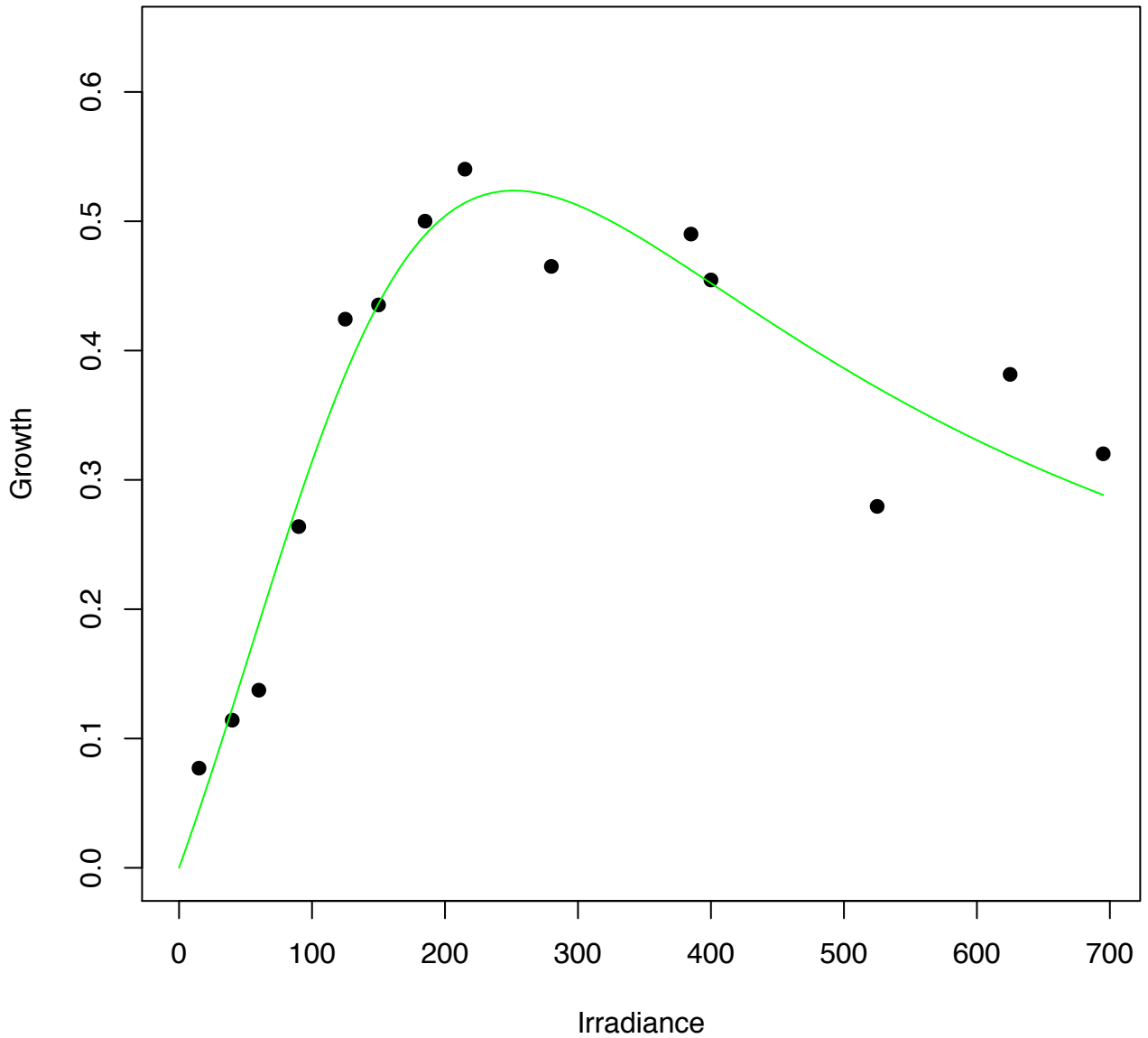
Staurastrum pingue 10°C



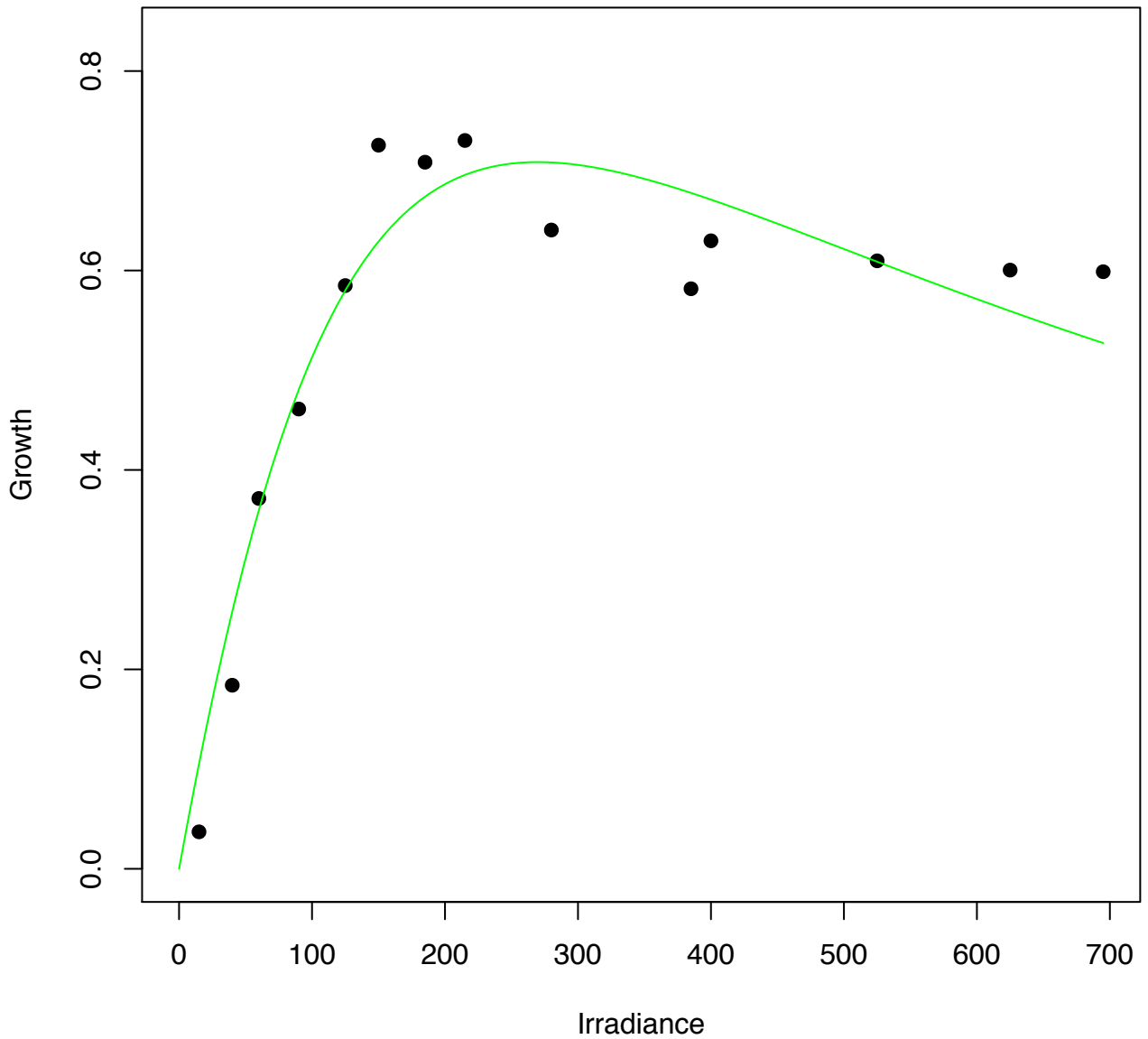
Staurastrum pingue 15°C



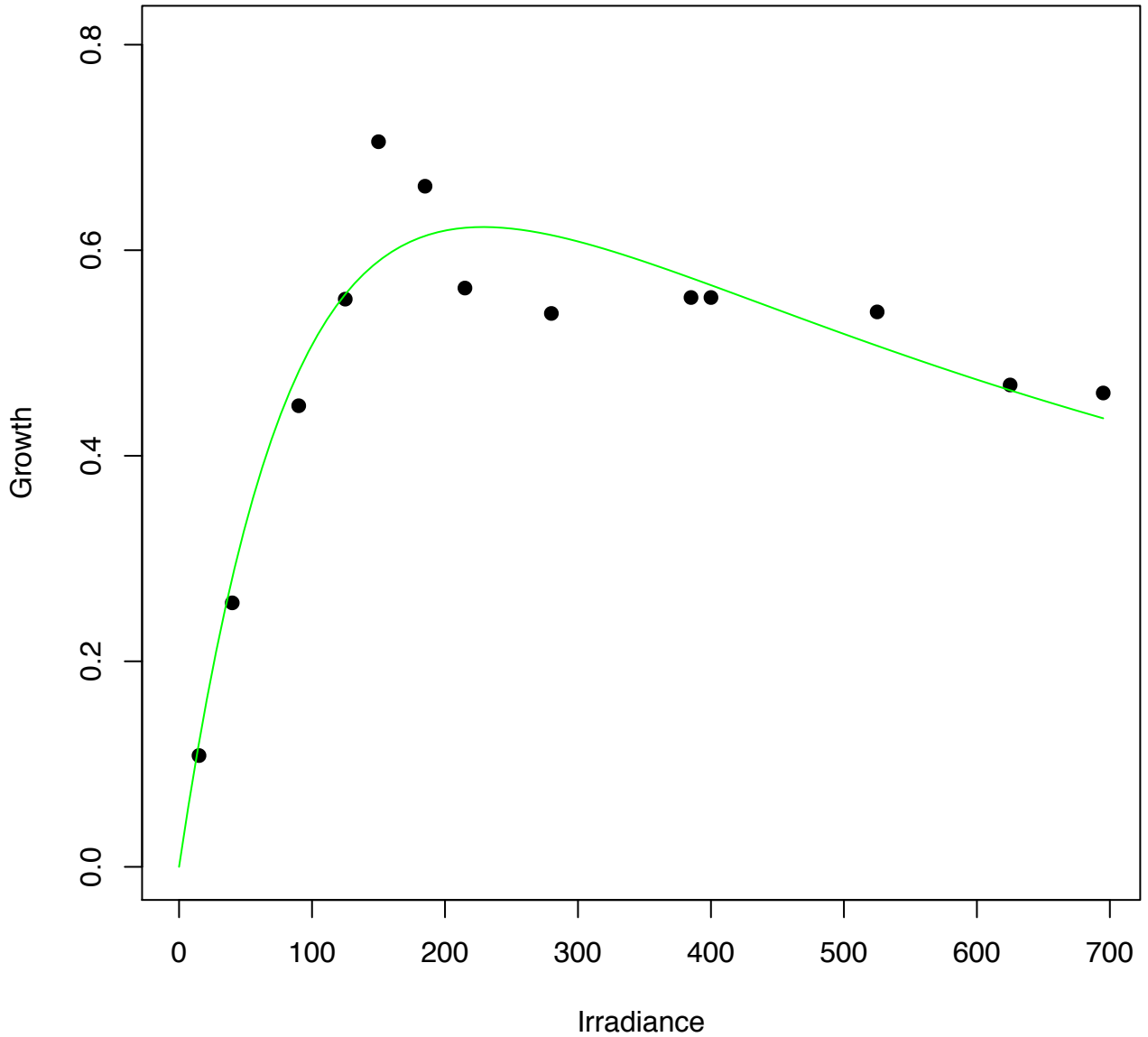
Staurastrum pingue 20°C



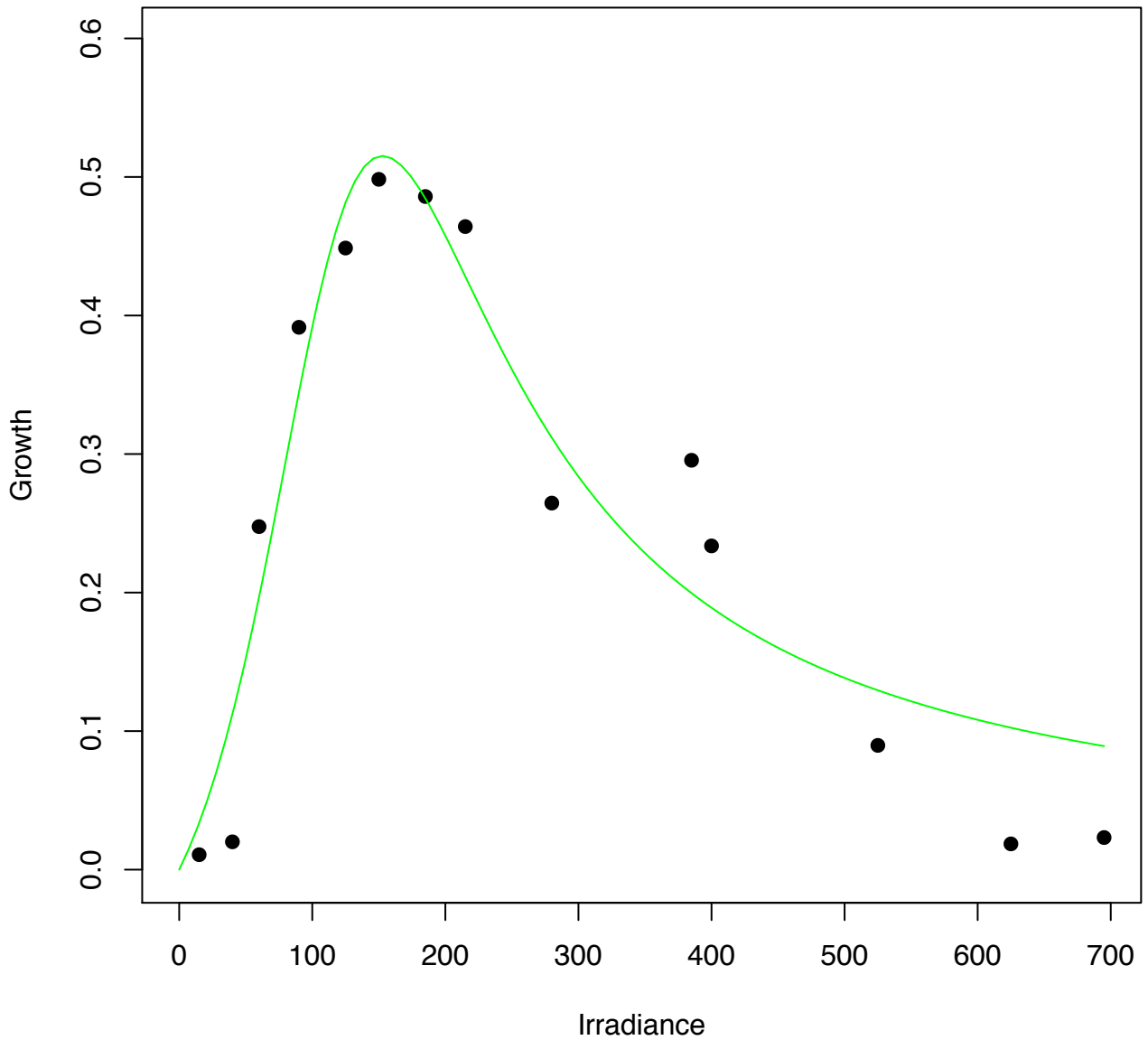
Staurastrum pingue 25°C



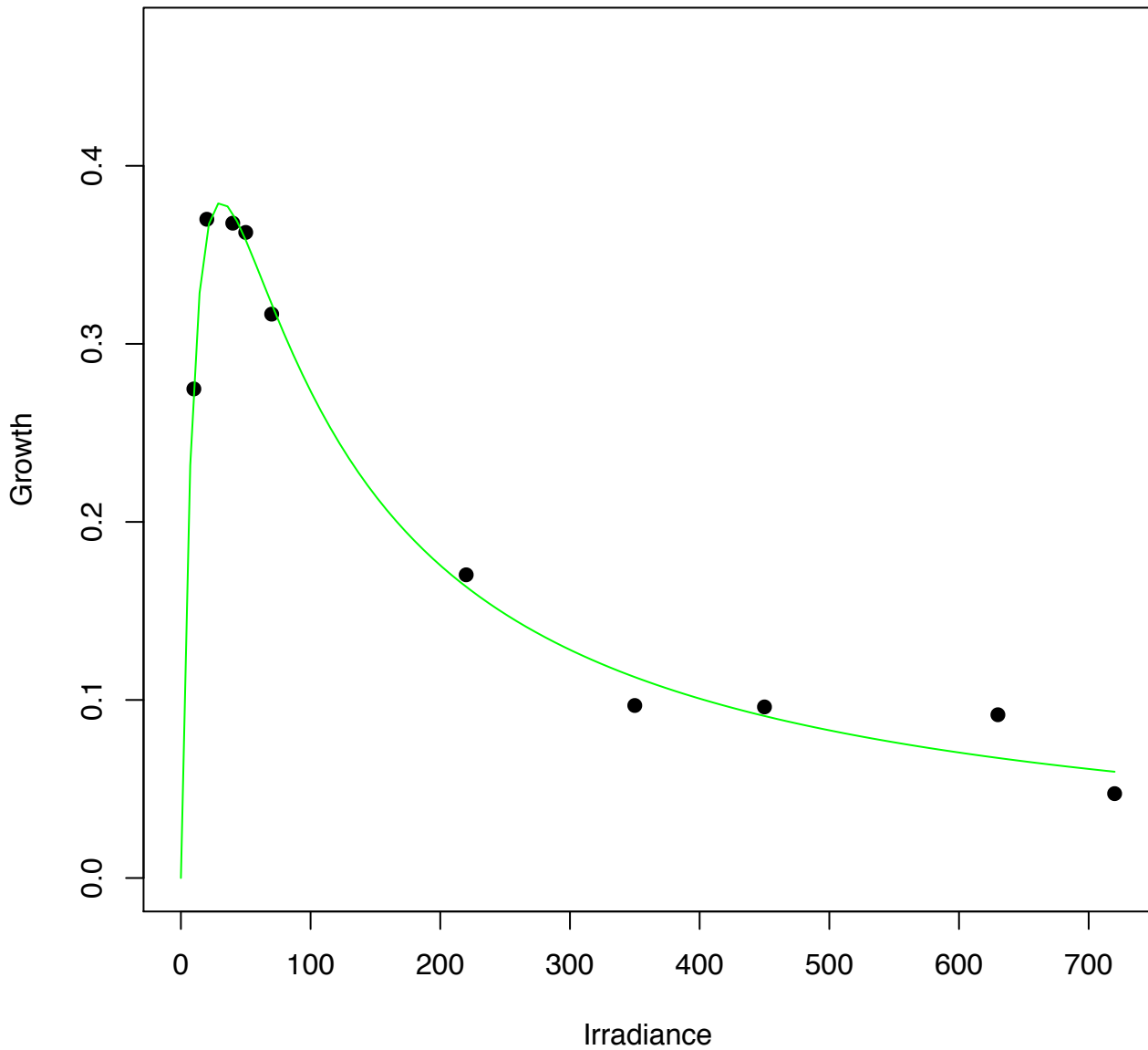
Staurastrum pingue 30°C



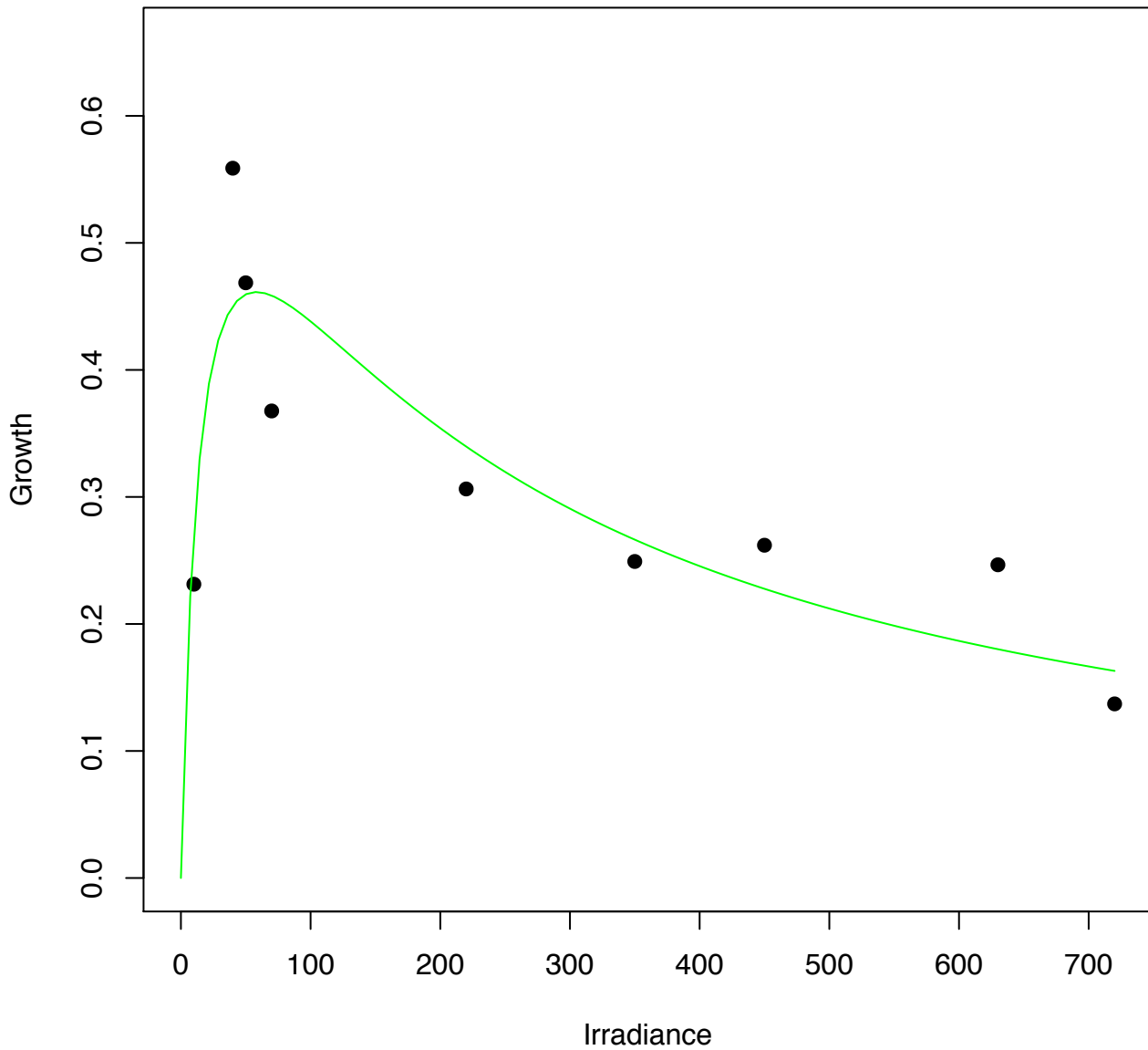
Staurastrum pingue 35°C



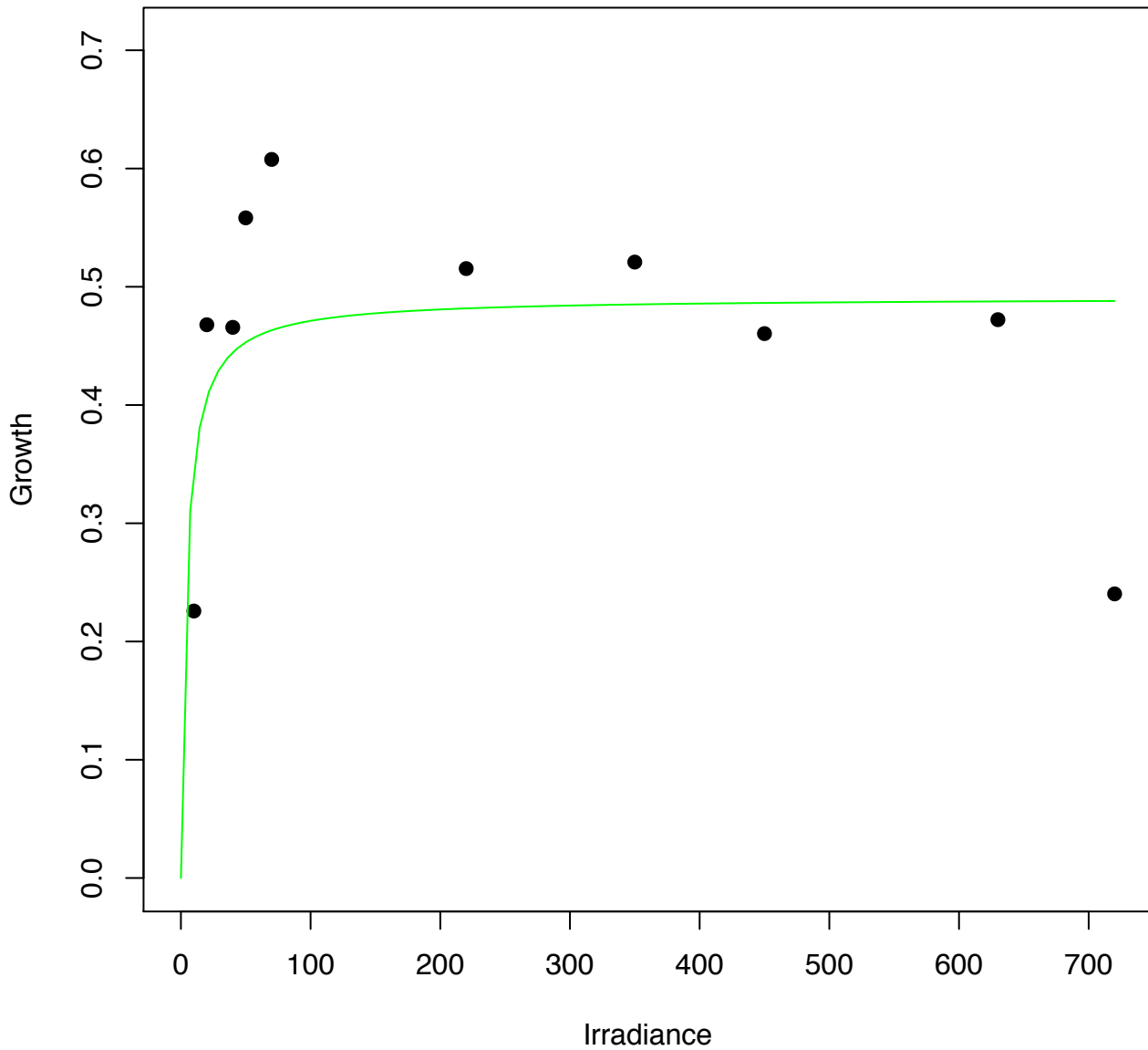
Synechocystis minima 10°C



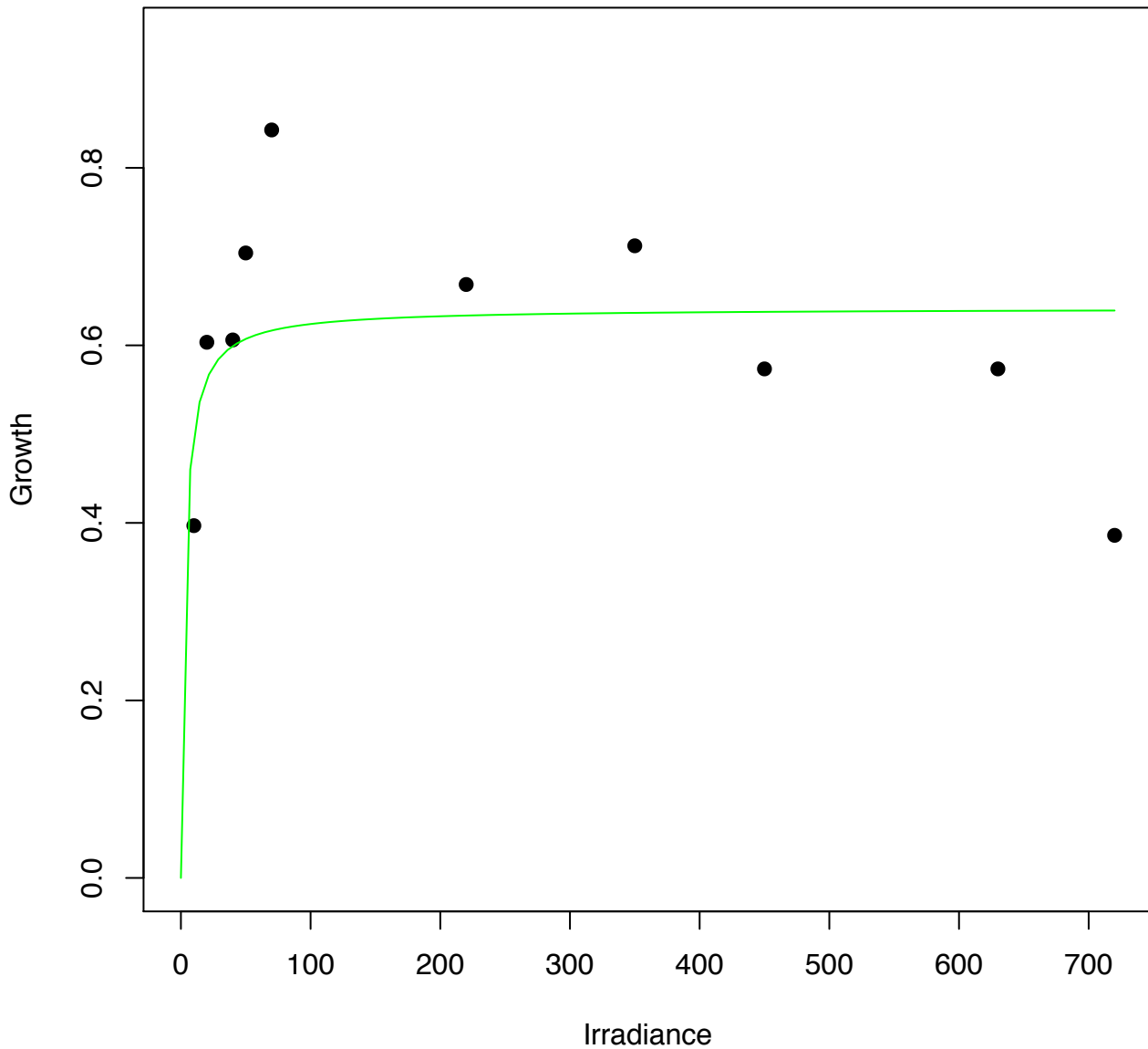
Synechocystis minima 15°C



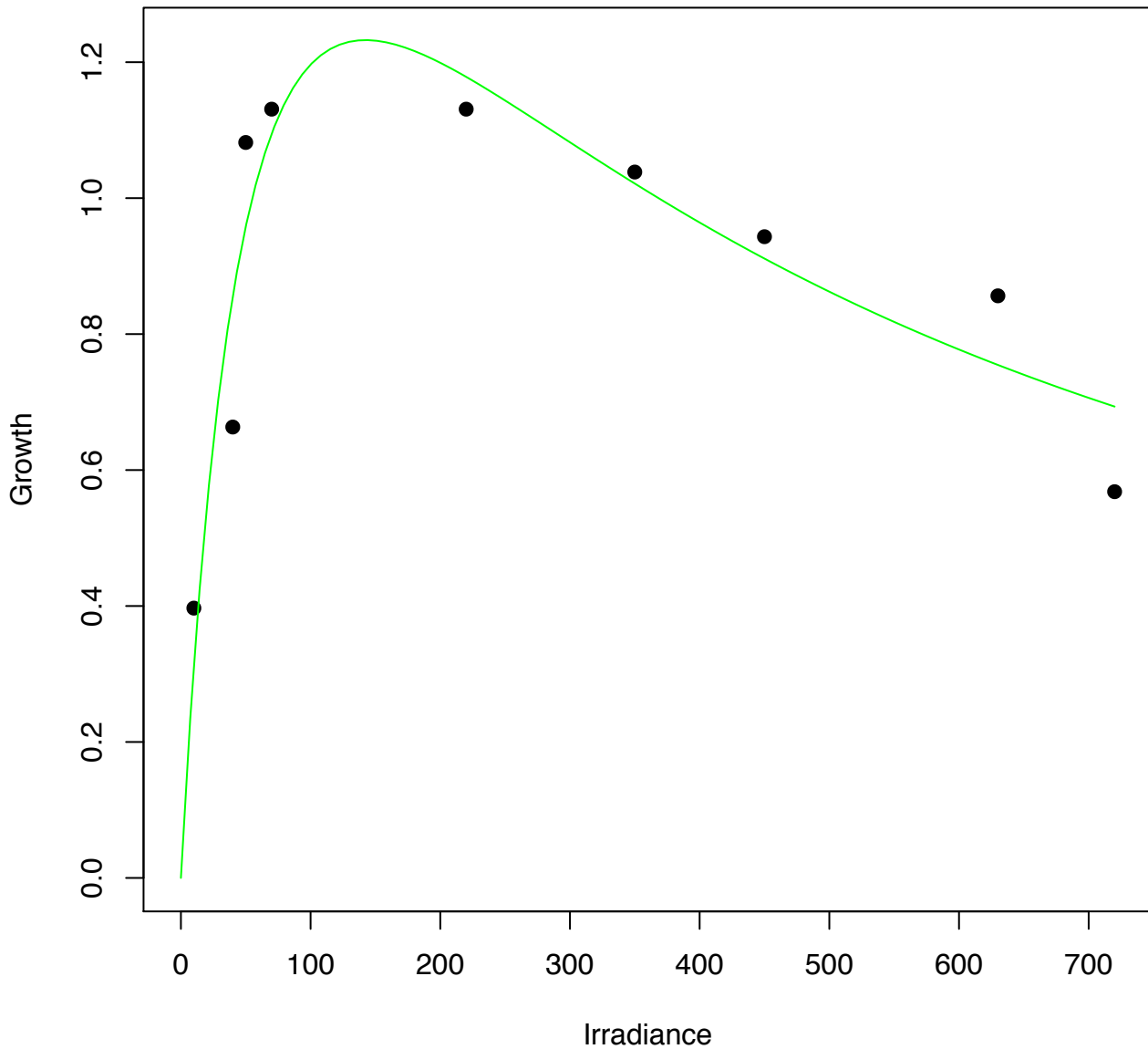
Synechocystis minima 20°C



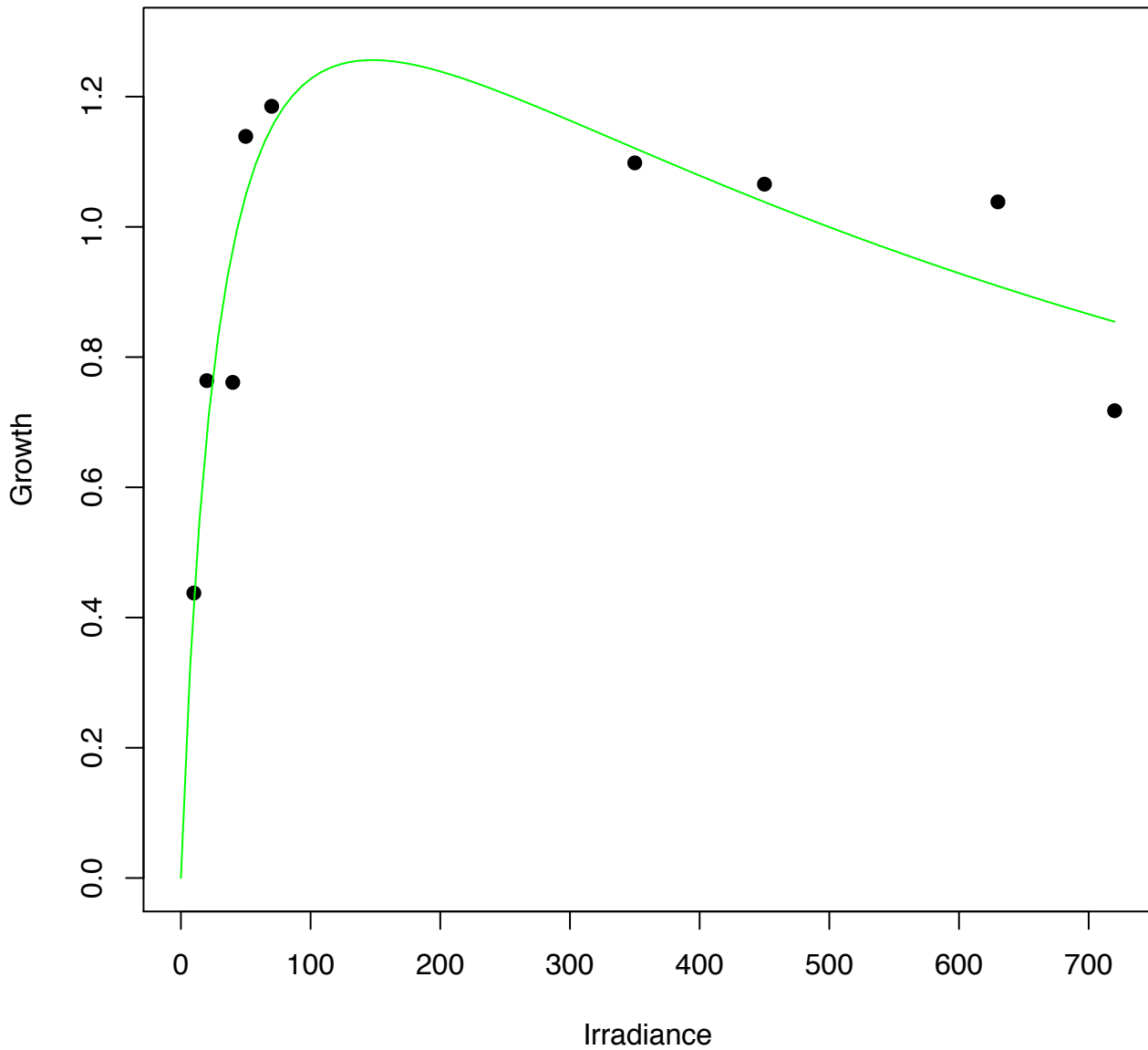
Synechocystis minima 25°C



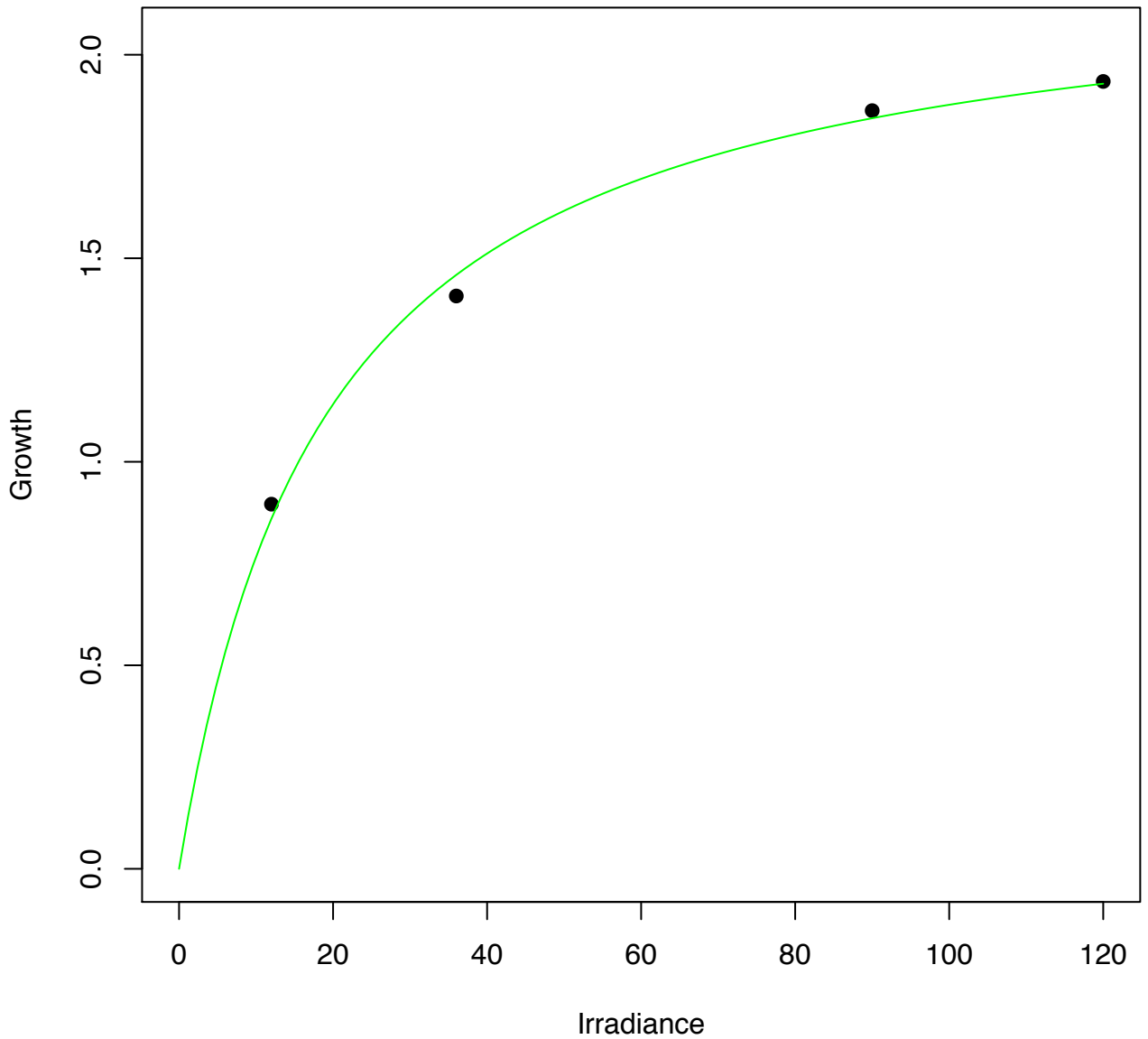
Synechocystis minima 30°C



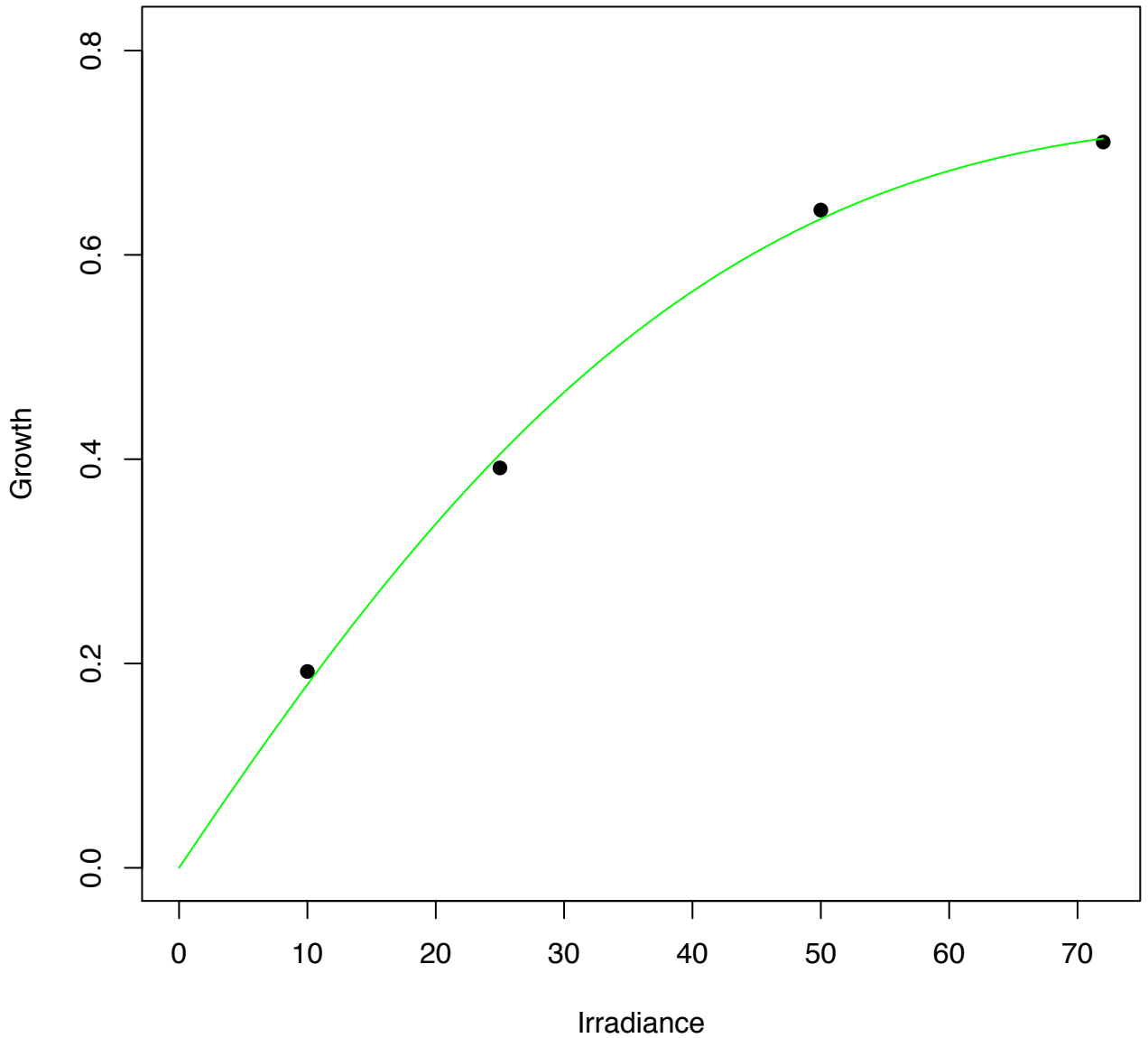
Synechocystis minima 35°C



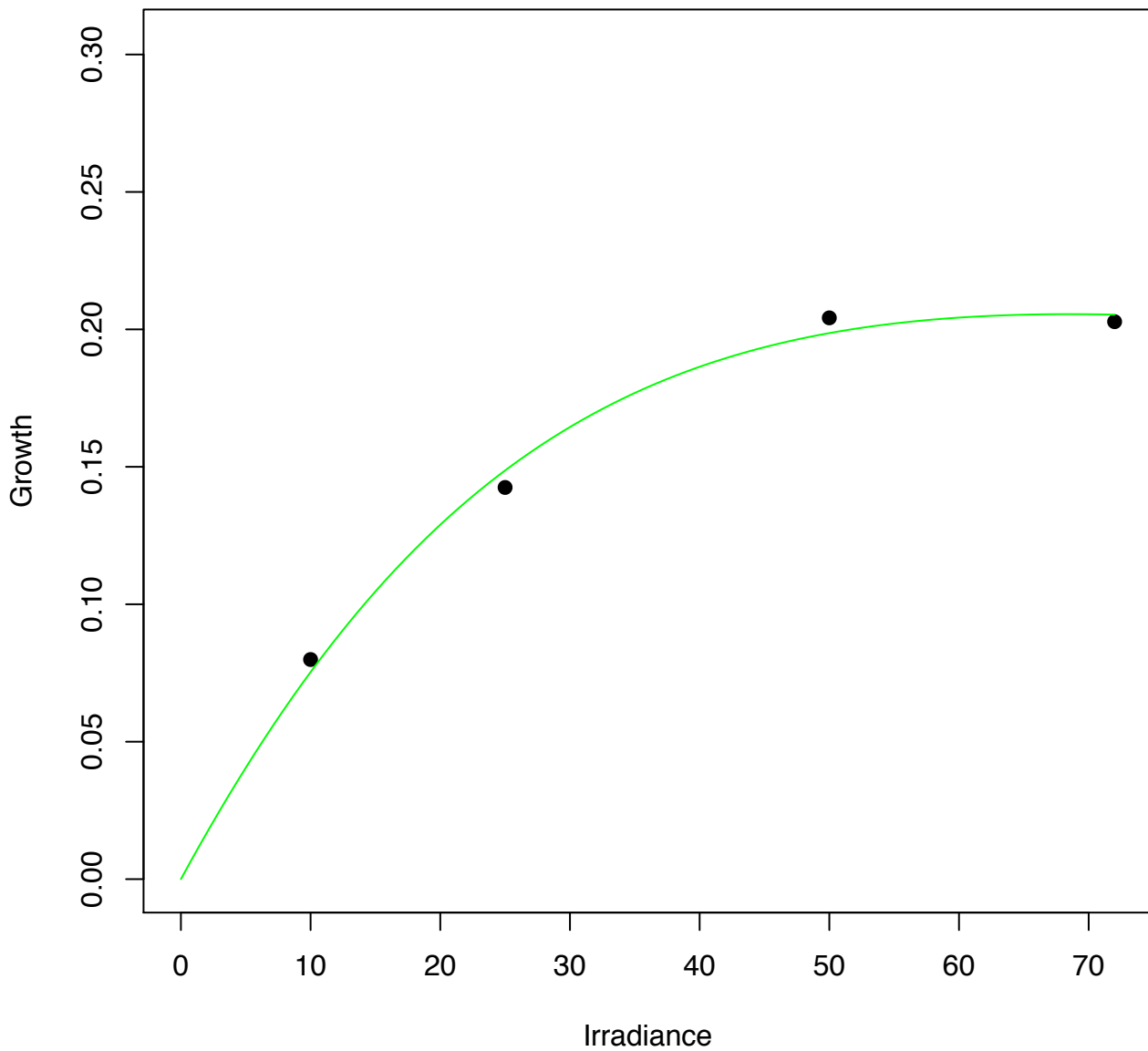
Leptocylindricus danicus 15°C



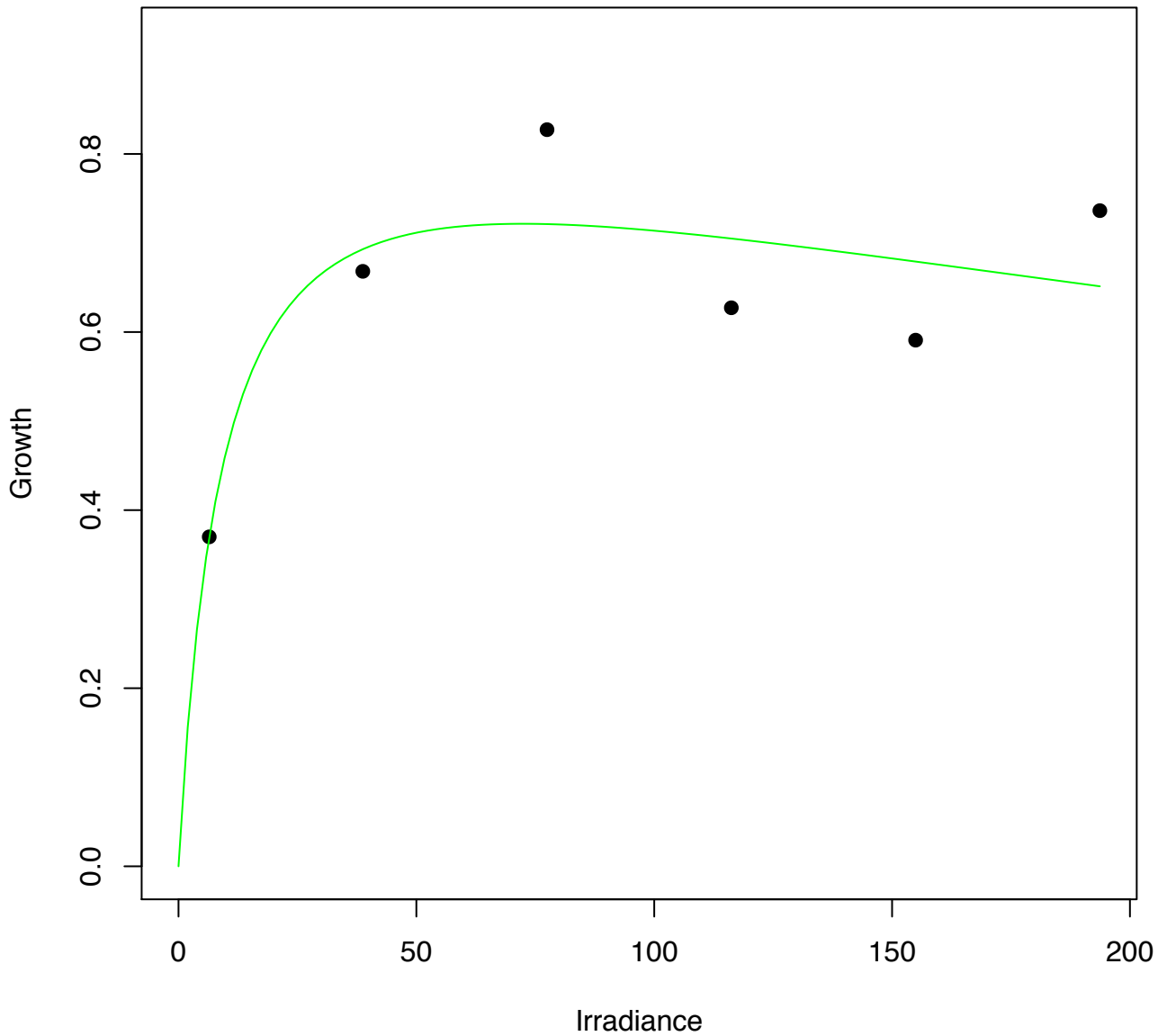
Leptocylindricus danicus 10°C



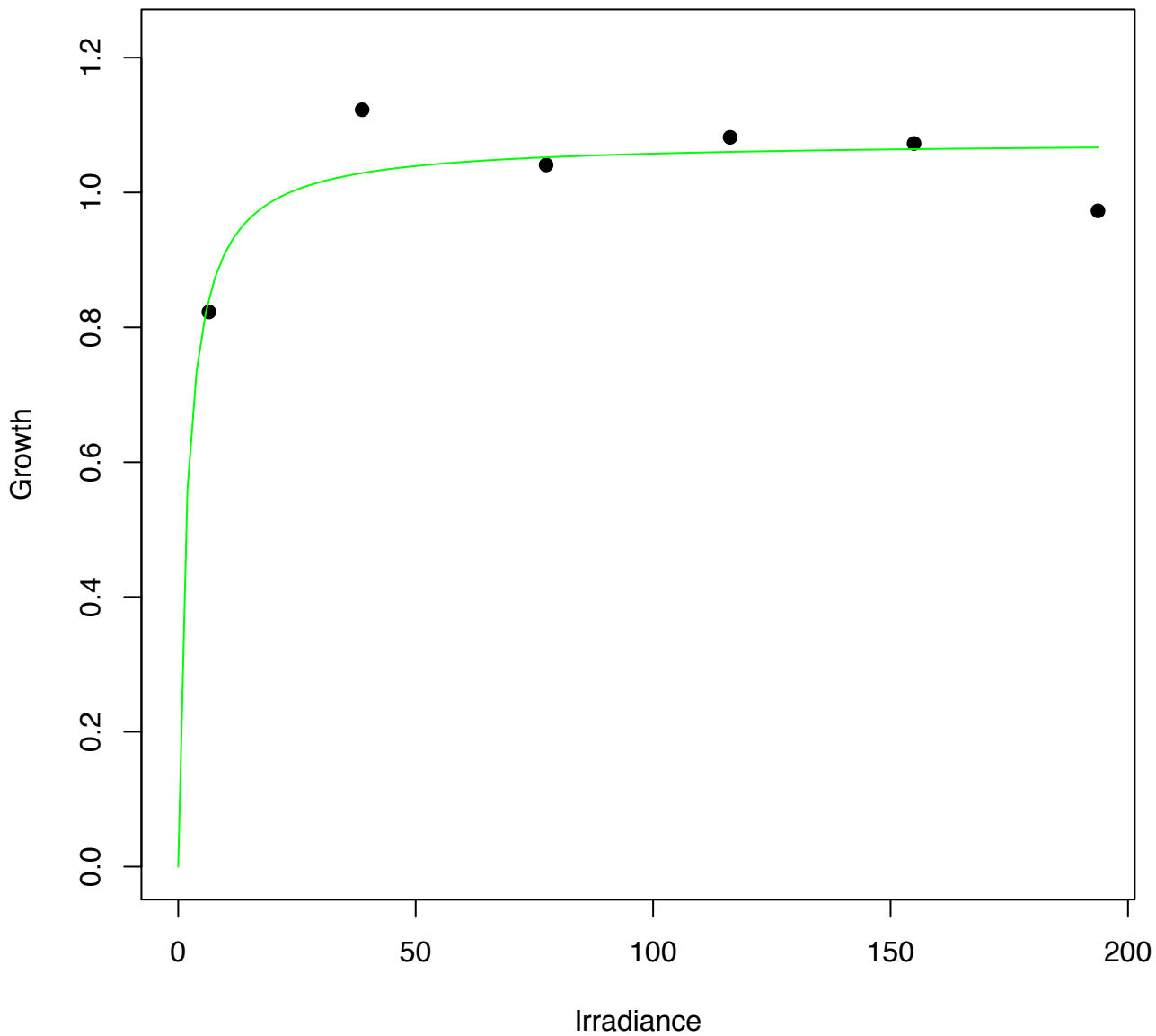
Leptocylindricus danicus 5°C



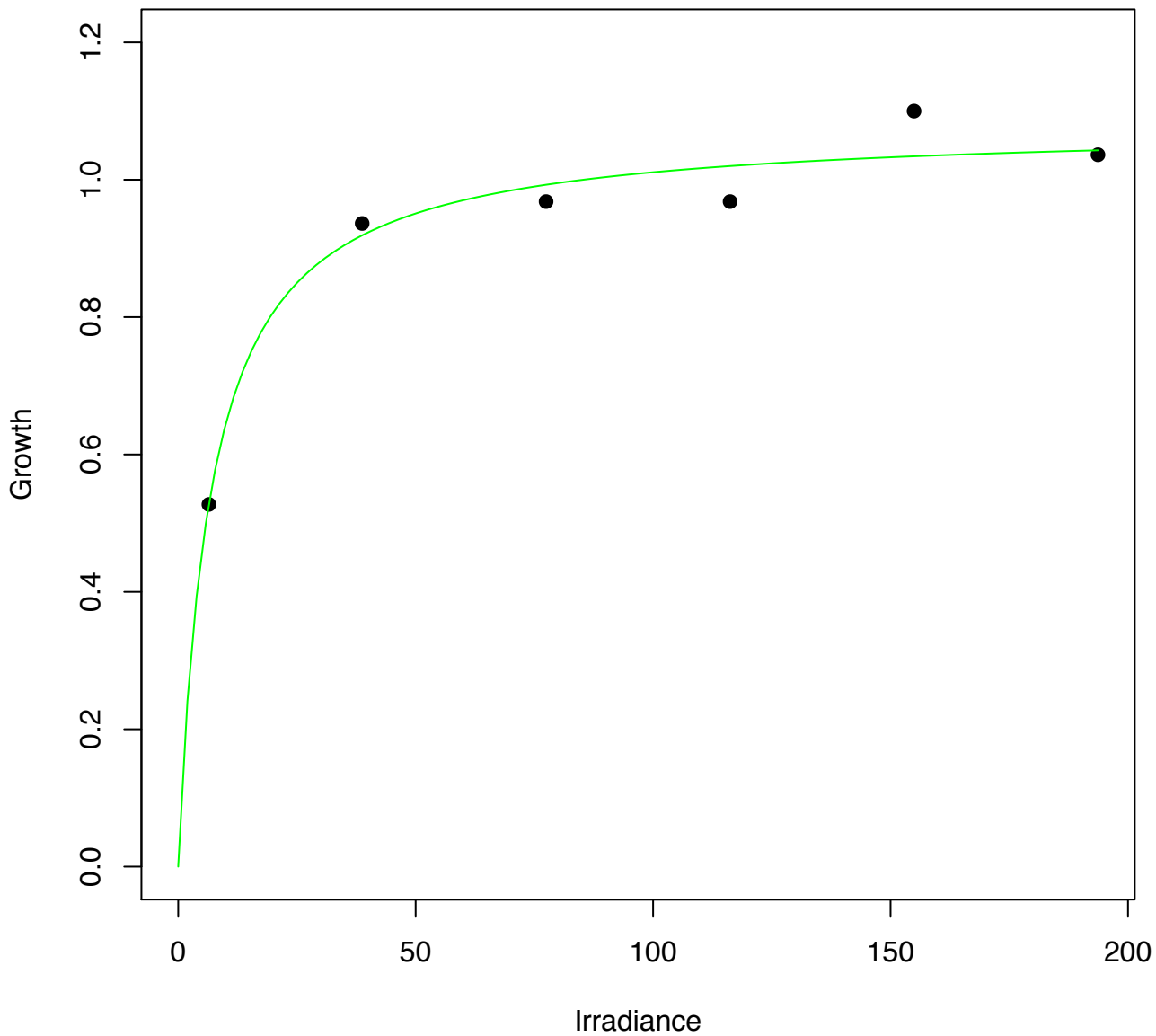
Thalassiosira allenii 4°C



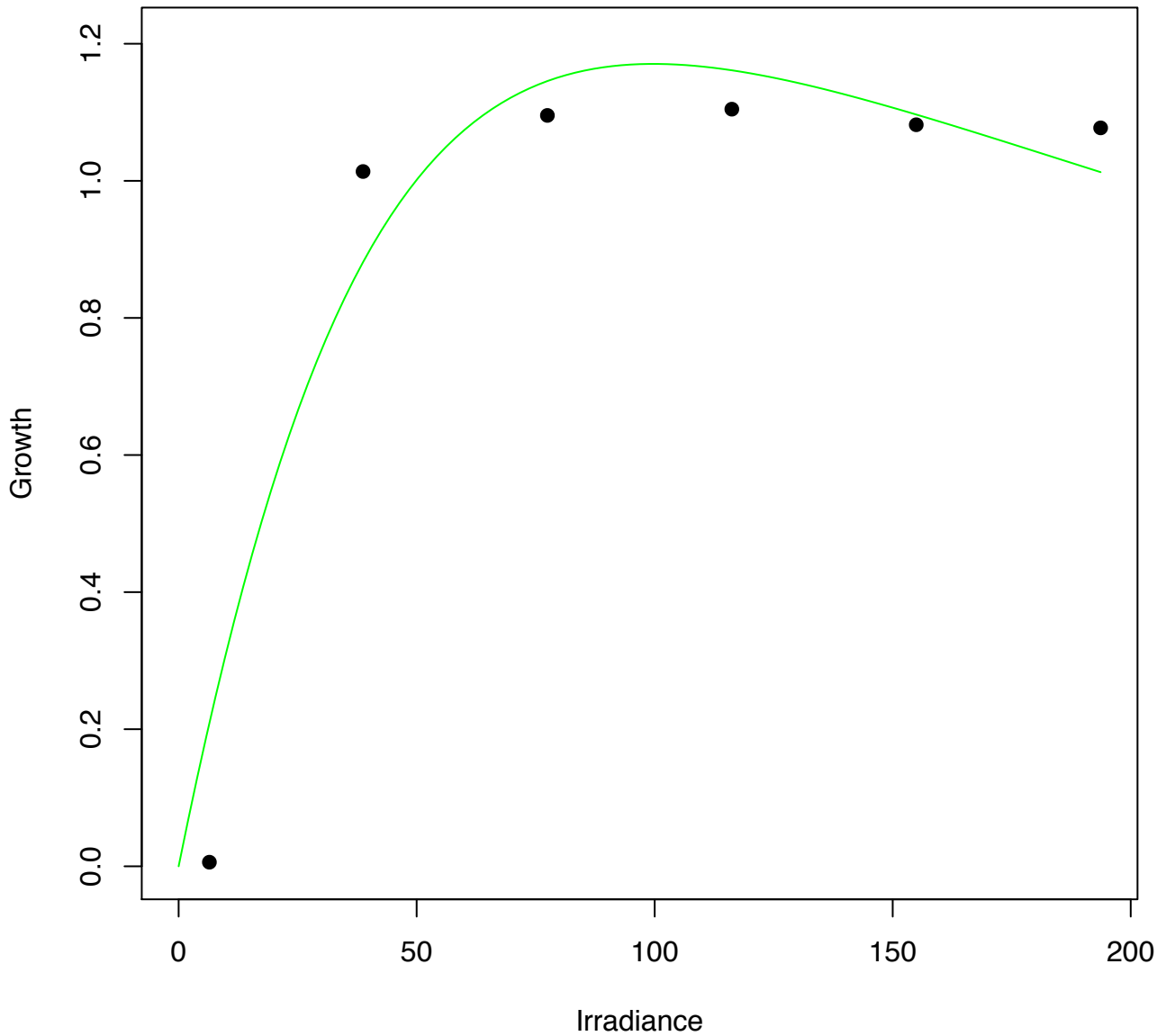
Thalassiosira allenii 11°C



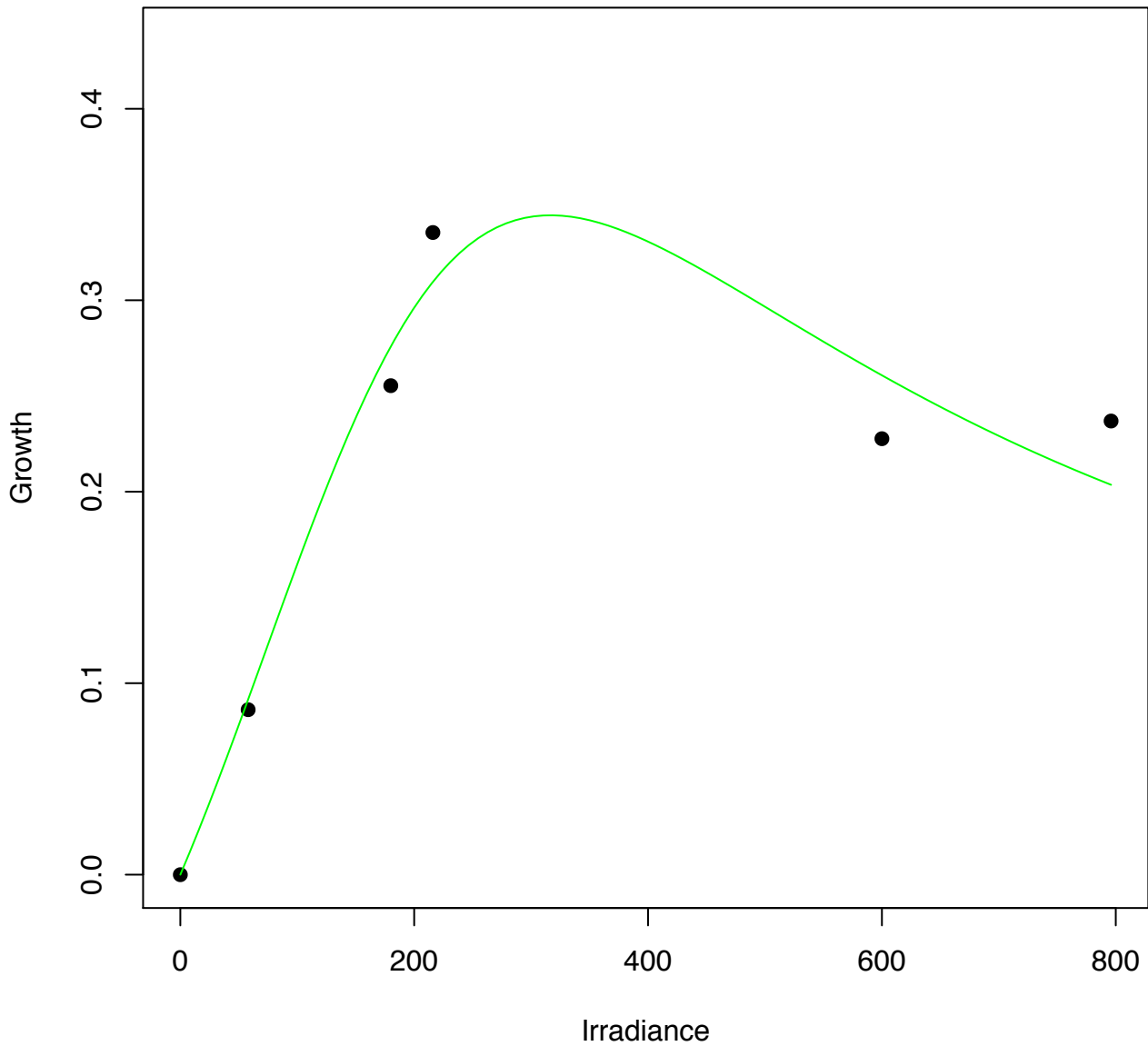
Thalassiosira allenii 16°C



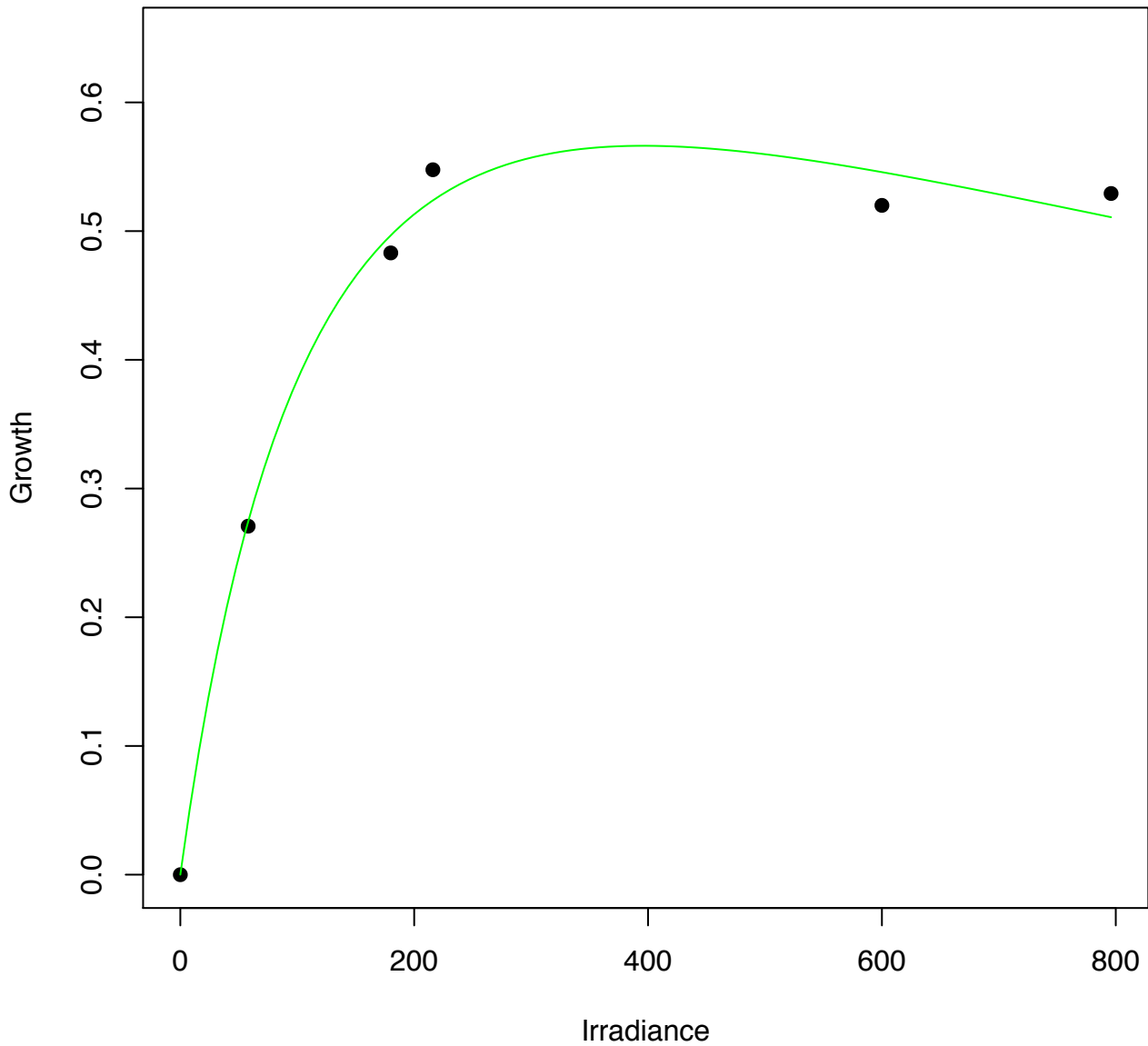
Thalassiosira allenii 20°C



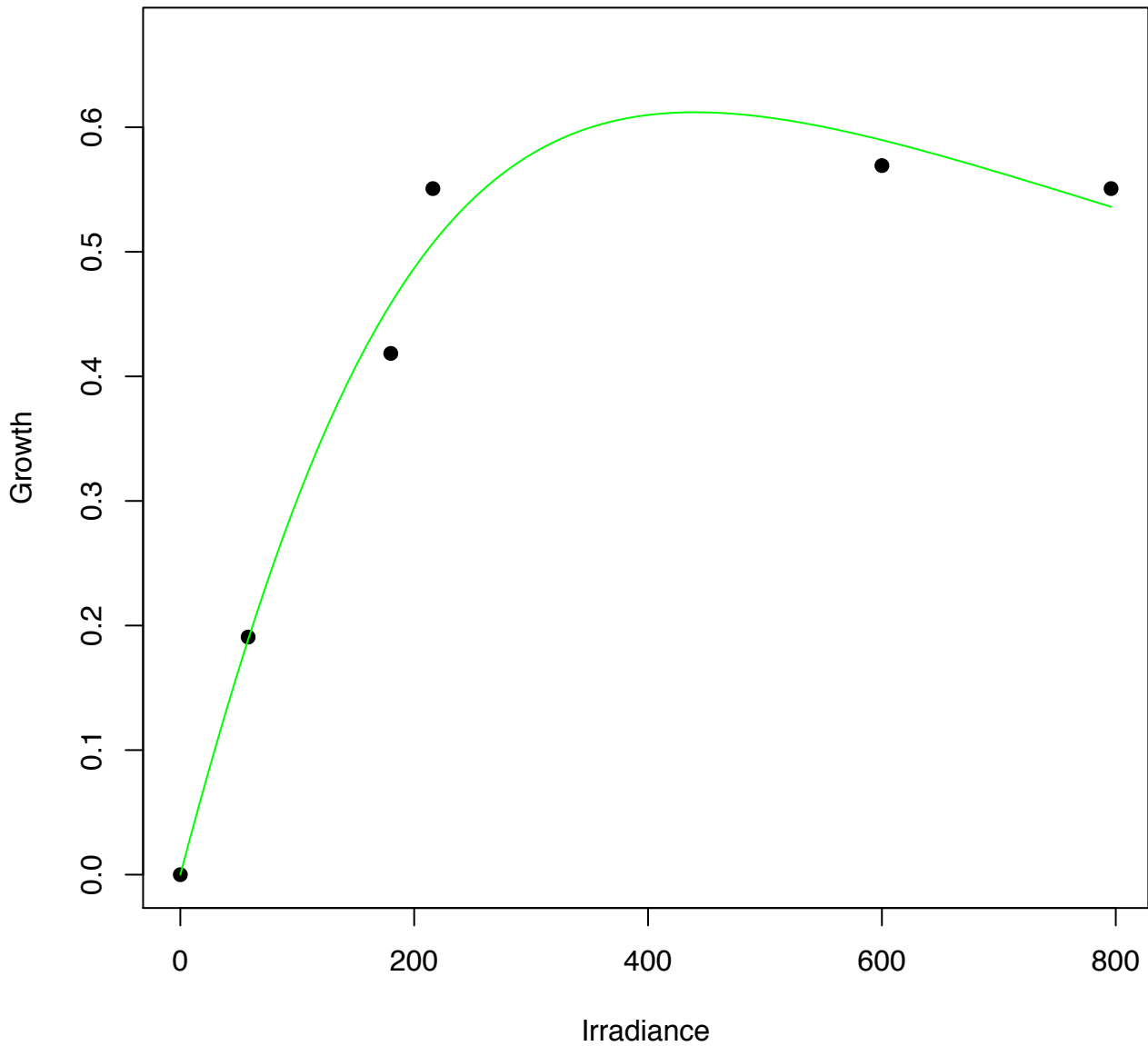
Ceratium furca 30°C



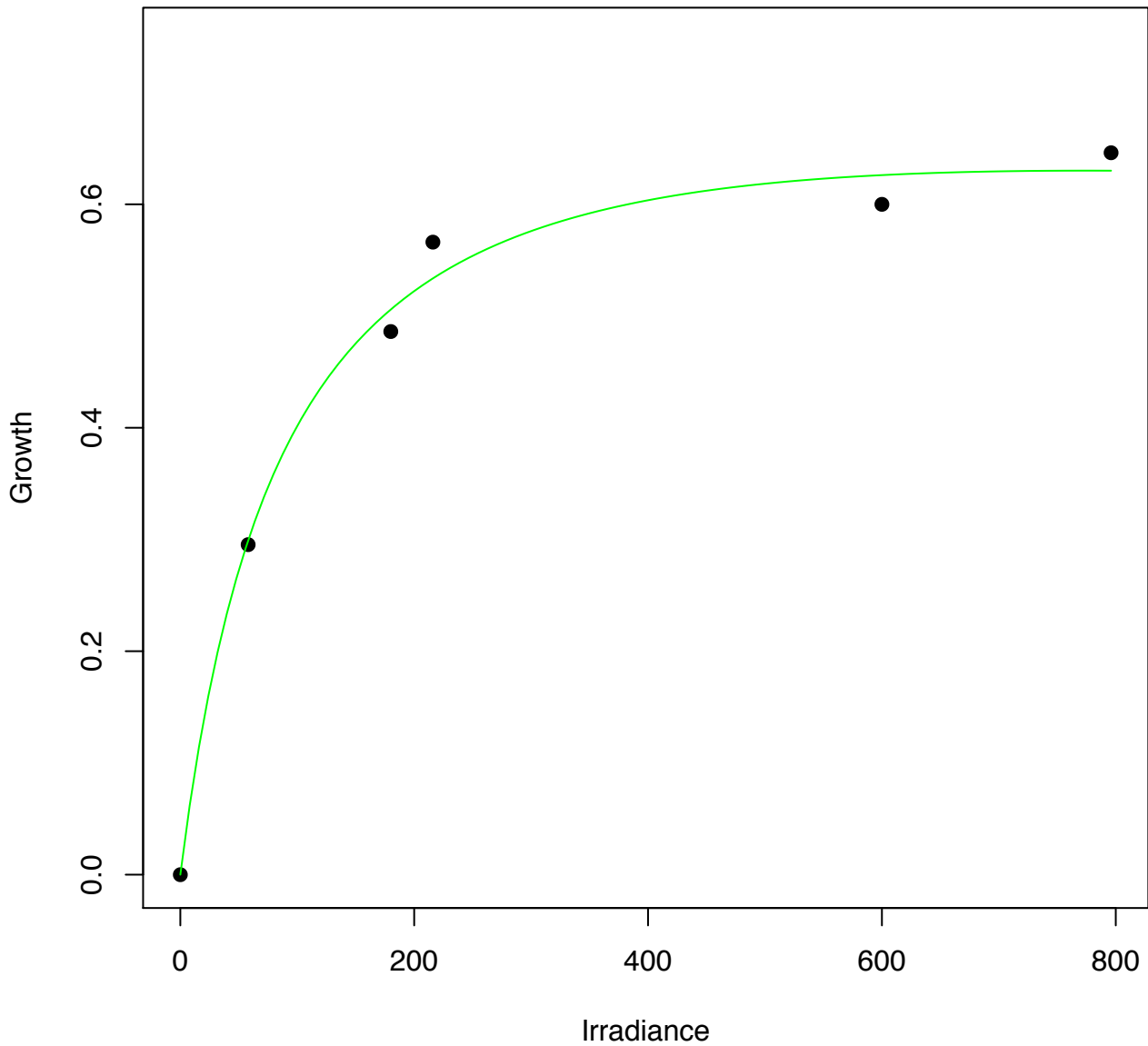
Ceratium furca 28°C



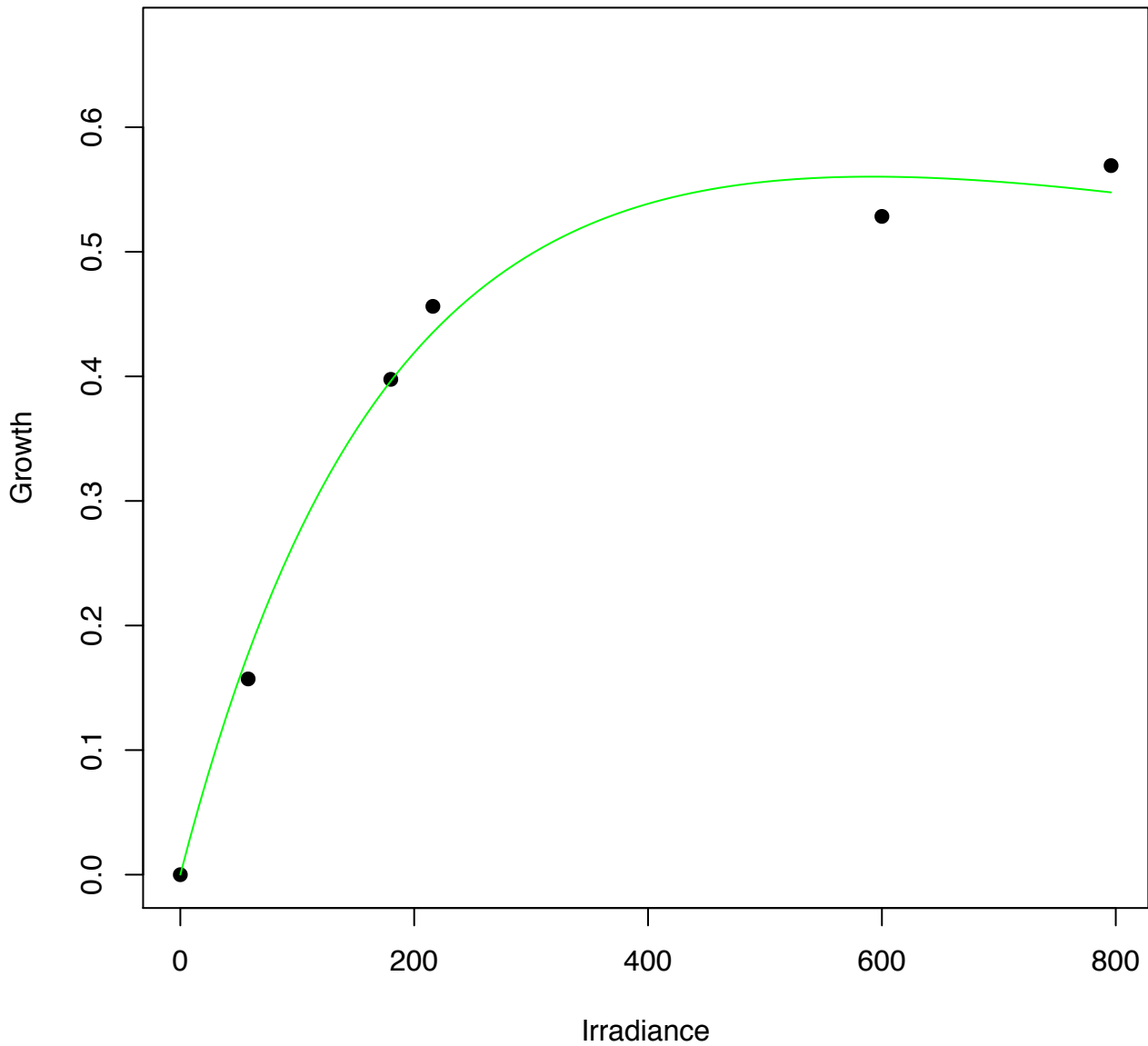
Ceratium furca 26°C



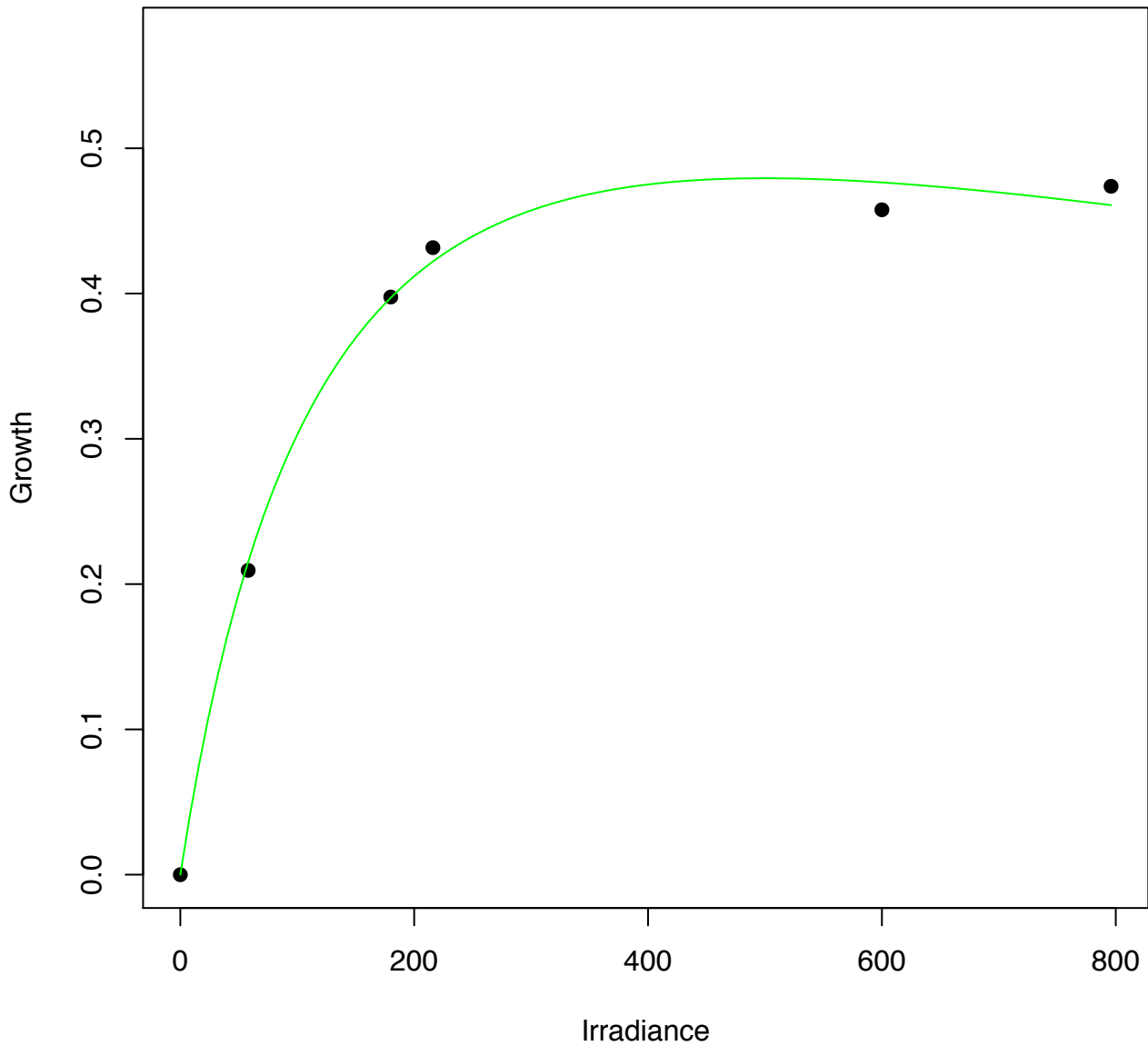
Ceratium furca 24°C



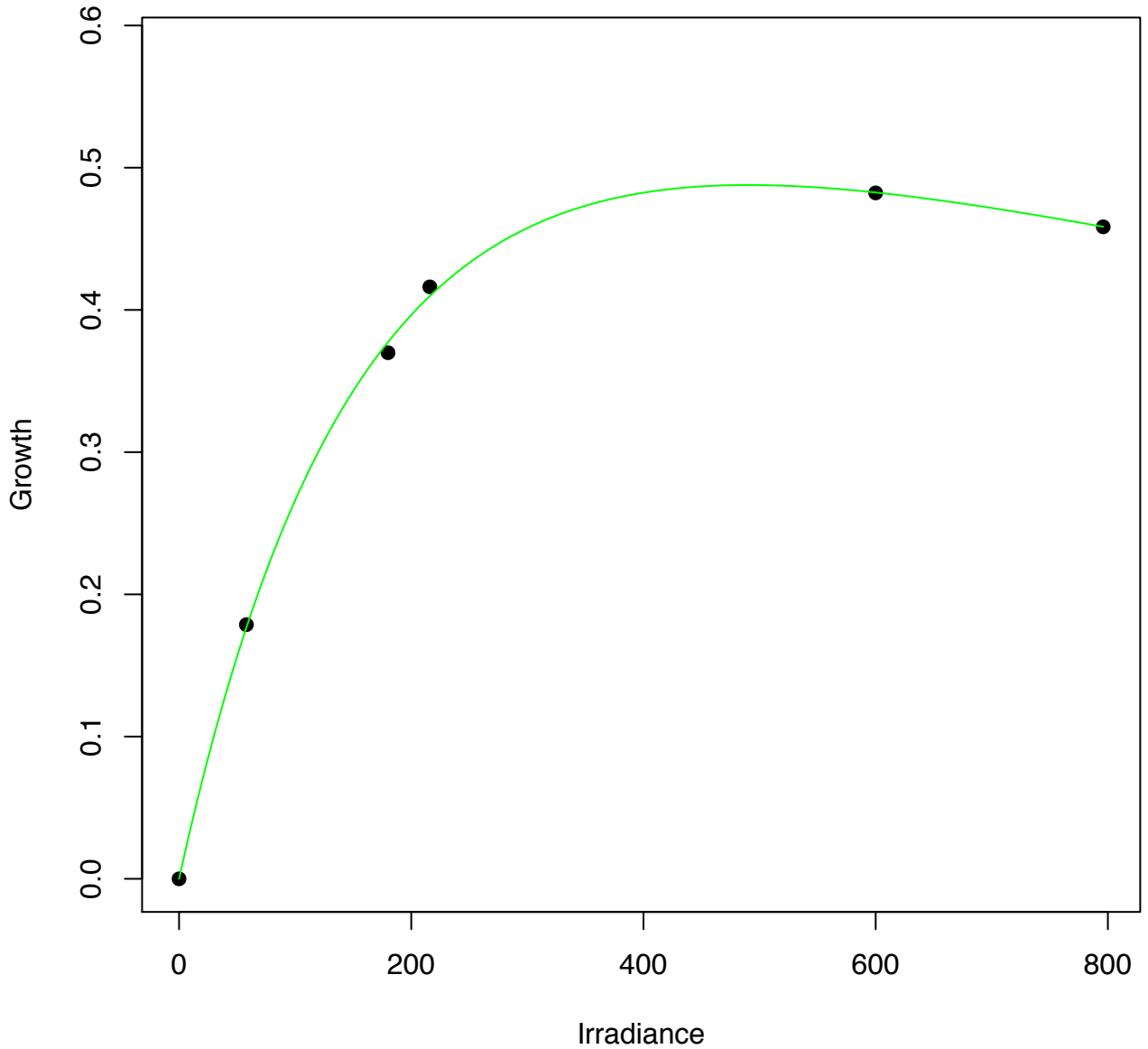
Ceratium furca 22°C



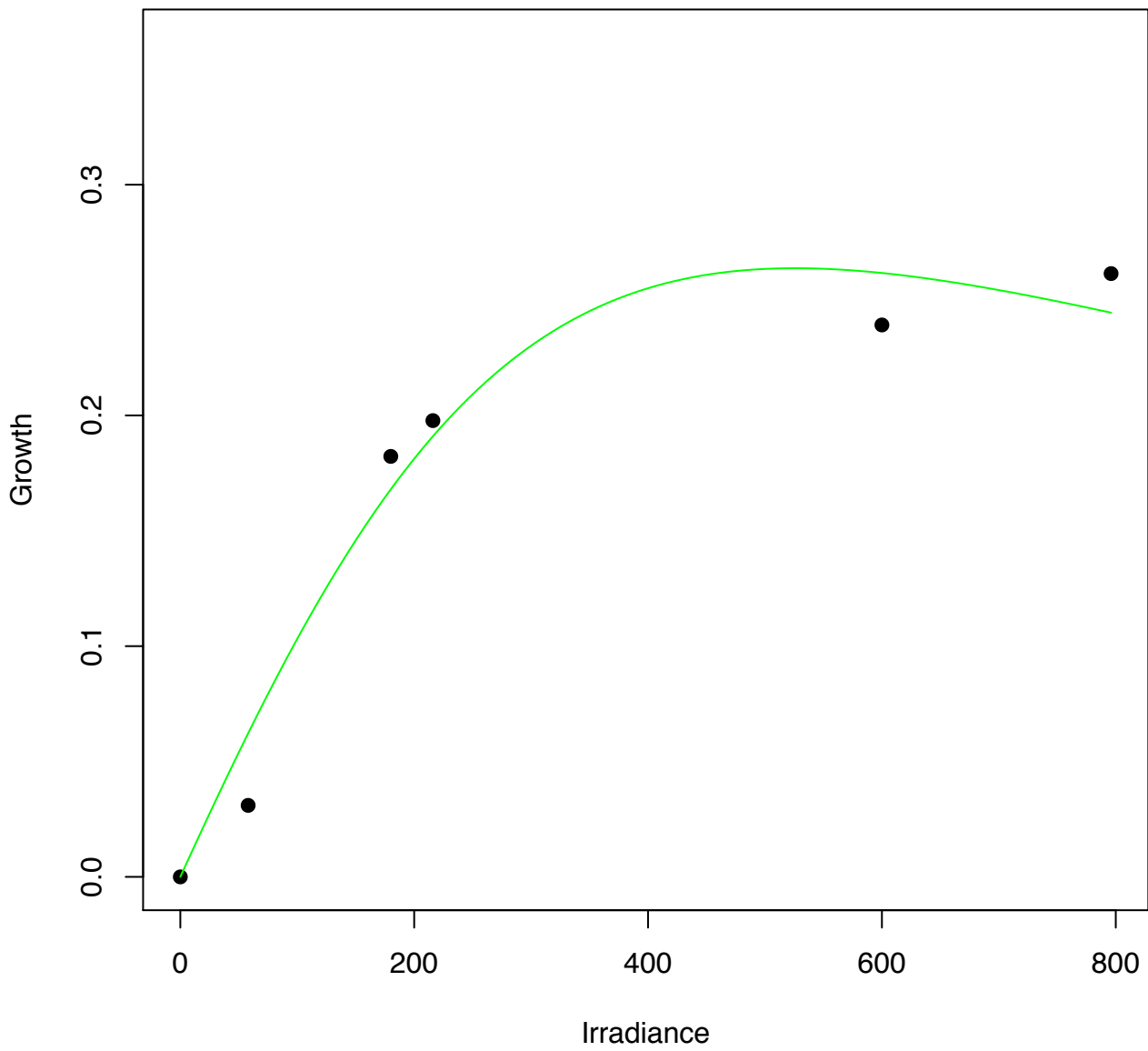
Ceratium furca 20°C



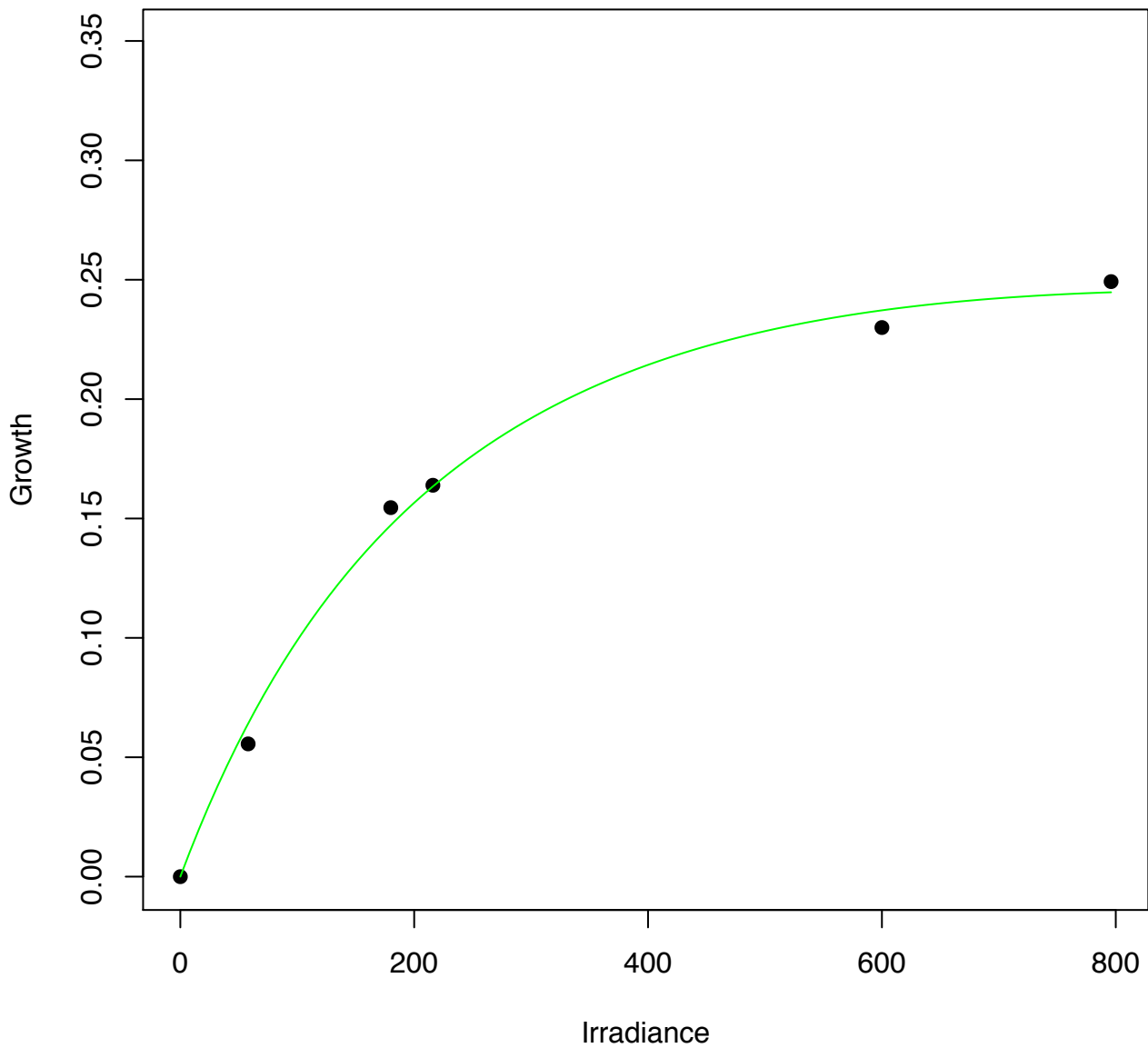
Ceratium furca 18°C



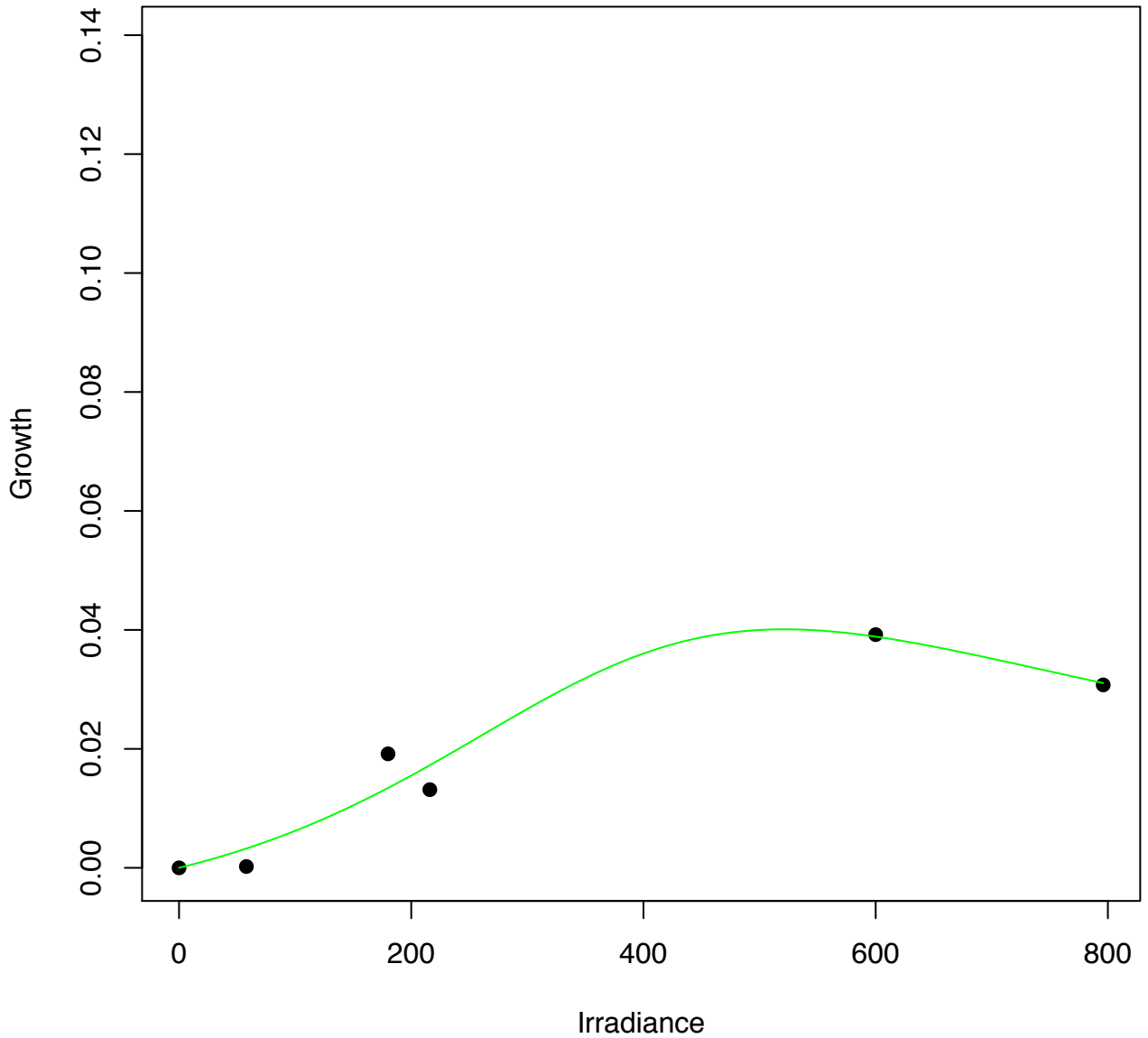
Ceratium furca 16°C



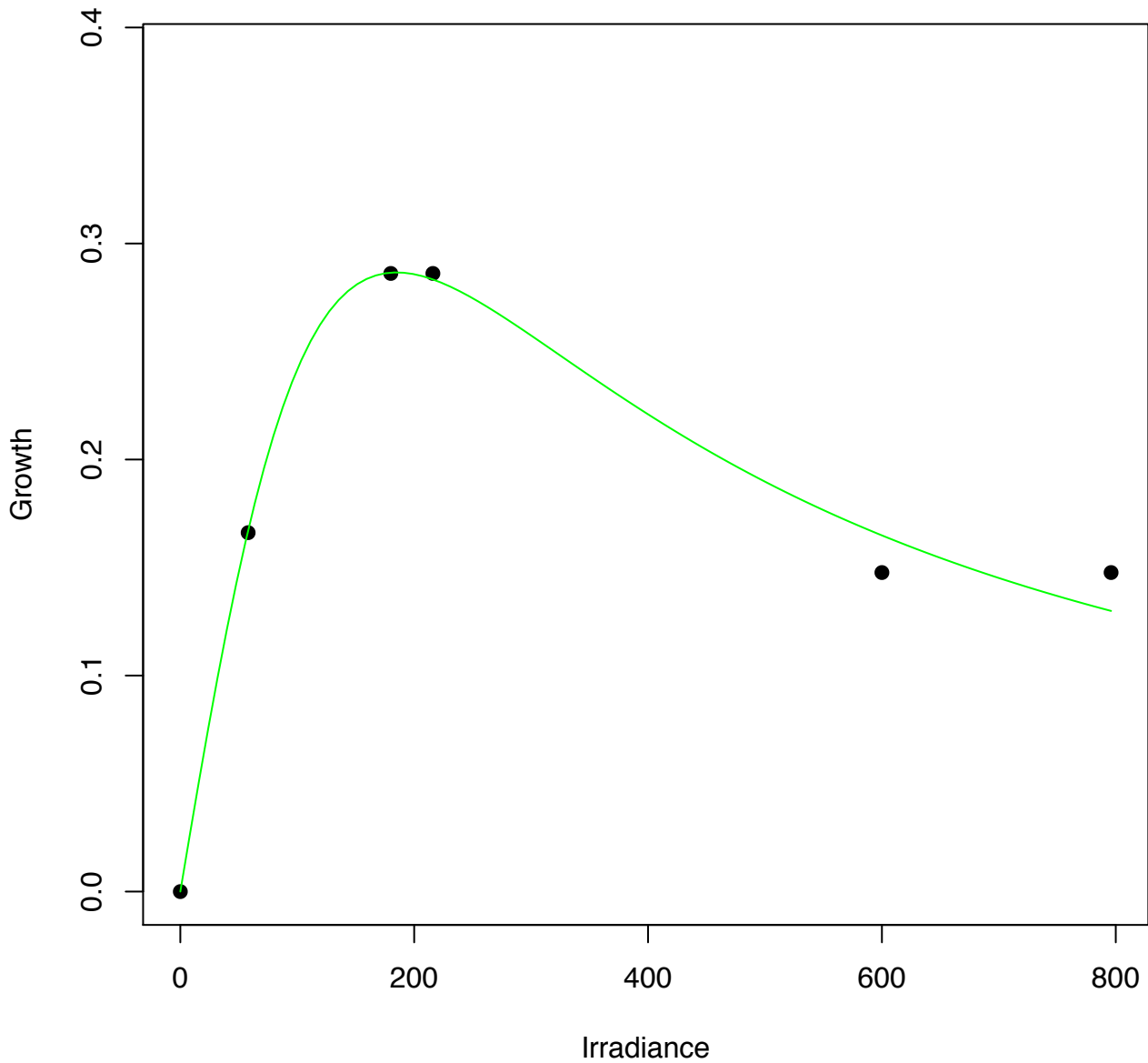
Ceratium furca 14°C



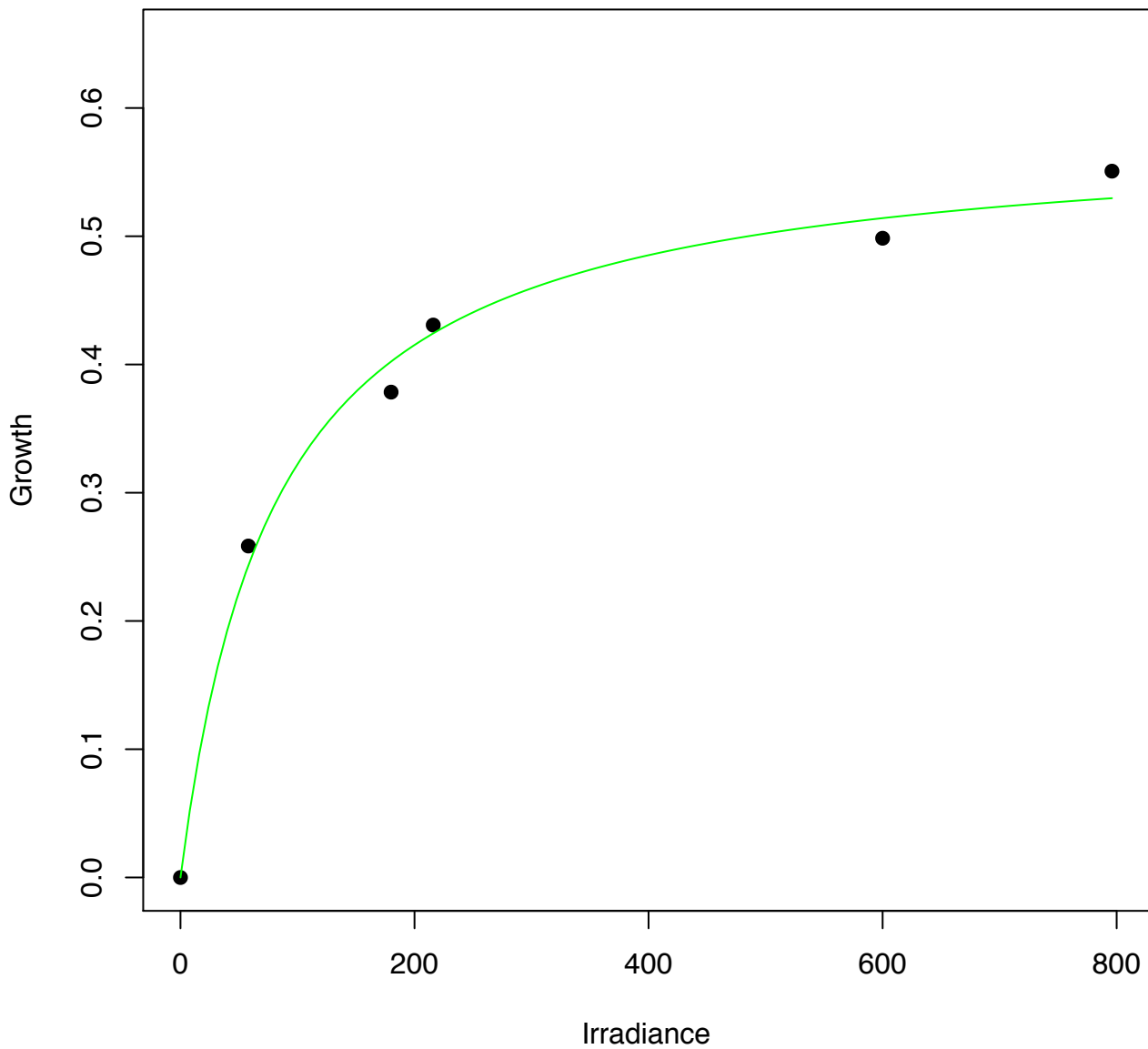
Ceratium furca 12°C



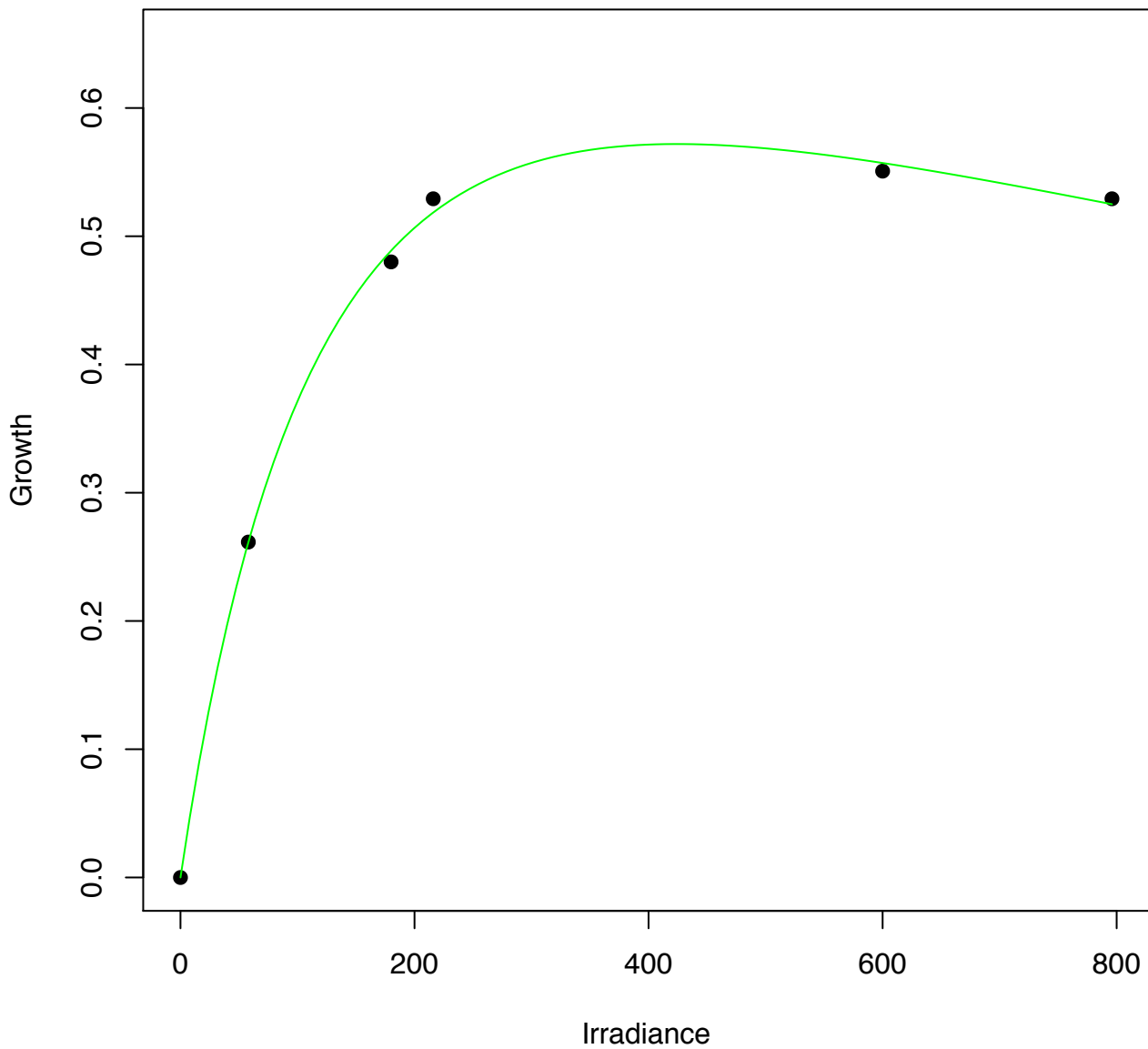
Ceratium fusus 30°C



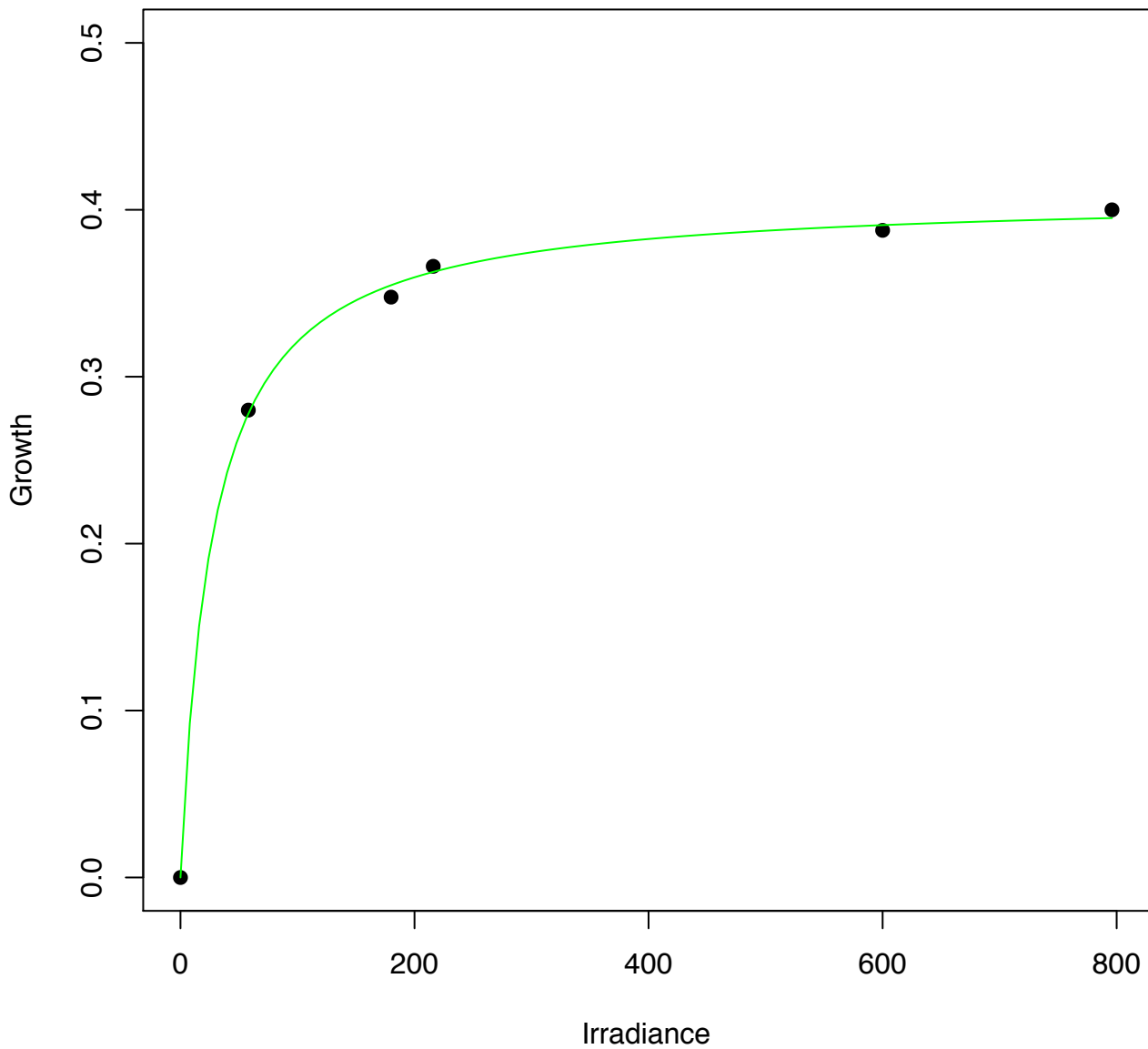
Ceratium fusus 28°C



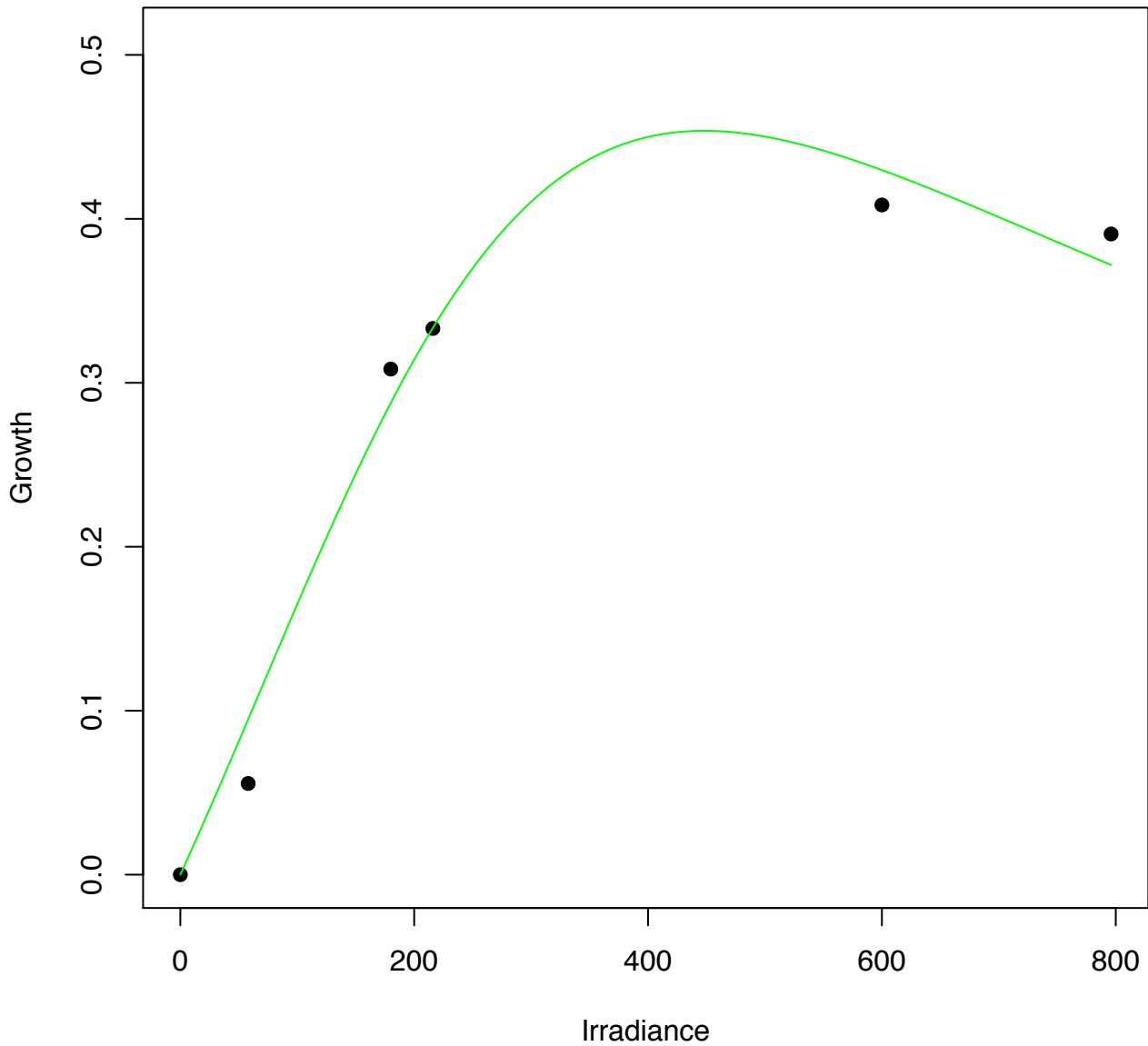
Ceratium fusus 26°C



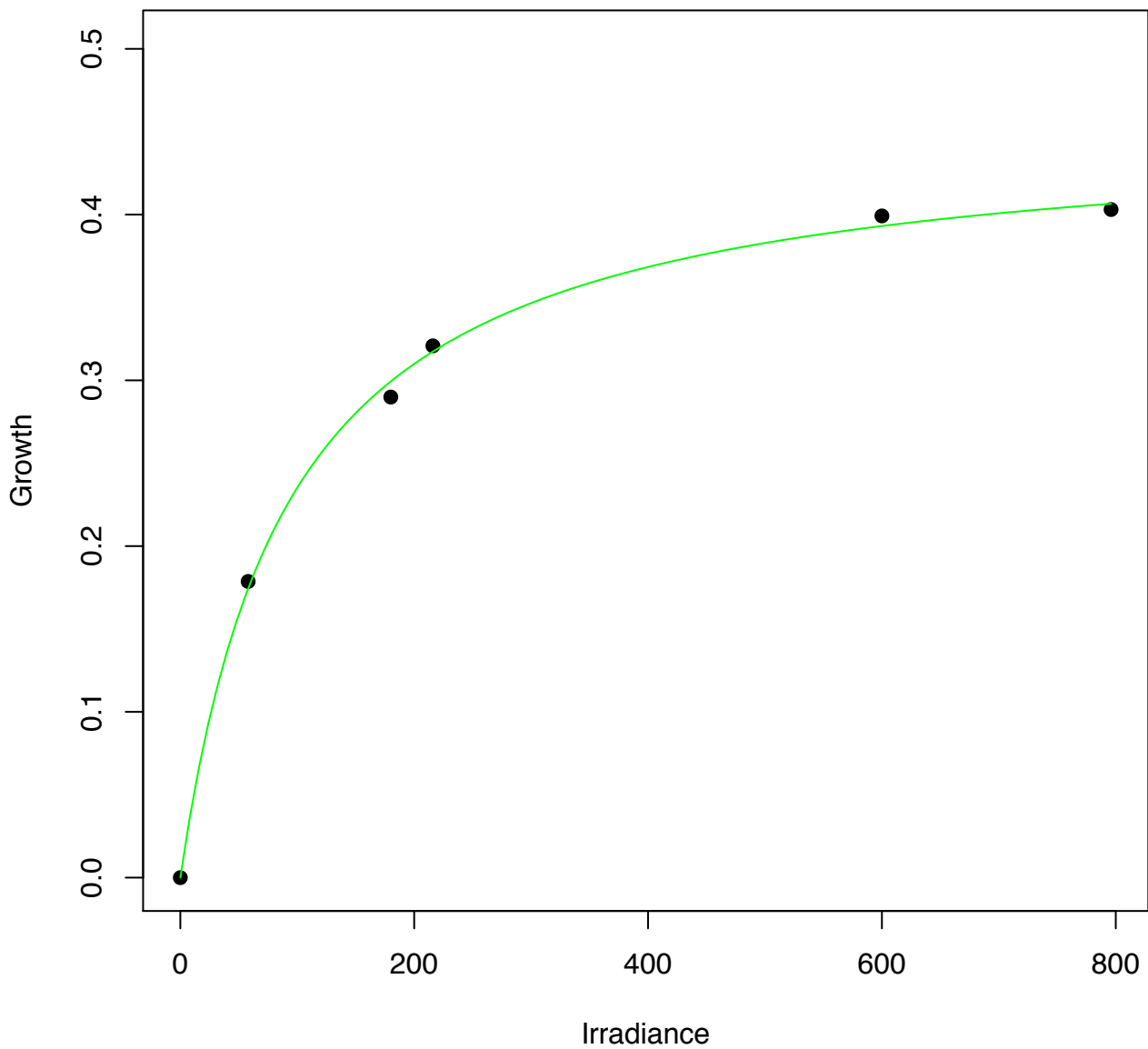
Ceratium fusus 24°C



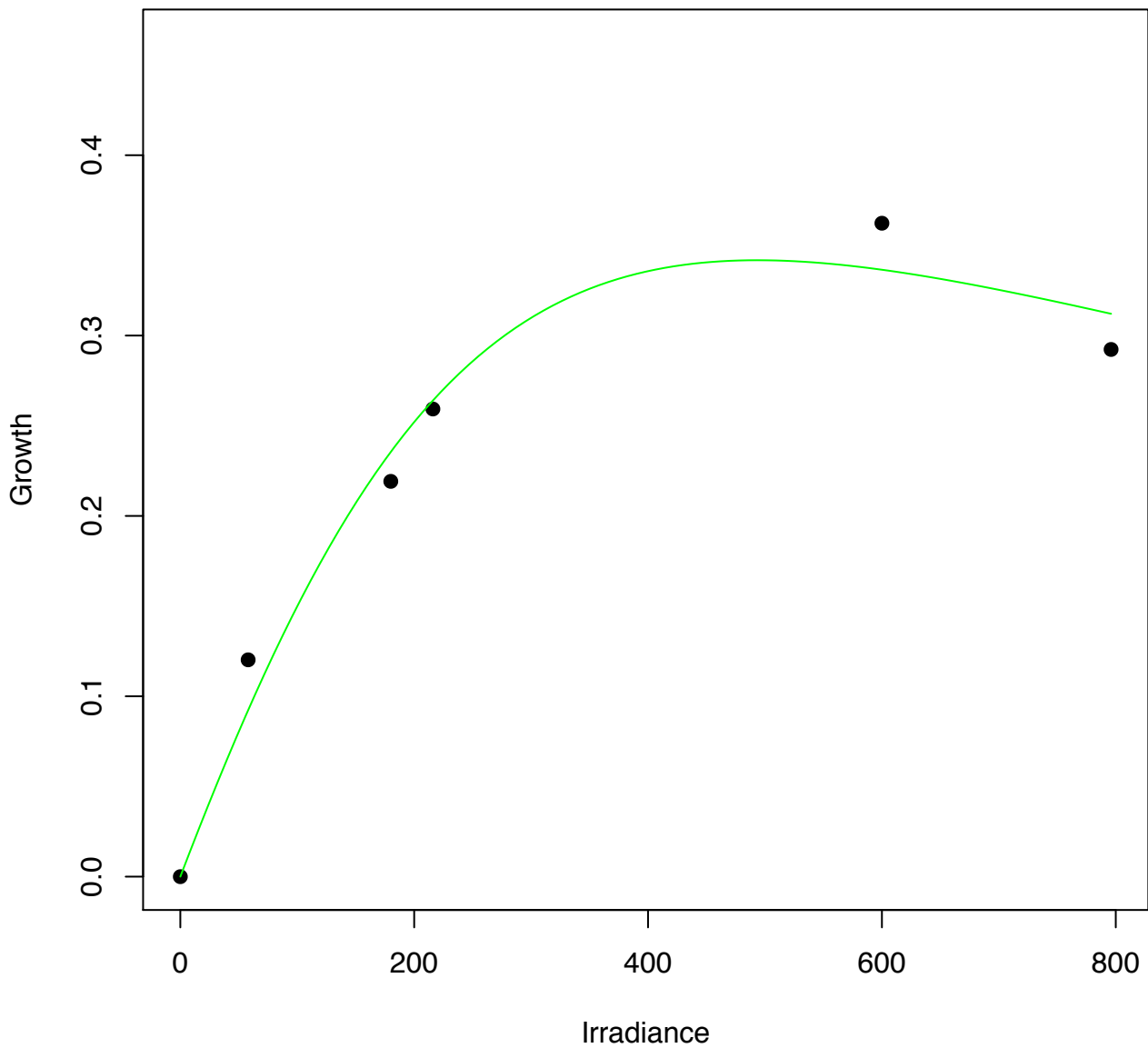
Ceratium fusus 22°C



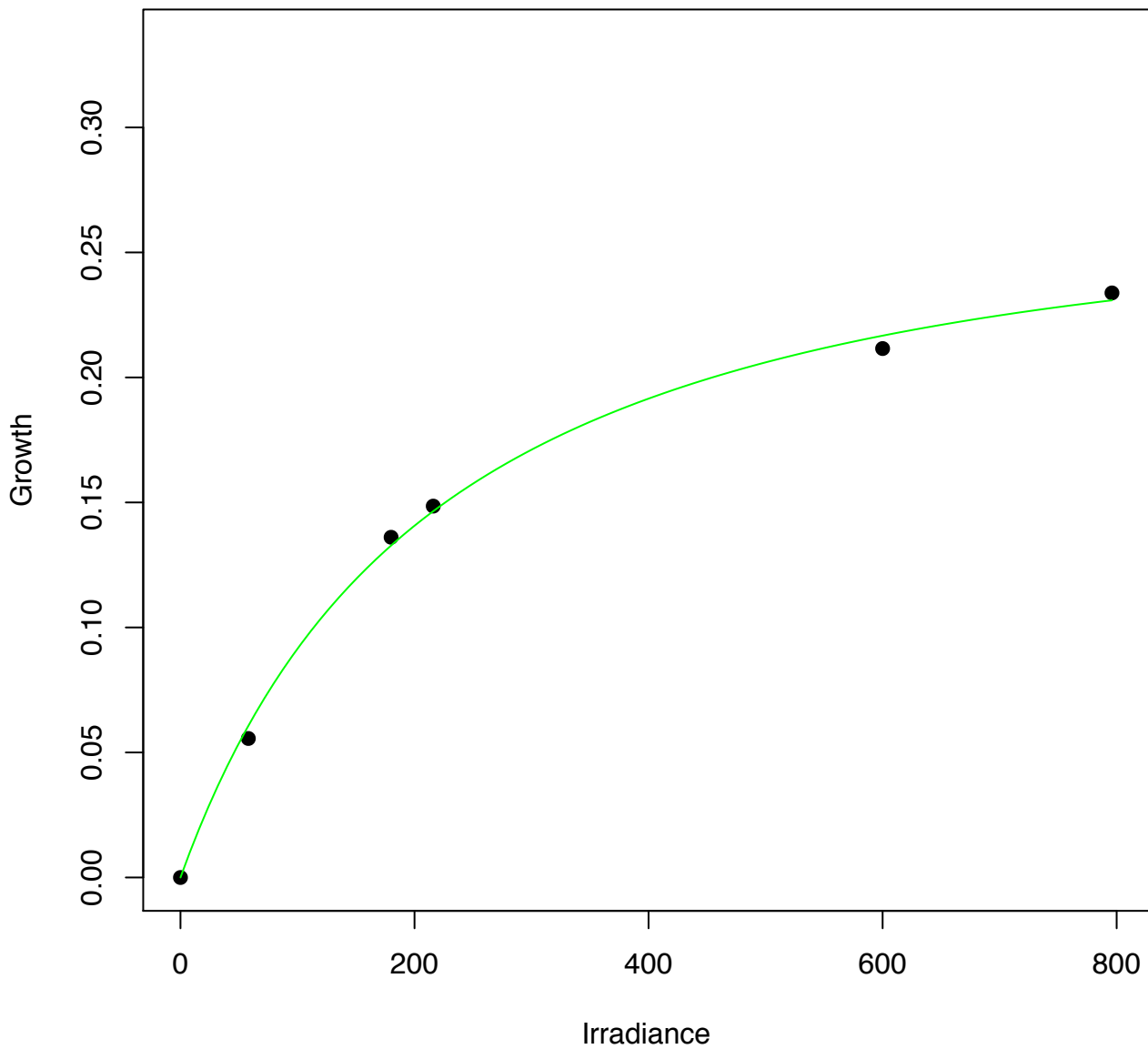
Ceratium fusus 20°C



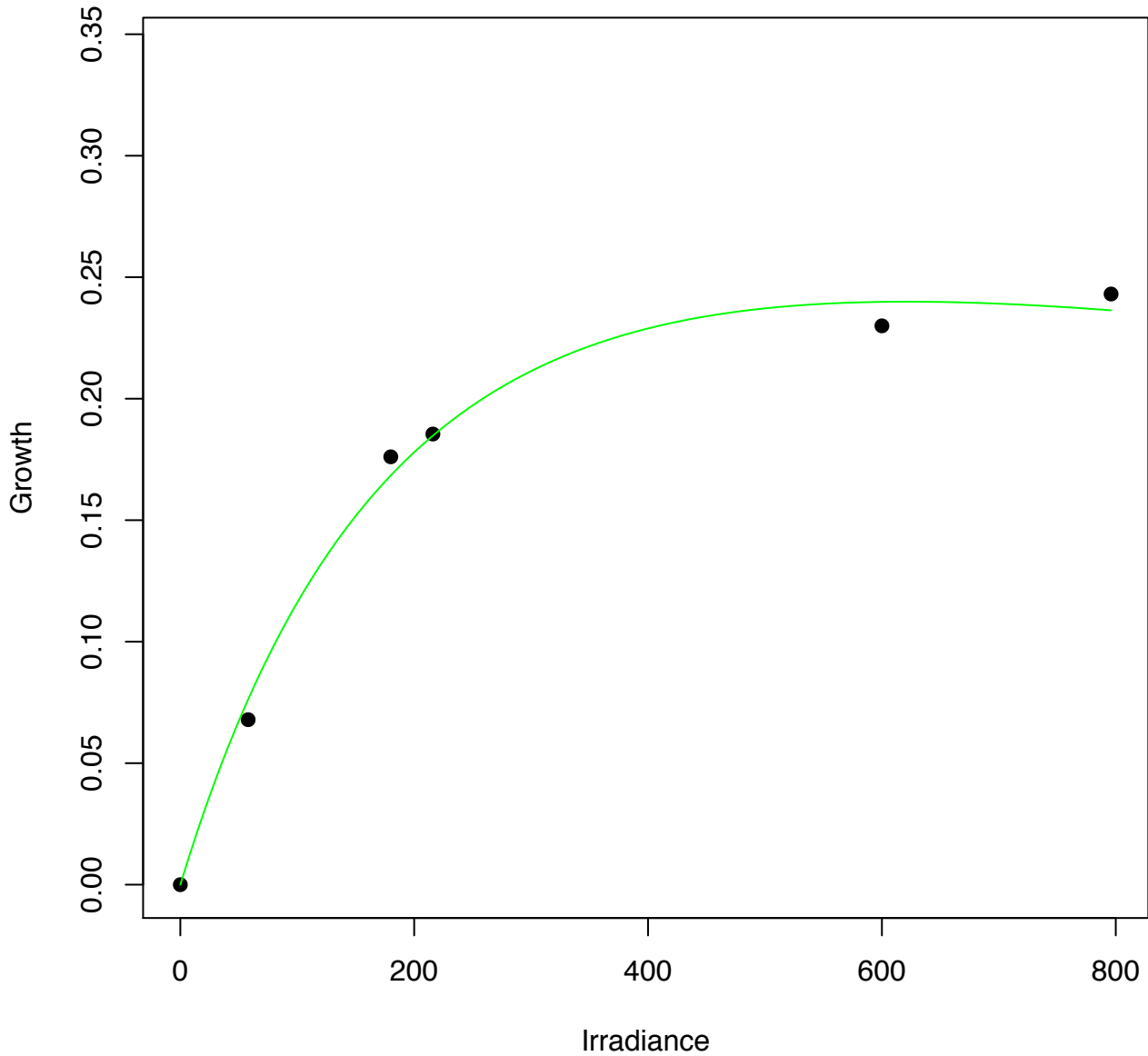
Ceratium fusus 18°C



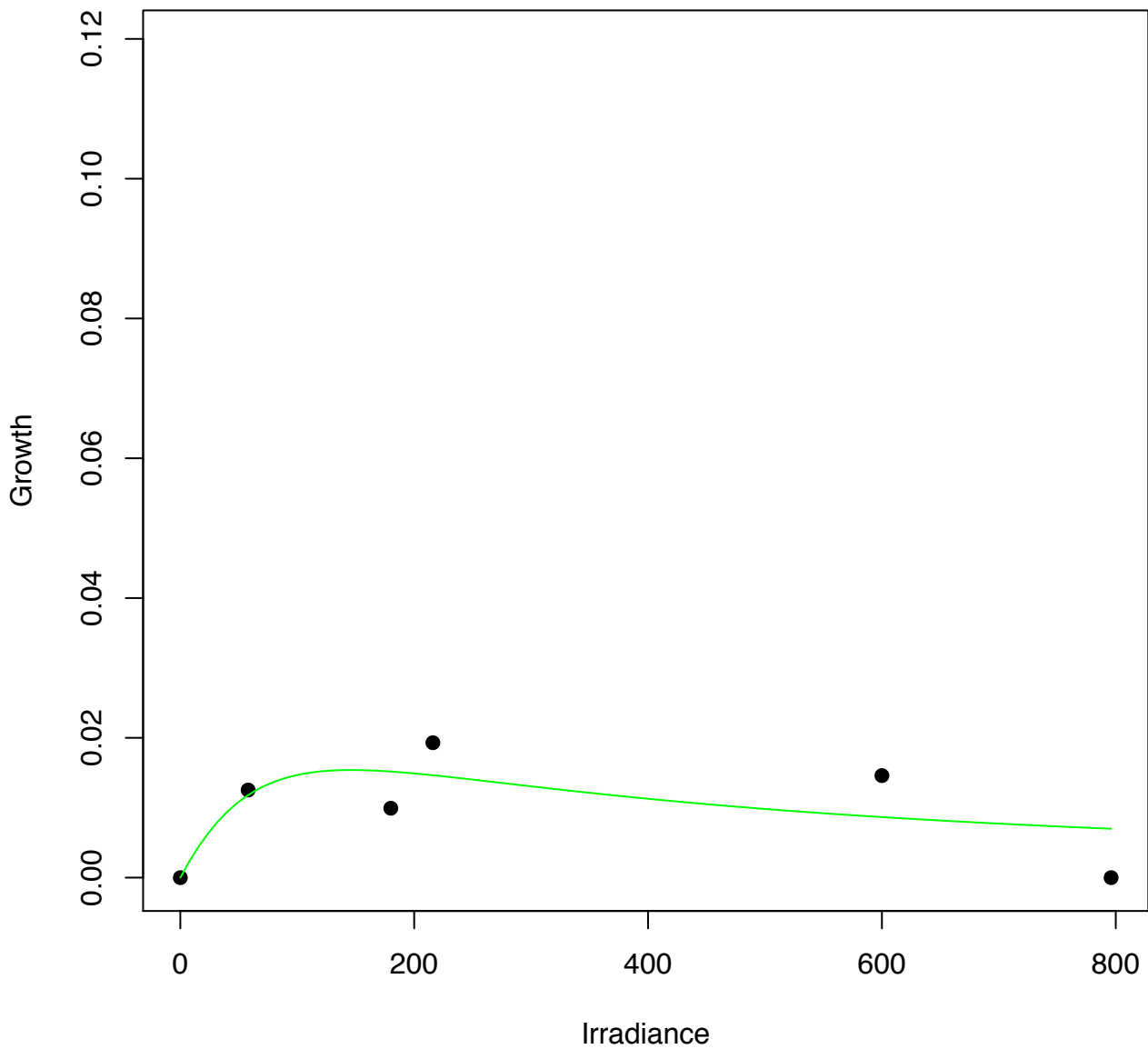
Ceratium fusus 16°C



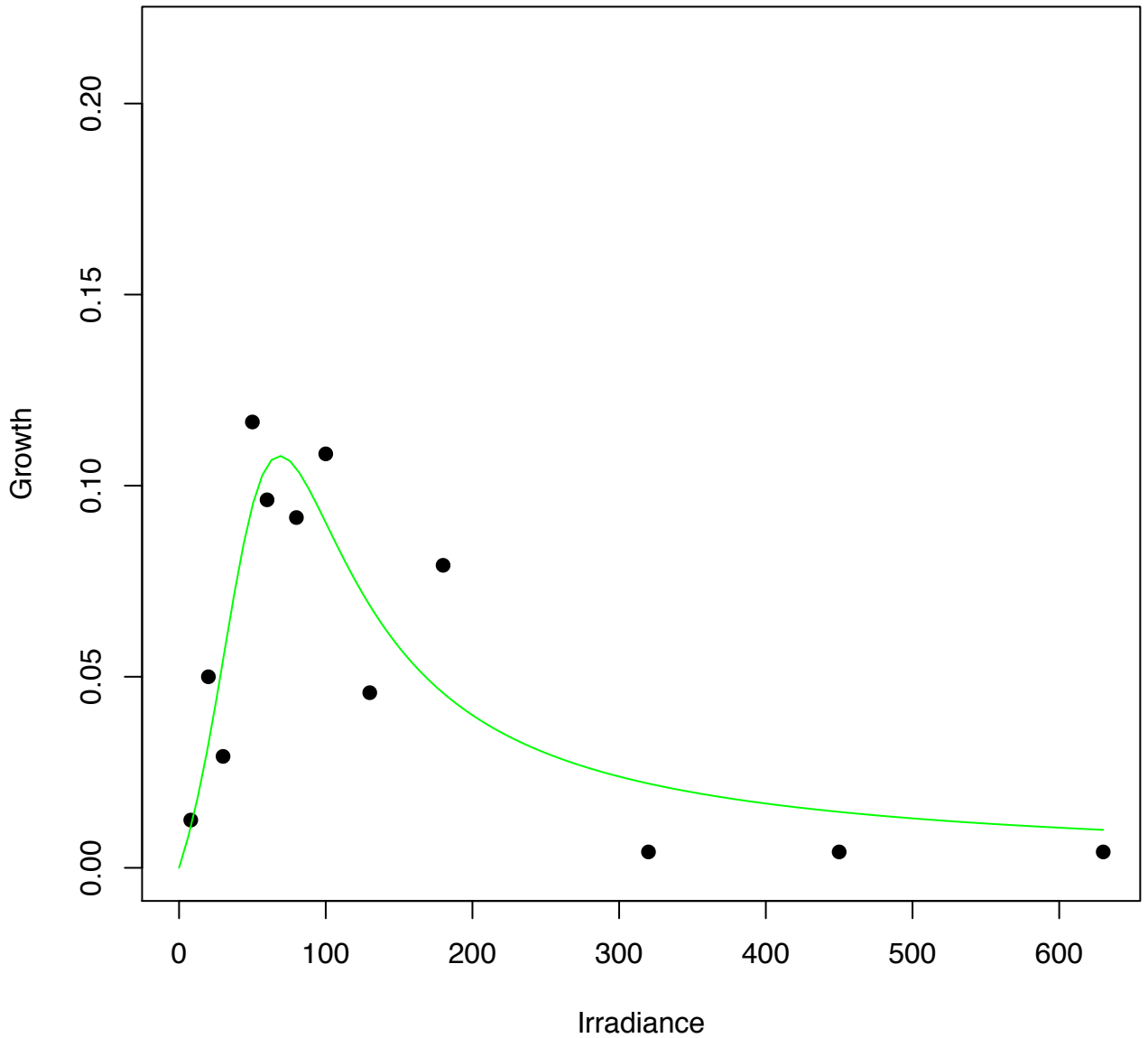
Ceratium fusus 14°C



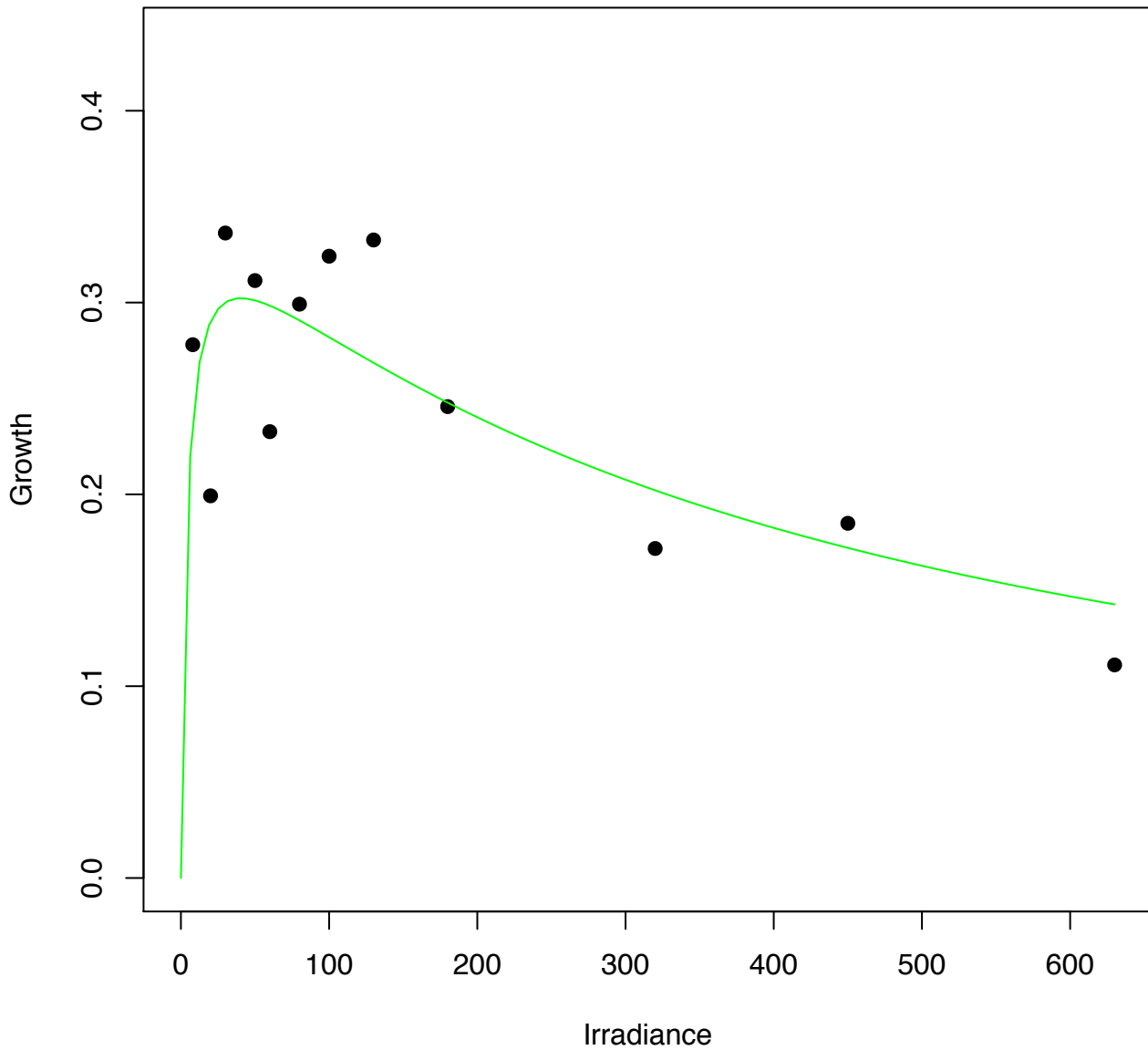
Ceratium fusus 12°C



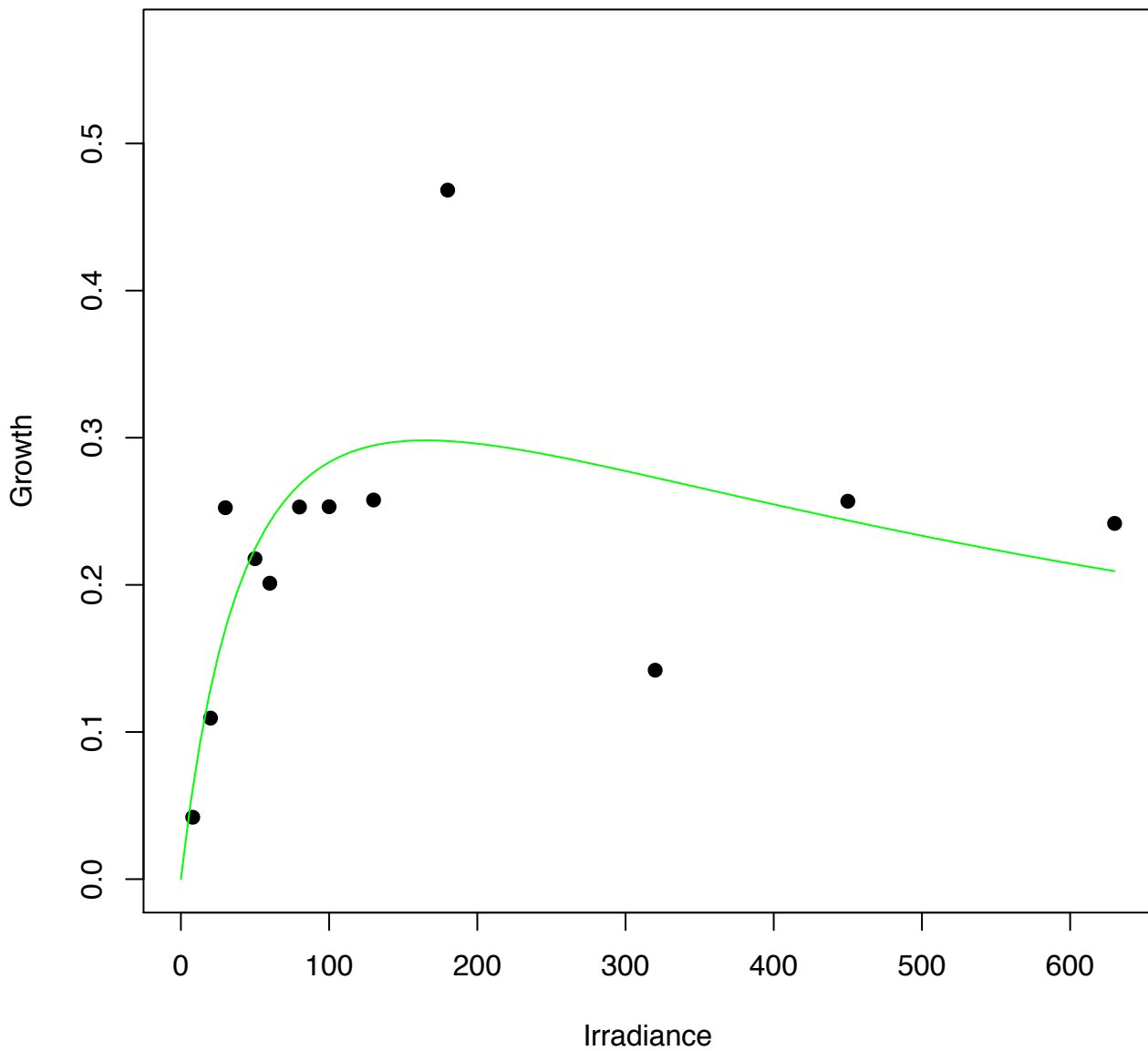
Micractinium pusillum 15°C



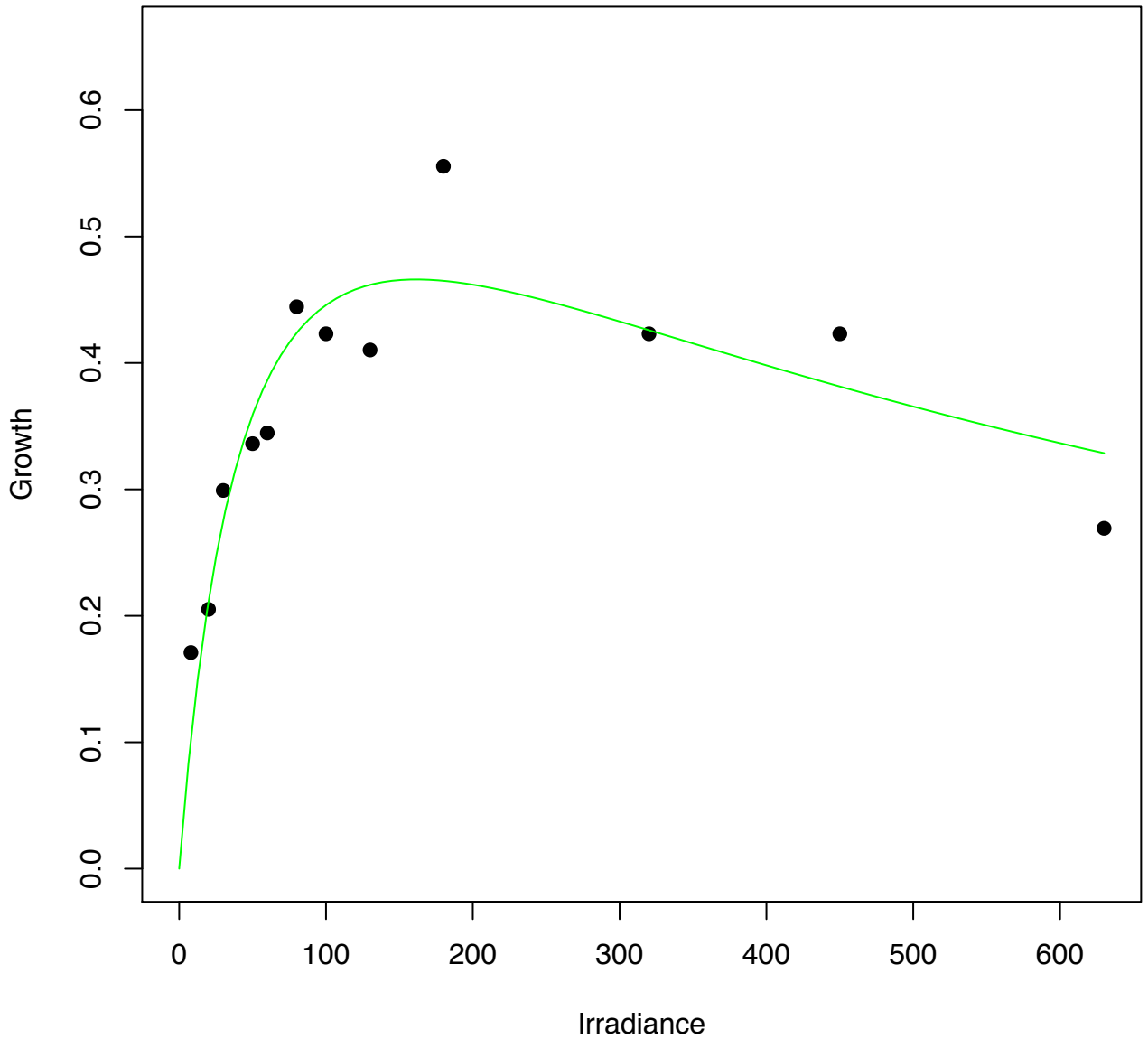
Micractinium pusillum 20°C



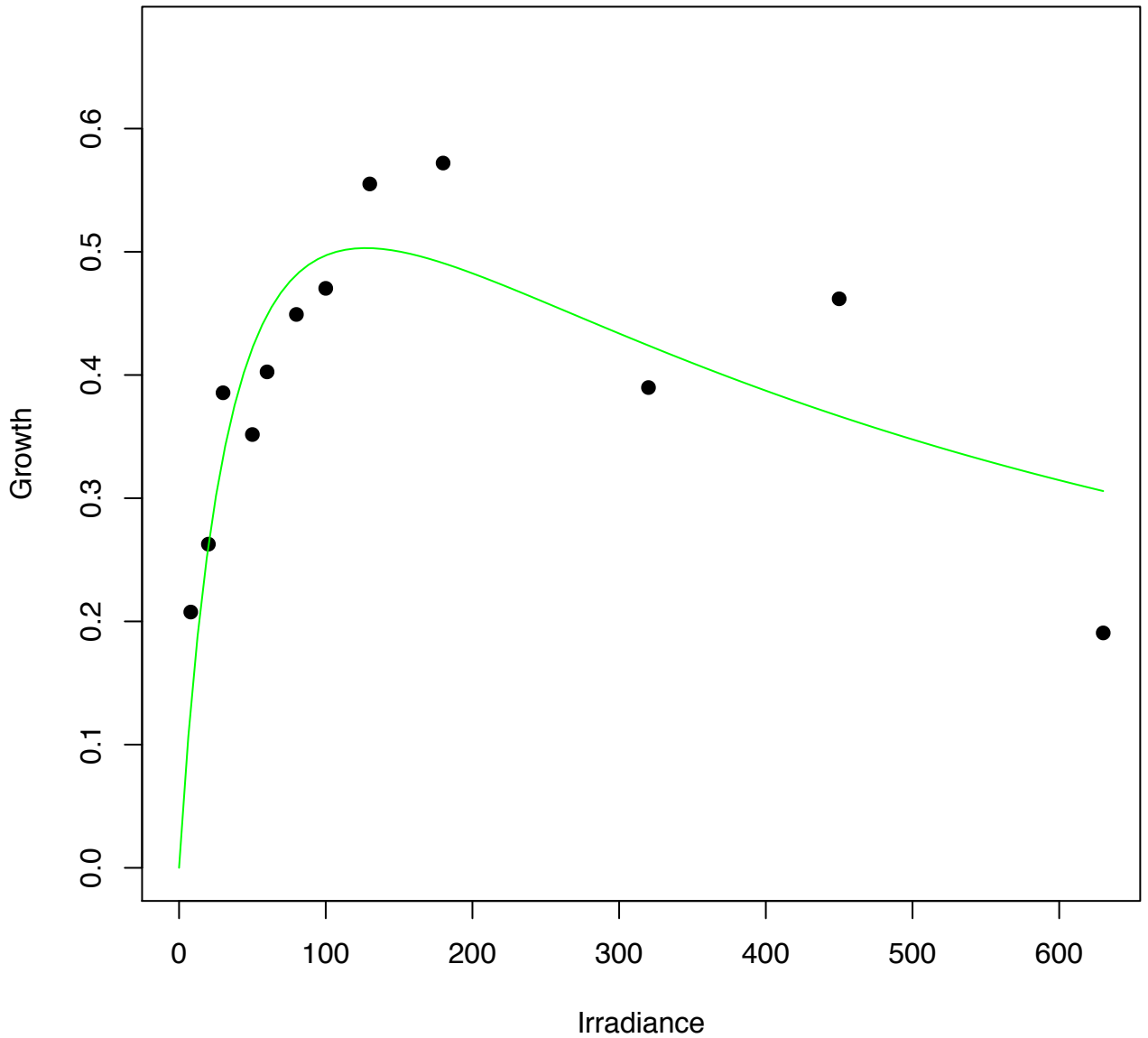
Micractinium pusillum 25°C



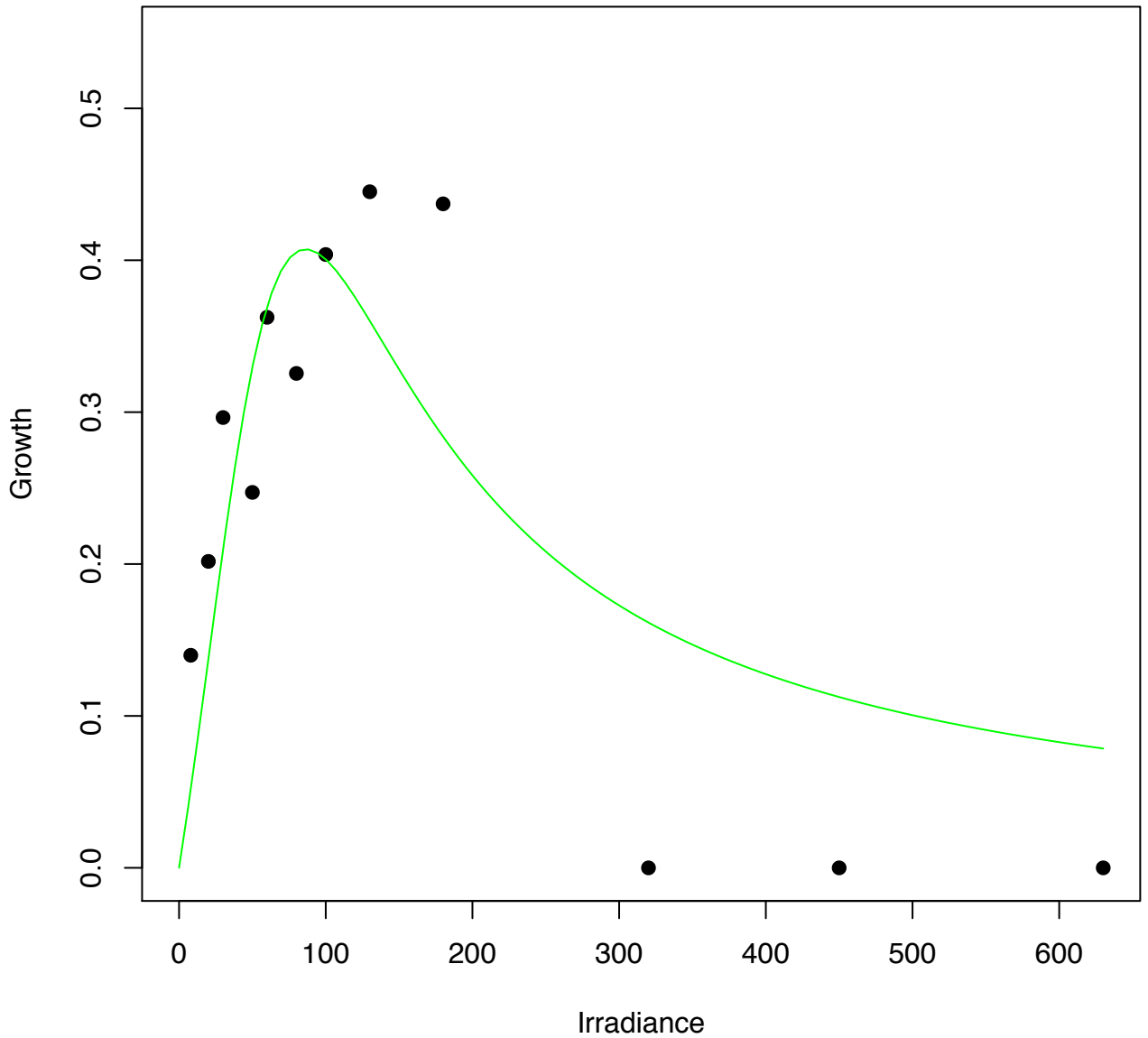
Micractinium pusillum 30°C



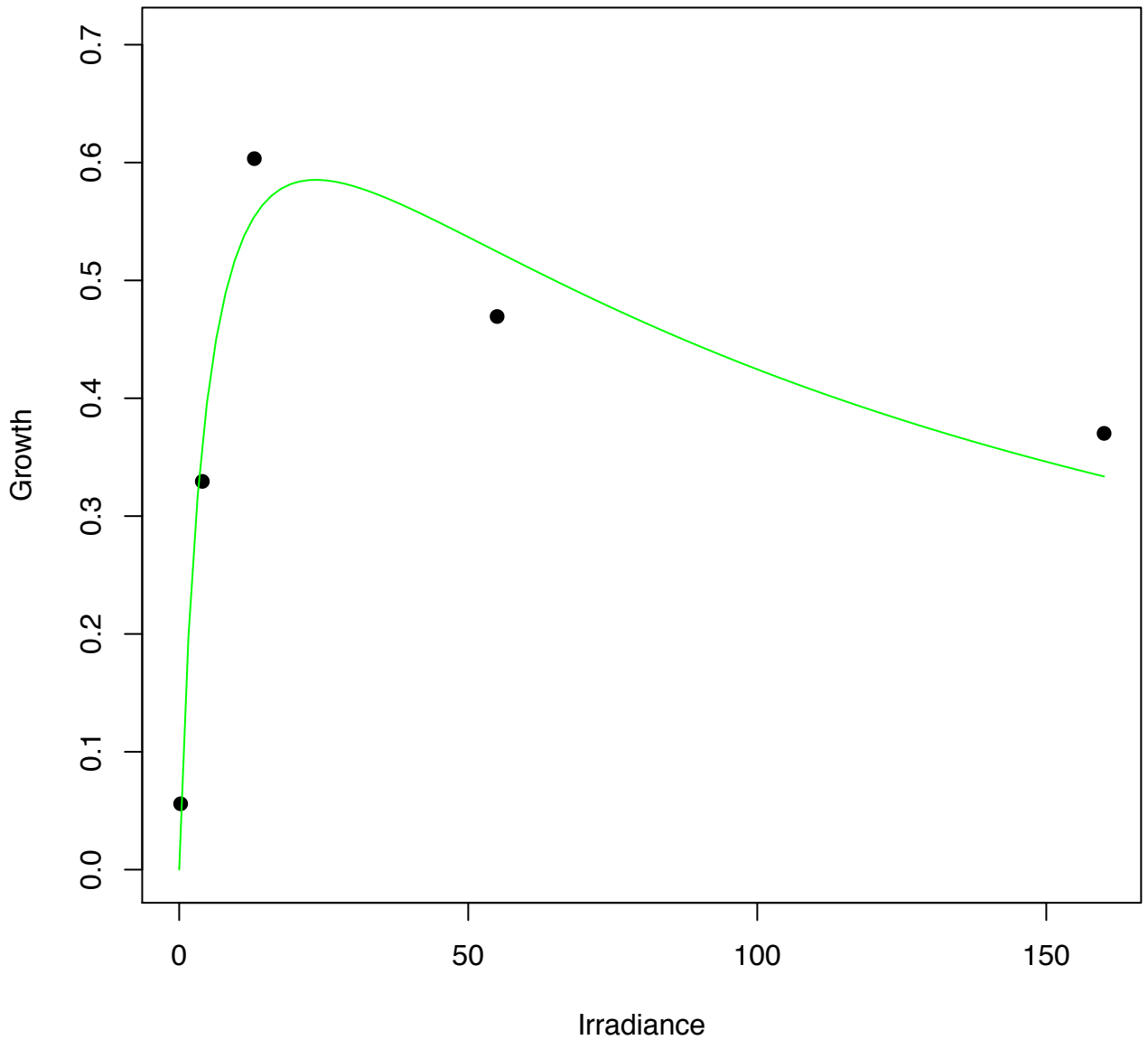
Micractinium pusillum 35°C



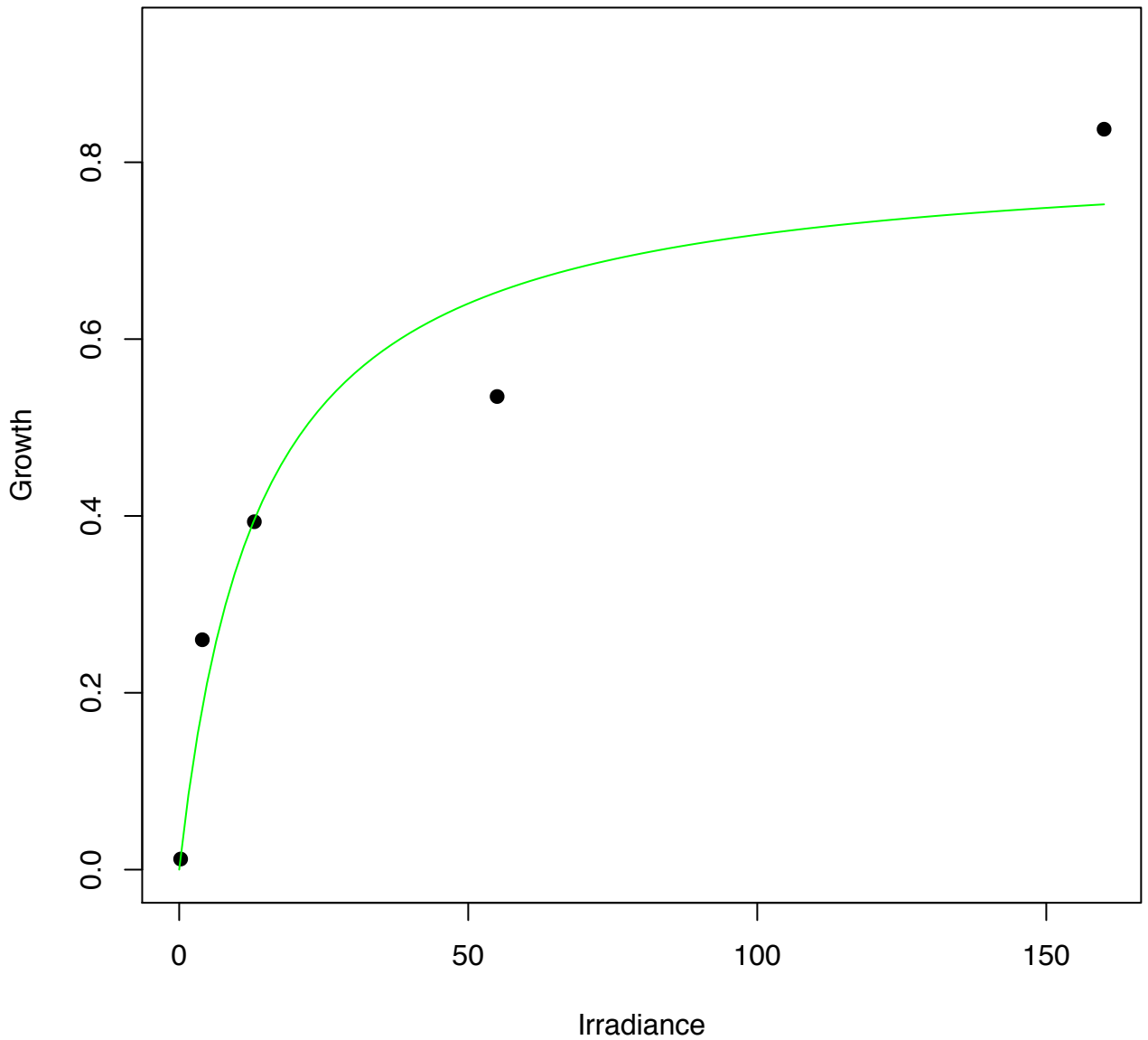
Micractinium pusillum 40°C



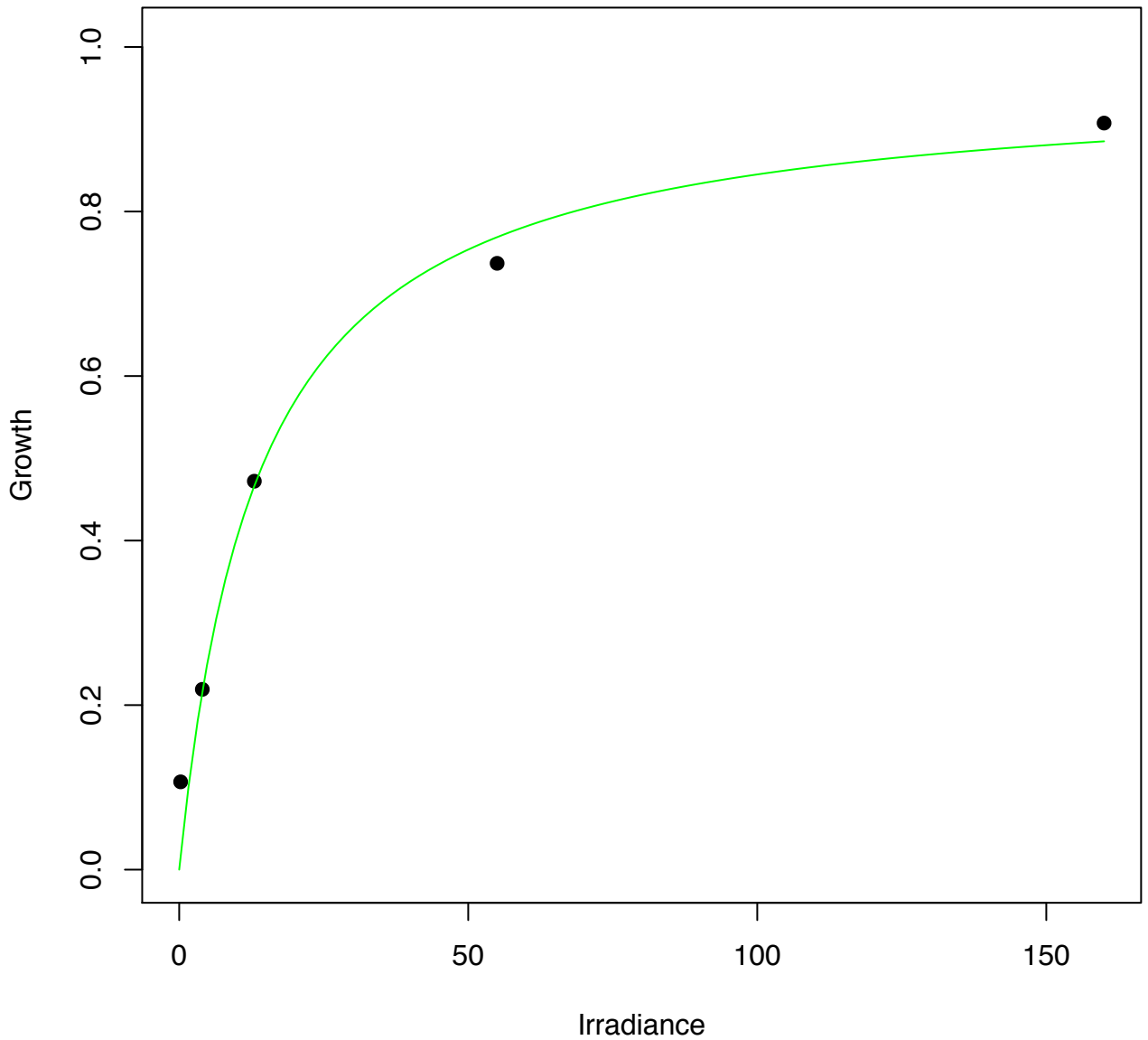
Microcystis flos-aquae 15°C



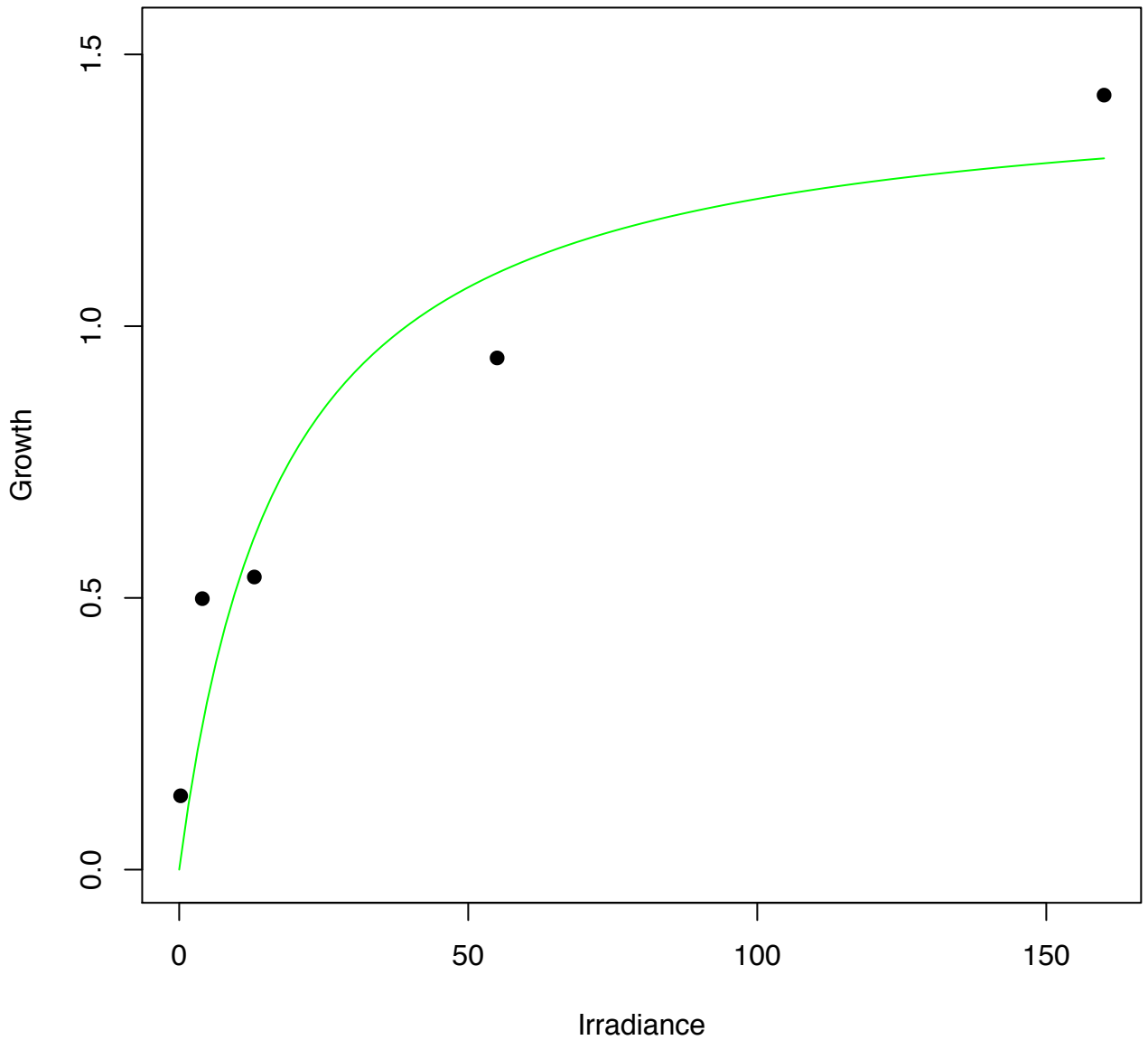
Microcystis flos-aquae 20°C



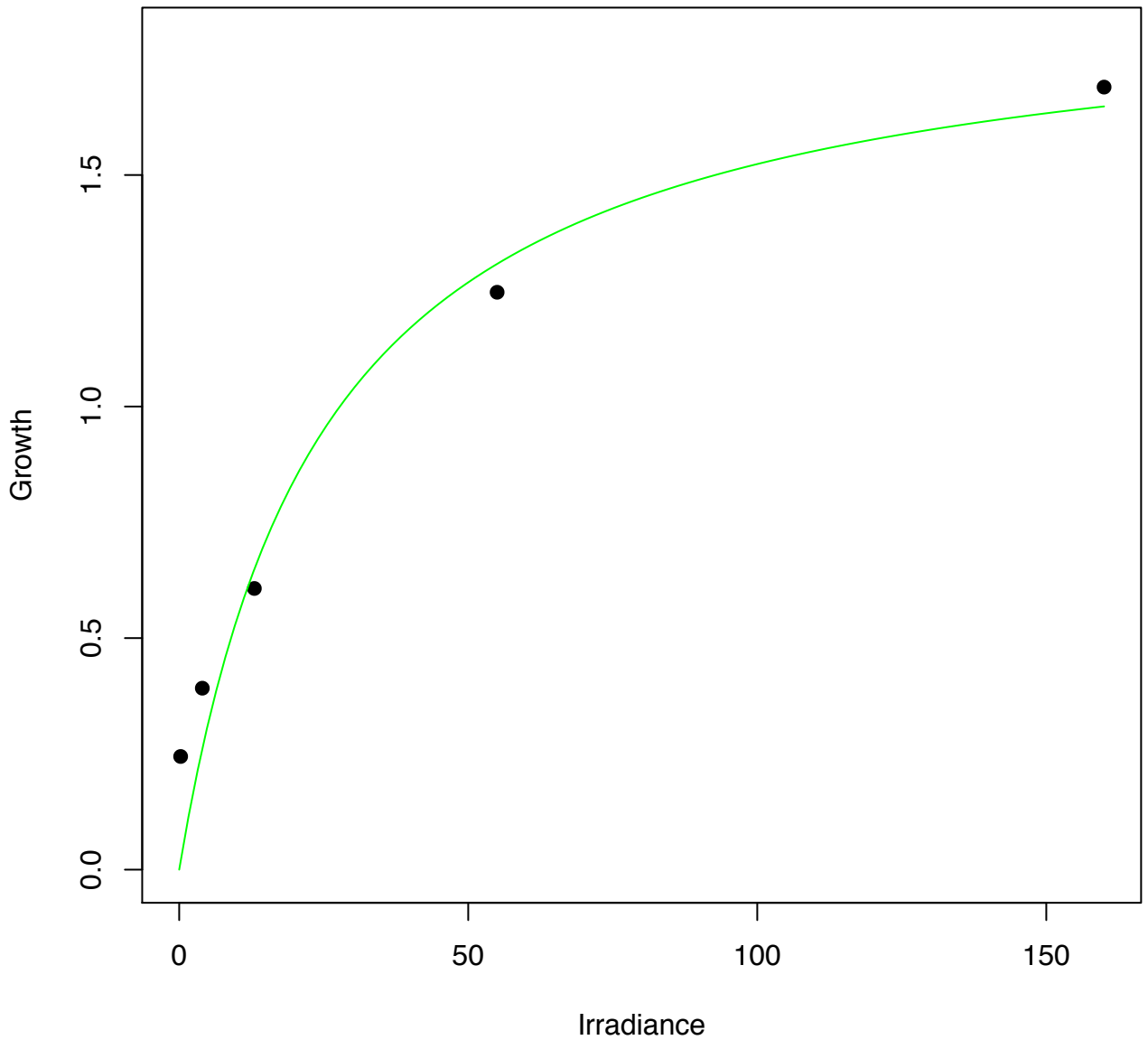
Microcystis flos-aquae 25°C



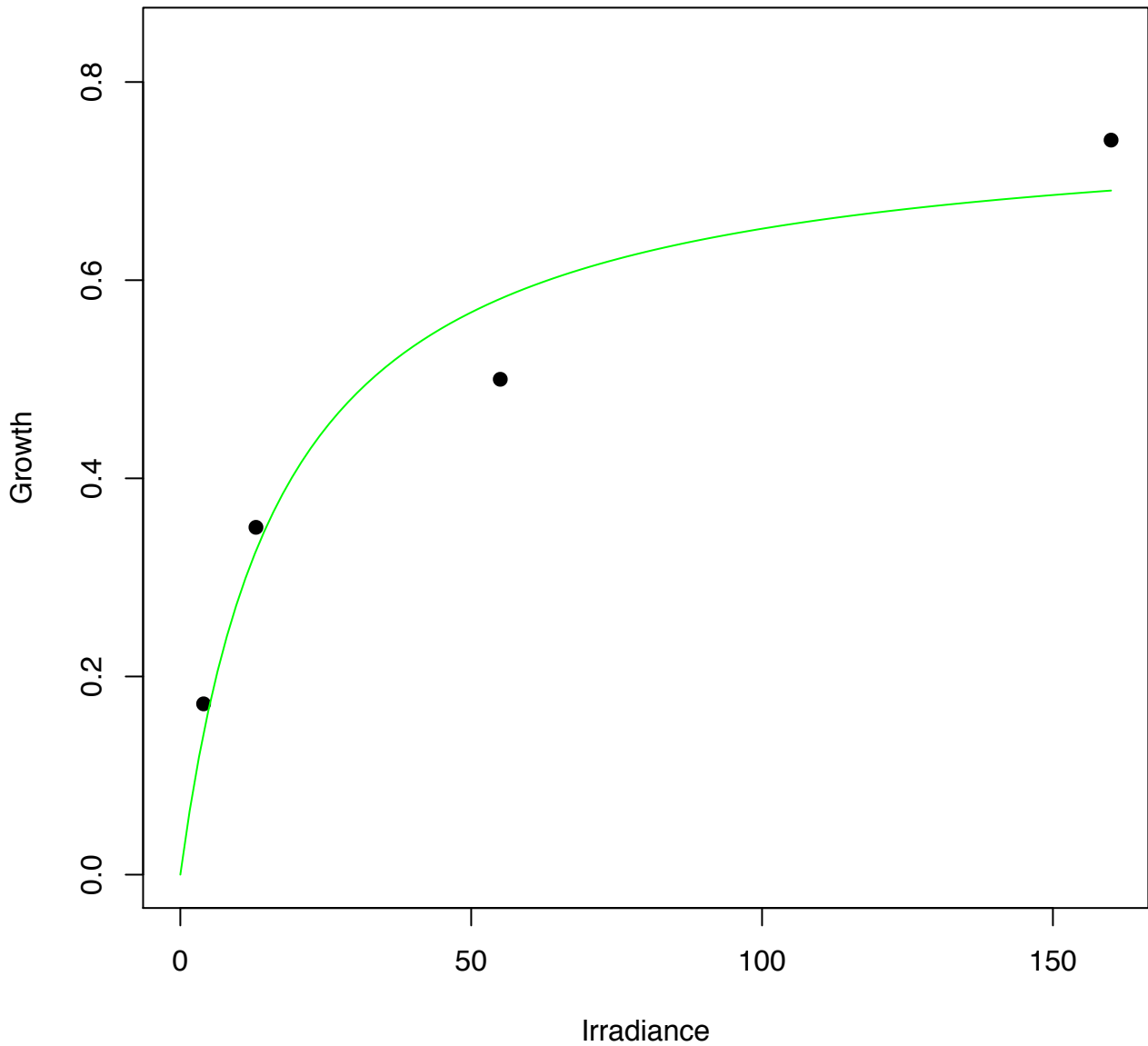
Microcystis flos-aquae 30°C



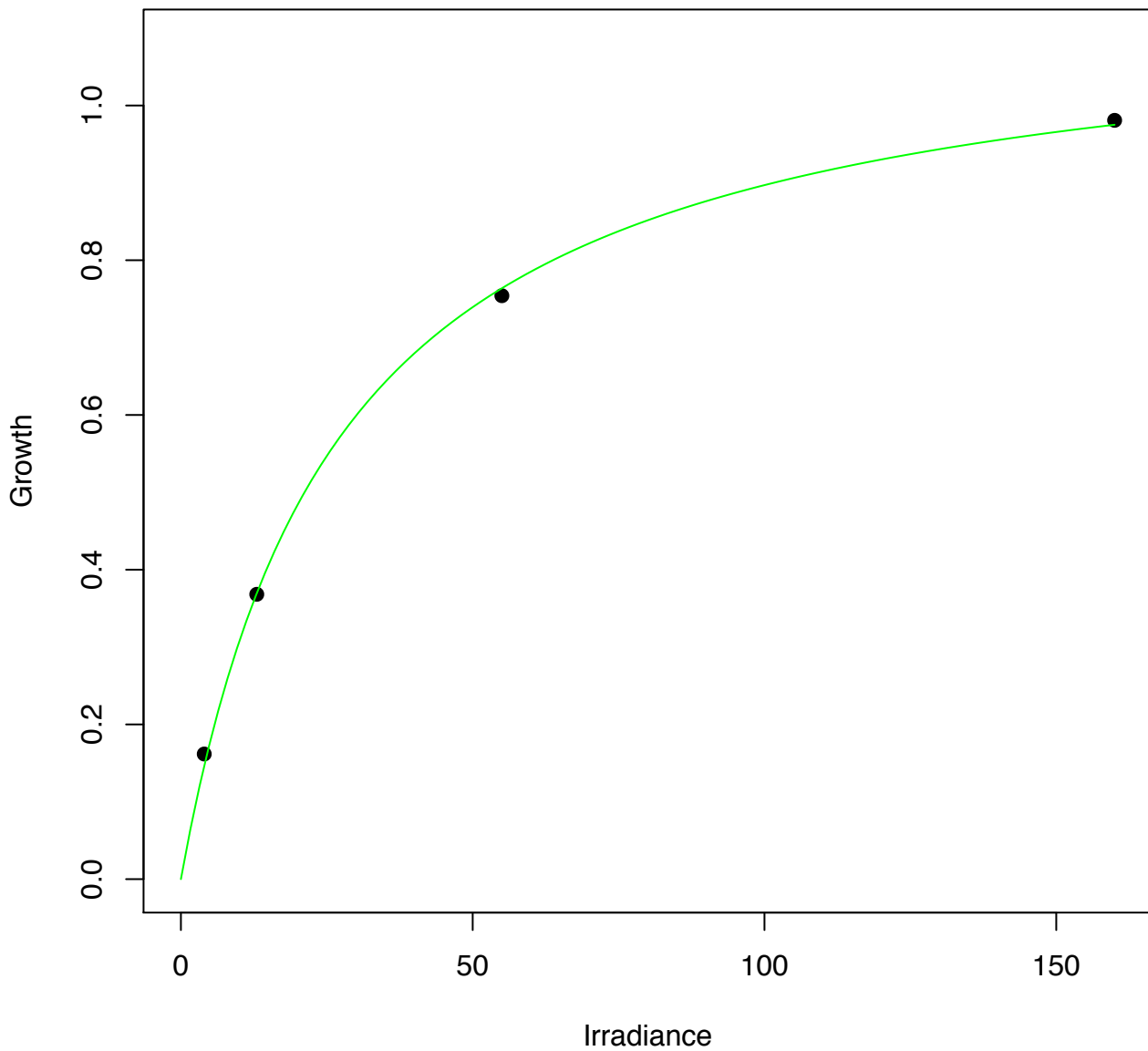
Microcystis flos-aquae 35°C



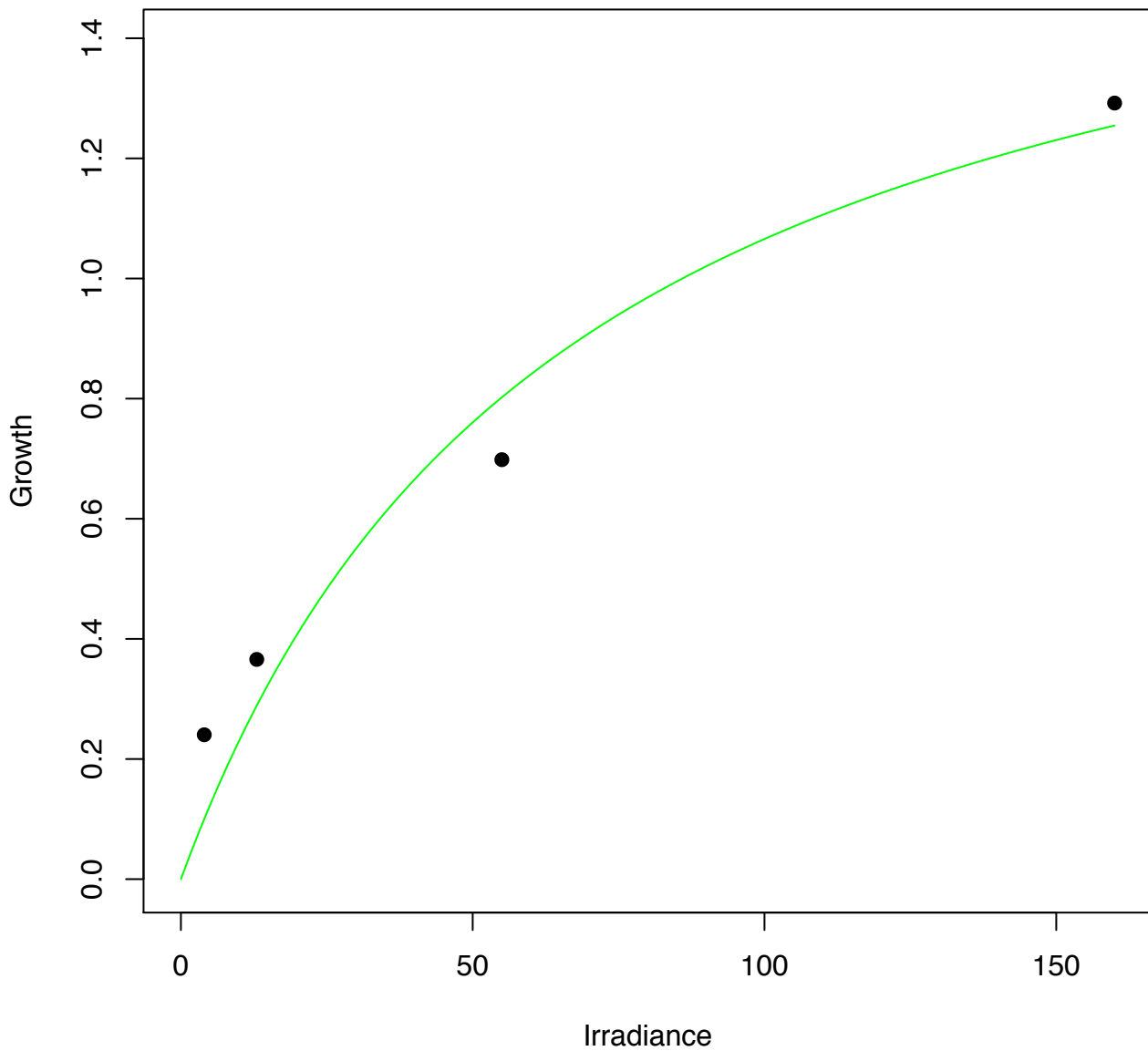
Chroococcus minutus 15°C



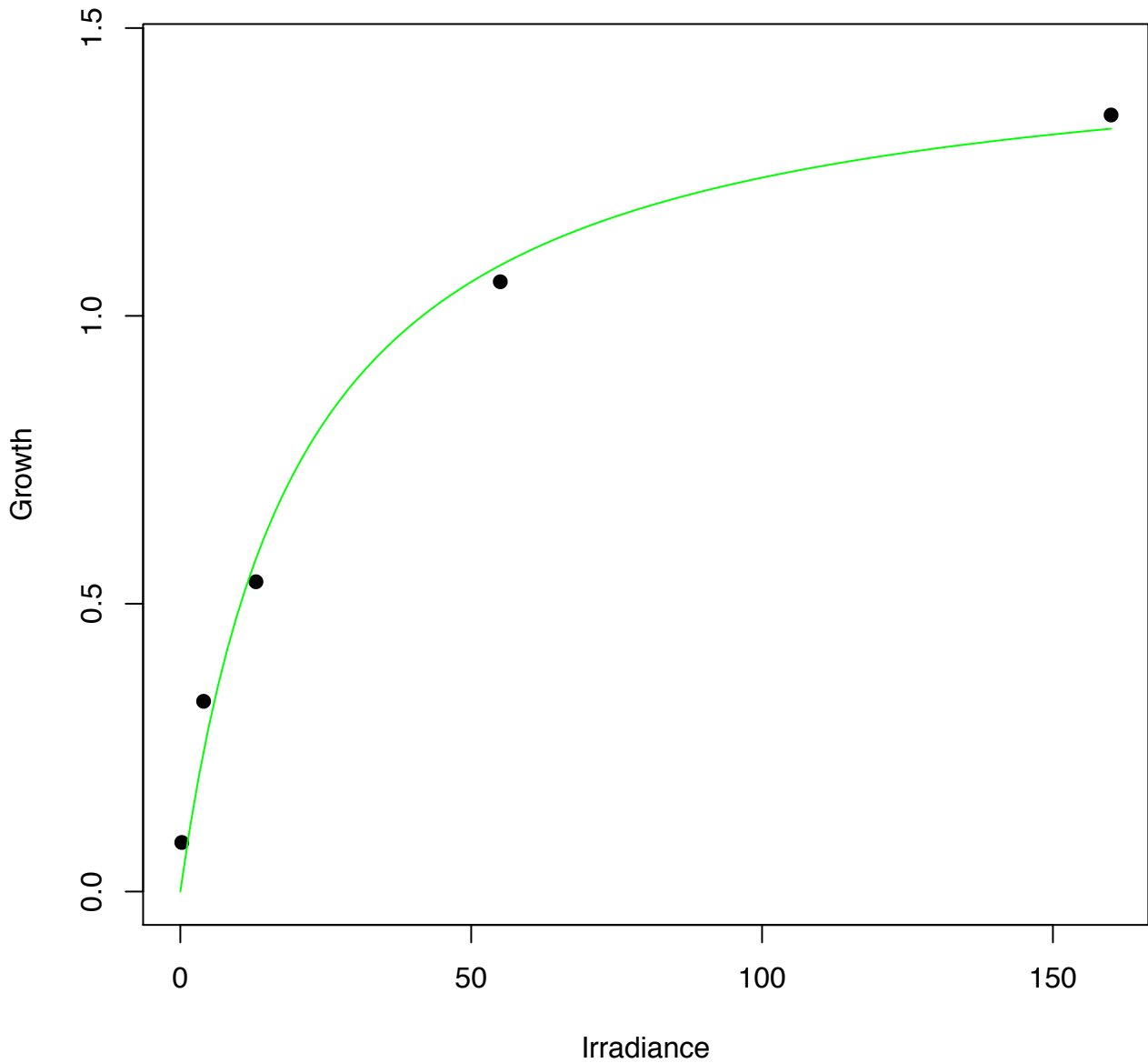
Chroococcus minutus 20°C



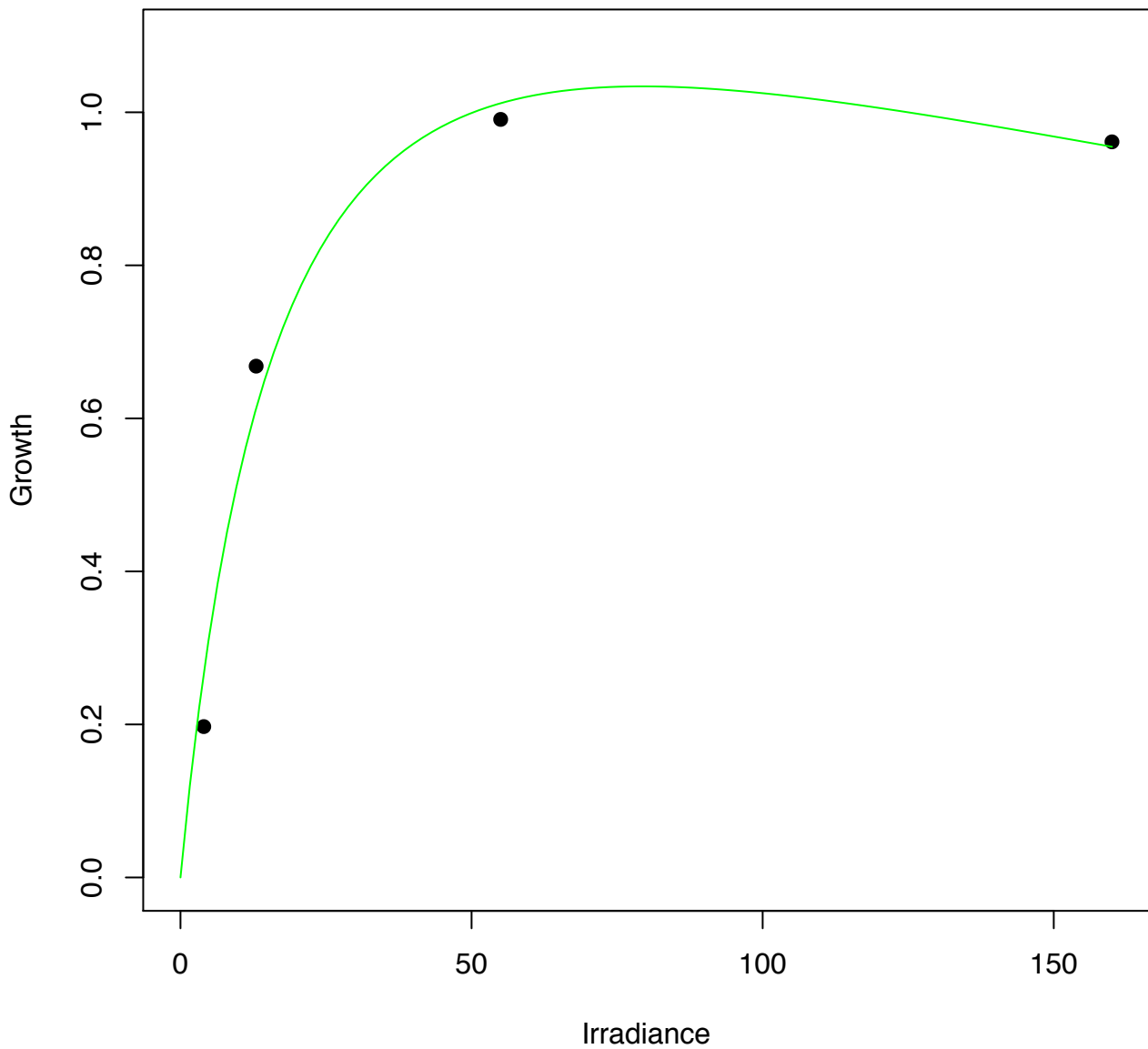
Chroococcus minutus 25°C



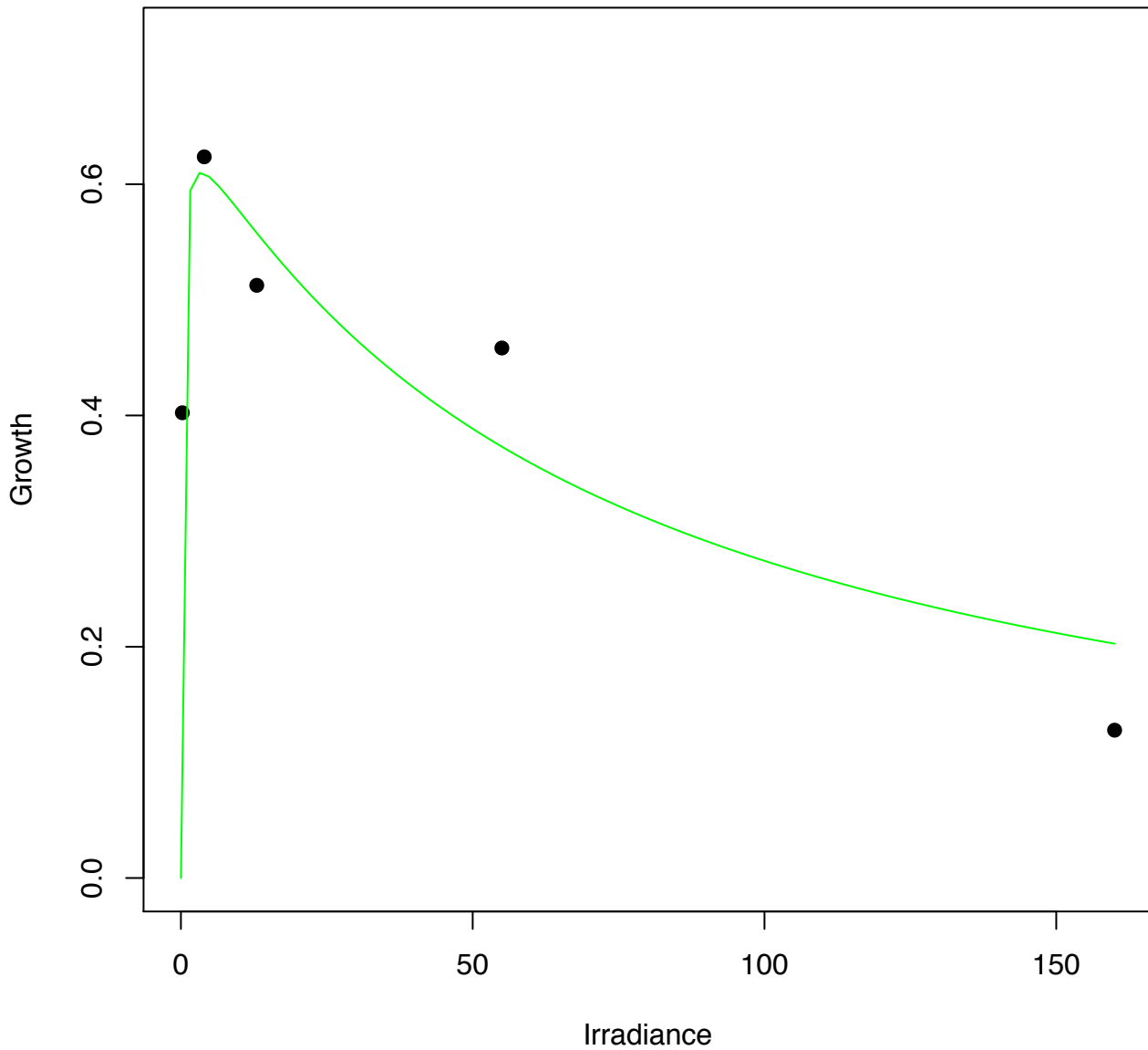
Chroococcus minutus 30°C



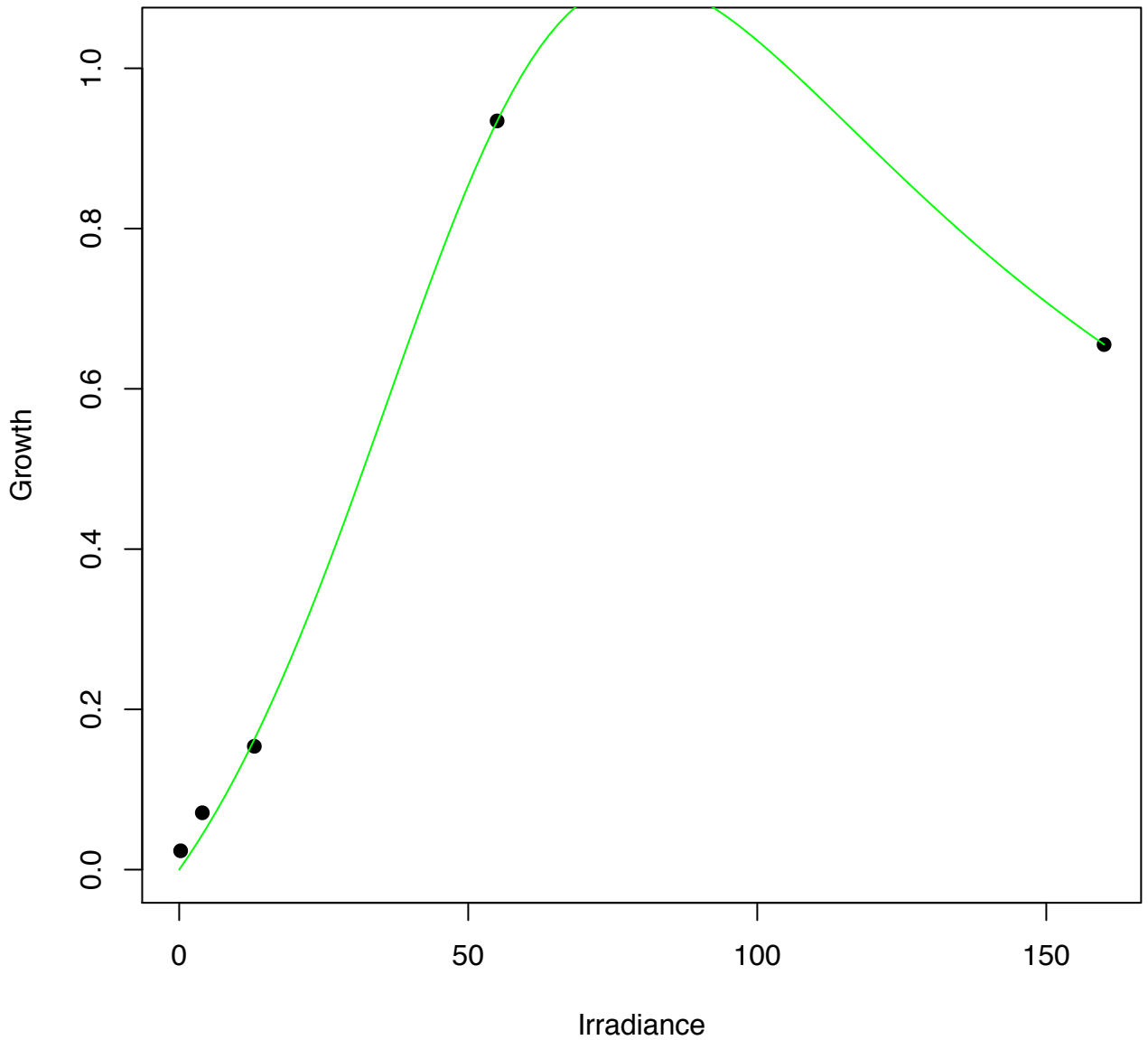
Chroococcus minutus 35°C



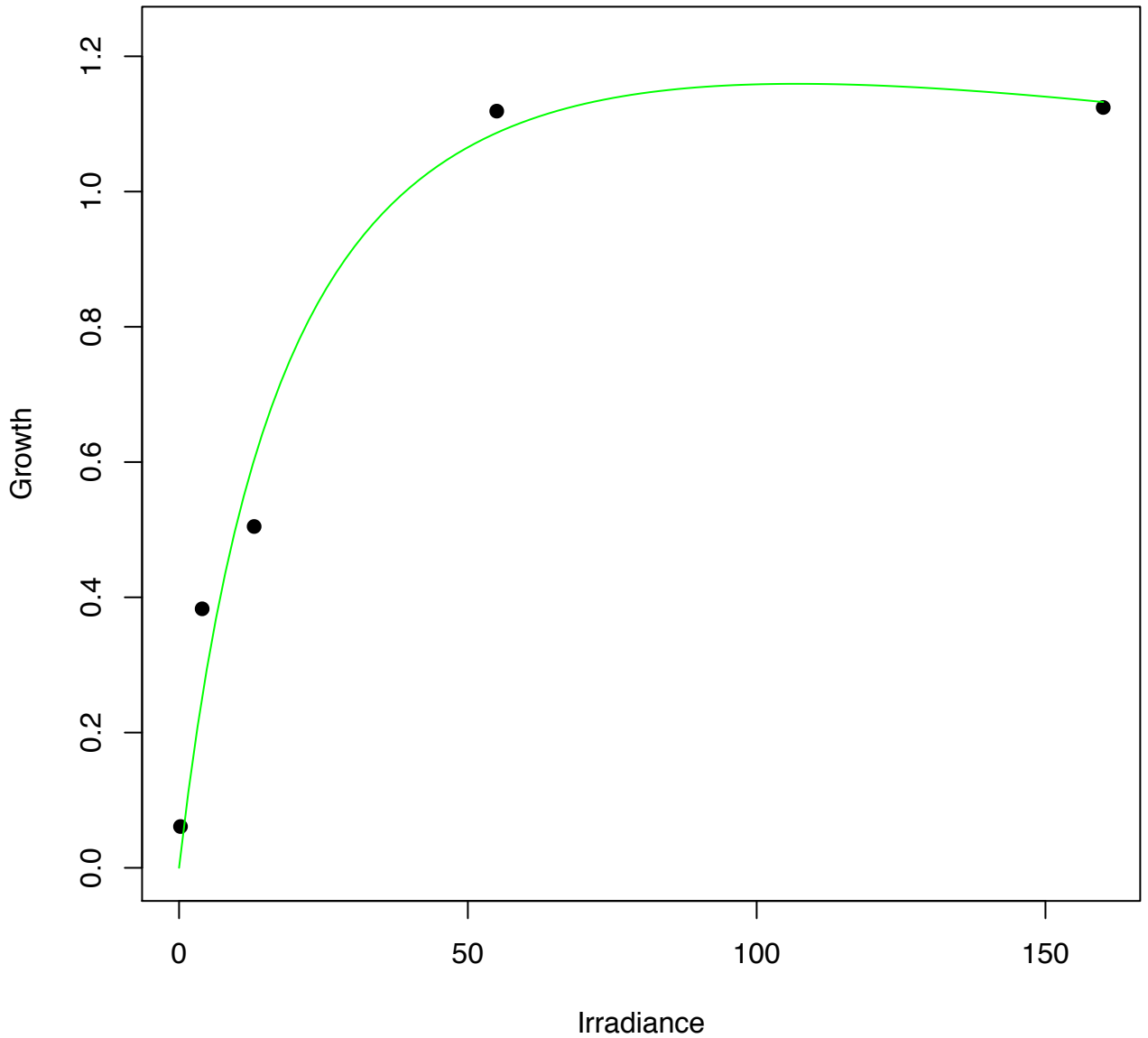
Planktothrix agardhii 15°C



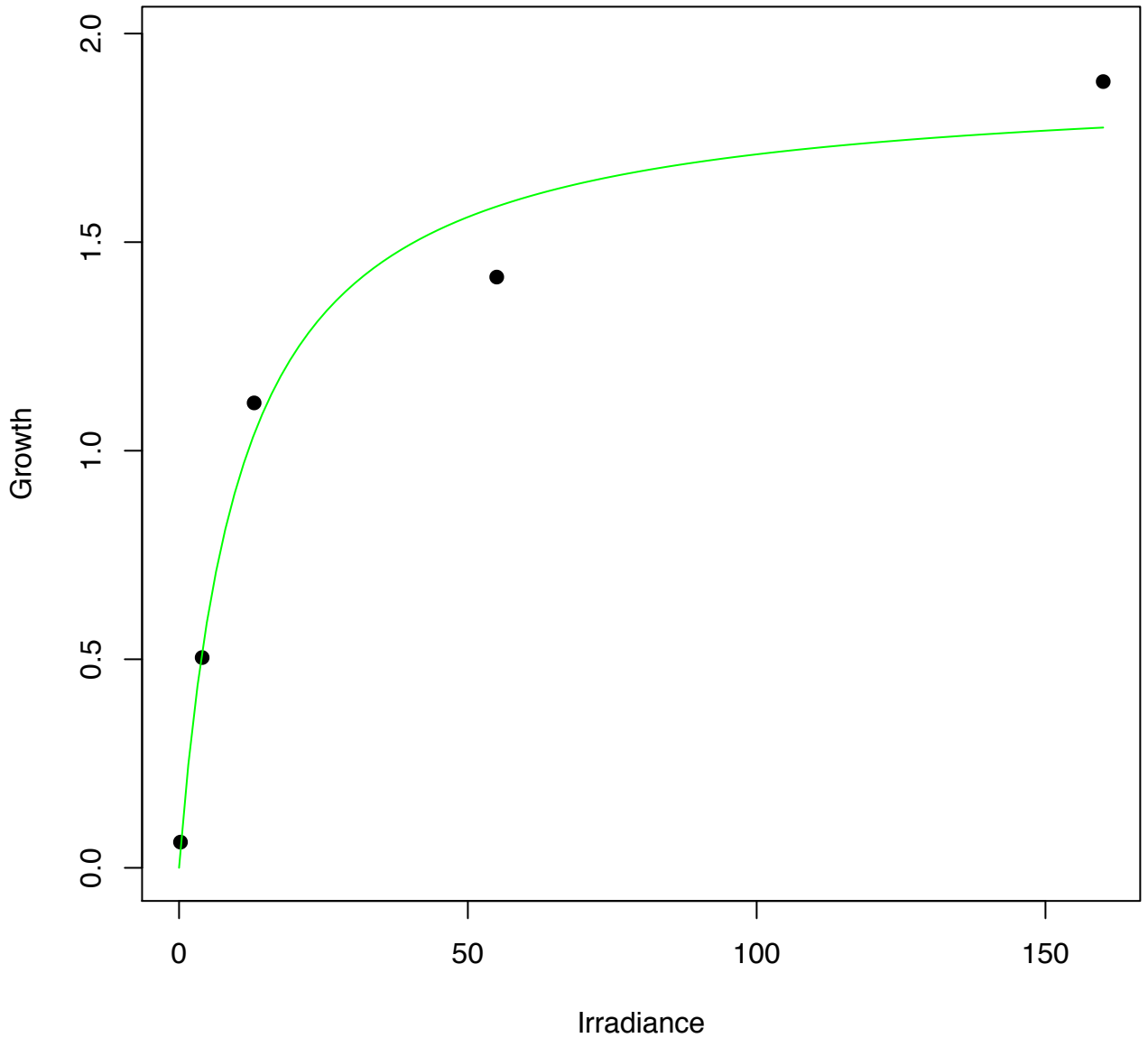
Planktothrix agardhii 20°C



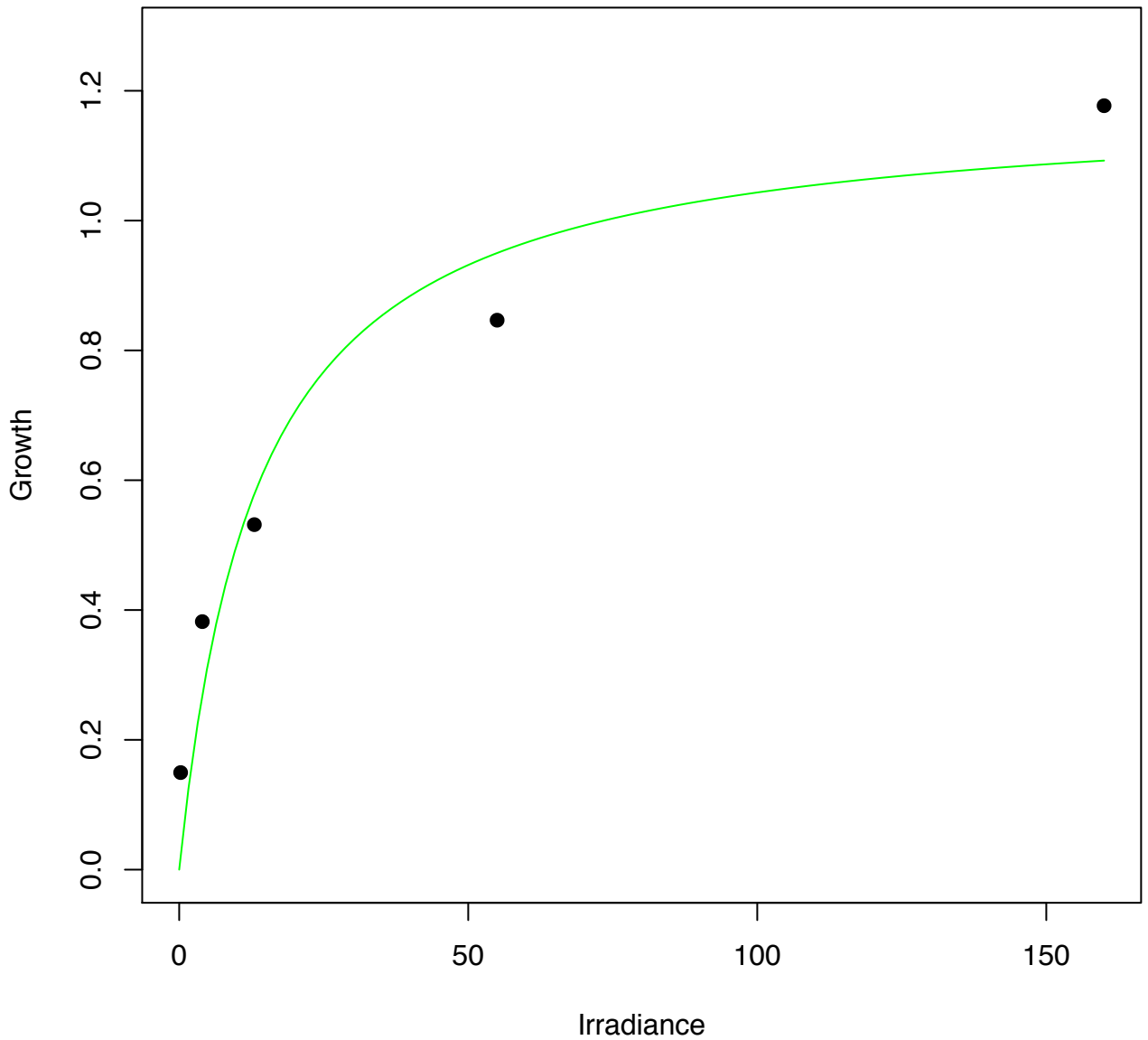
Planktothrix agardhii 25°C



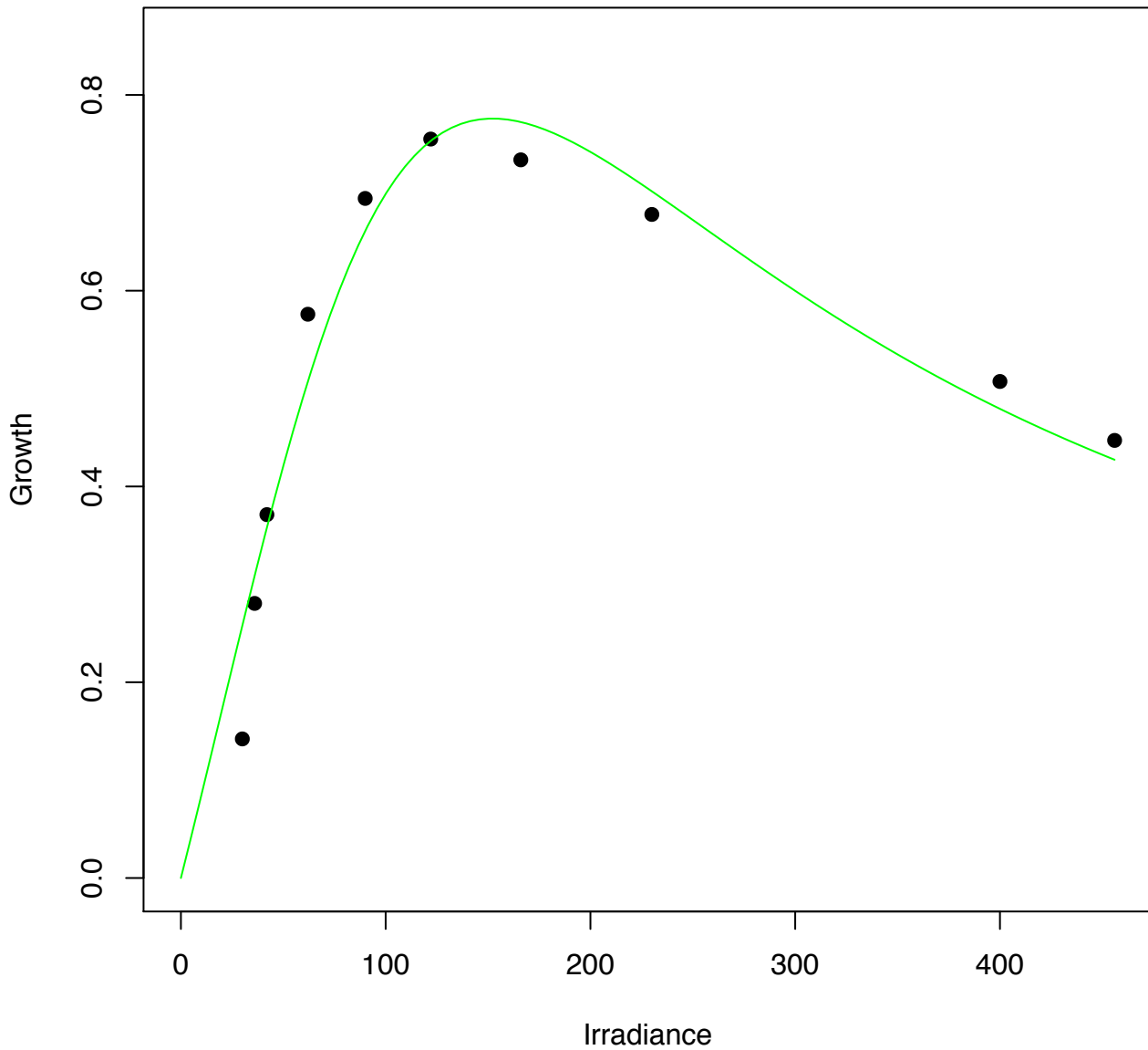
Planktothrix agardhii 30°C



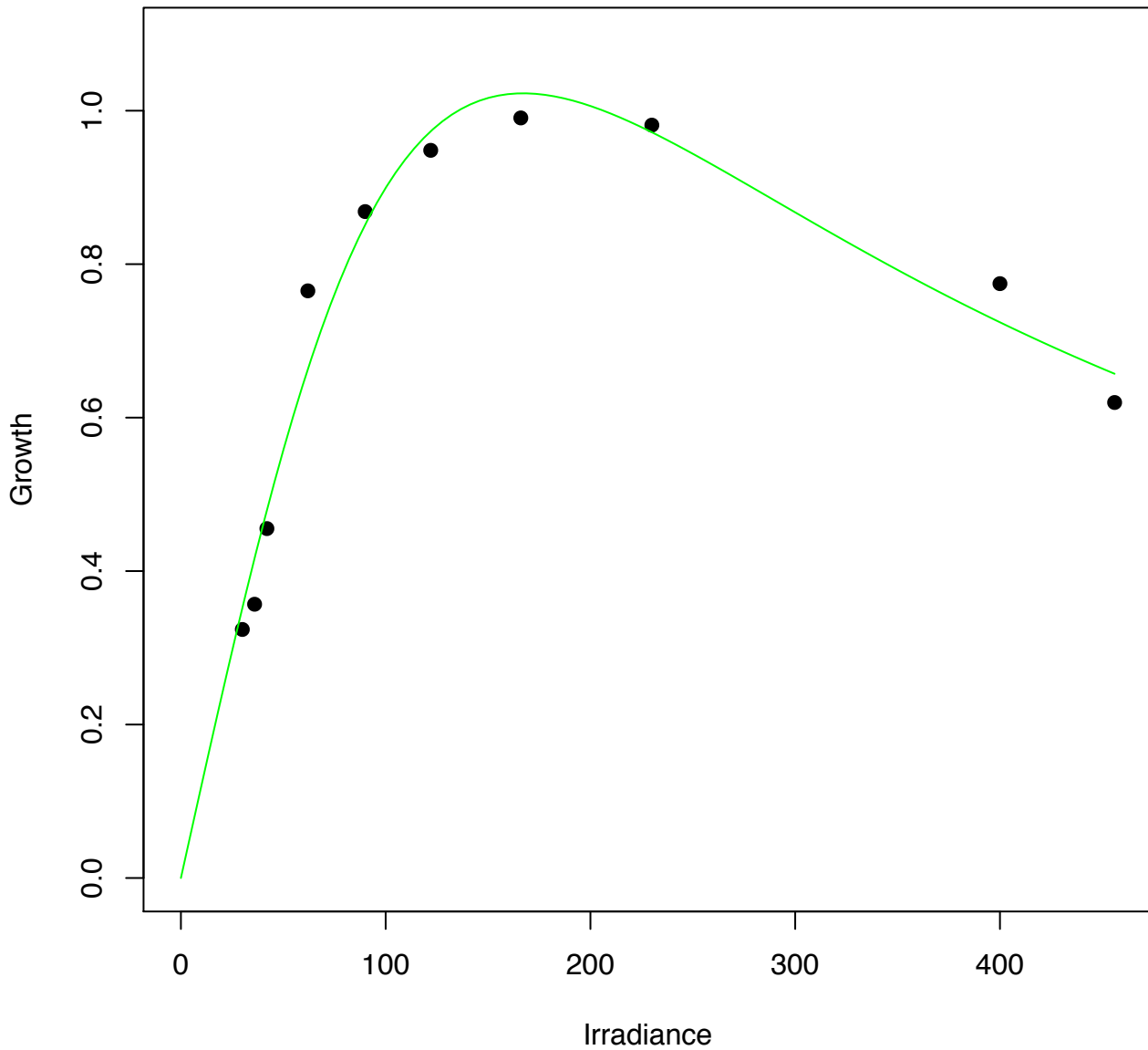
Planktothrix agardhii 35°C



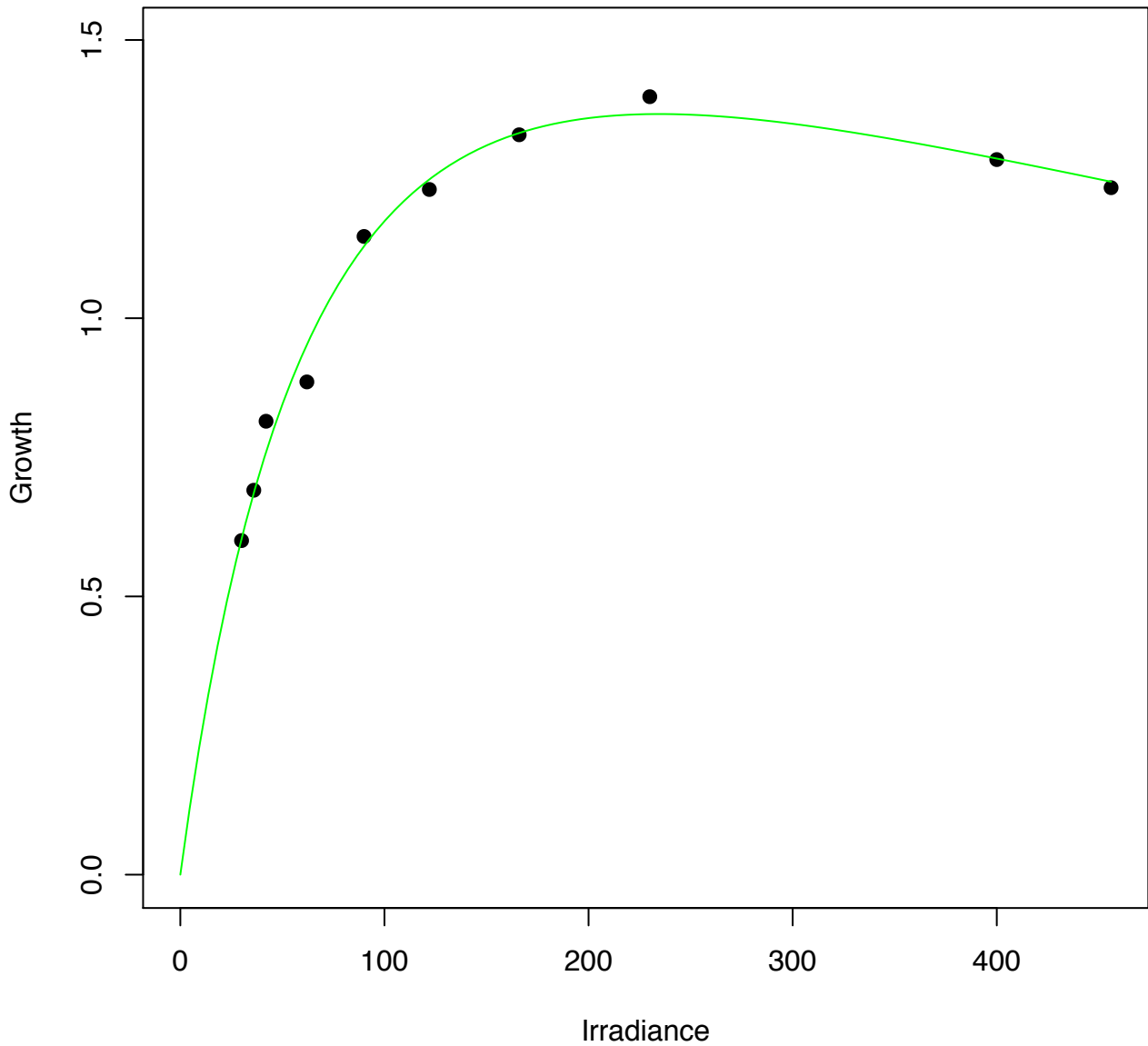
Selenastrum minutum 15°C



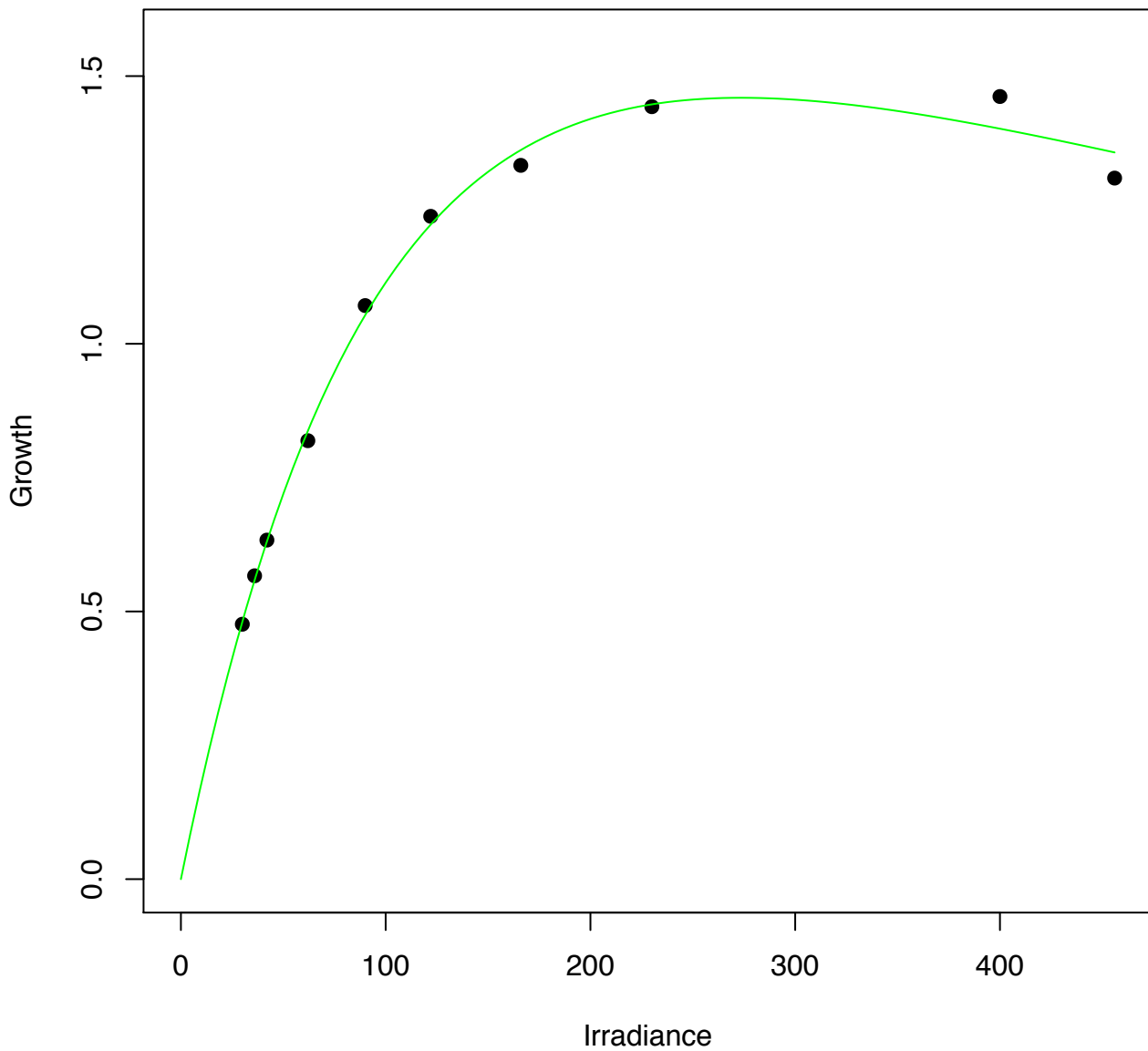
Selenastrum minutum 20°C



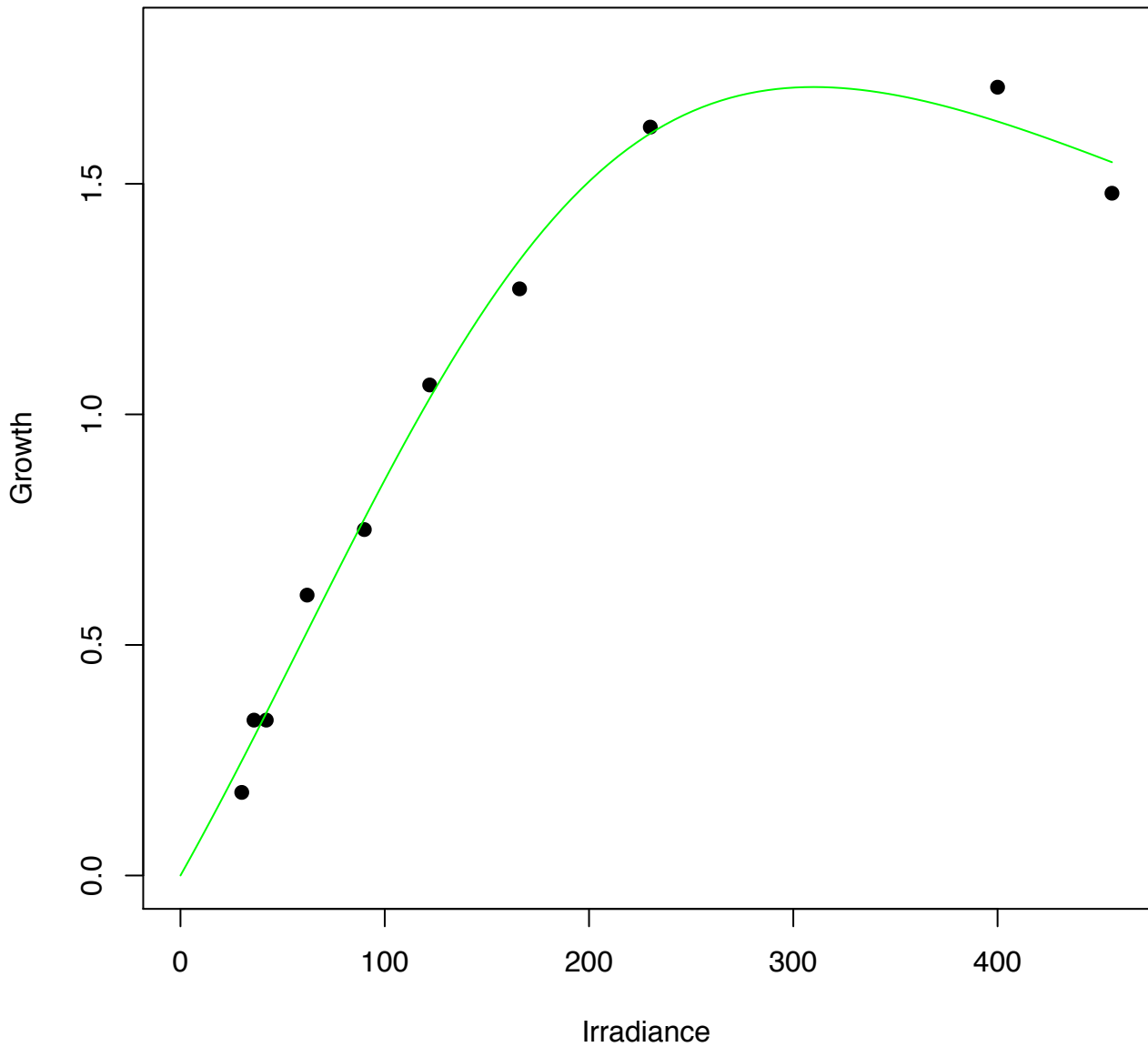
Selenastrum minutum 25°C



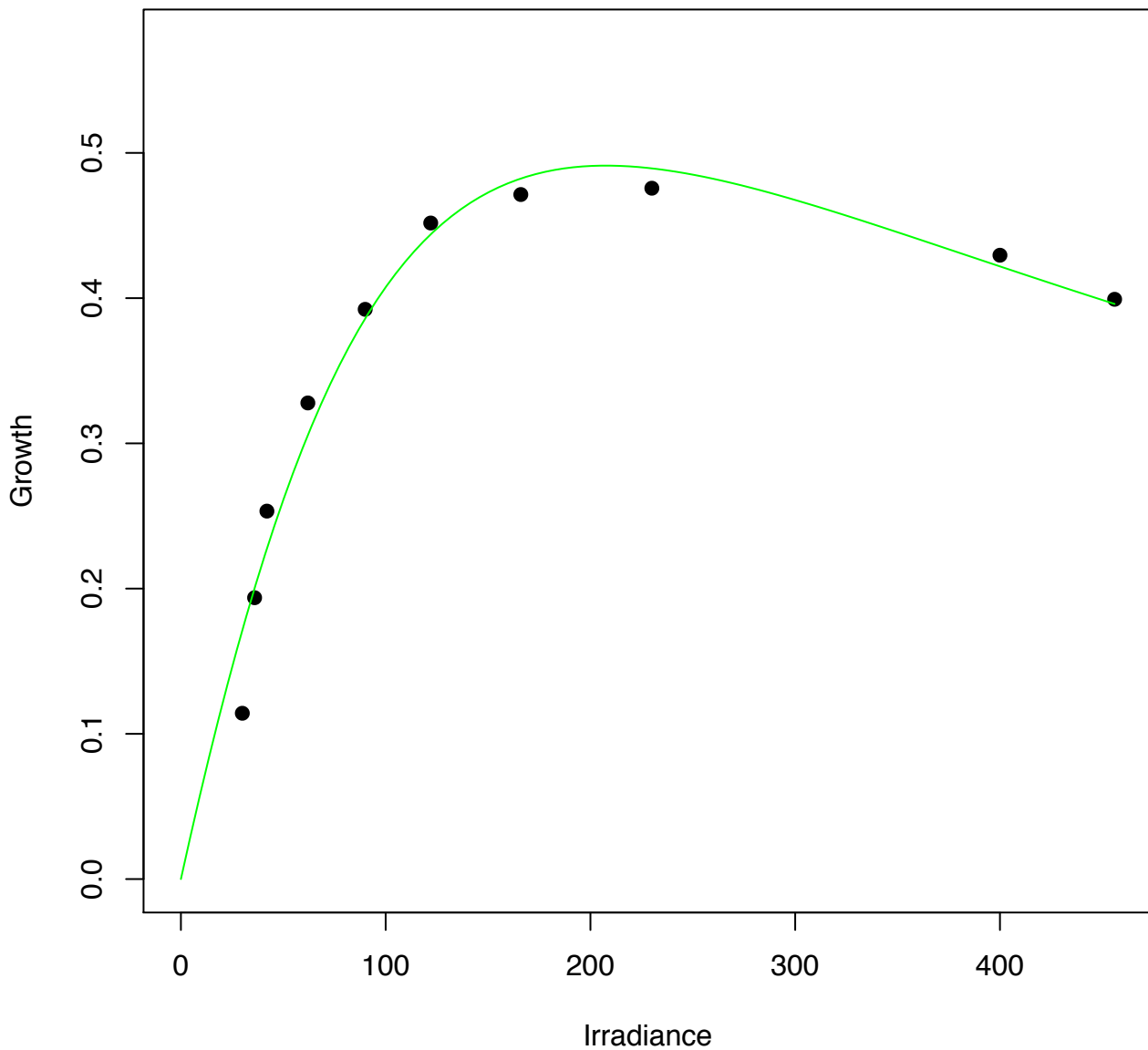
Selenastrum minutum 30°C



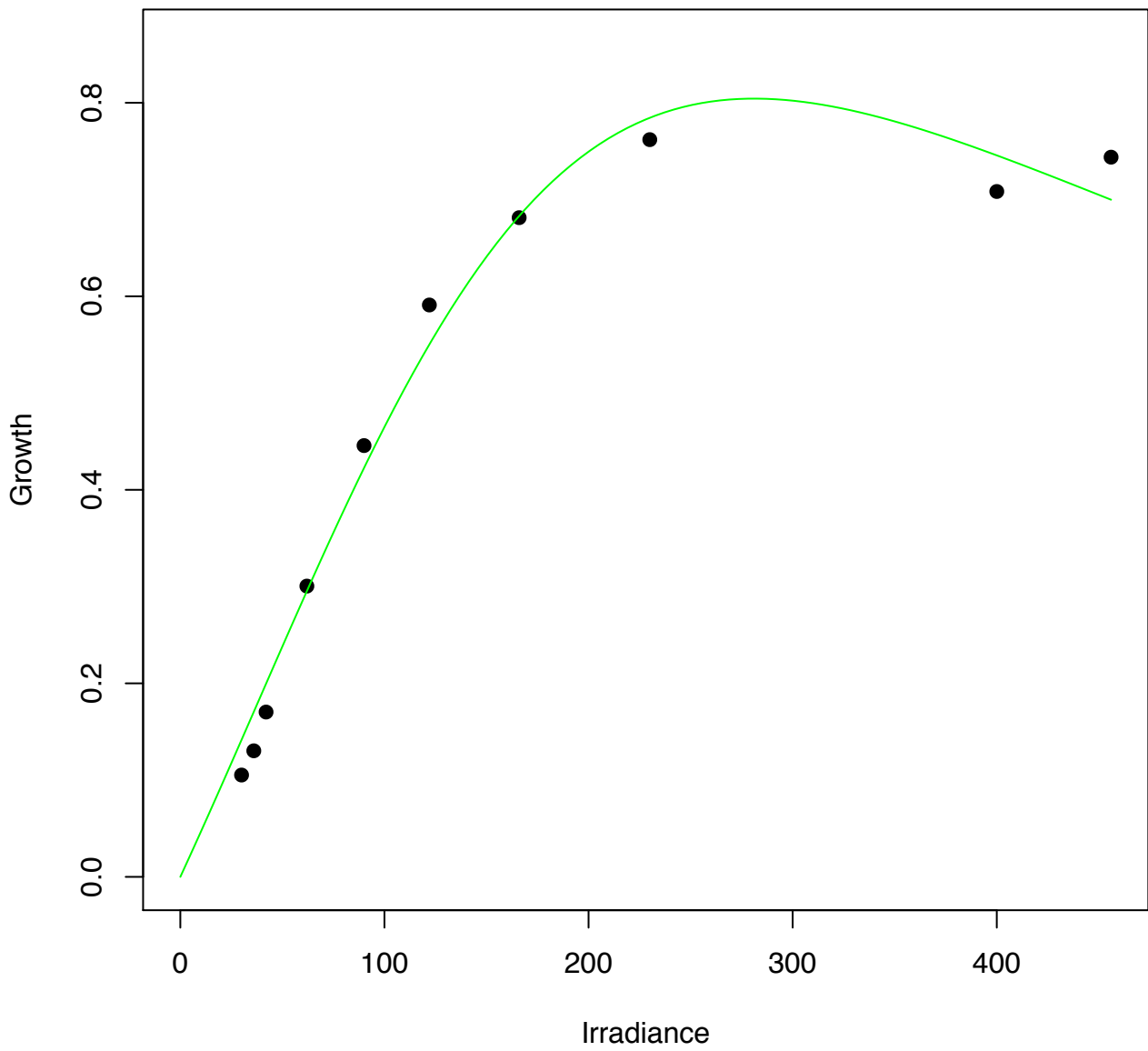
Selenastrum minutum 35°C



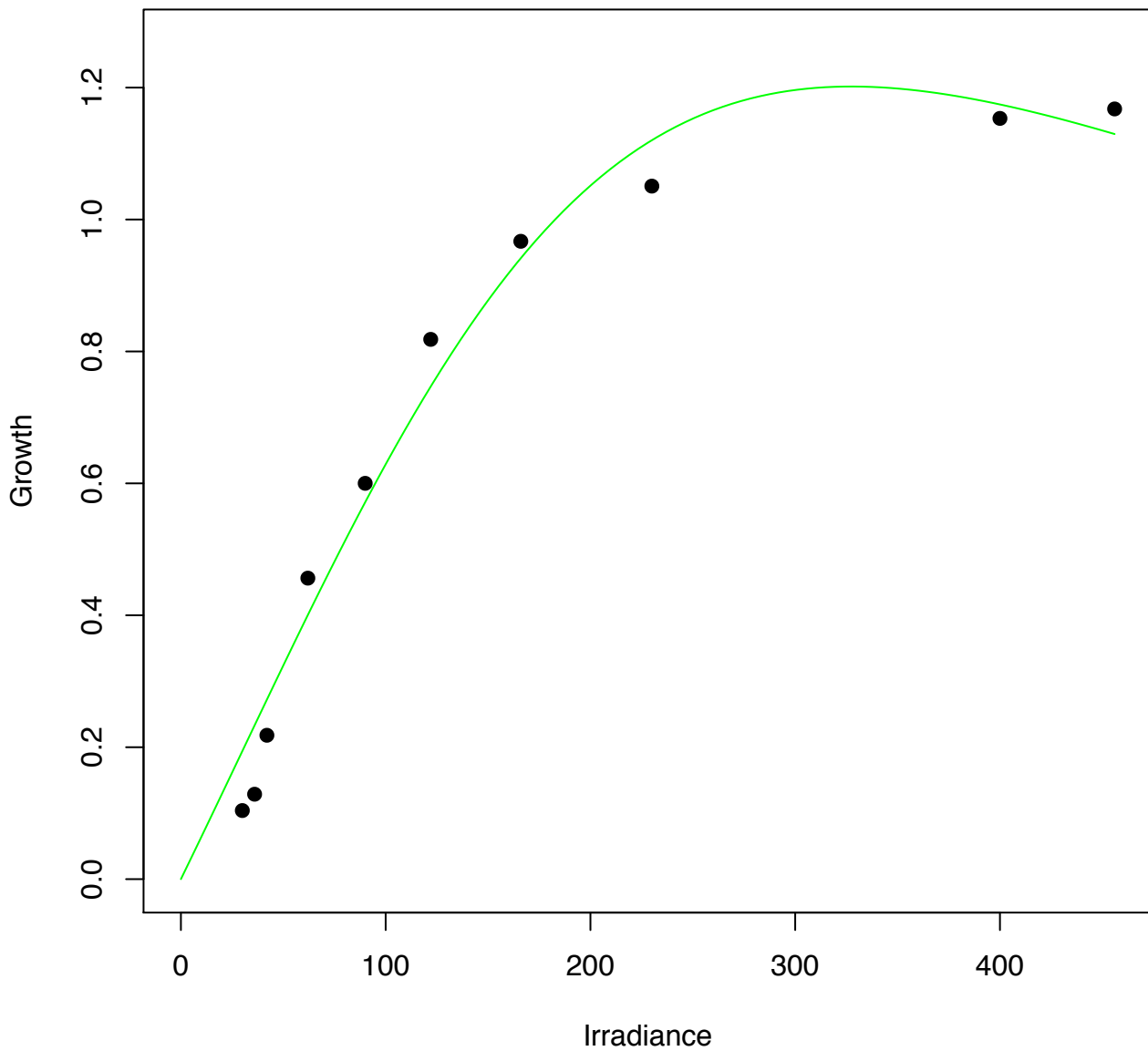
Coelastrum microporum f. astroidea 15°C



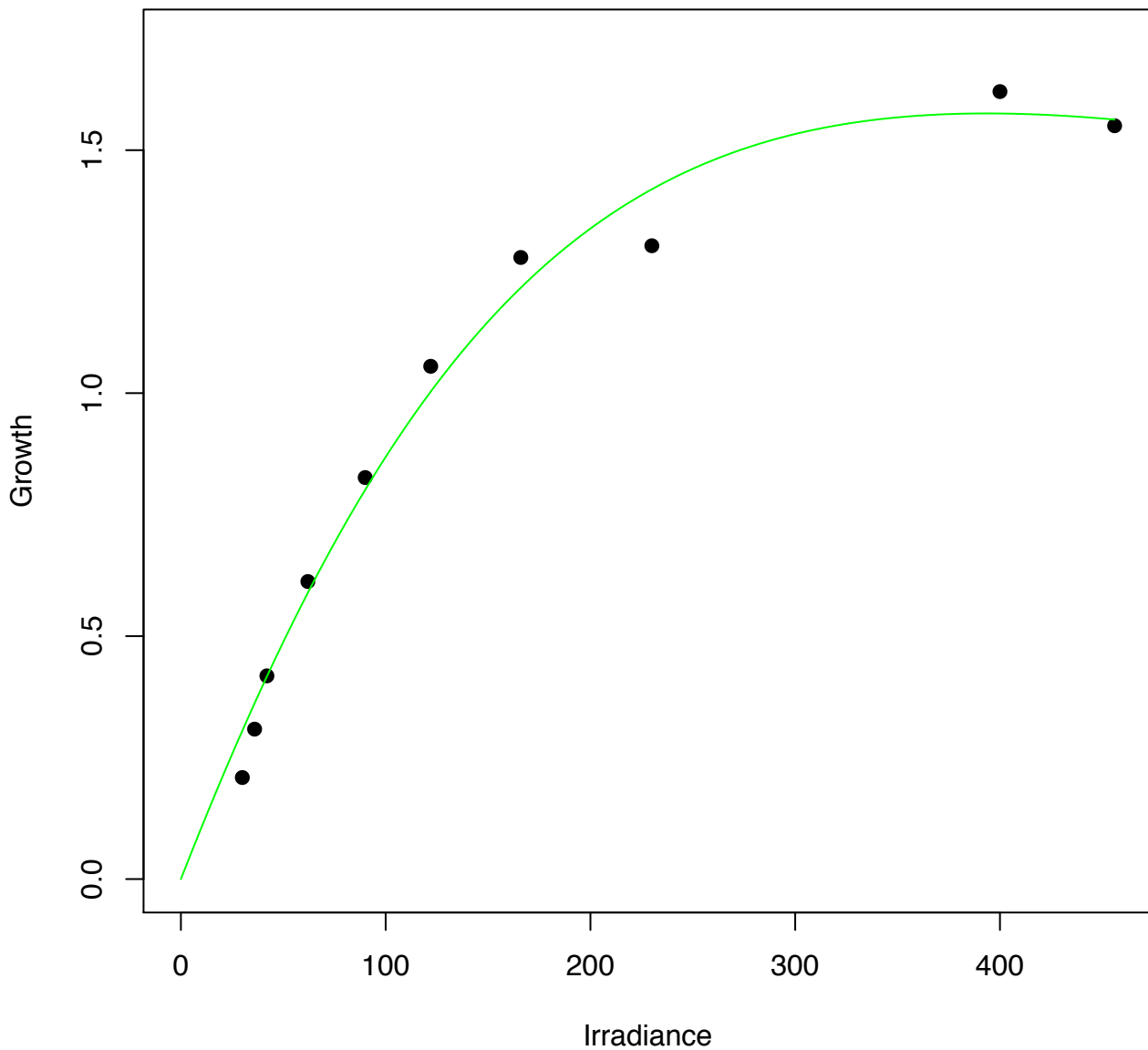
Coelastrum microporum f. astroidea 20°C



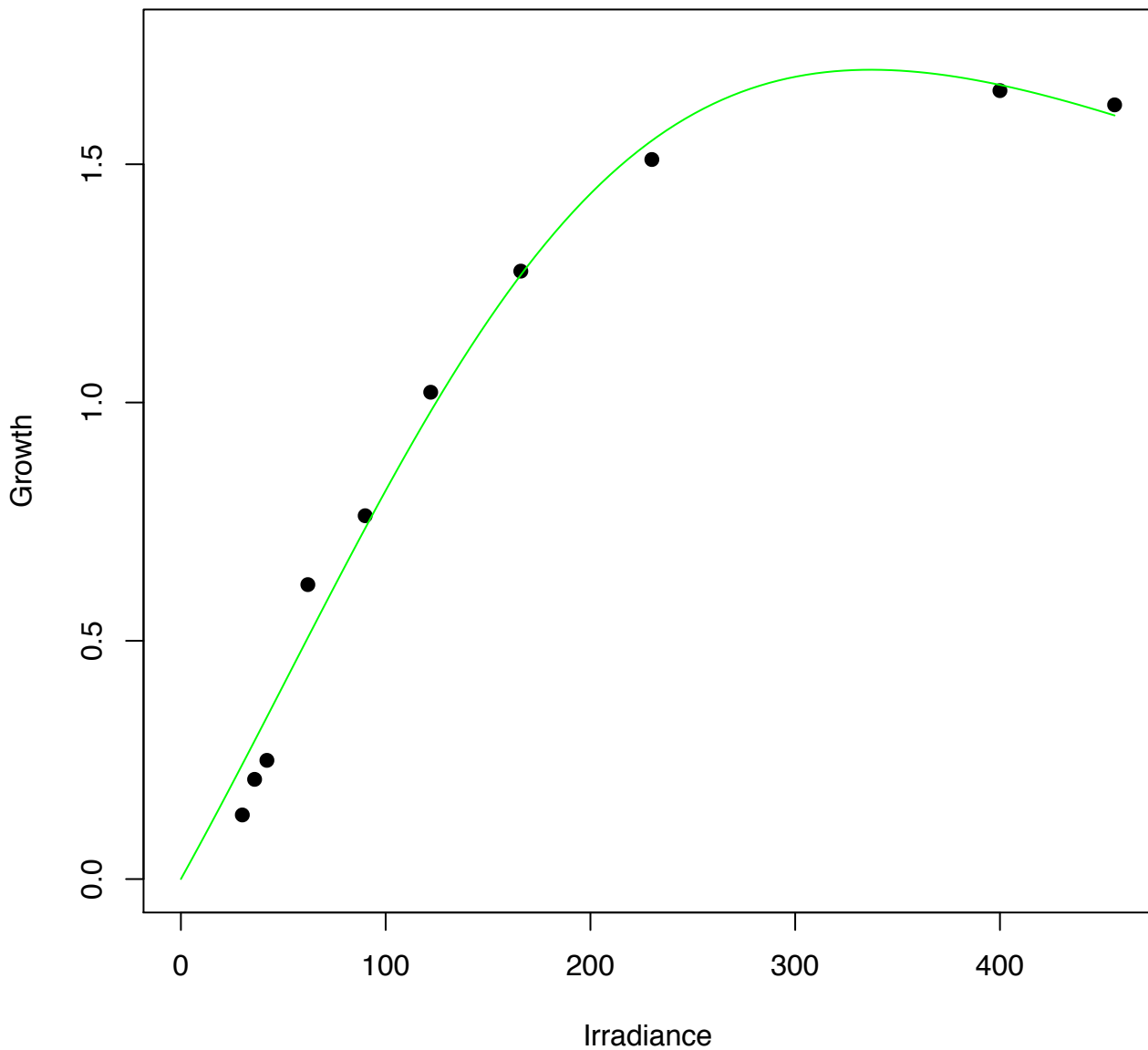
Coelastrum microporum f. astroidea 25°C



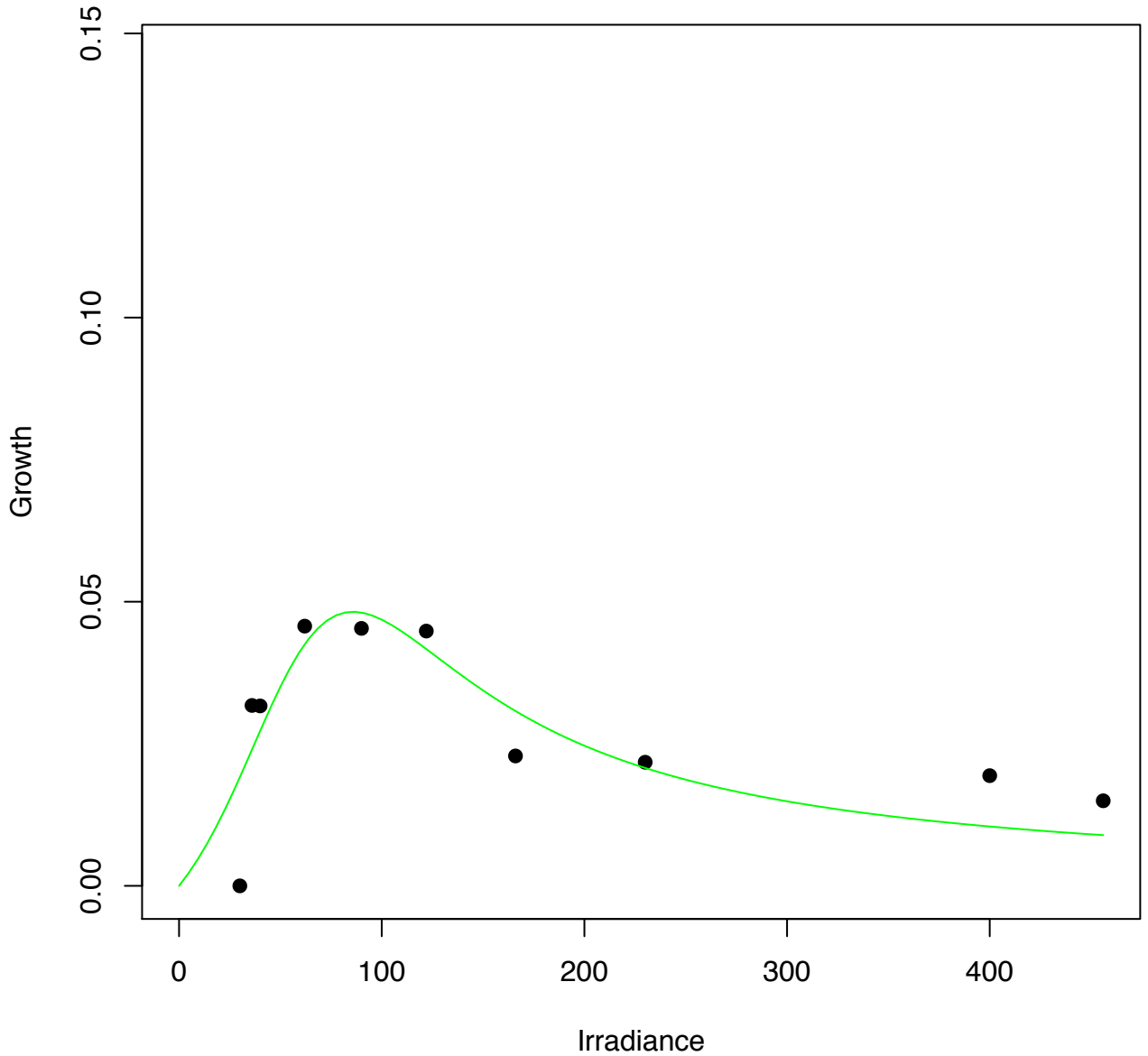
Coelastrum microporum f. astroidea 30°C



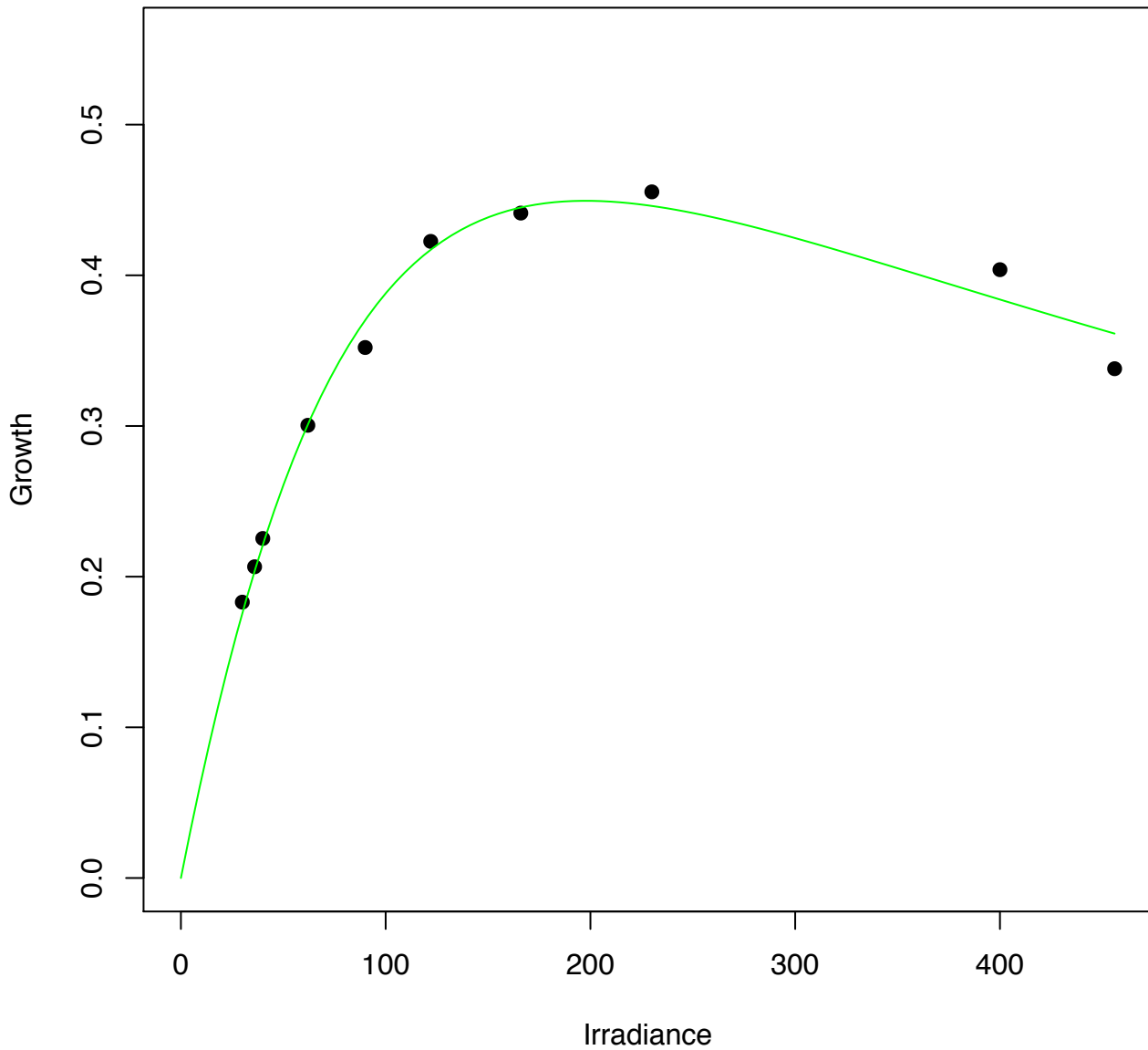
Coelastrum microporum f. astroidea 35°C



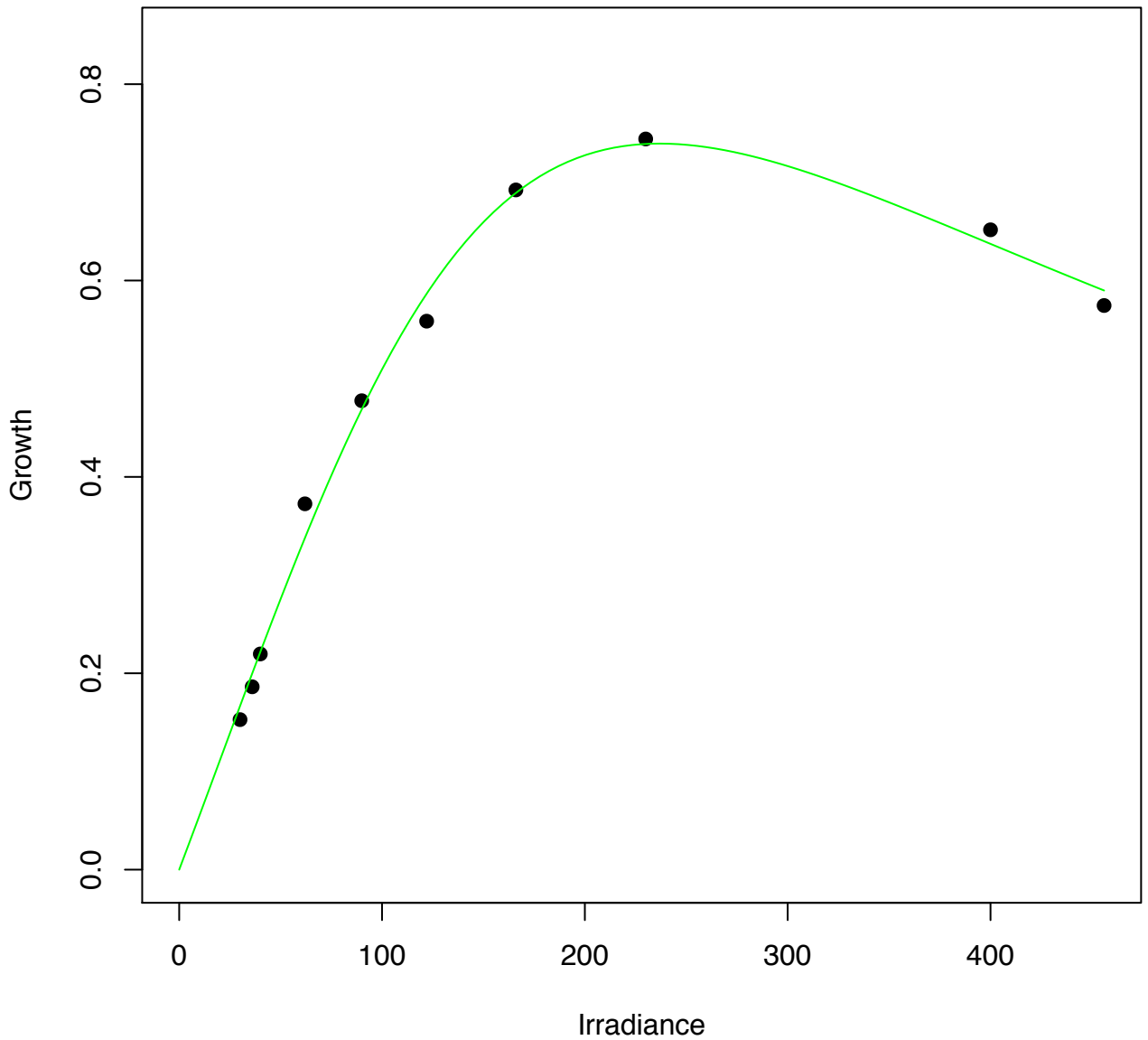
Cosmarium subprotumidum 15°C



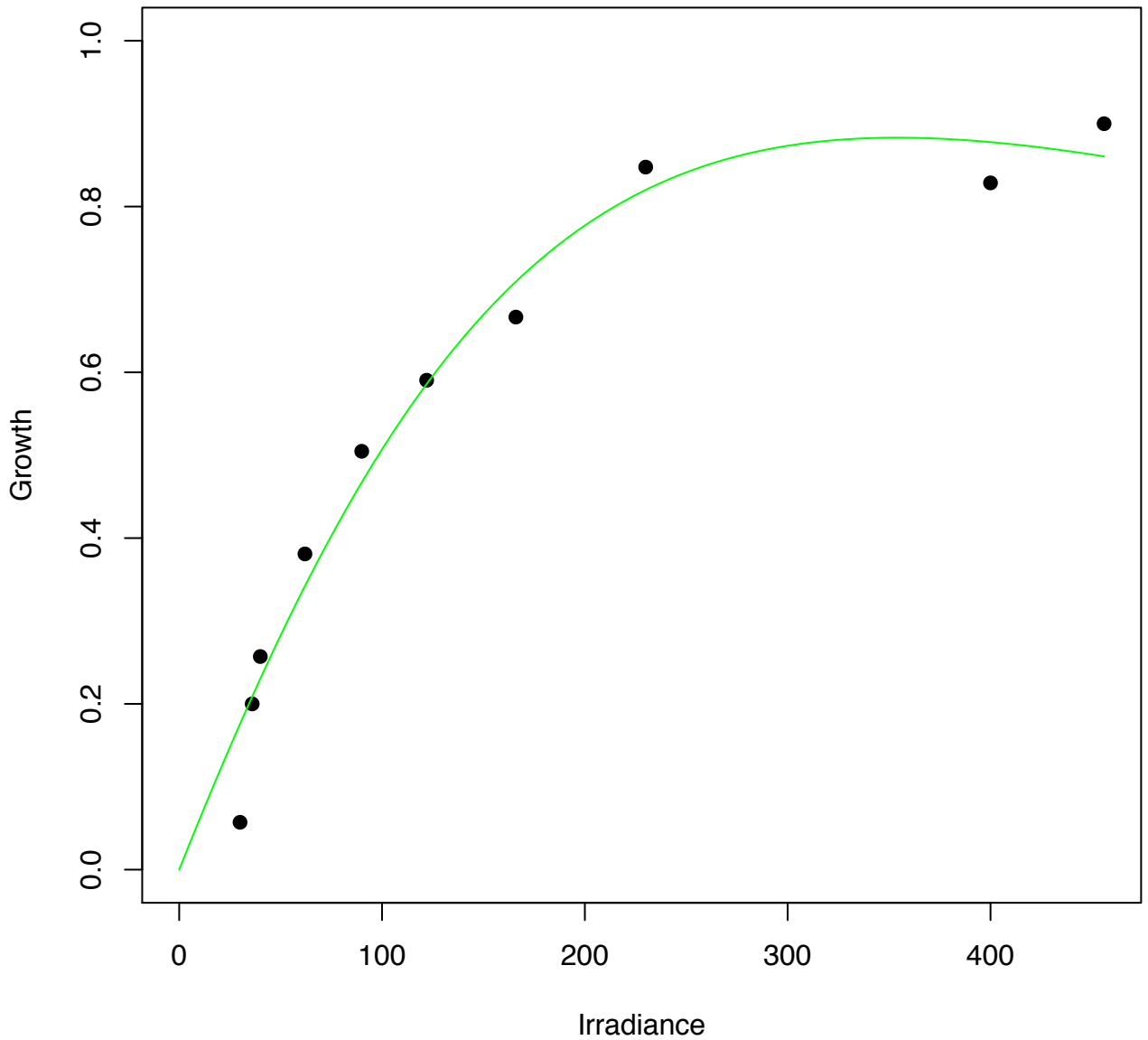
Cosmarium subprotumidum 20°C



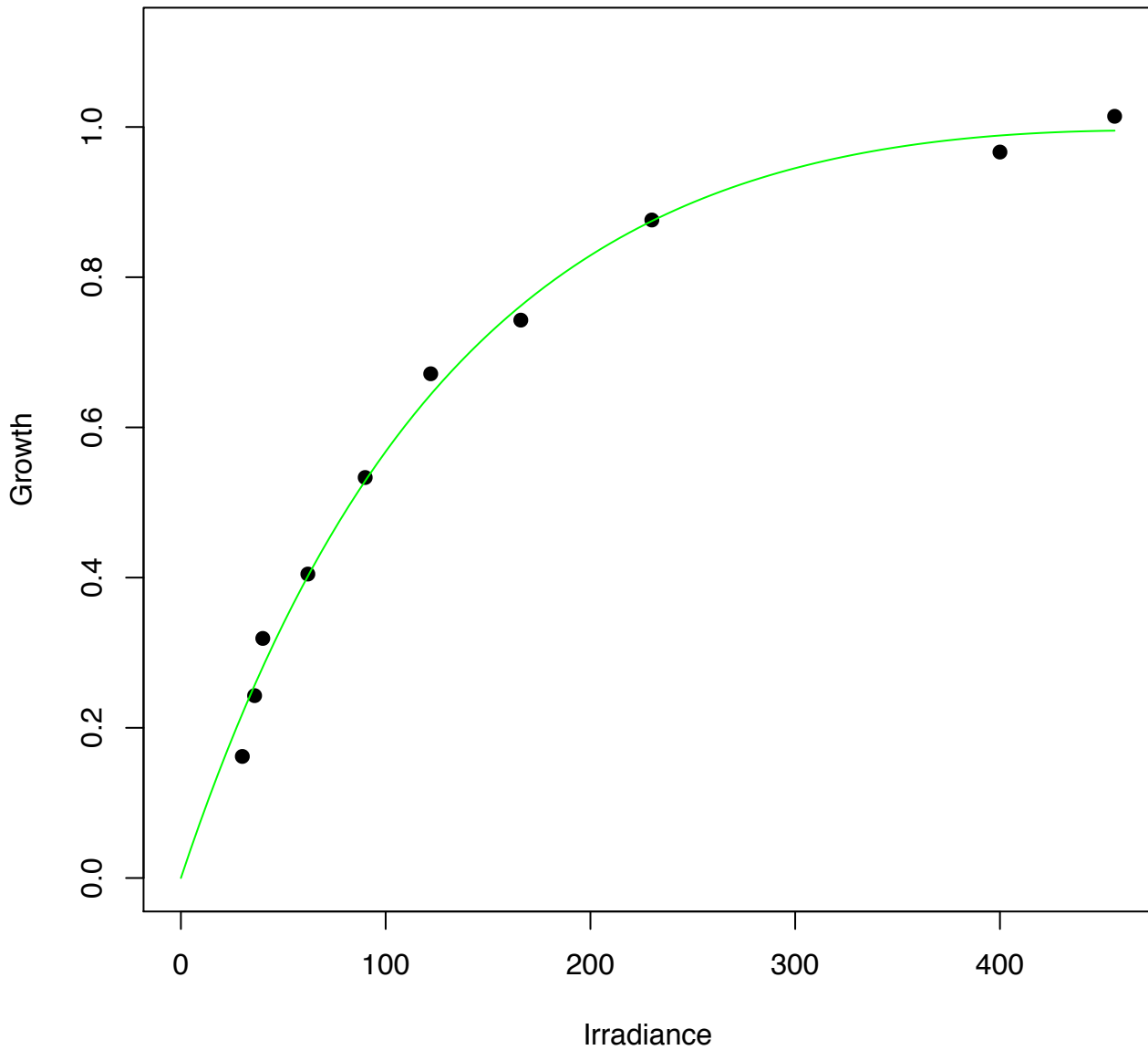
Cosmarium subprotumidum 25°C



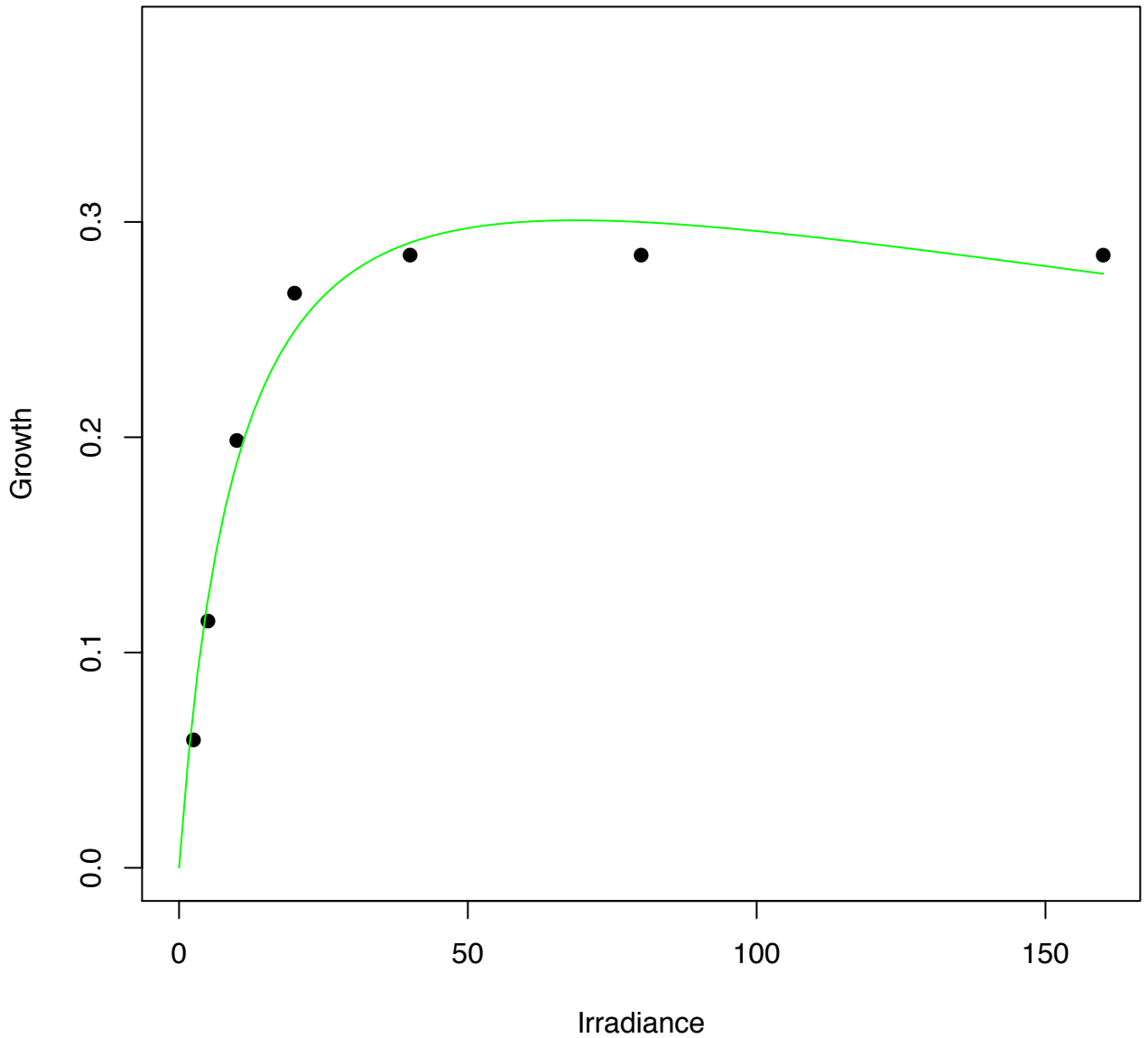
Cosmarium subprotumidum 30°C



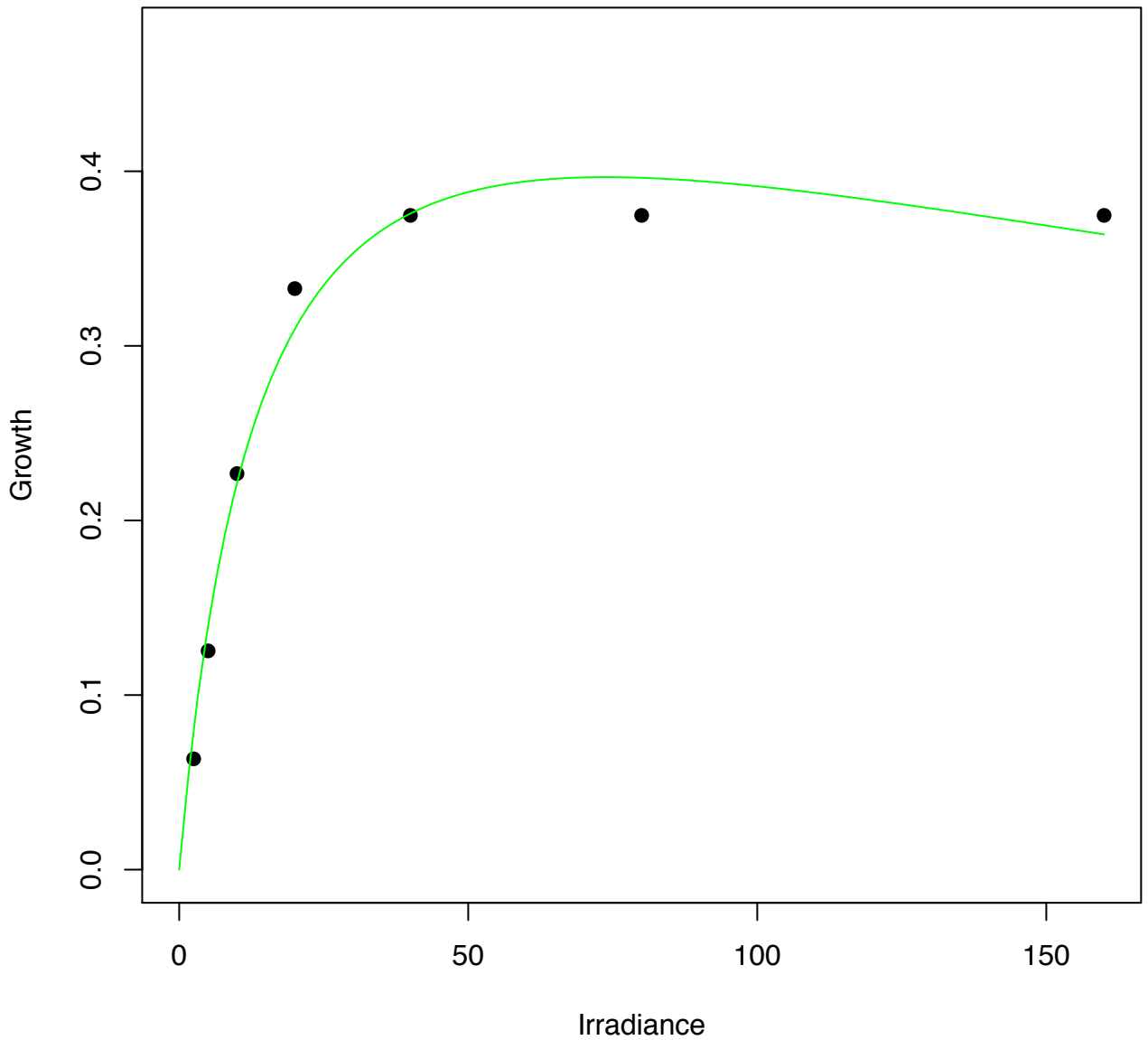
Cosmarium subprotumidum 35°C



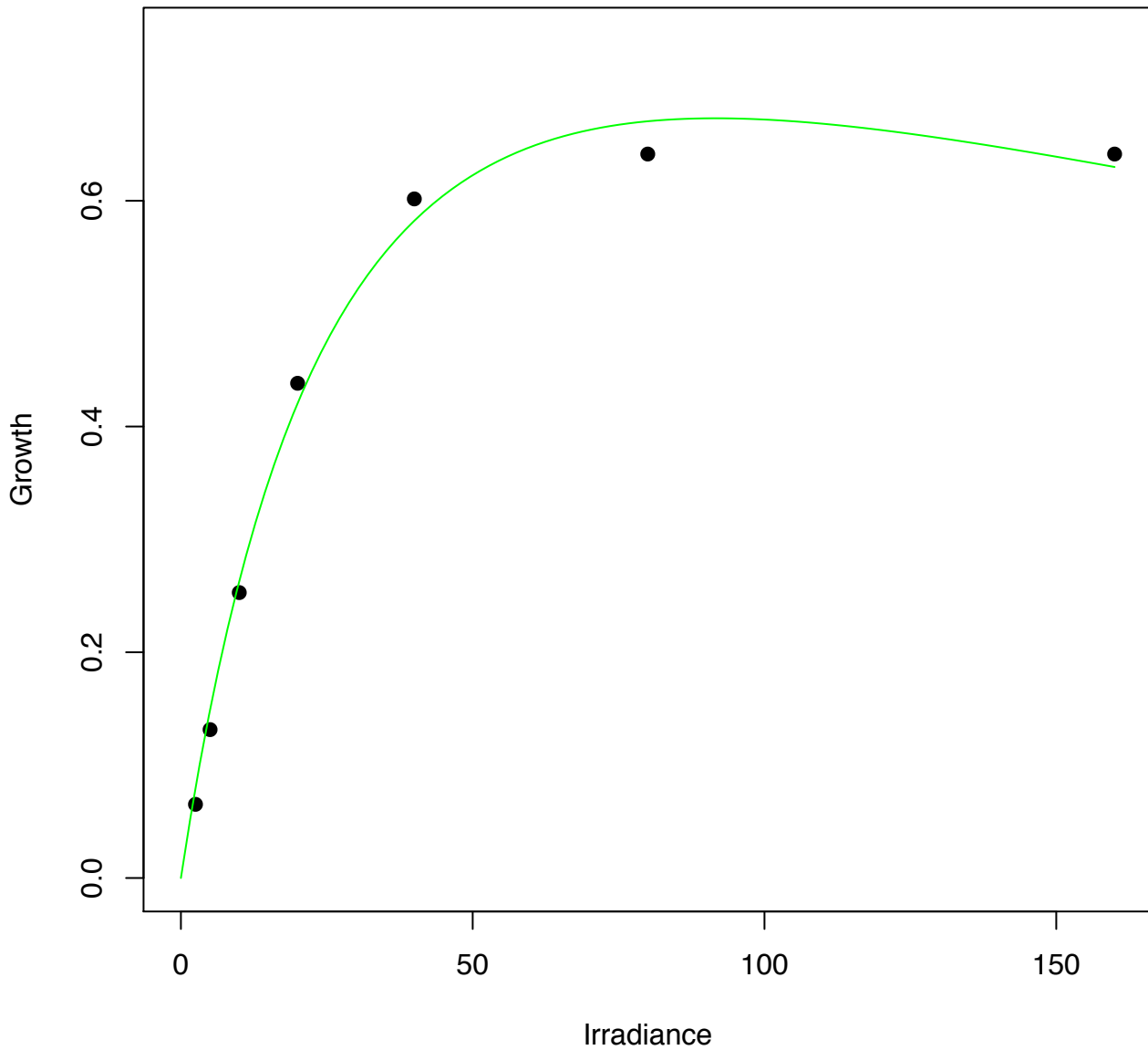
Asterionella formosa 2°C



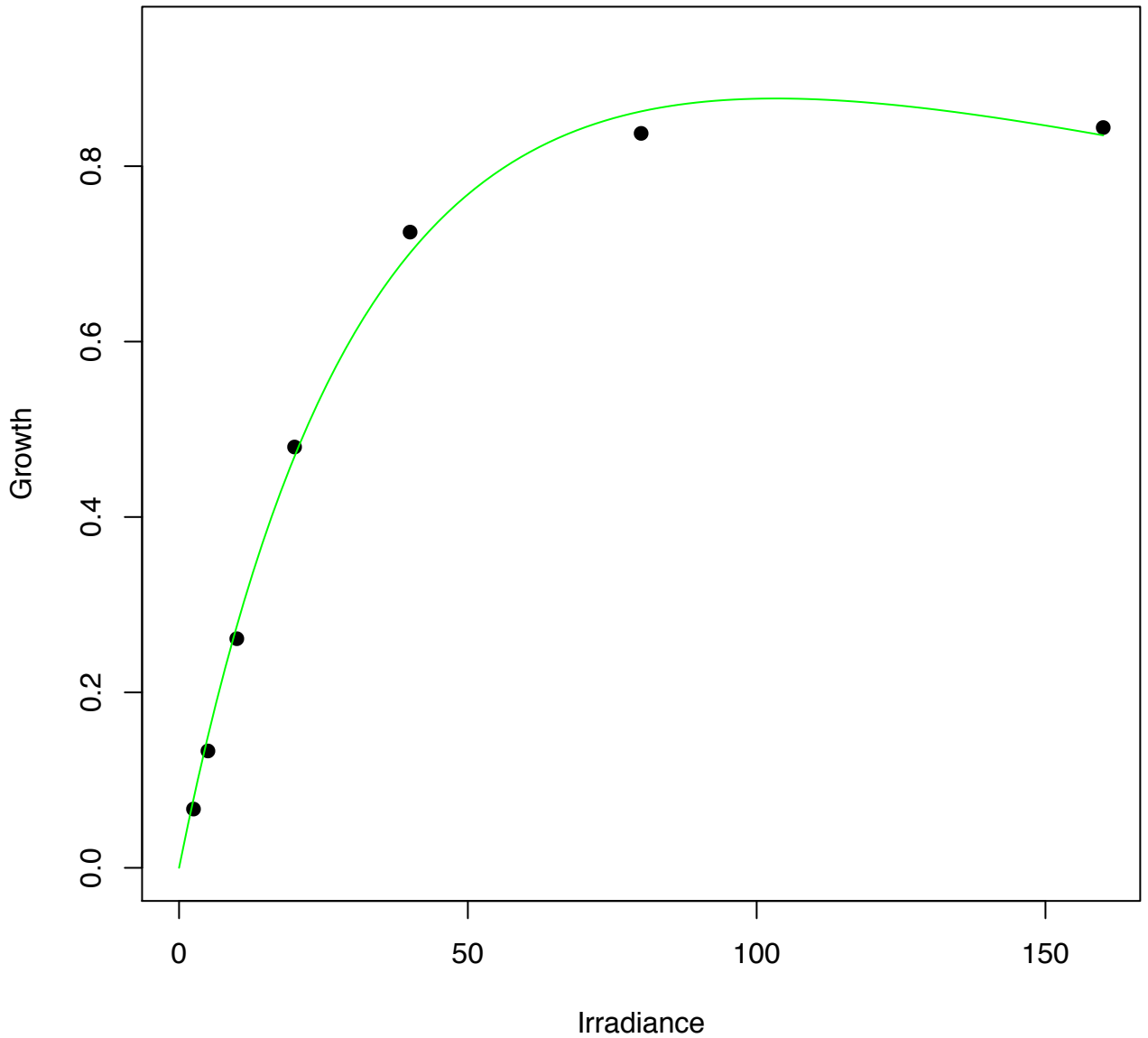
Asterionella formosa 5°C



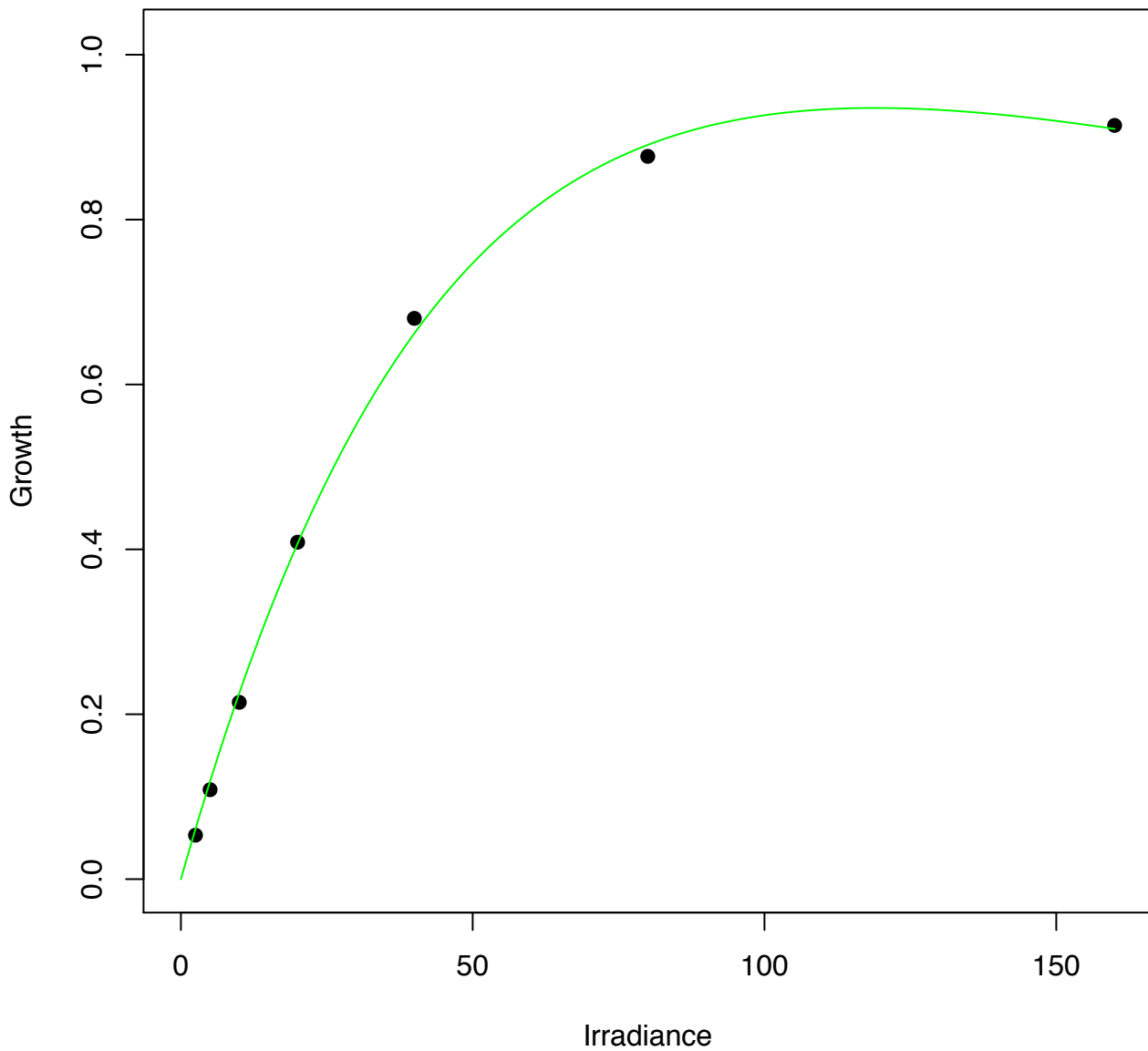
Asterionella formosa 11°C



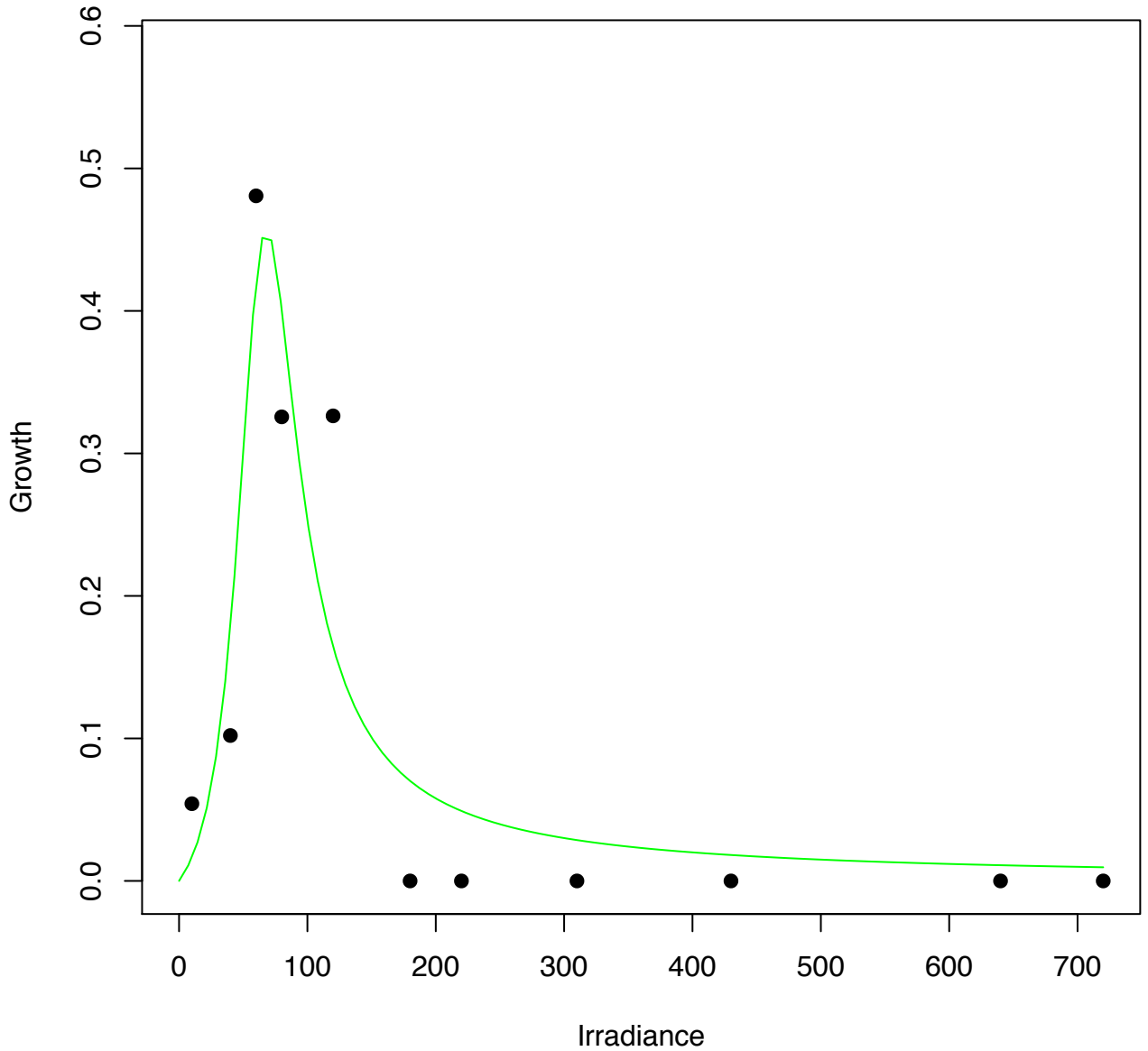
Asterionella formosa 16°C



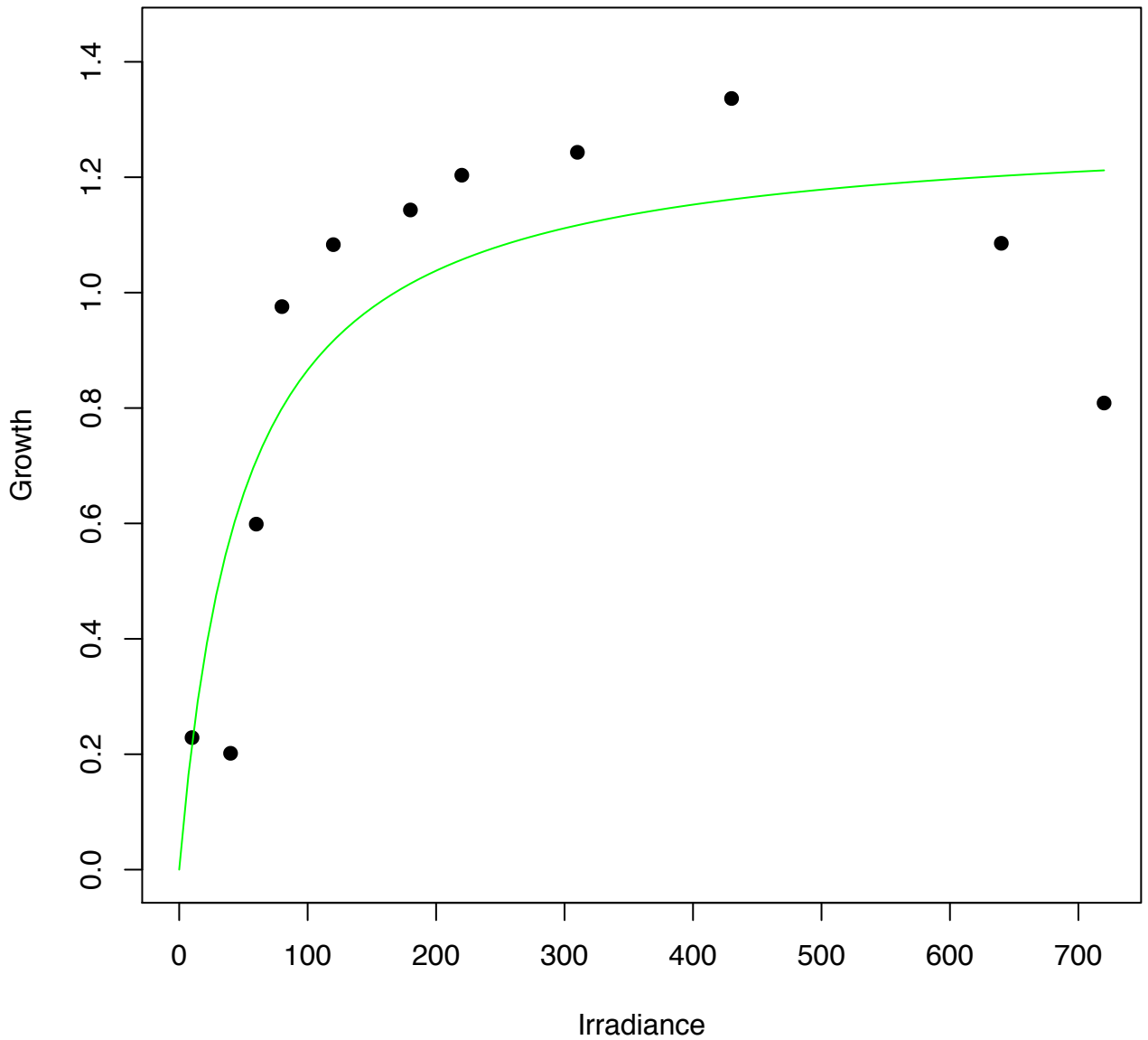
Asterionella formosa 21°C



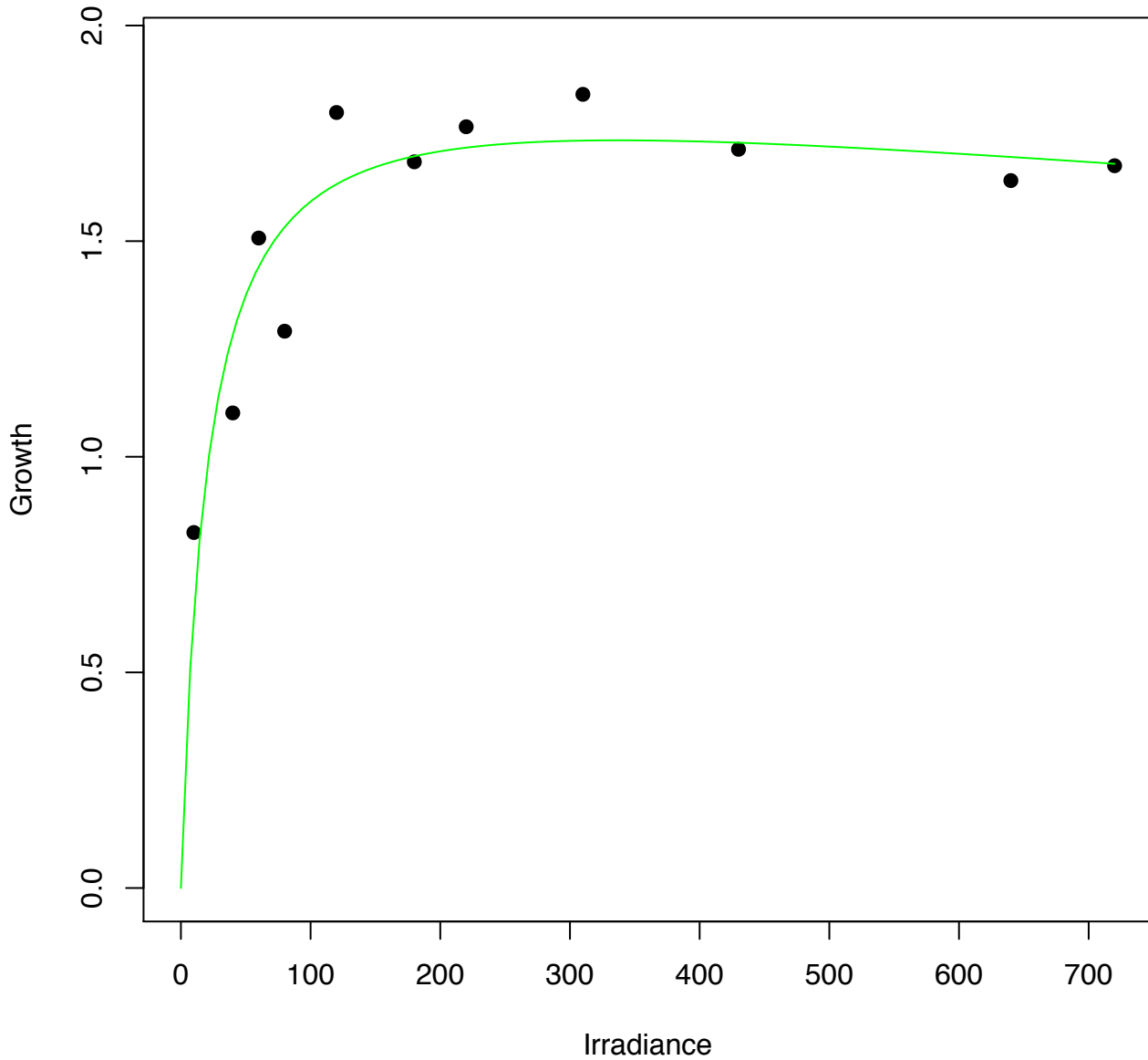
Acutodesmus obliquus 20°C



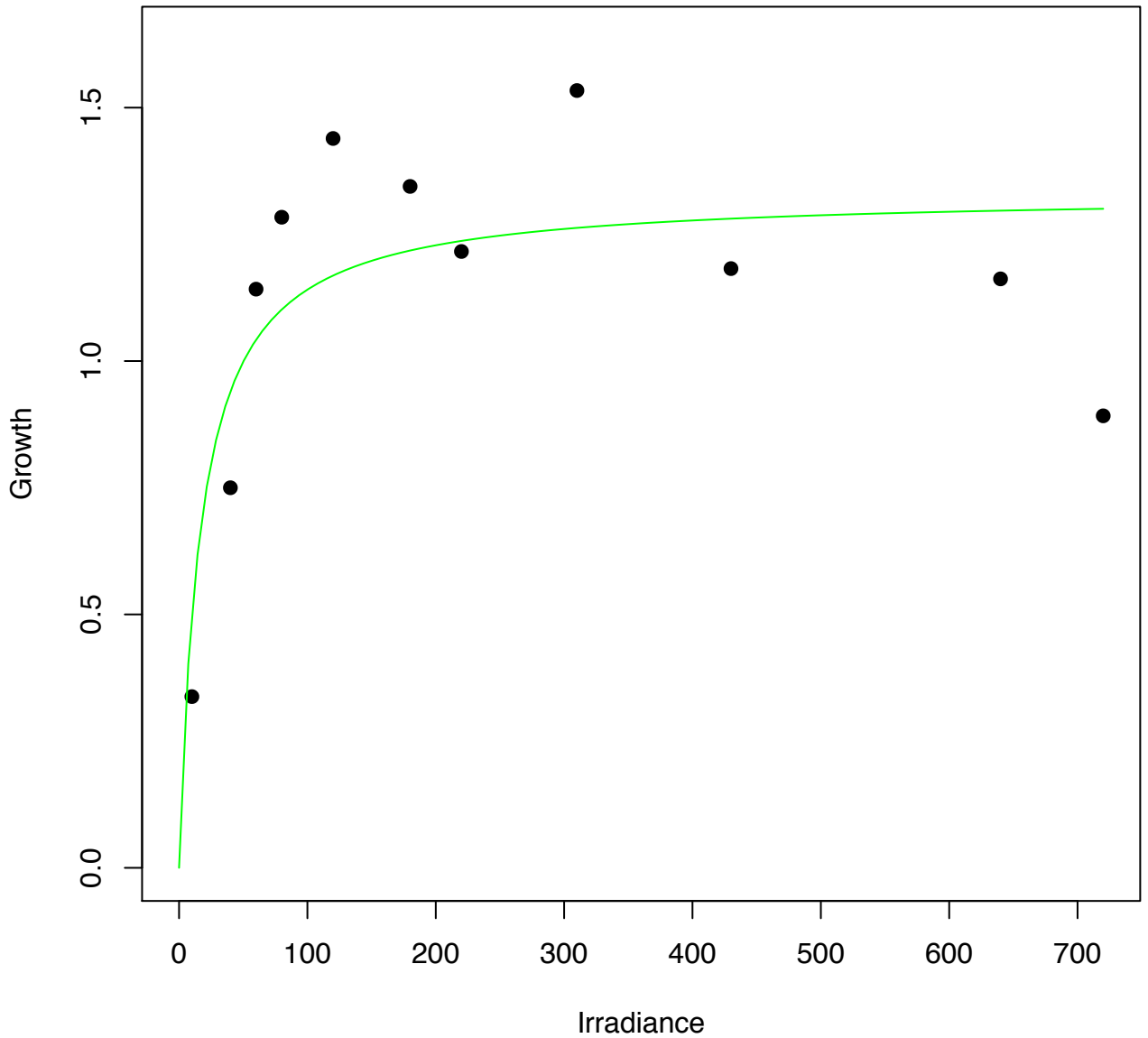
Acutodesmus obliquus 25°C



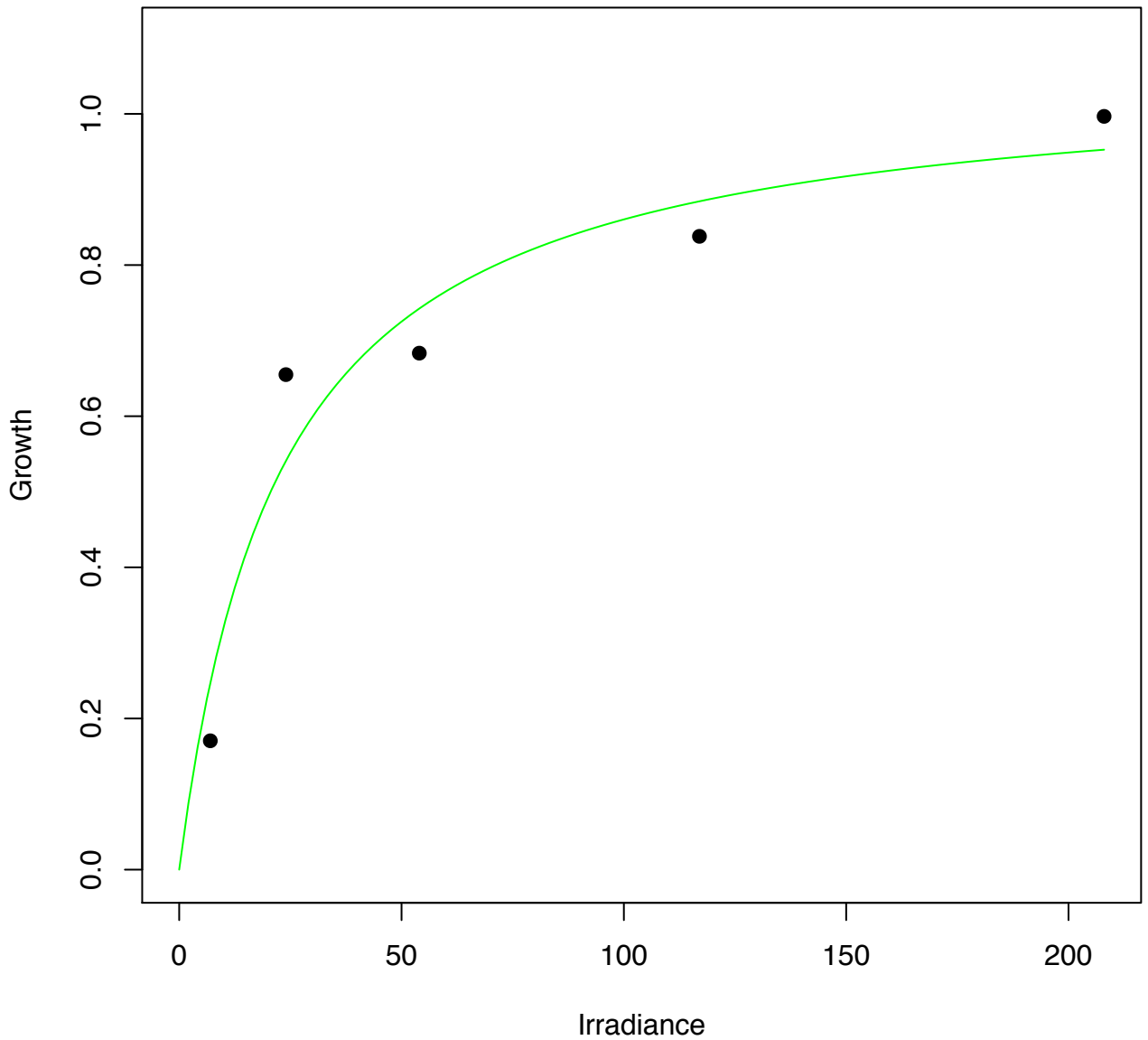
Acutodesmus obliquus 30°C



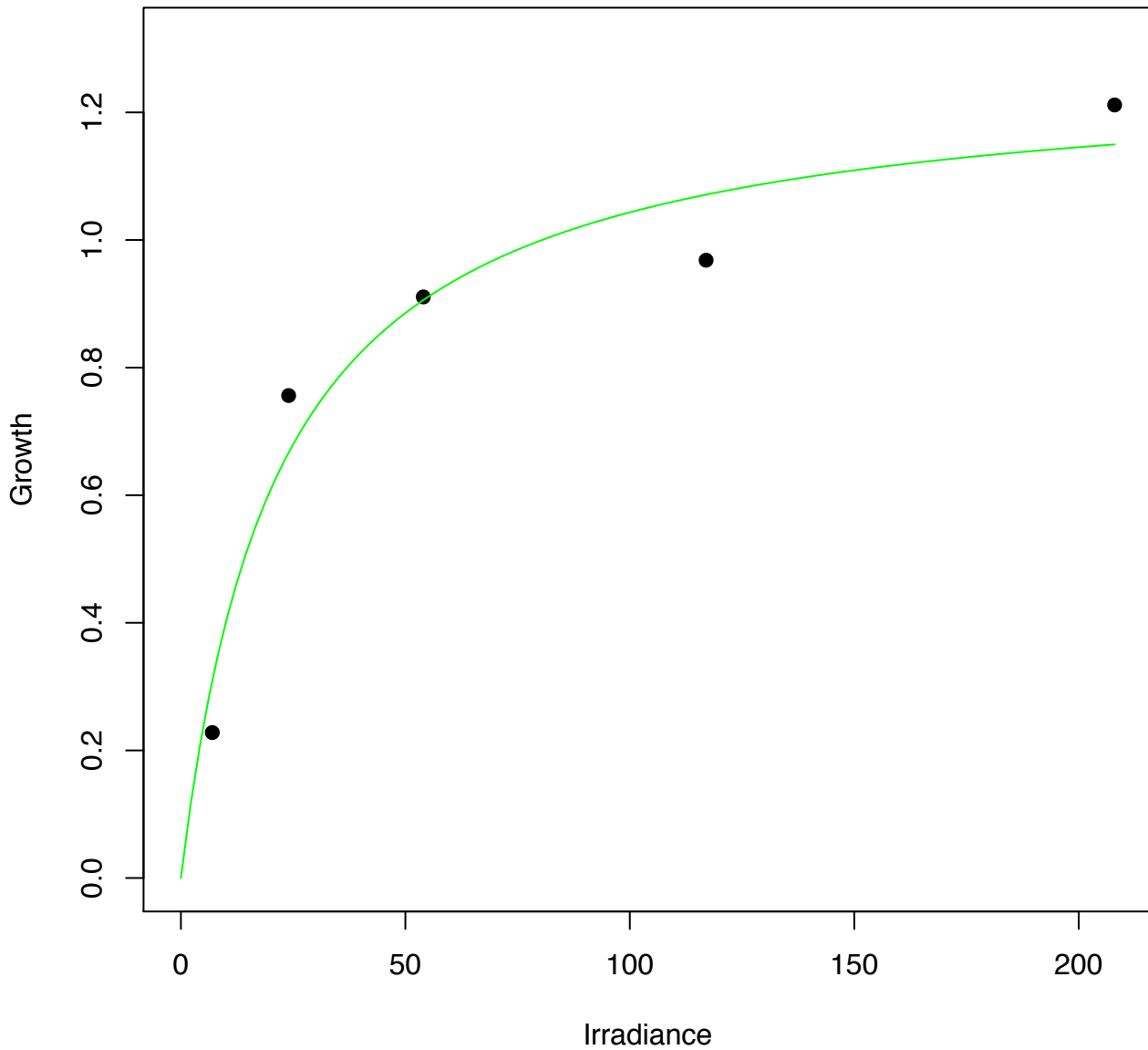
Acutodesmus obliquus 35°C



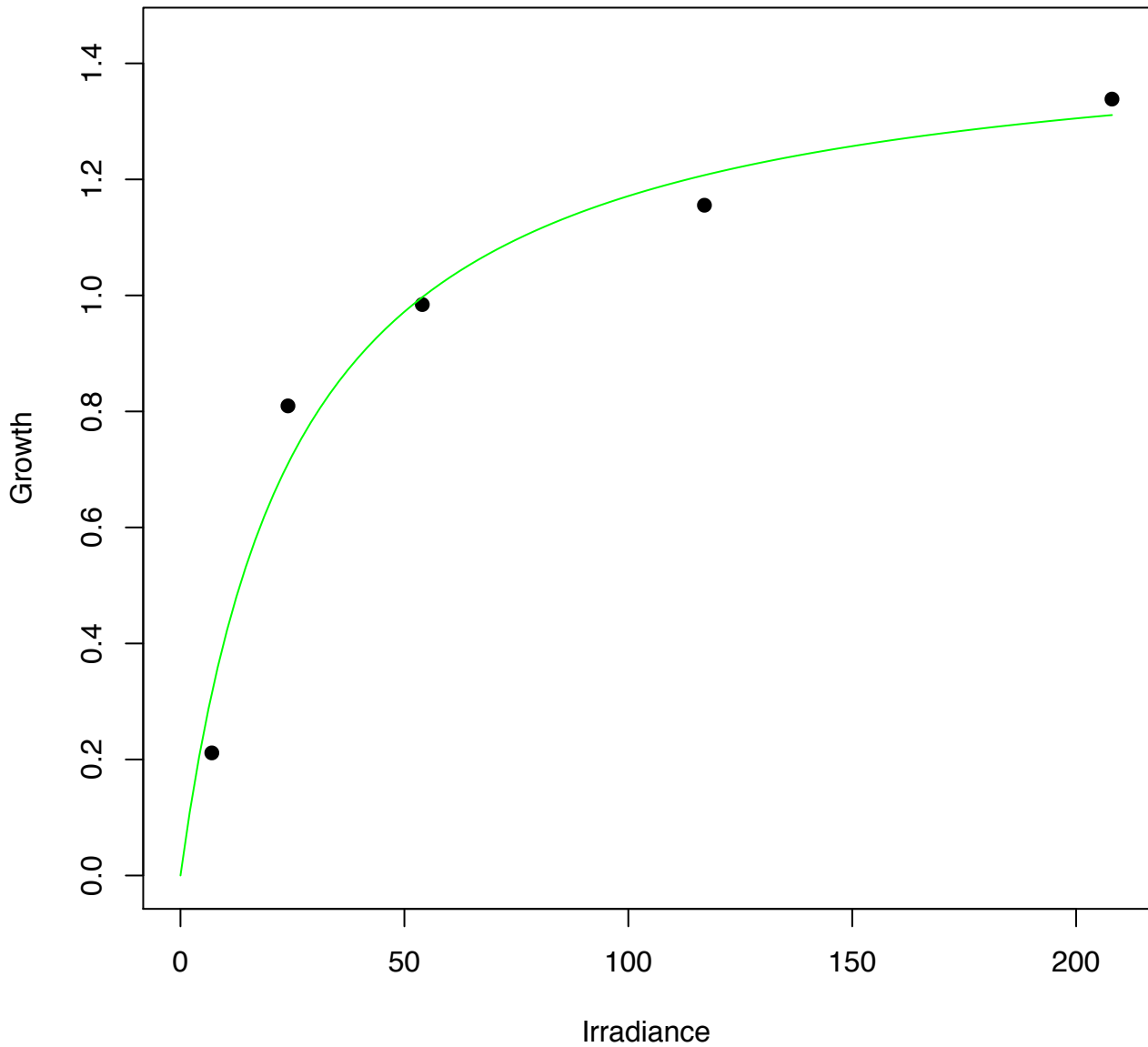
Phaeodactylum tricornutum 14°C



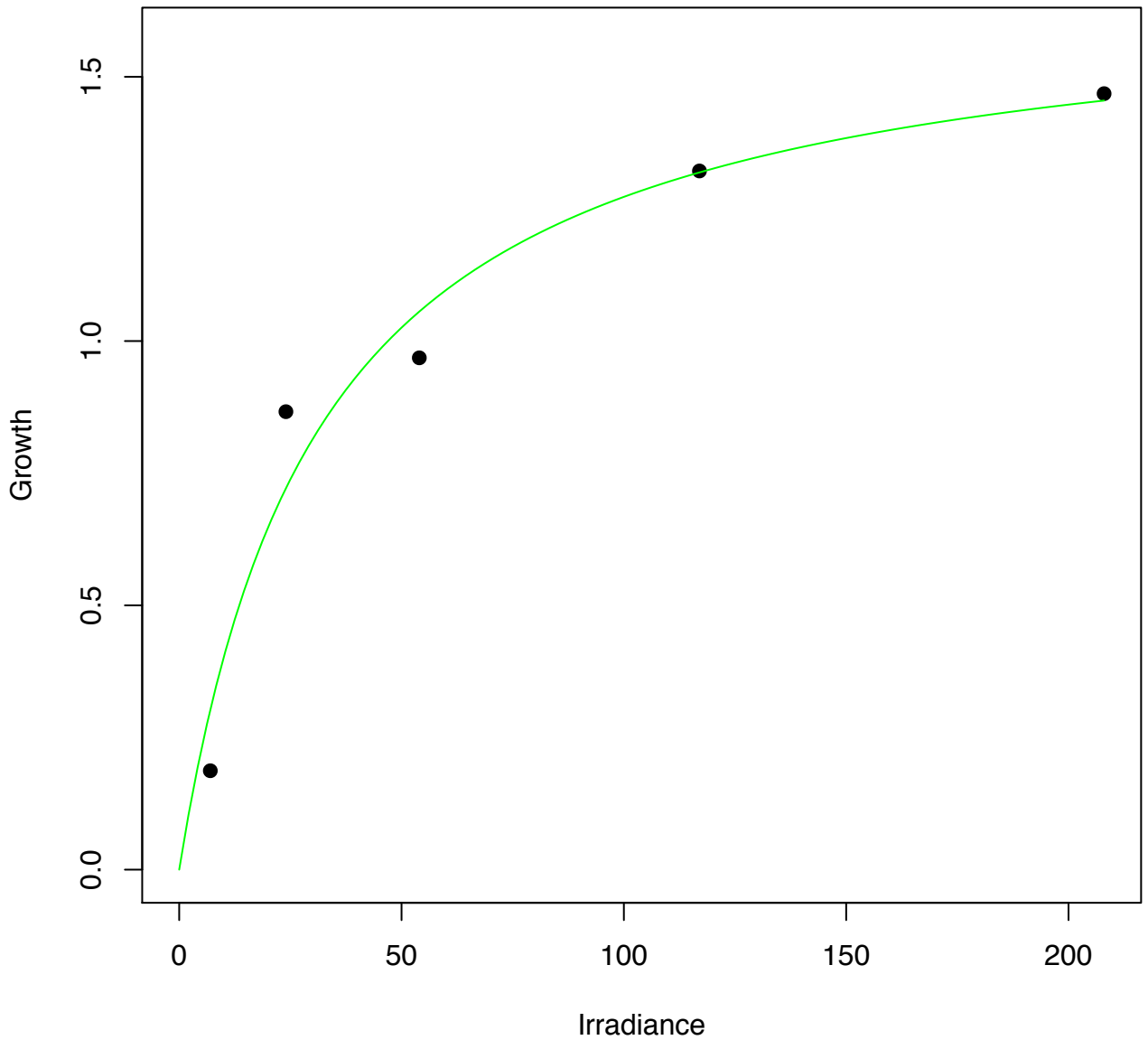
Phaeodactylum tricornutum 16°C



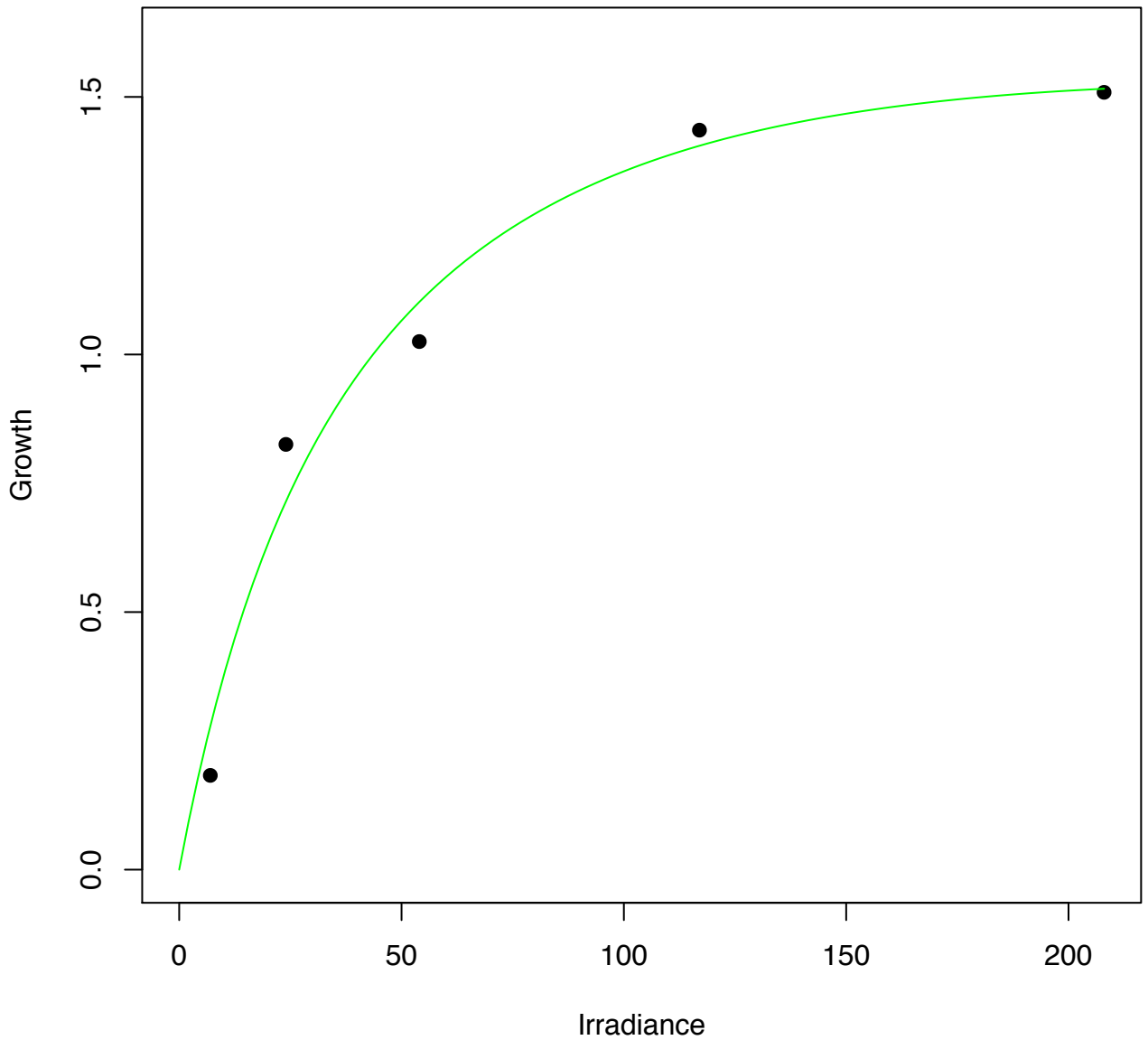
Phaeodactylum tricornutum 19°C



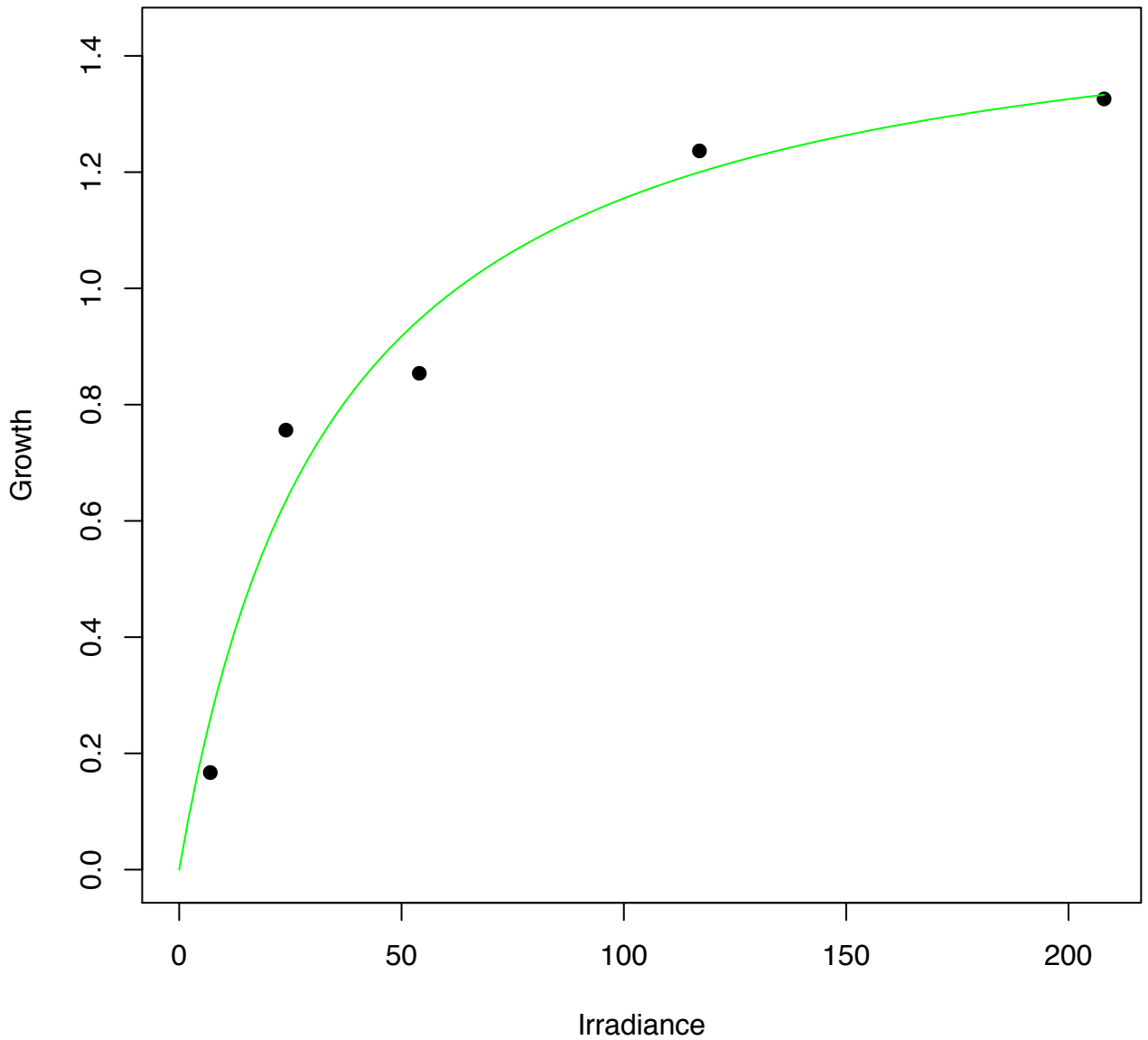
Phaeodactylum tricornutum 21°C



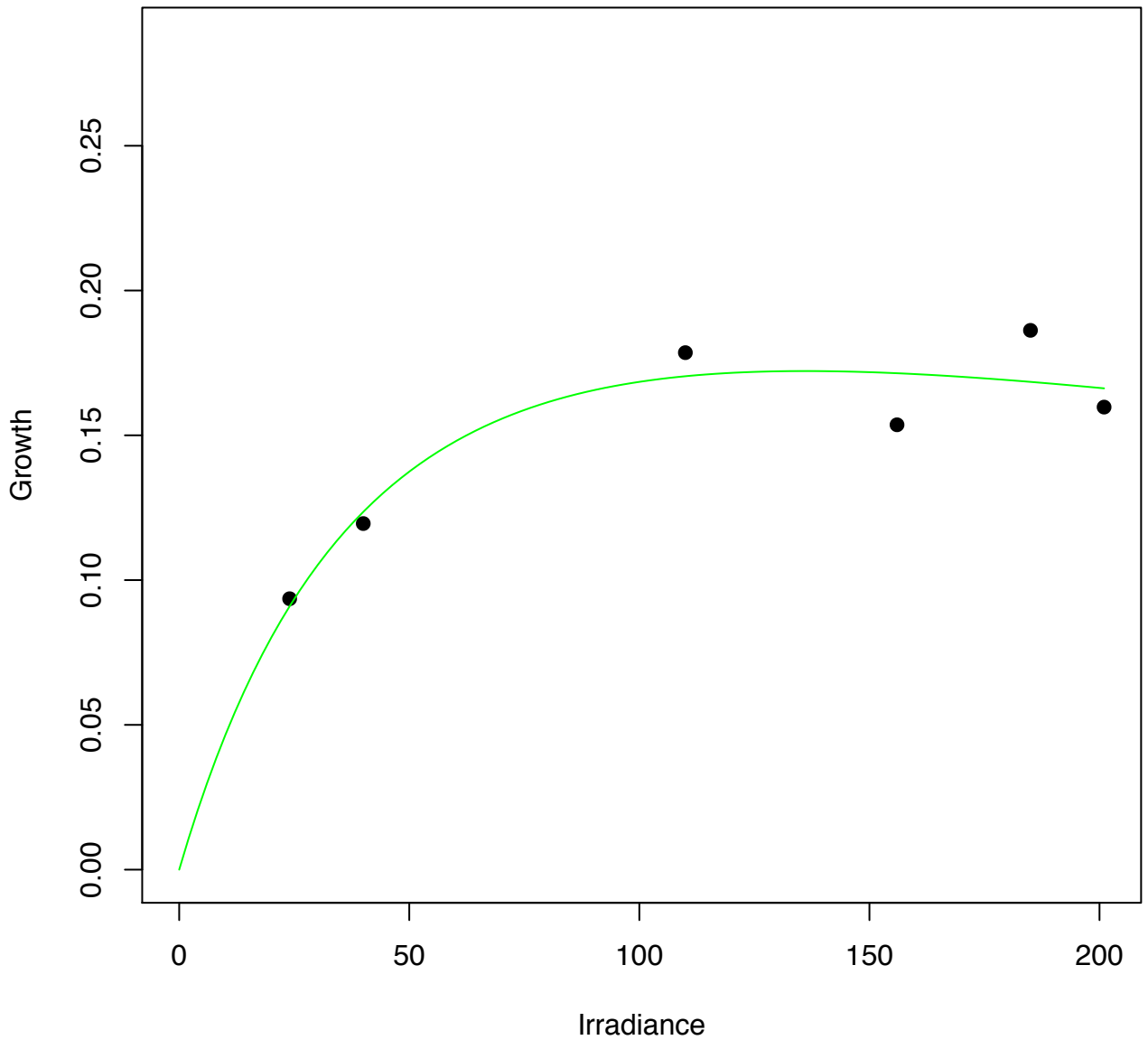
Phaeodactylum tricornutum 23°C



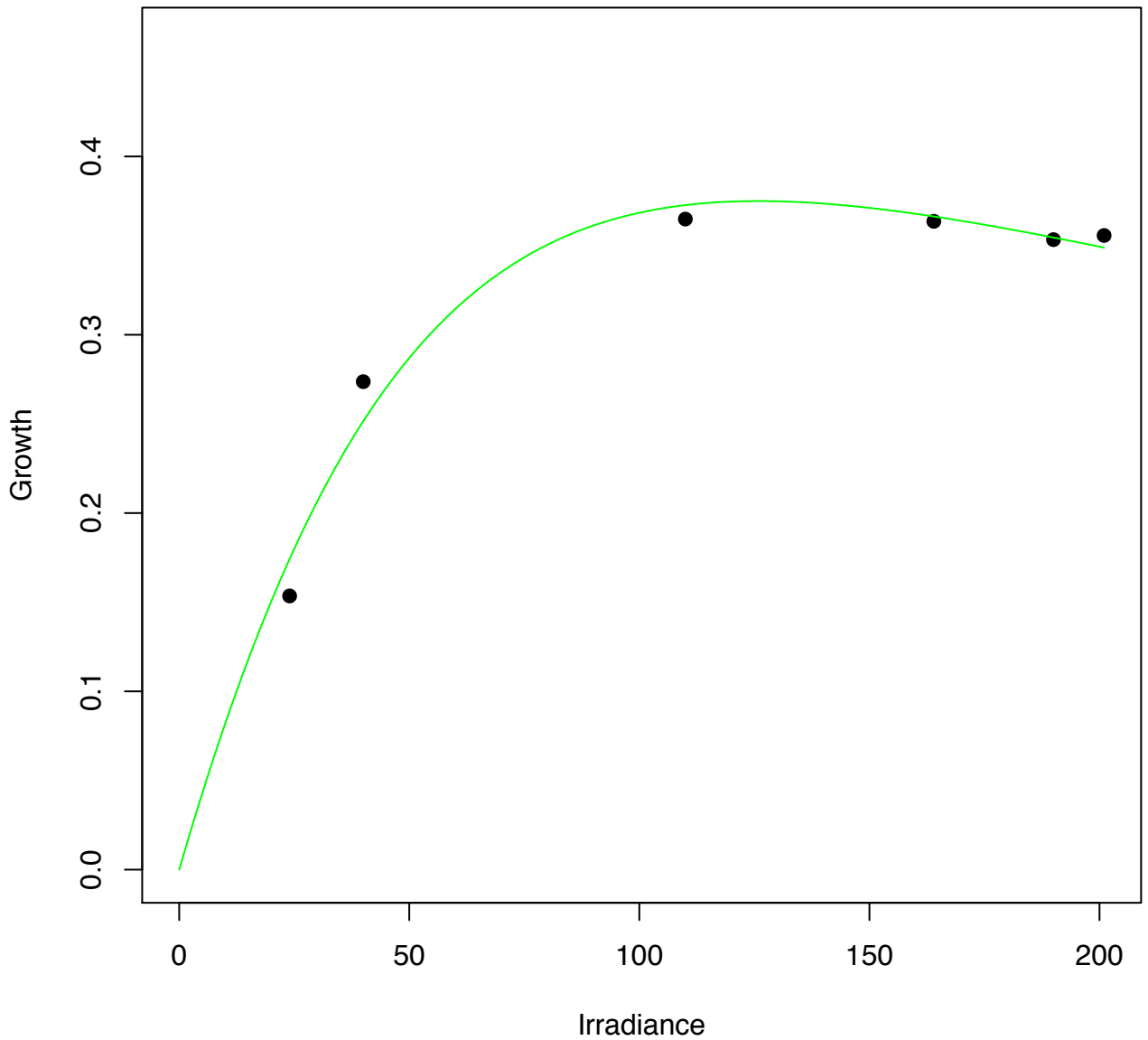
Phaeodactylum tricornutum 25°C



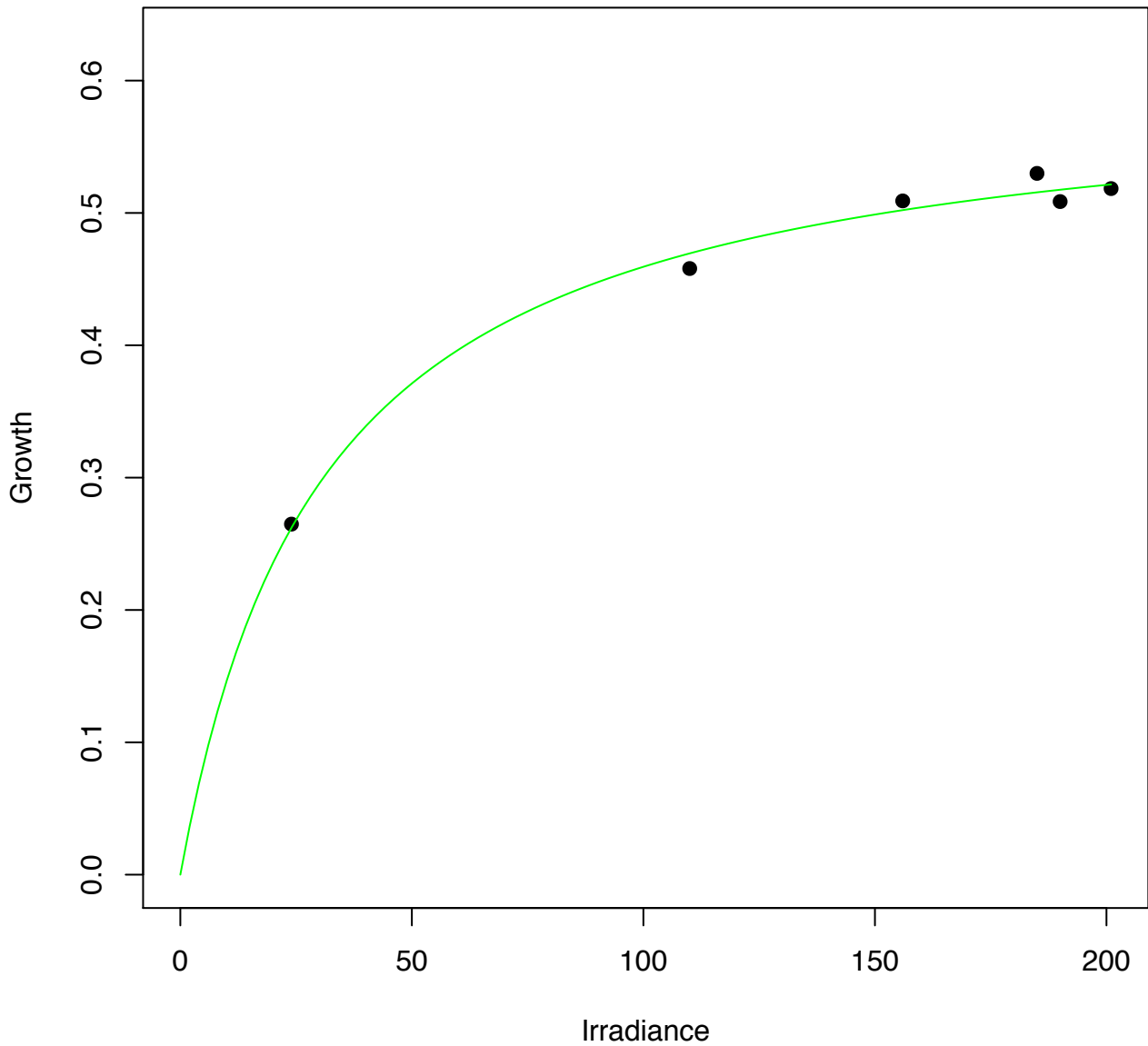
Fragilaria crotonensis 5°C



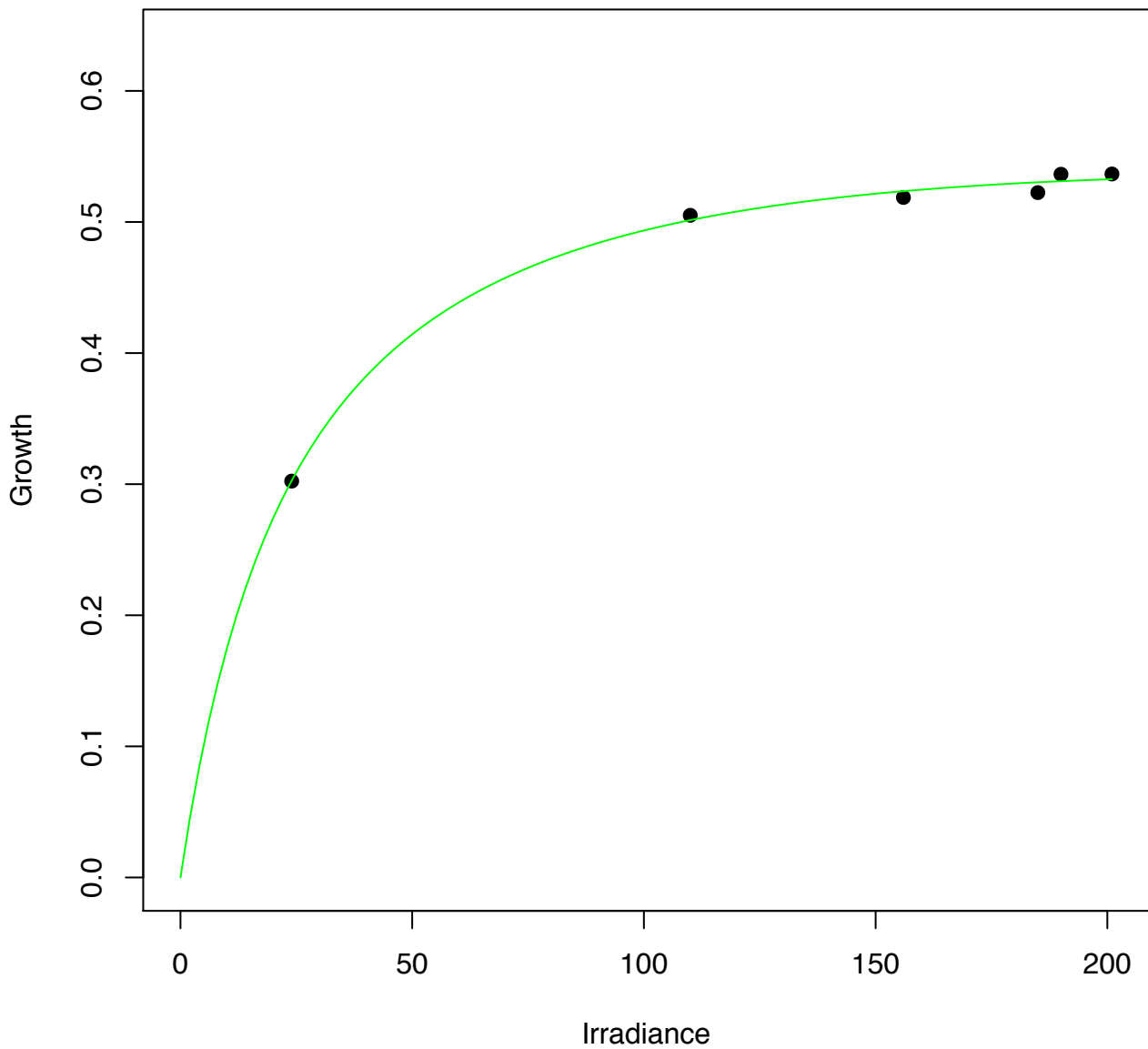
Fragilaria crotonensis 11°C



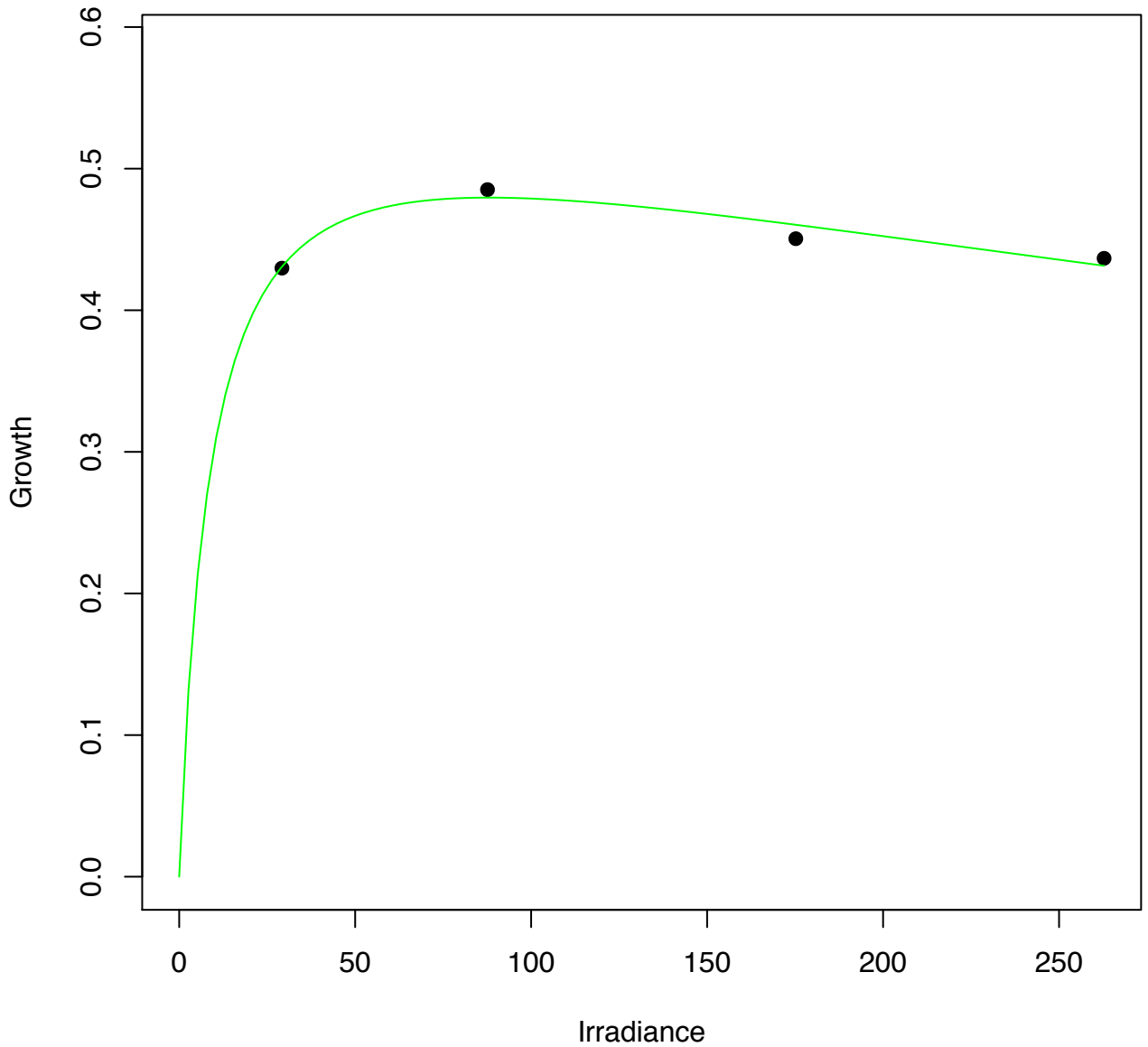
Fragilaria crotonensis 17°C



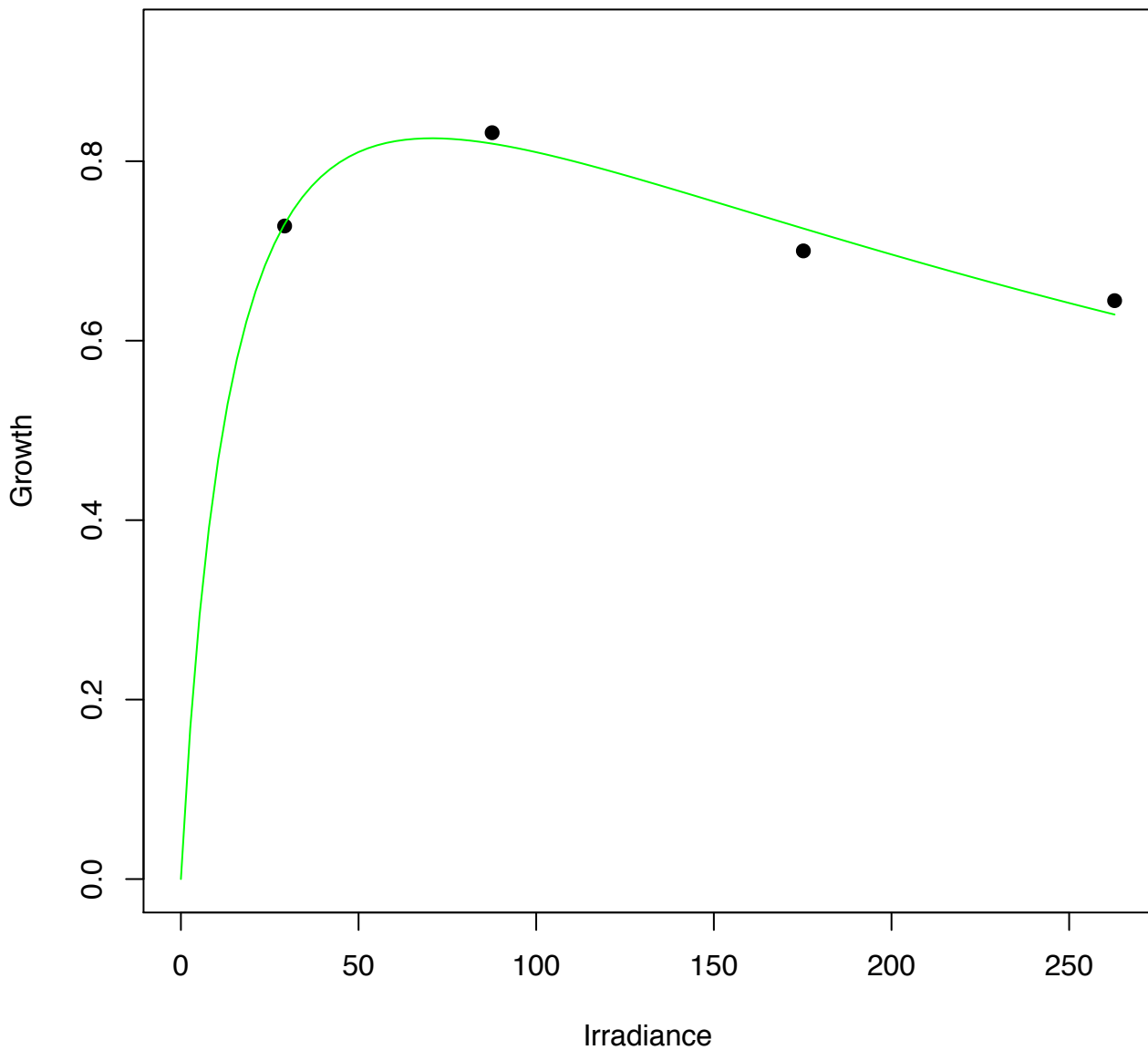
Fragilaria crotonensis 23°C



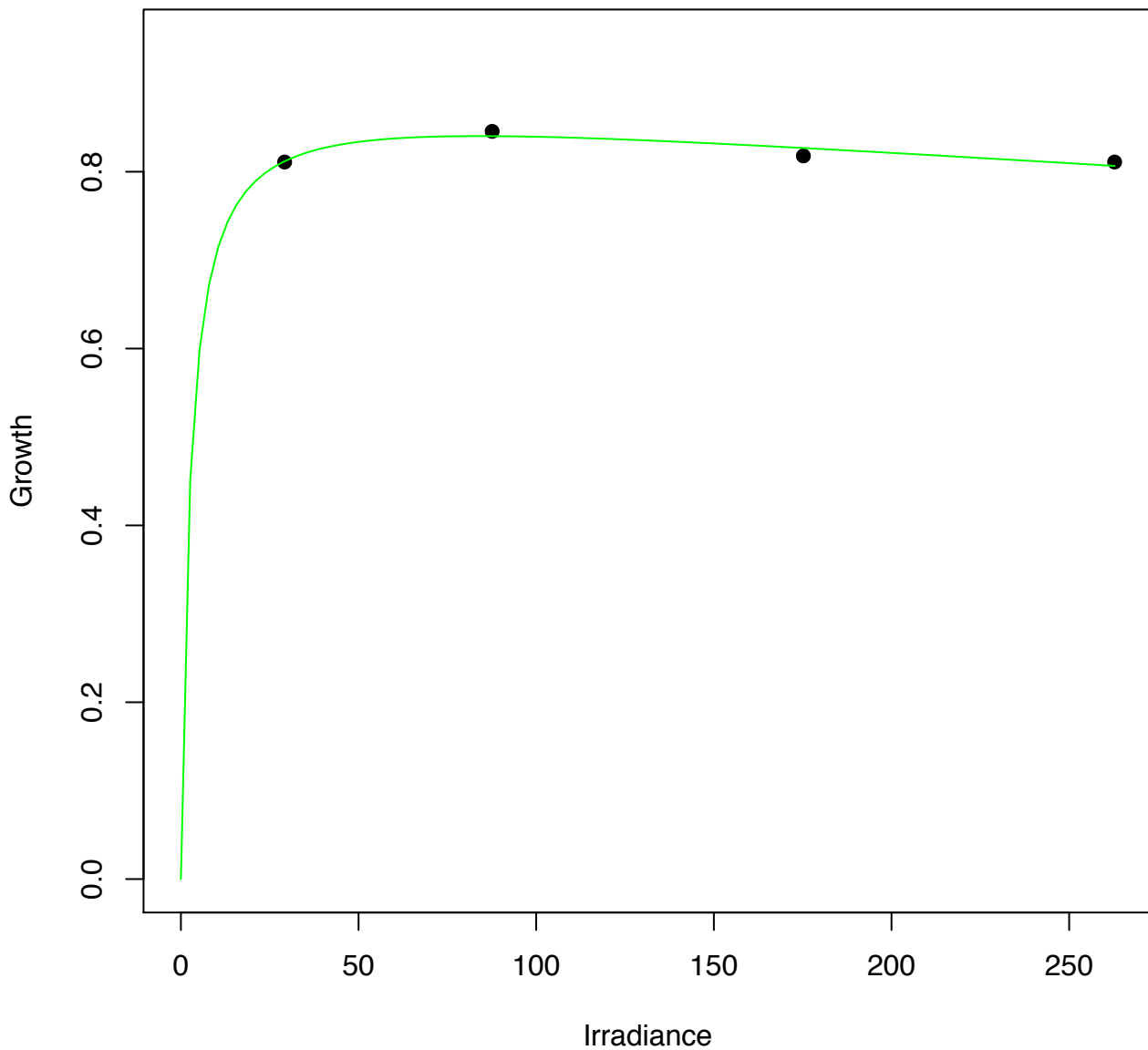
Dactyliosolen fragilissimus 9°C



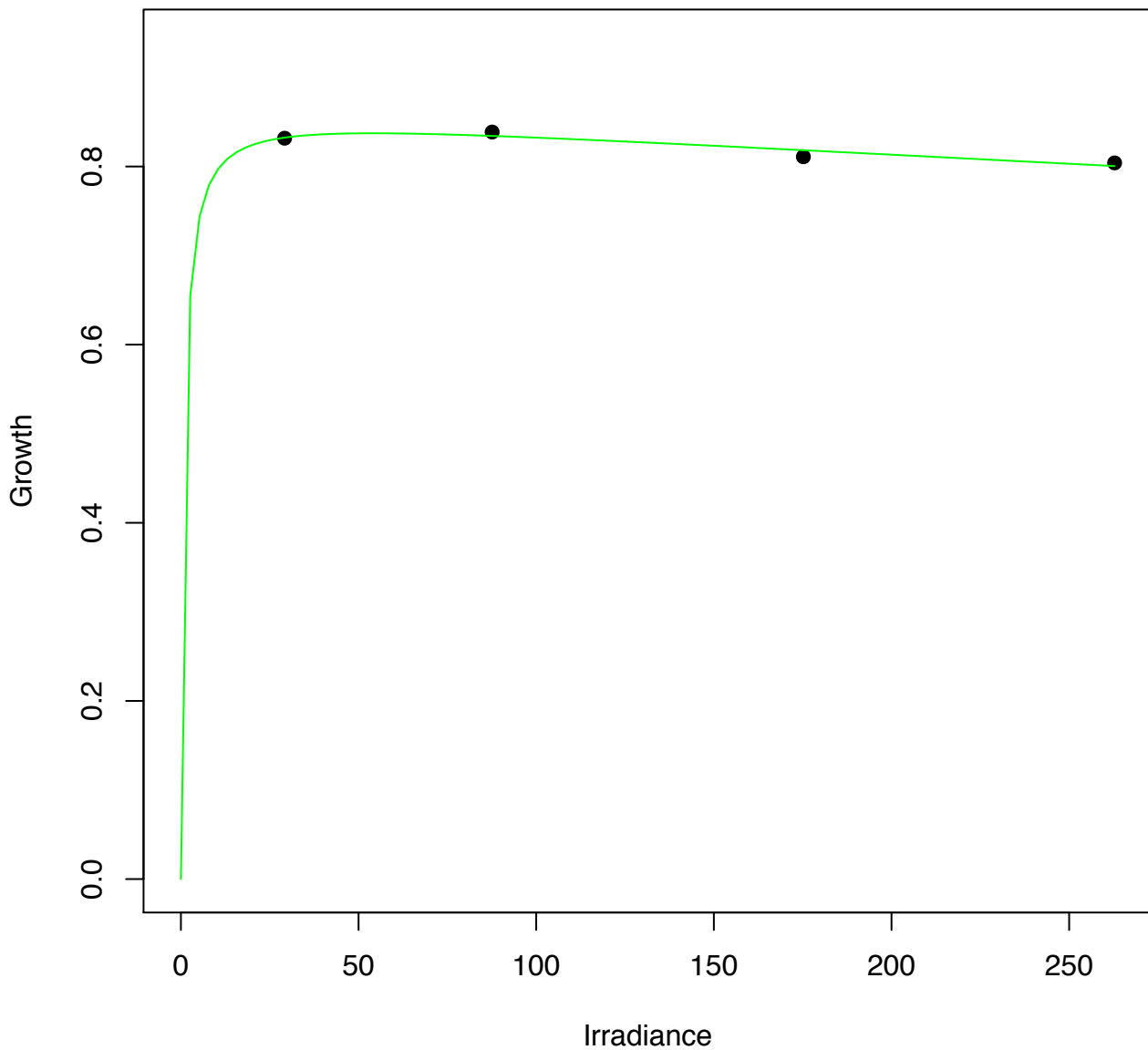
Dactyliosolen fragilissimus 12°C



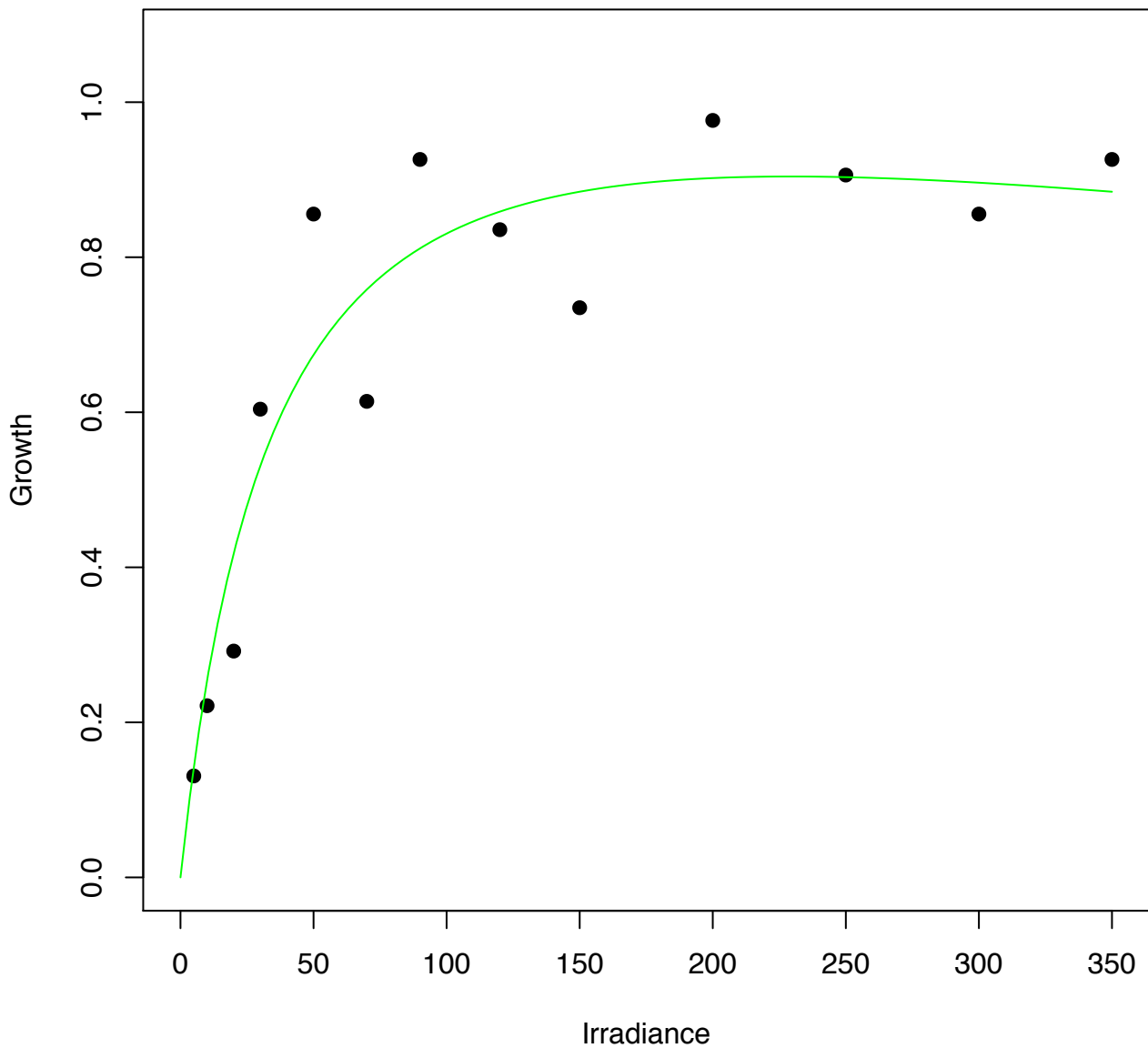
Dactyliosolen fragilissimus 18°C



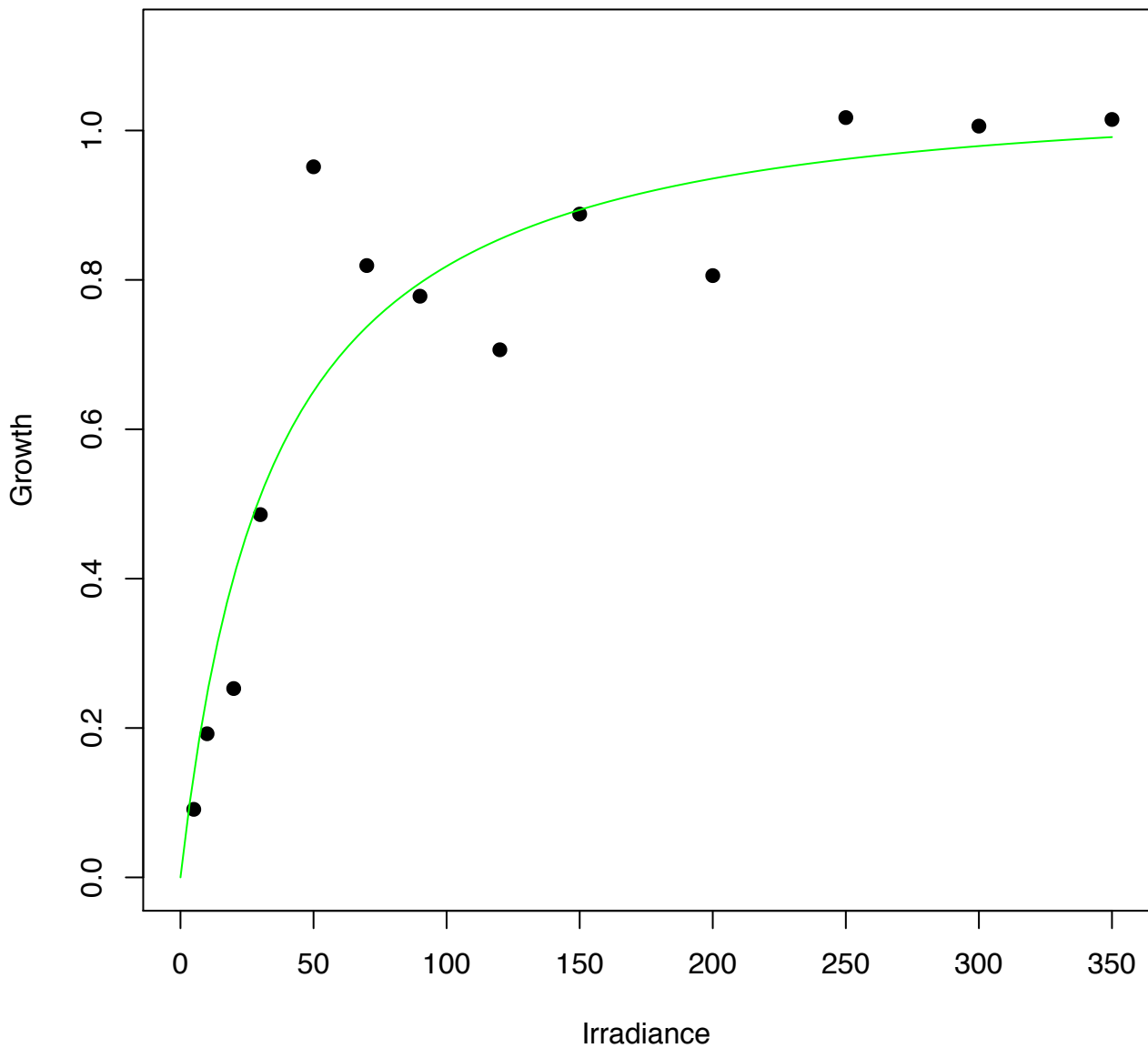
Dactyliosolen fragilissimus 25°C



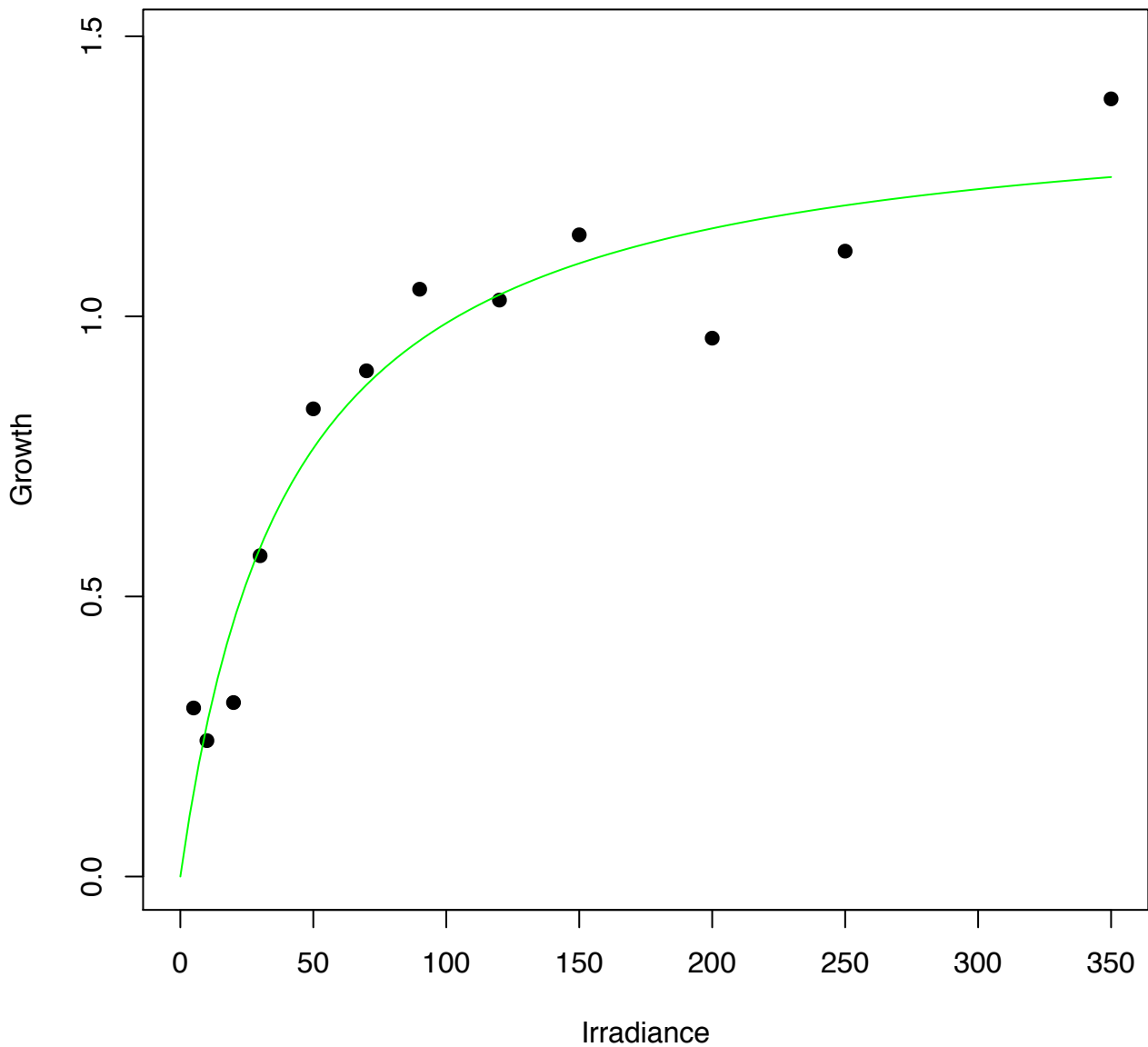
Eucampia zodiacus 8°C



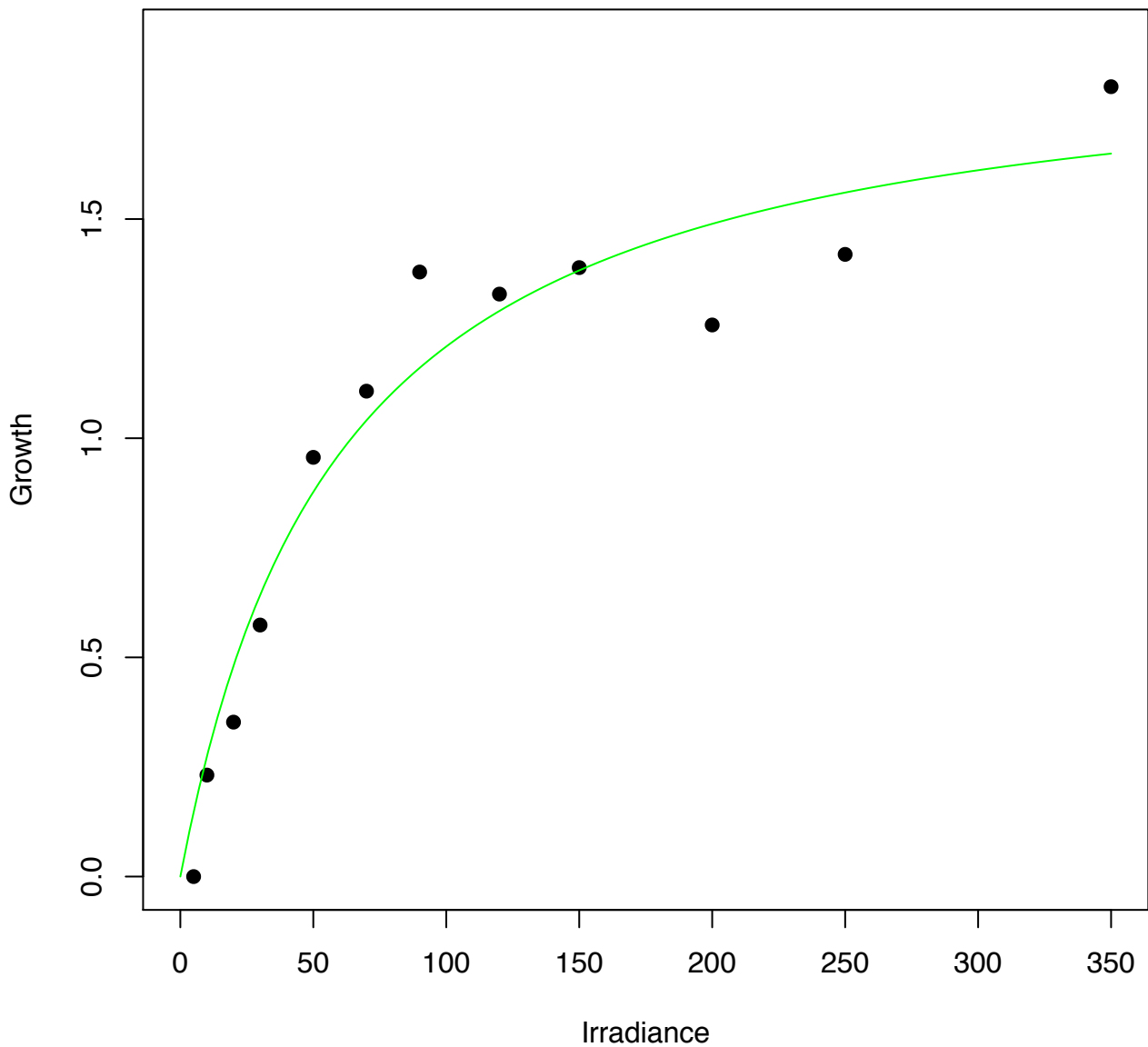
Eucampia zodiacus 9°C



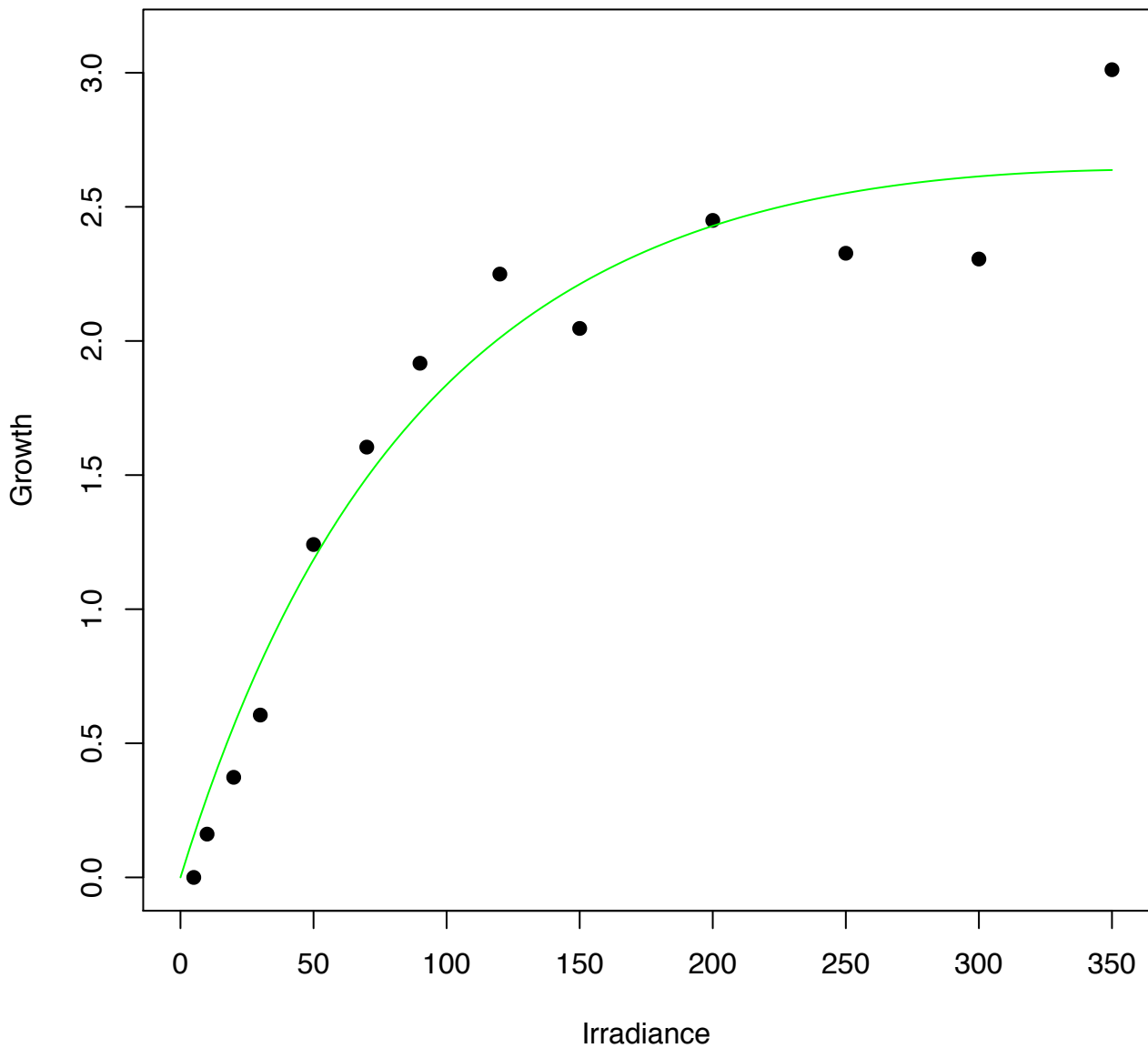
Eucampia zodiacus 12°C



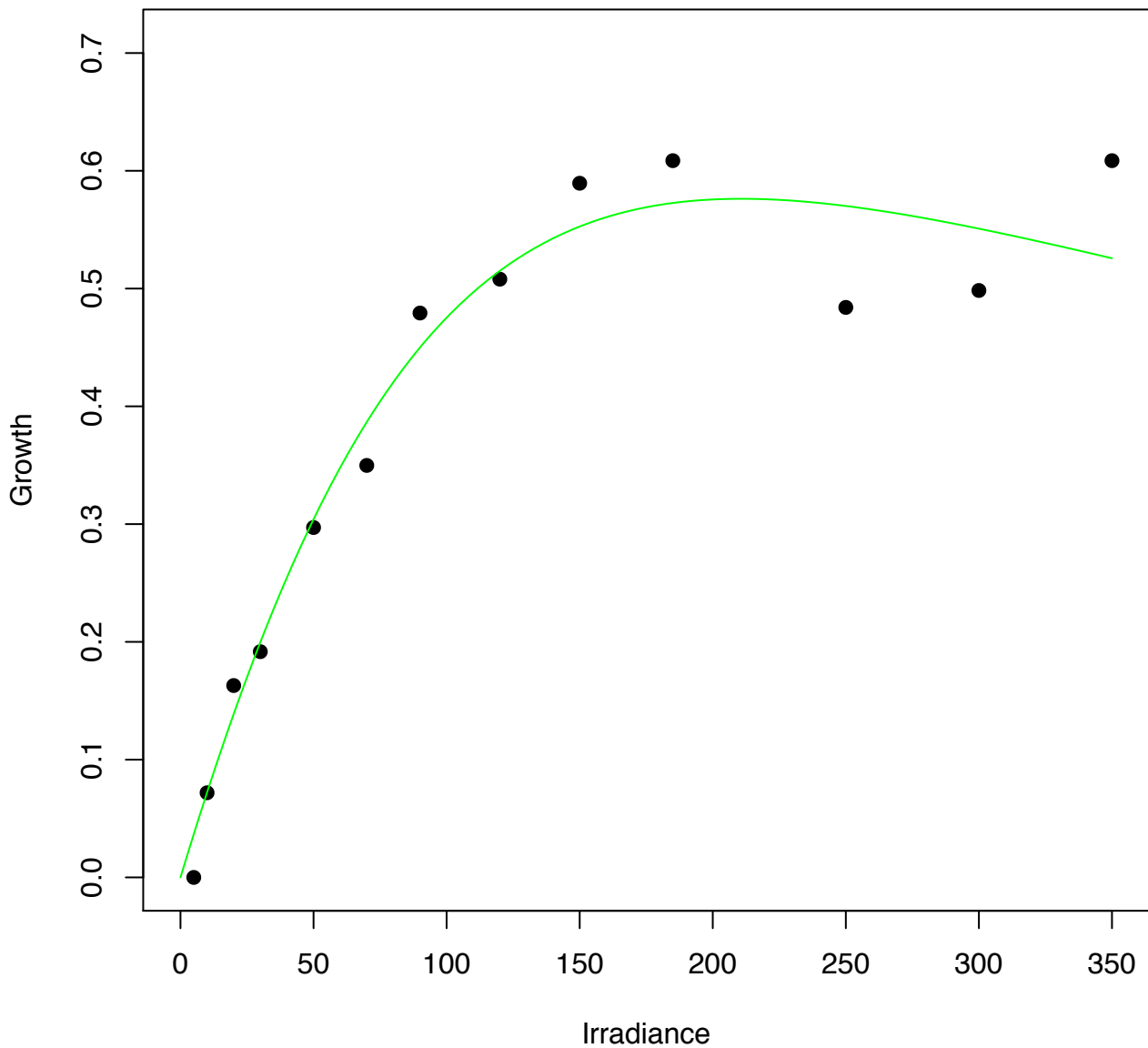
Eucampia zodiacus 15°C



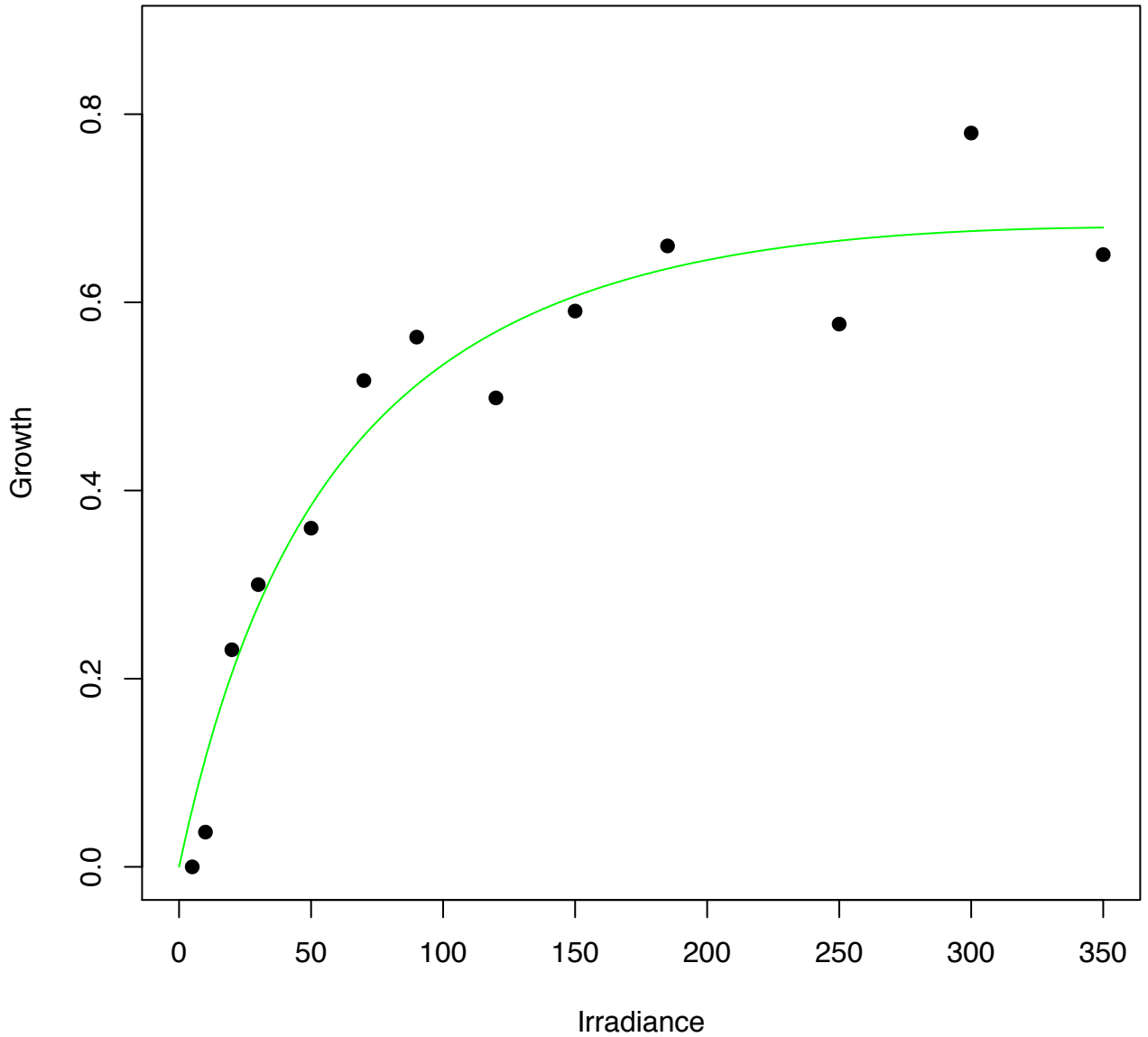
Eucampia zodiacus 25°C



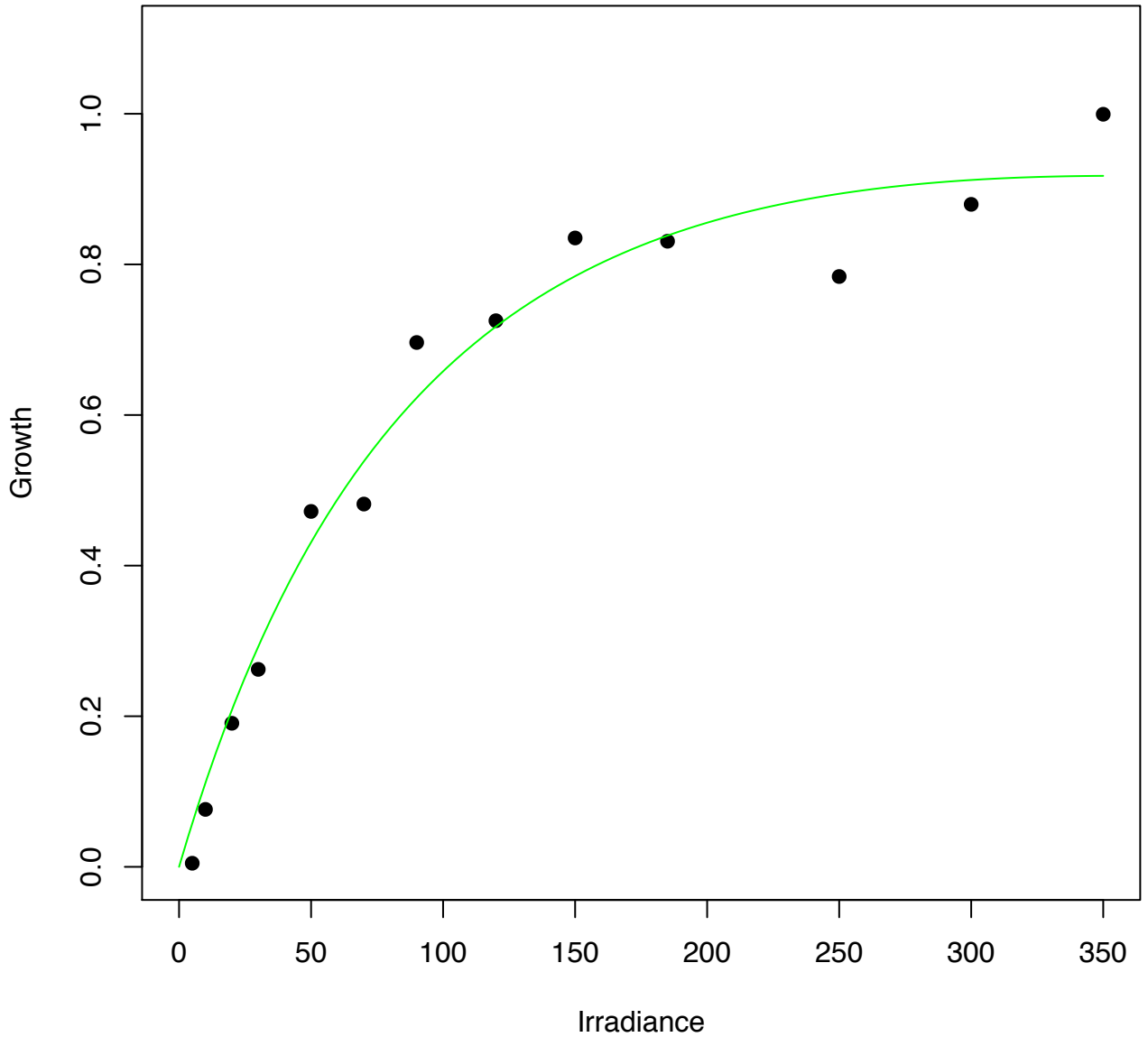
Coscinodiscus wailesii 9°C



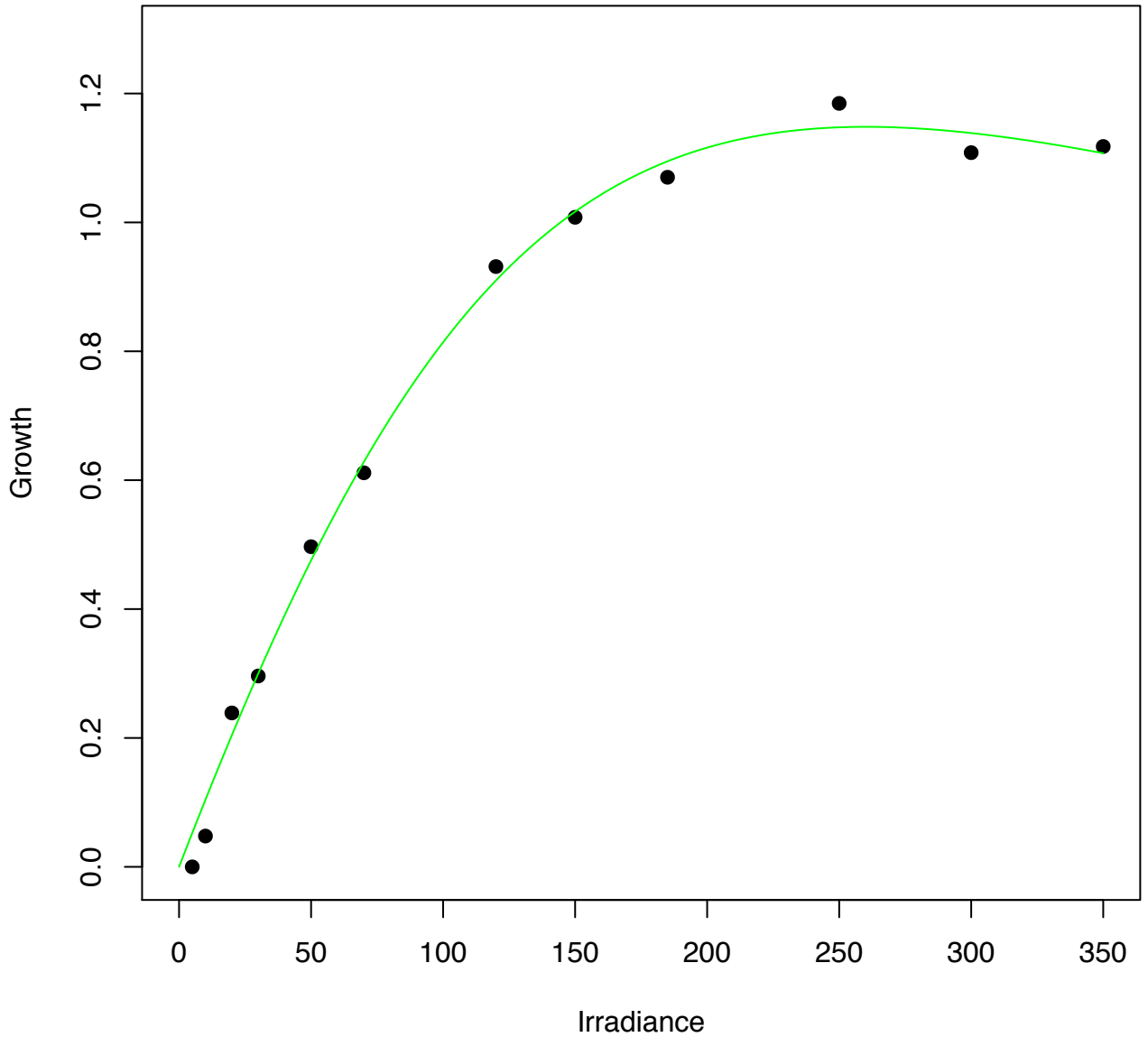
Coscinodiscus wailesii 12°C



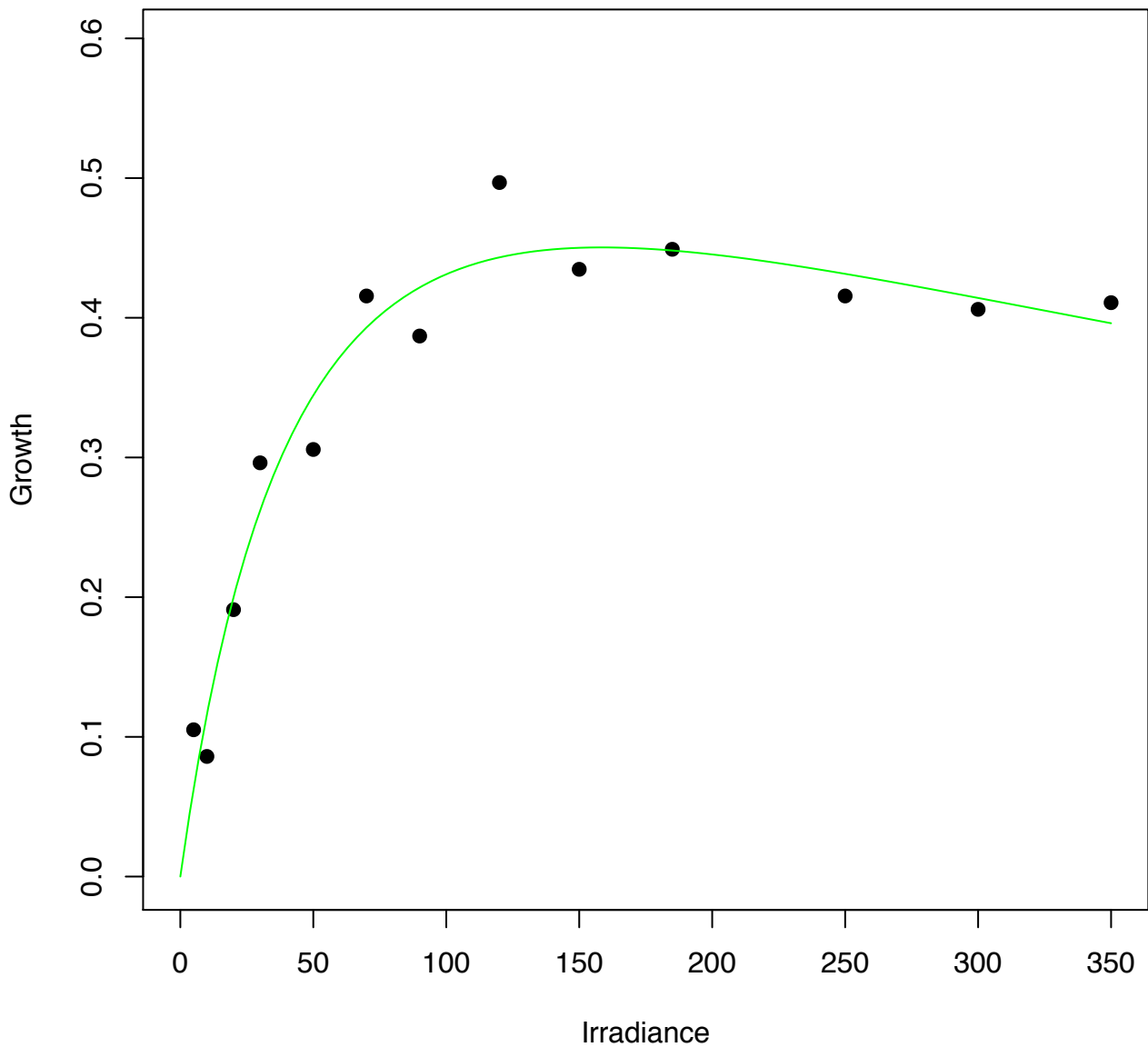
Coscinodiscus wailesii 15°C



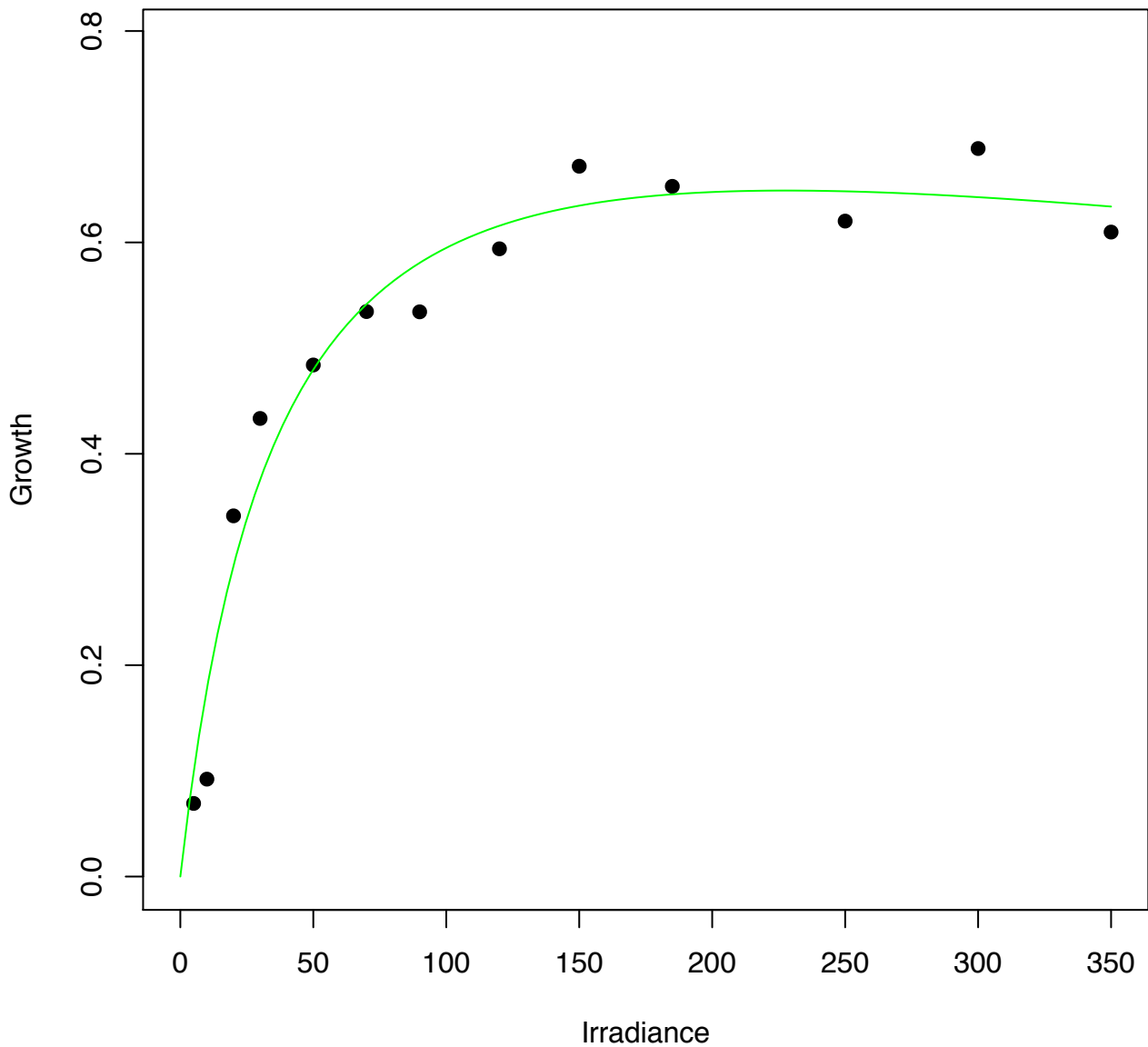
Coscinodiscus wailesii 20°C



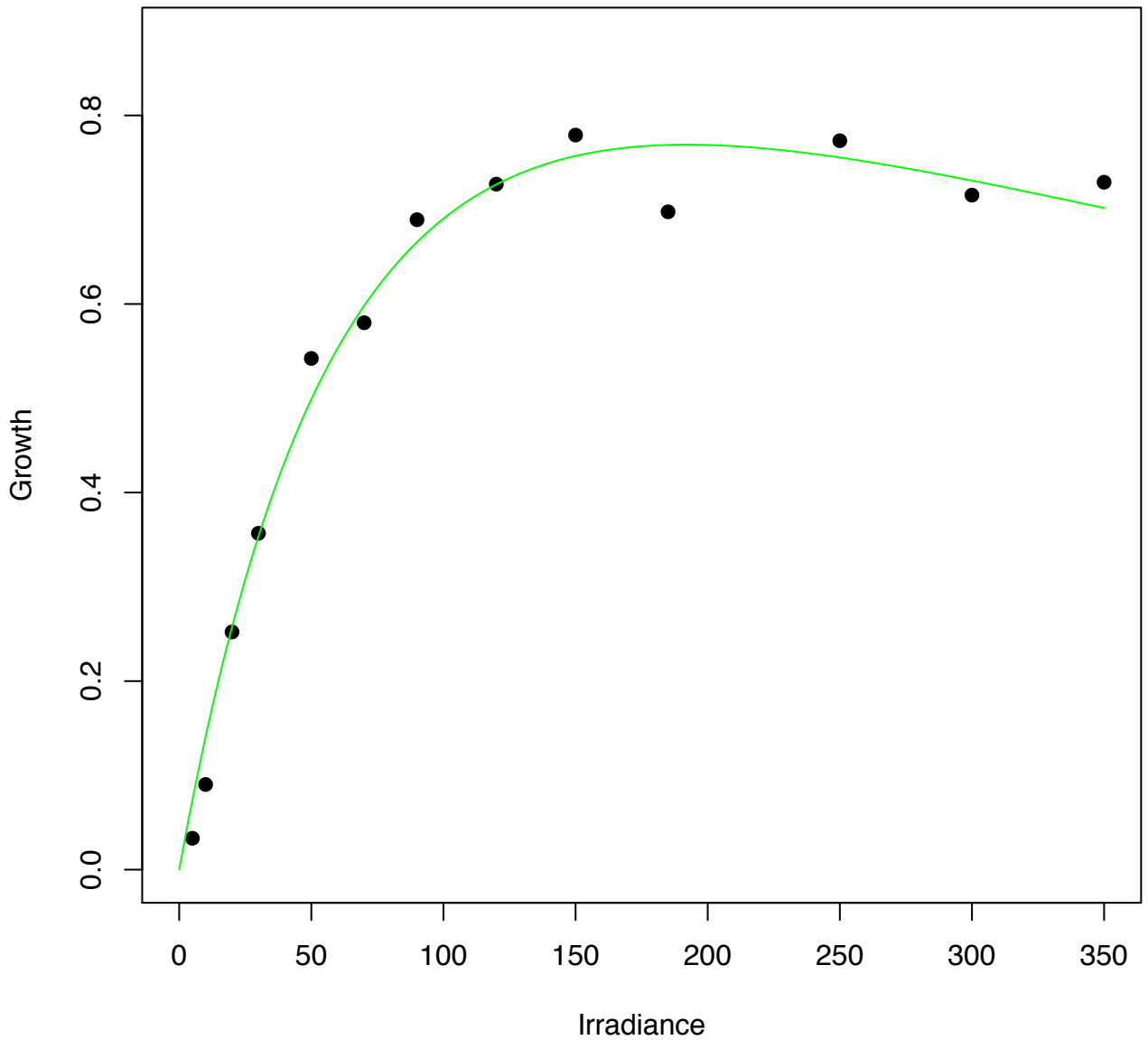
Coscinodiscus granii 9°C



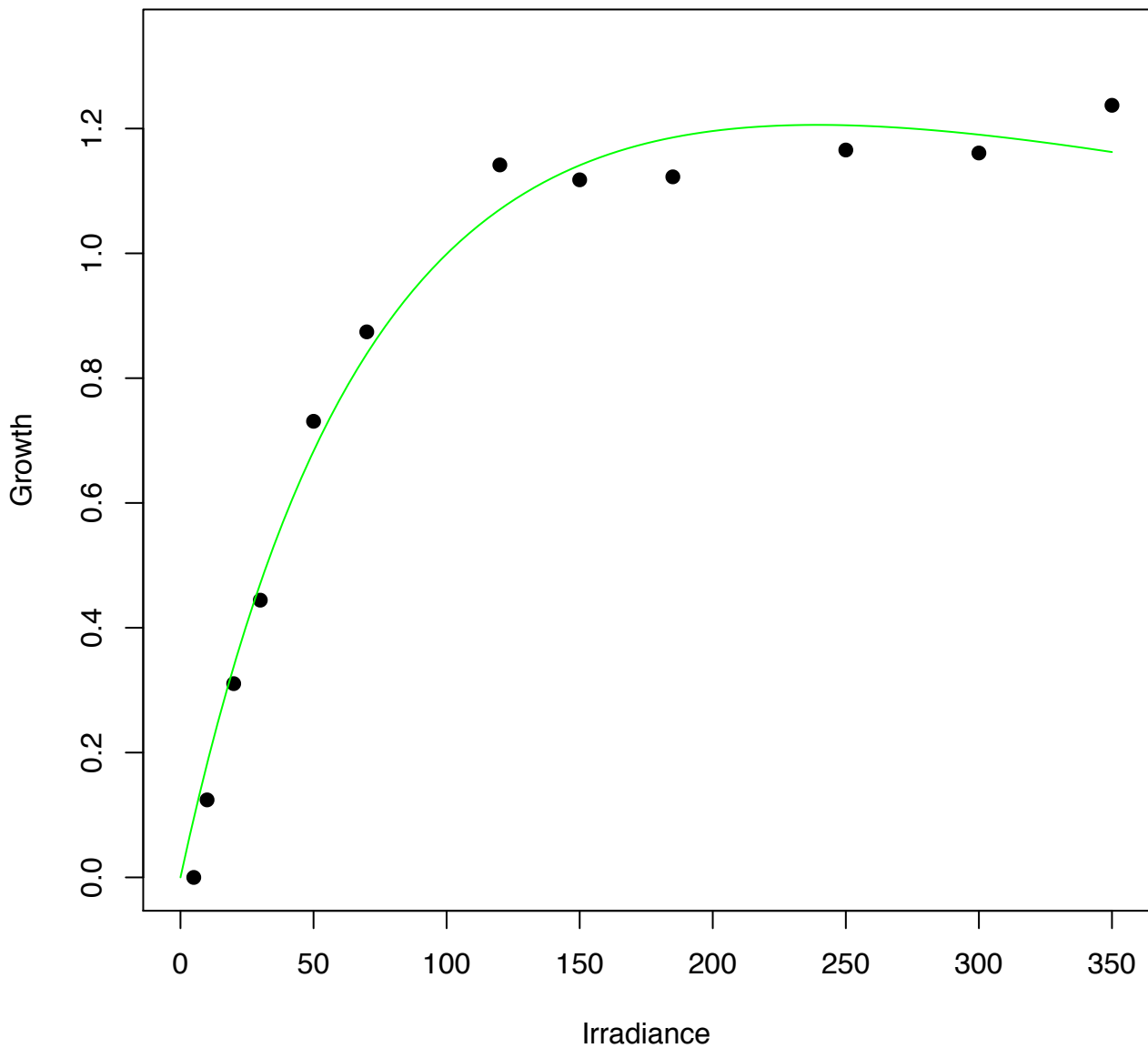
Coscinodiscus granii 12°C



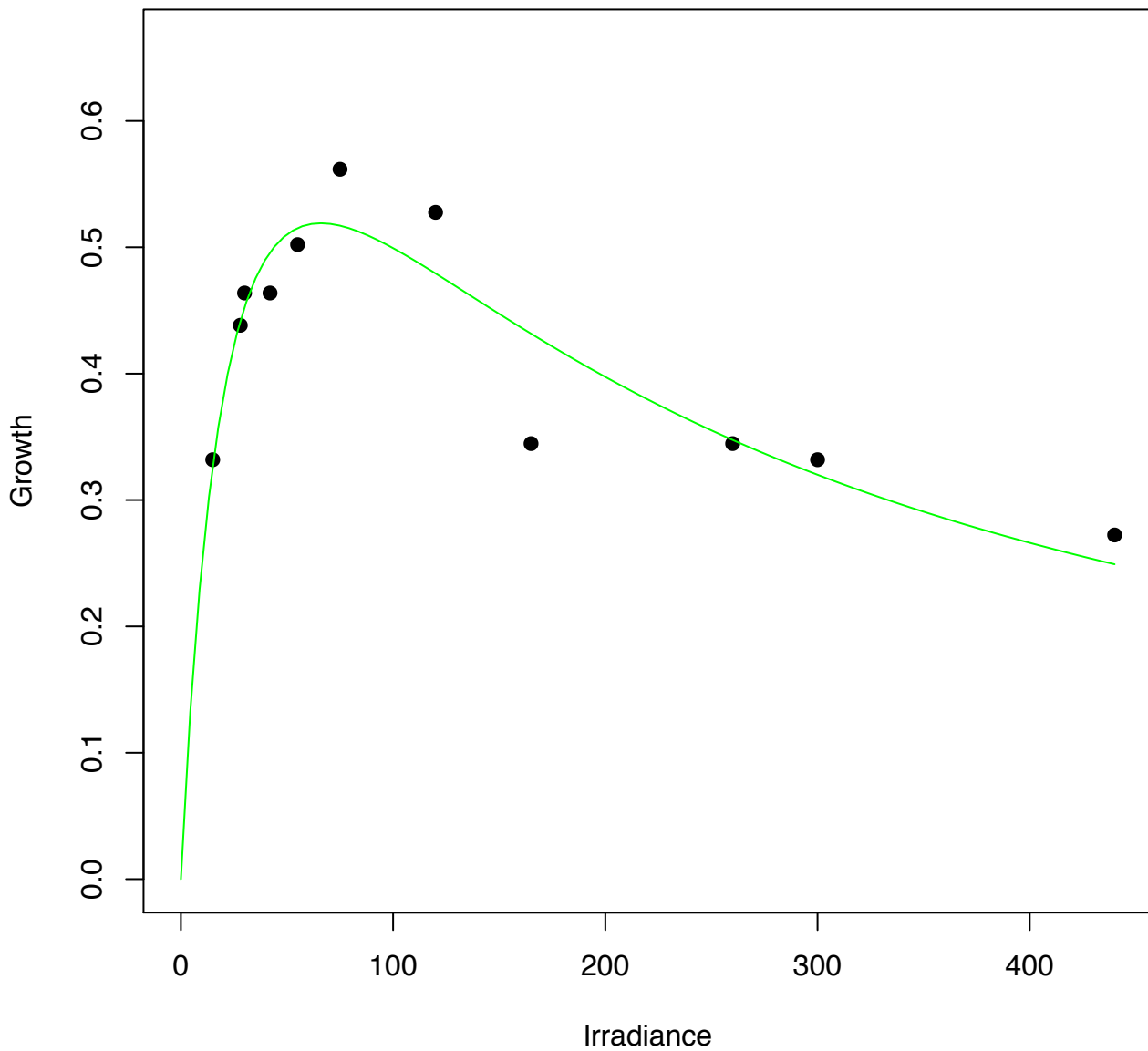
Coscinodiscus granii 15°C



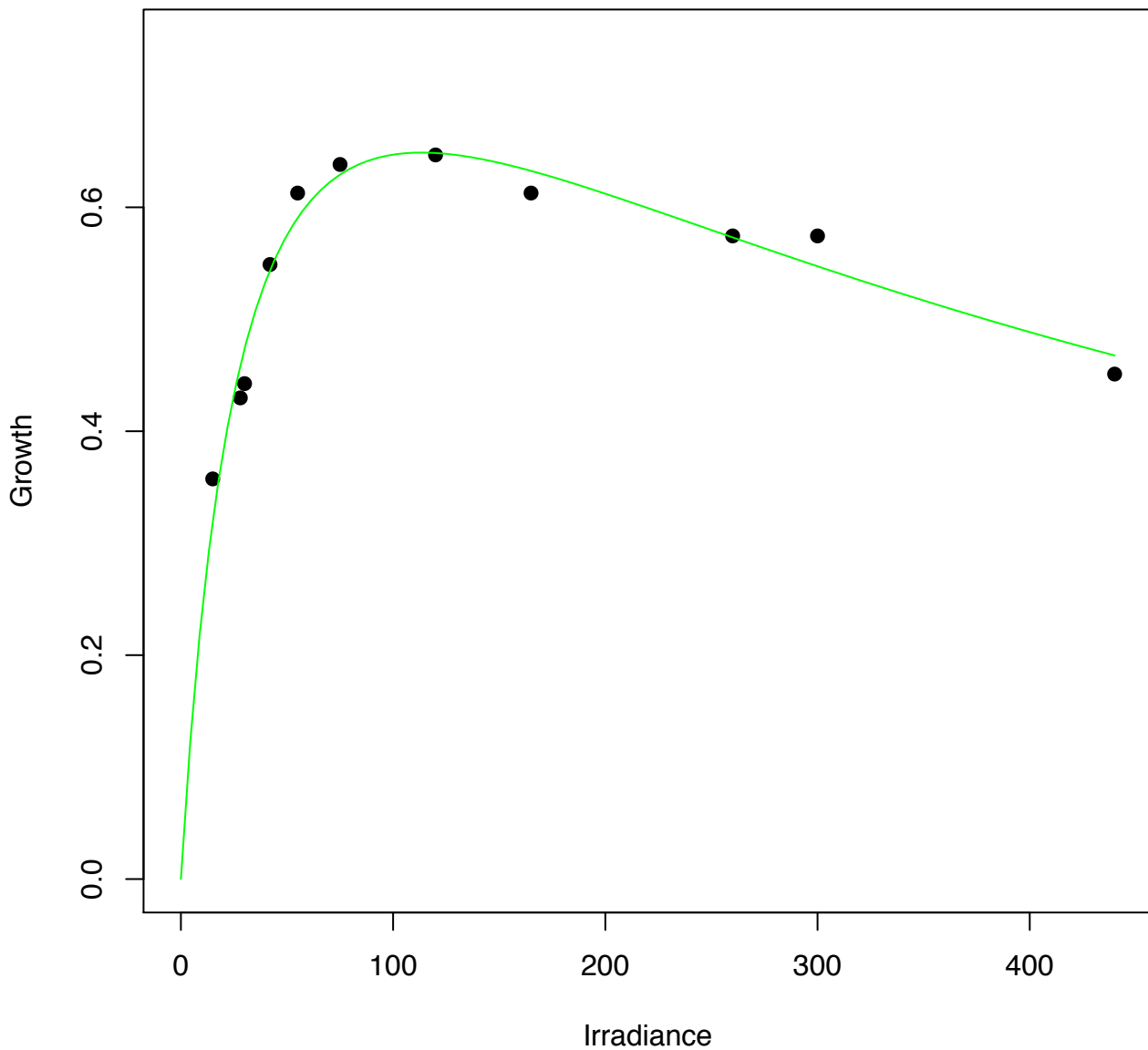
Coscinodiscus granii 20°C



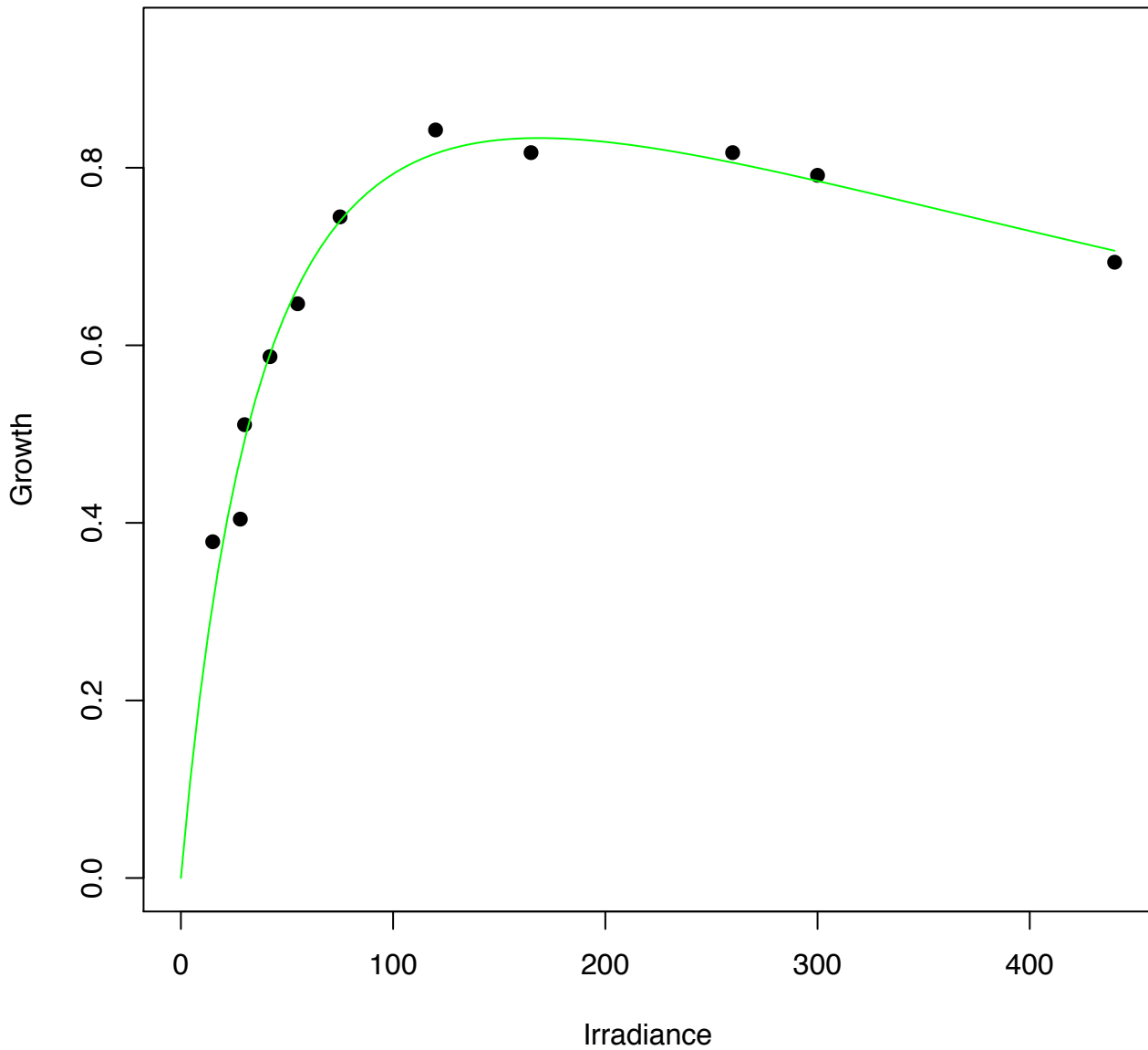
Microcystis ichthyoblabe 10°C



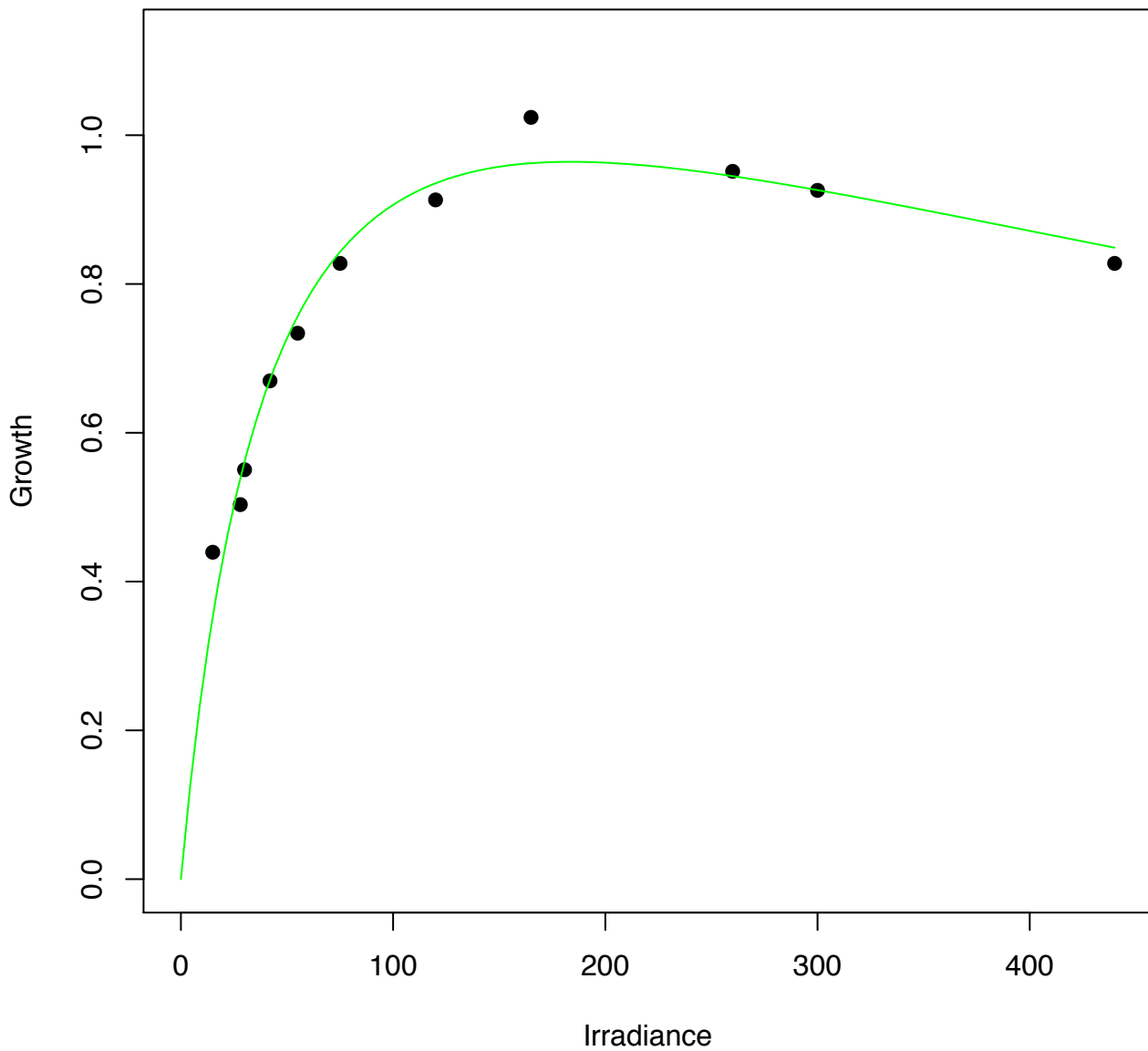
Microcystis ichthyoblabe 15°C



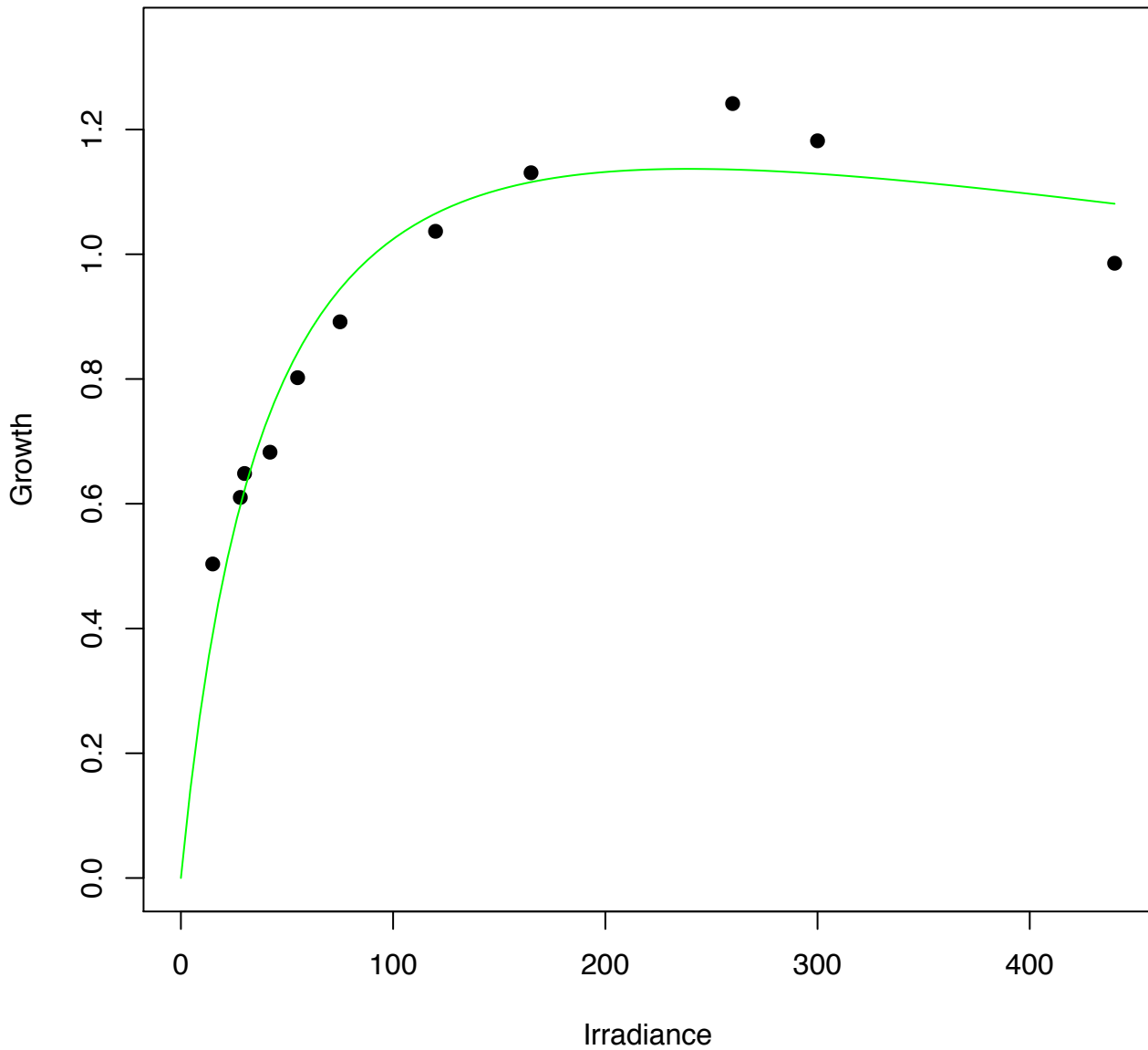
Microcystis ichthyoblabe 20°C



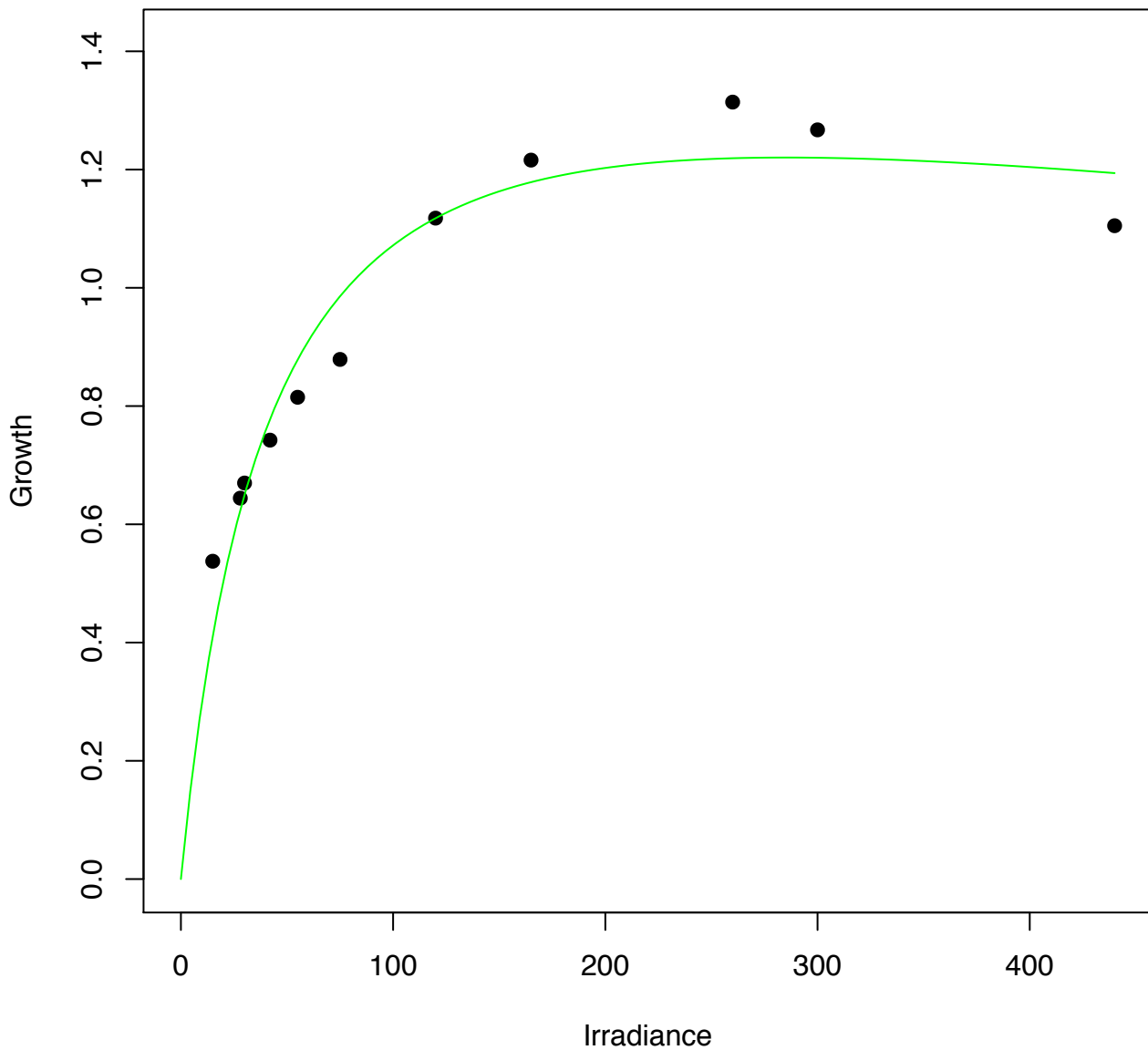
Microcystis ichthyoblabe 25°C



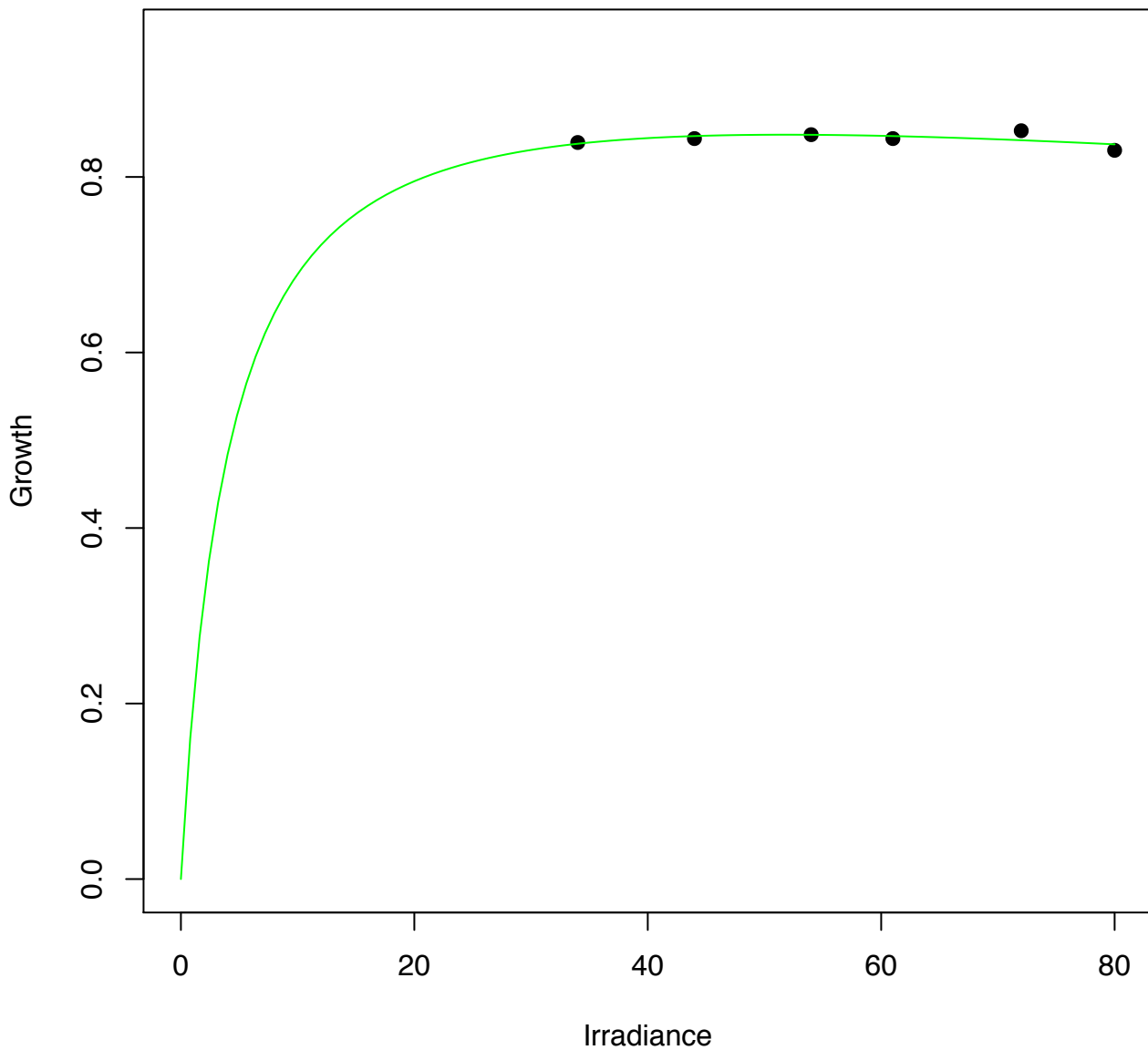
Microcystis ichthyoblabe 30°C



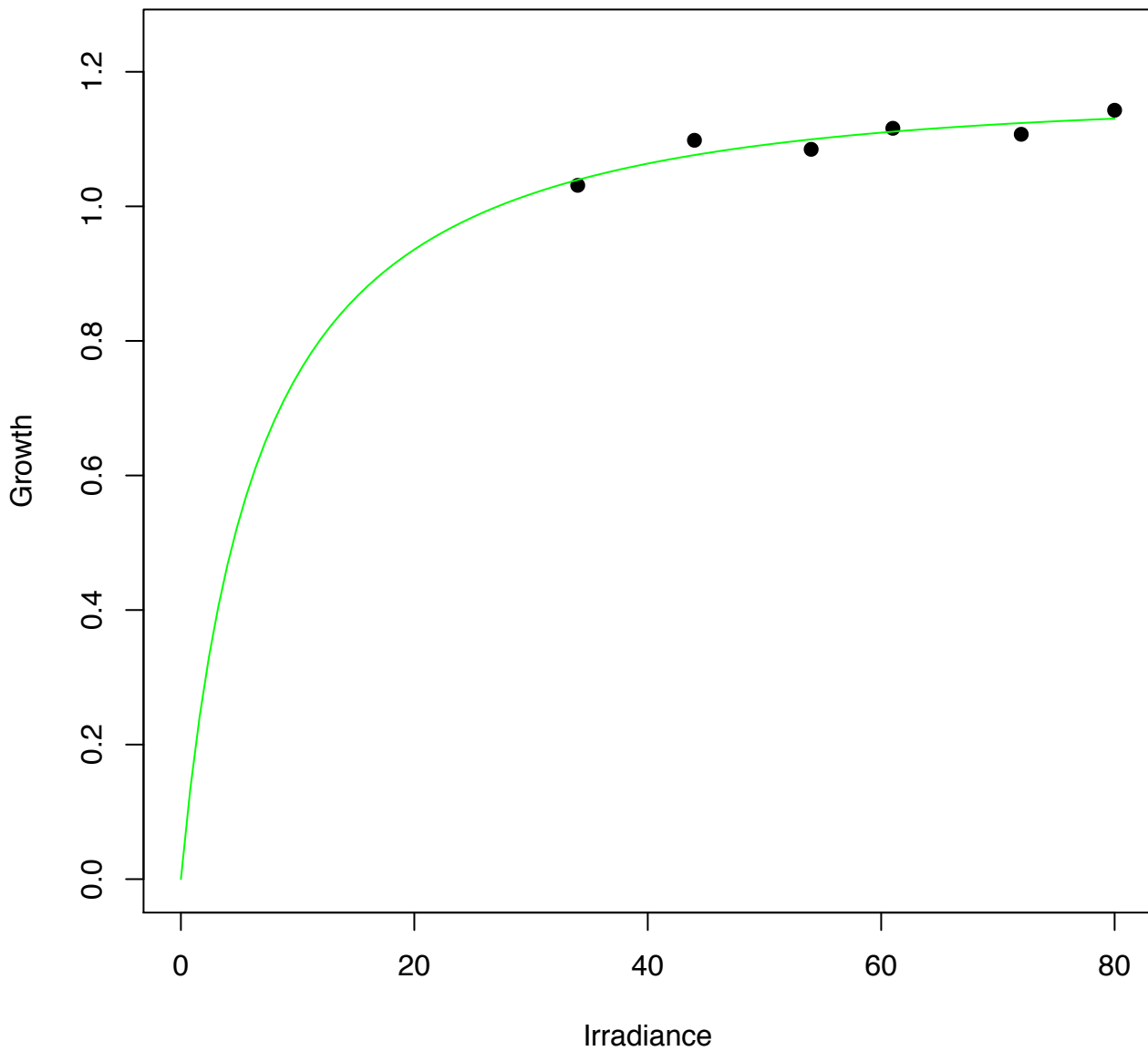
Microcystis ichthyoblabe 35°C



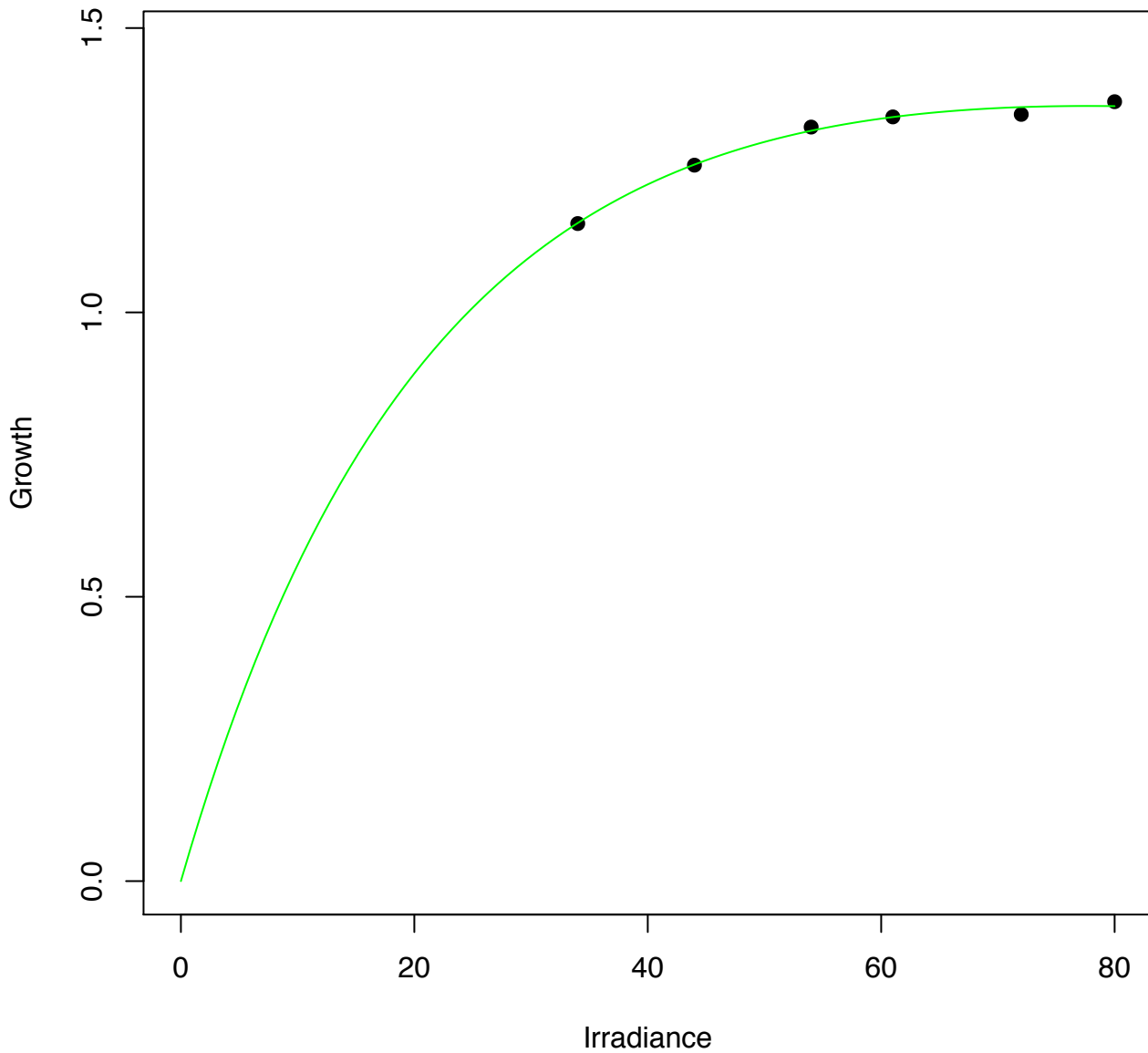
Nannochloropsis oceanica 17°C



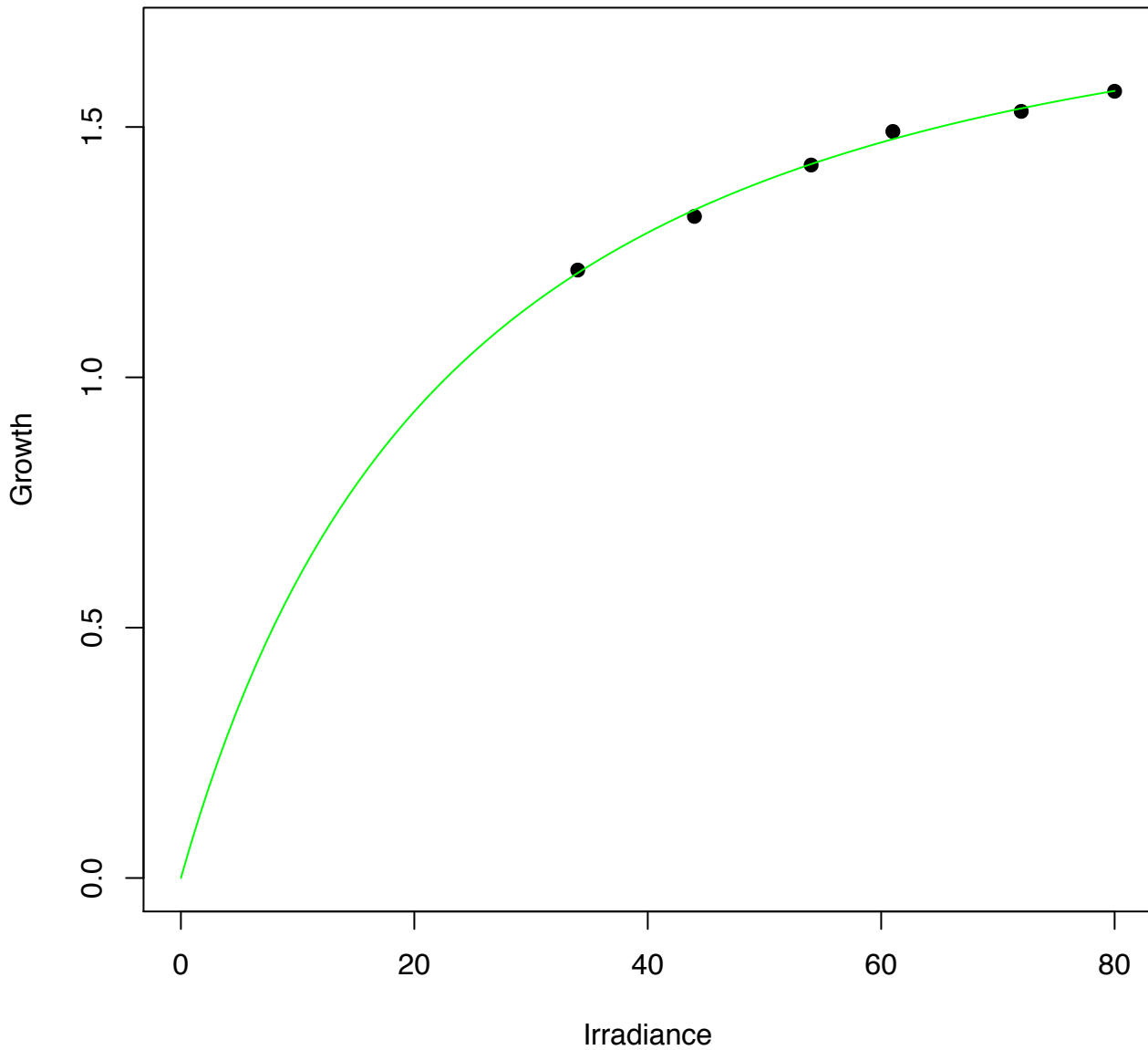
Nannochloropsis oceanica 20°C



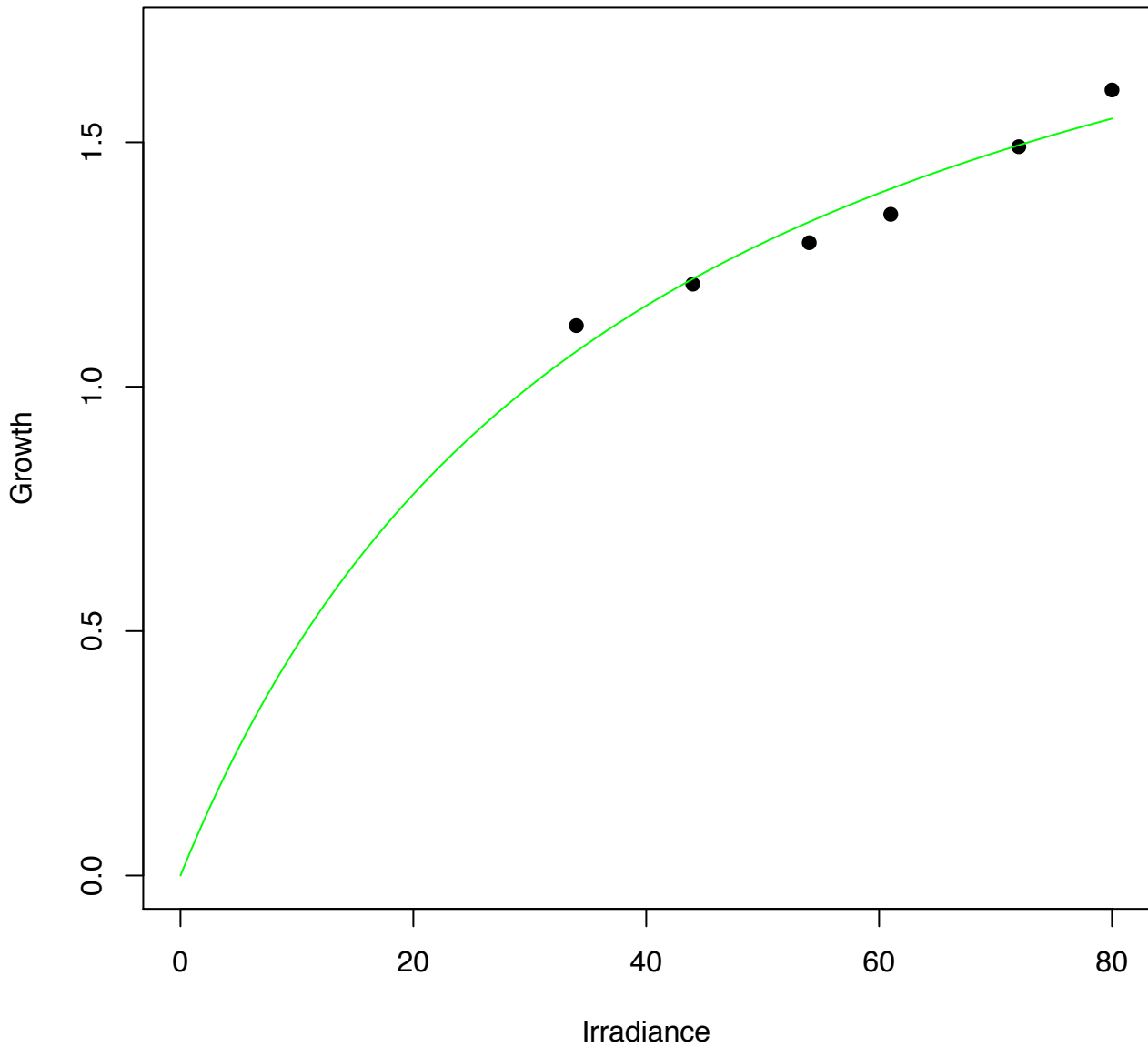
Nannochloropsis oceanica 23°C



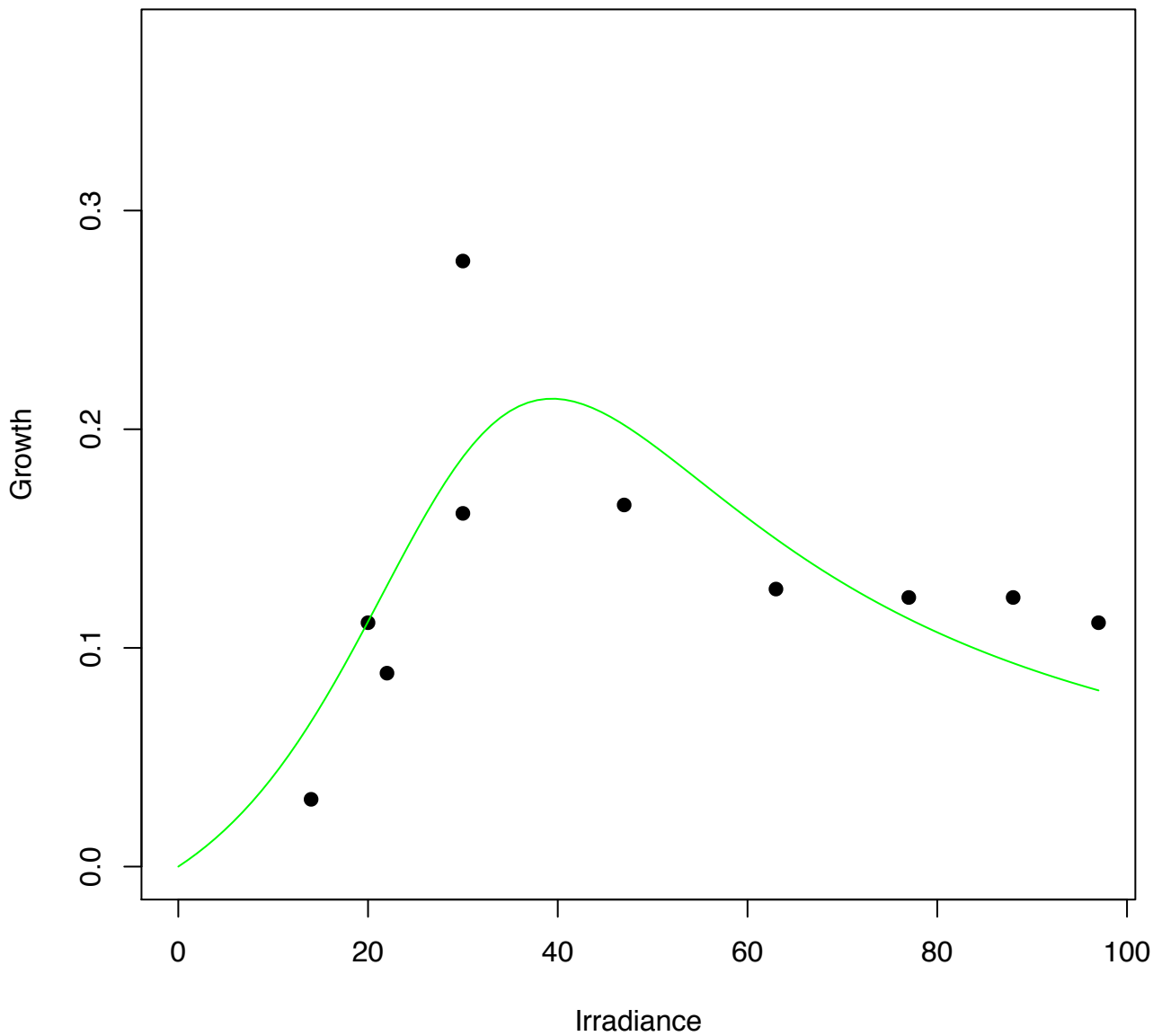
Nannochloropsis oceanica 26°C



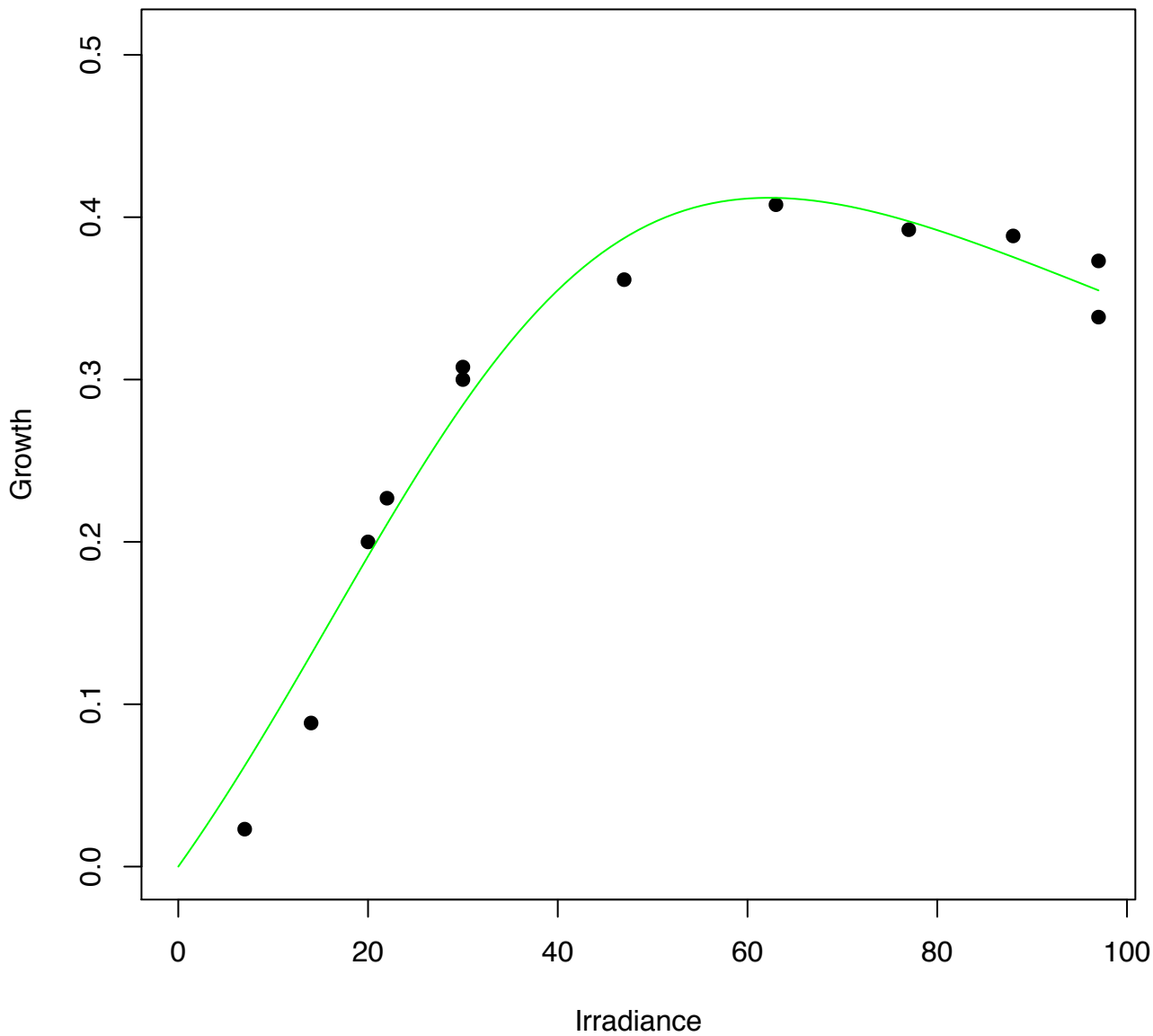
Nannochloropsis oceanica 29°C



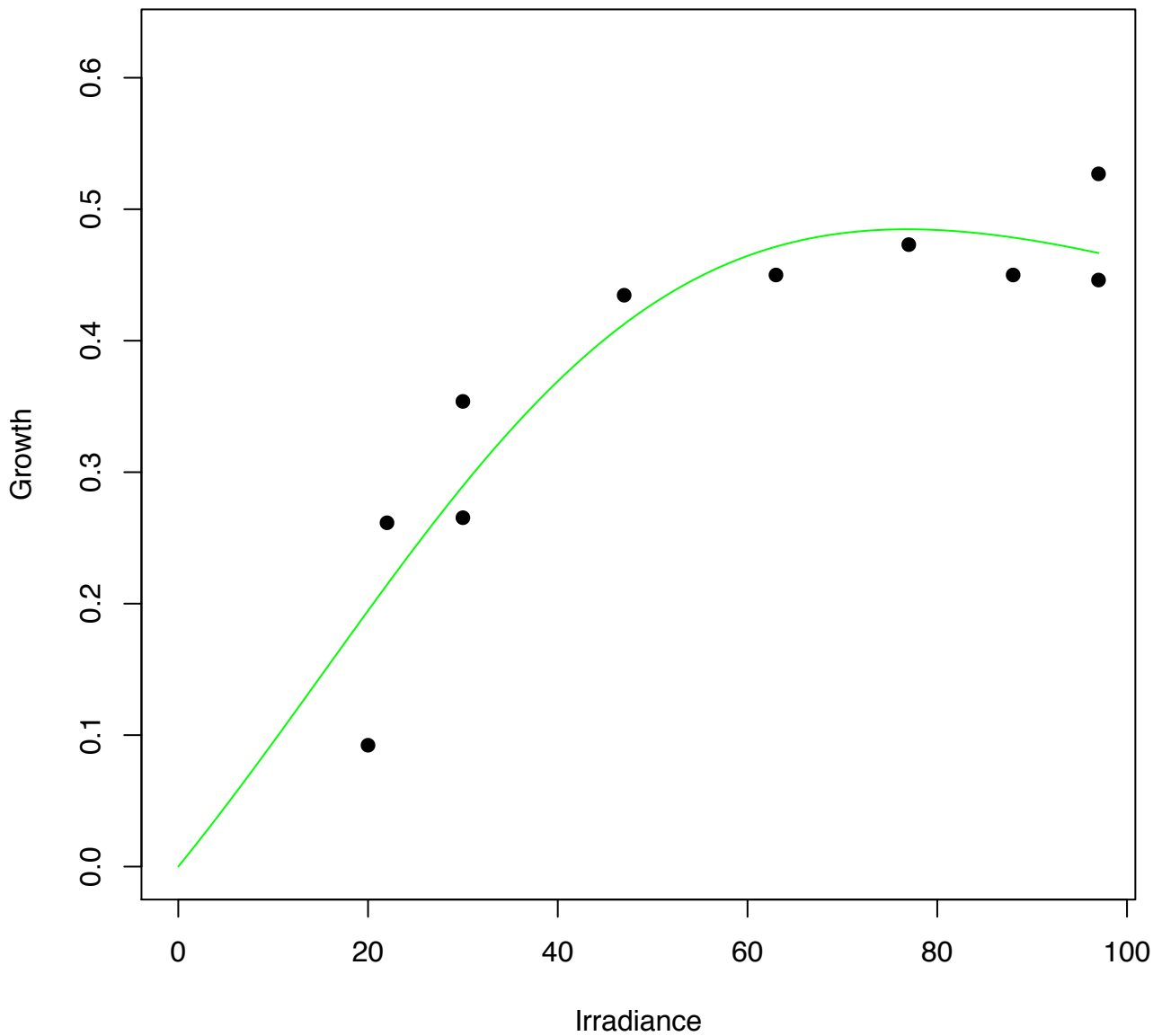
Pseudochattonella farcimen 4°C



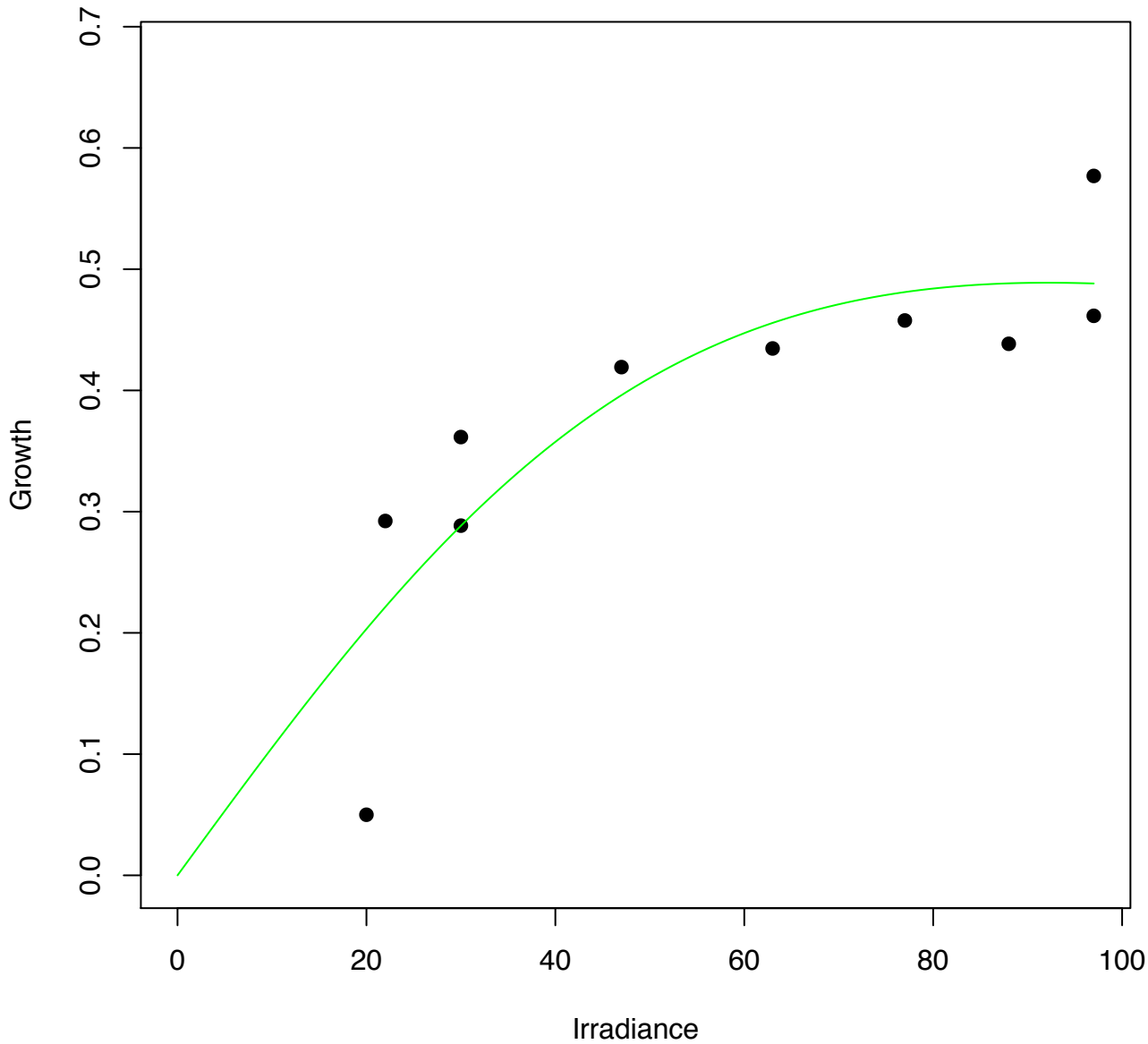
Pseudochattonella farcimen 6°C



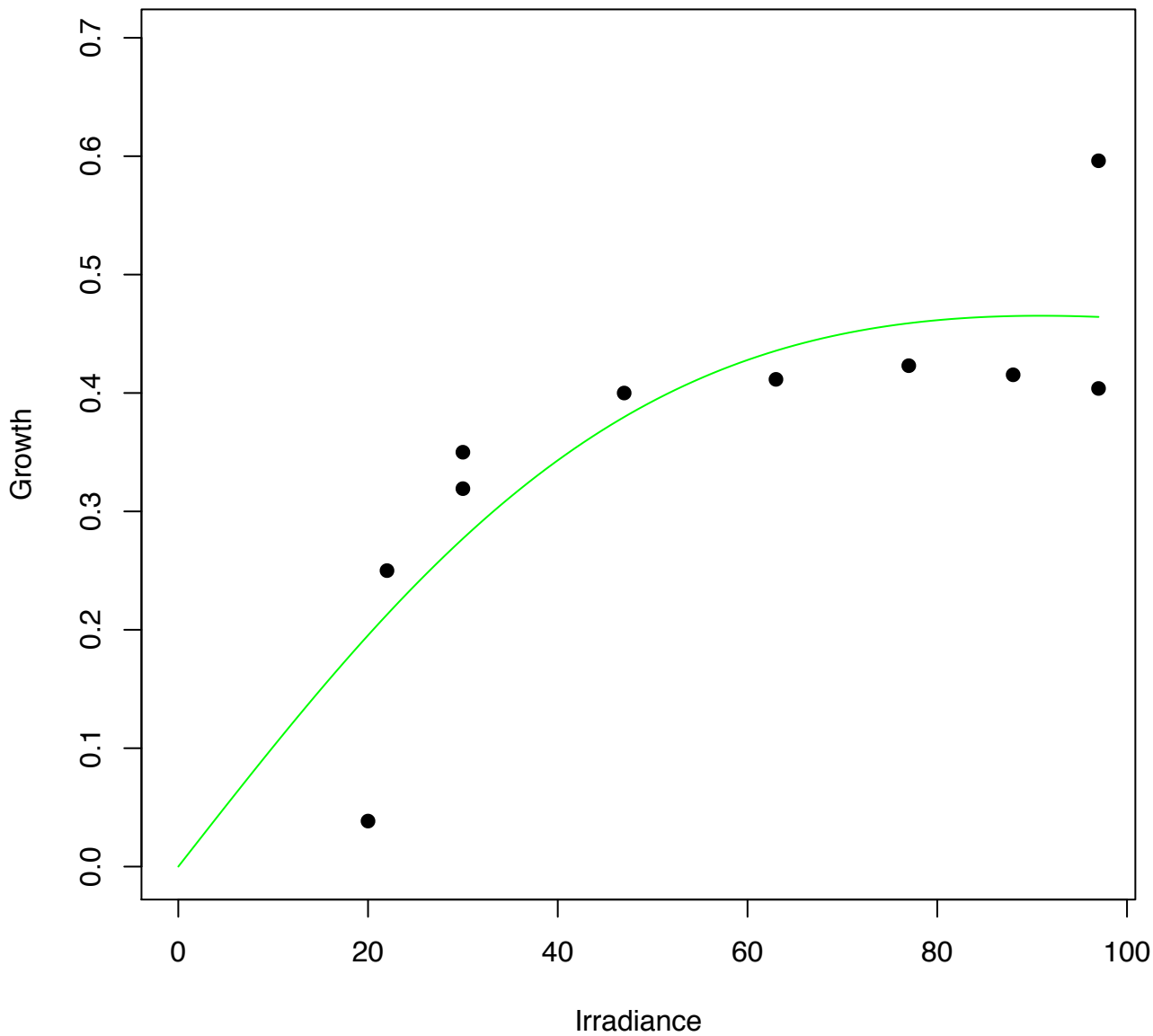
Pseudochattonella farcimen 11°C



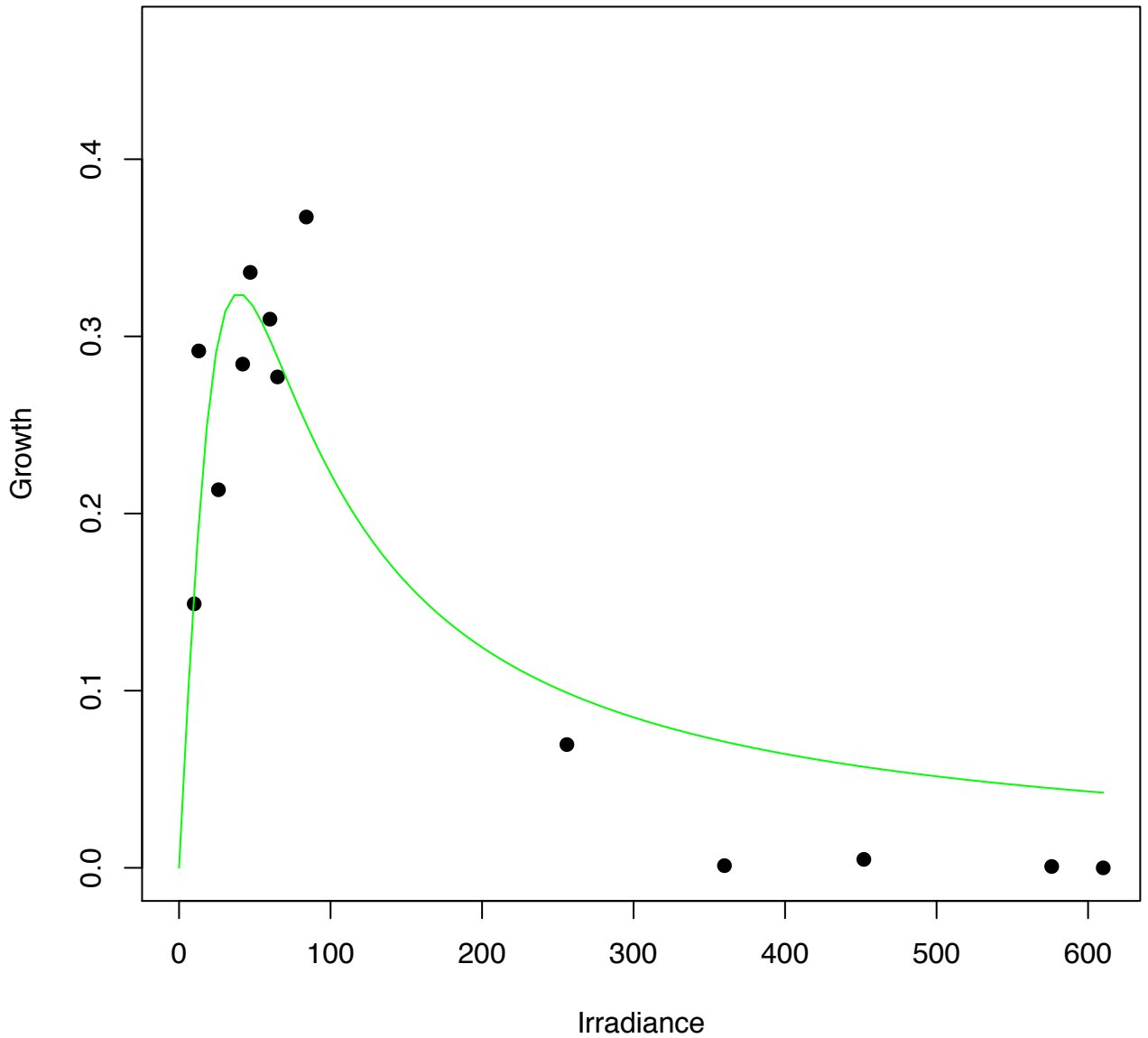
Pseudochattonella farcimen 13°C



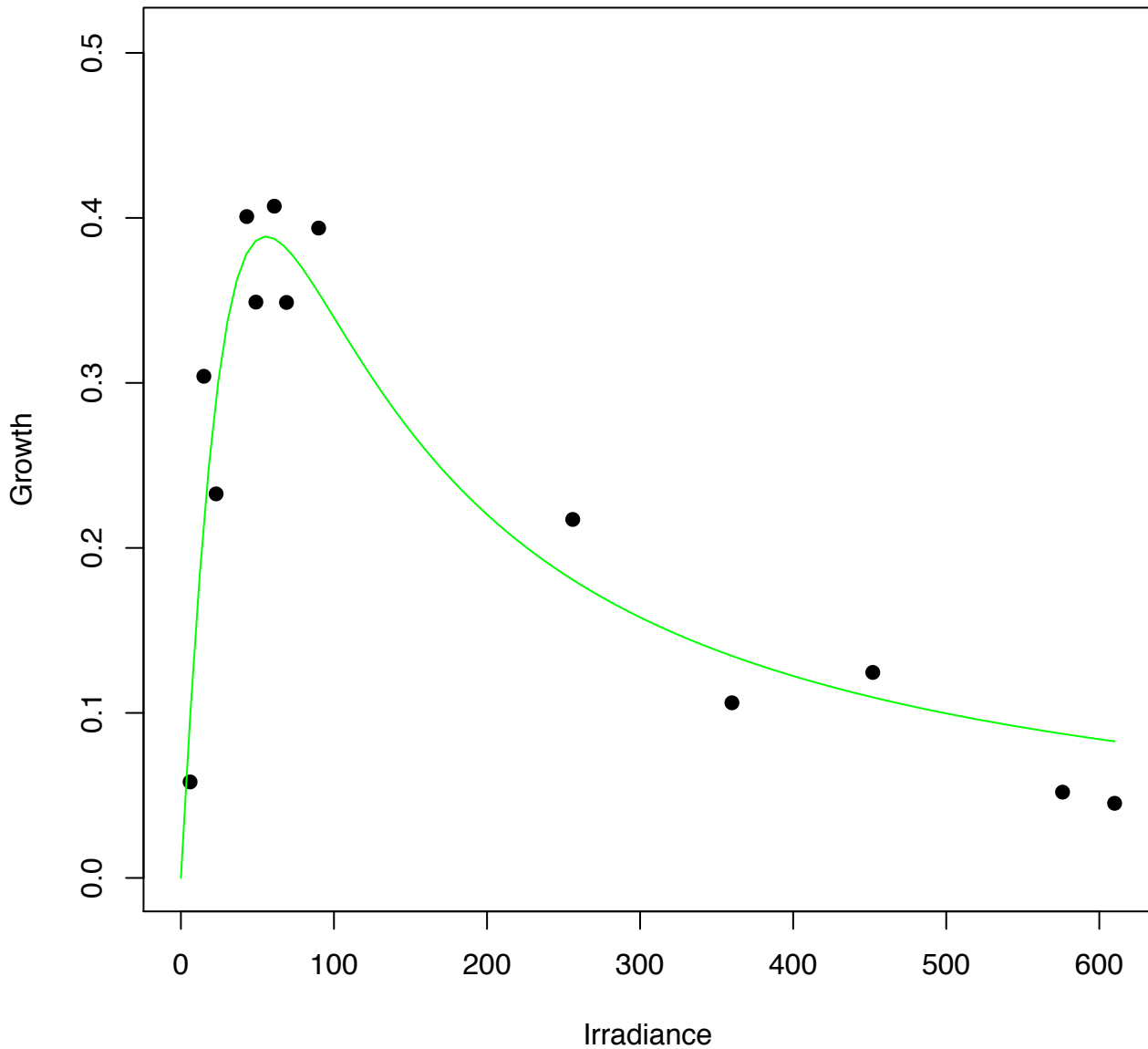
Pseudochattonella farcimen 16°C



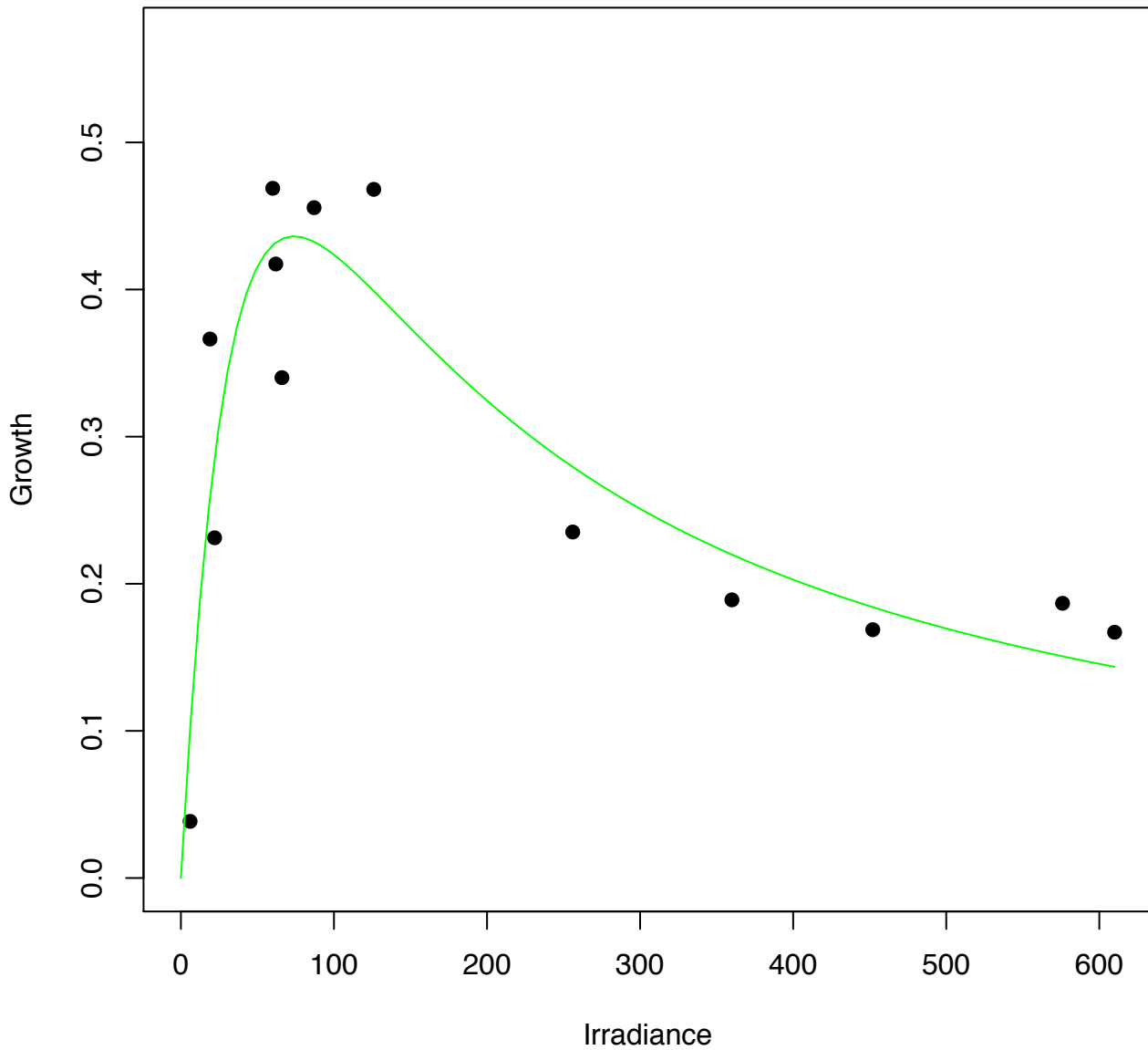
Planktothrix agardhii 5°C



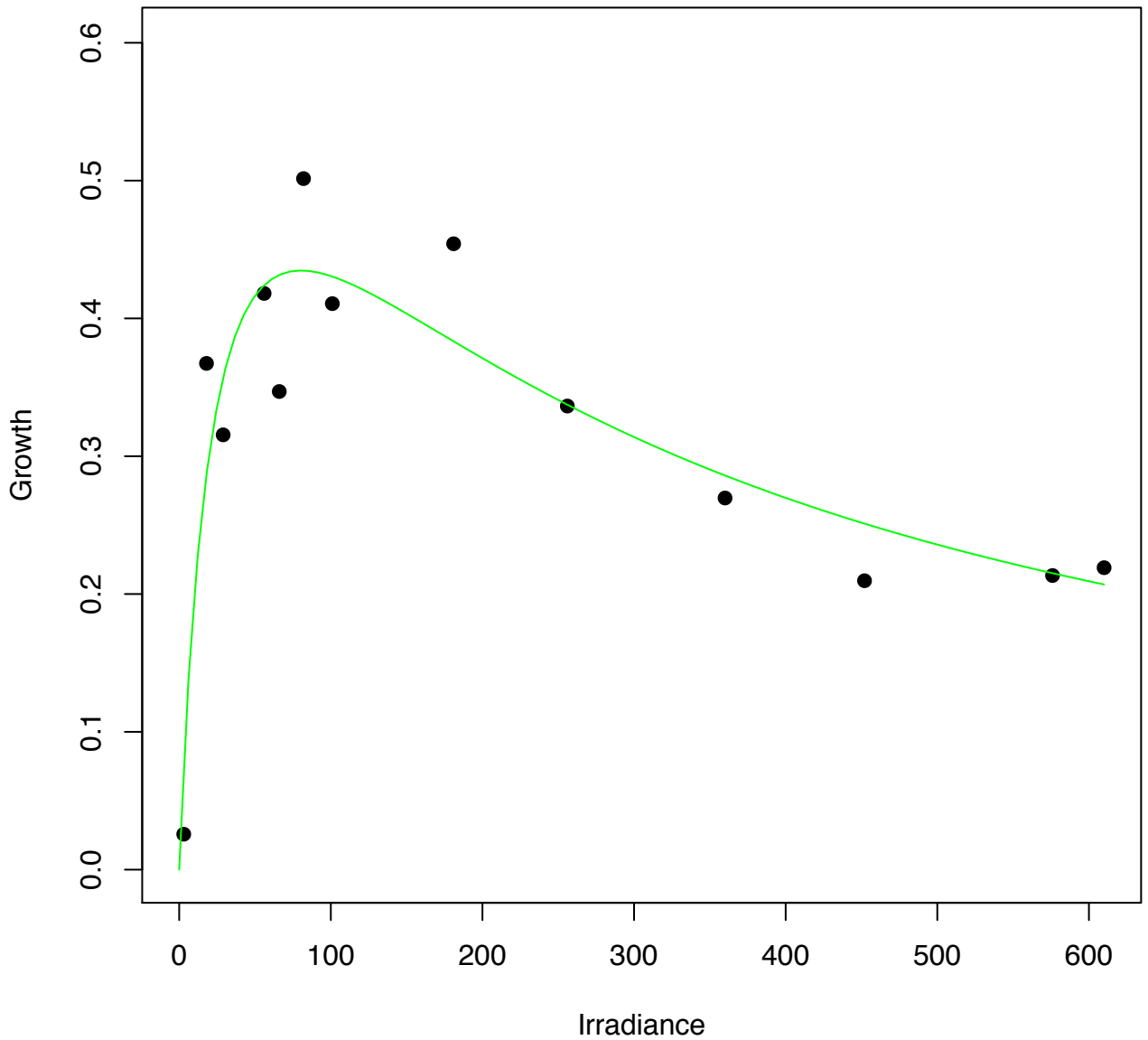
Planktothrix agardhii 10°C



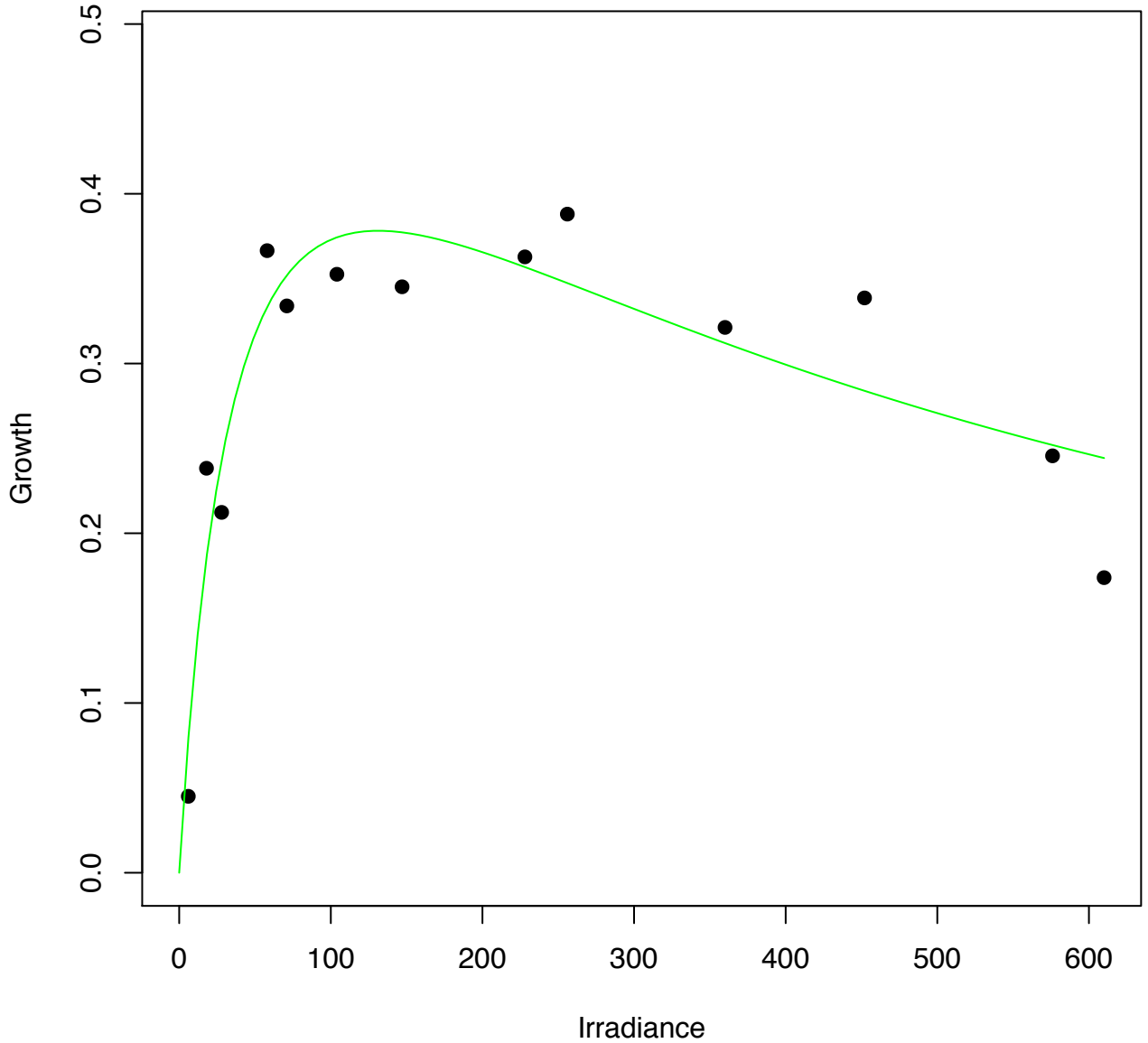
Planktothrix agardhii 15°C



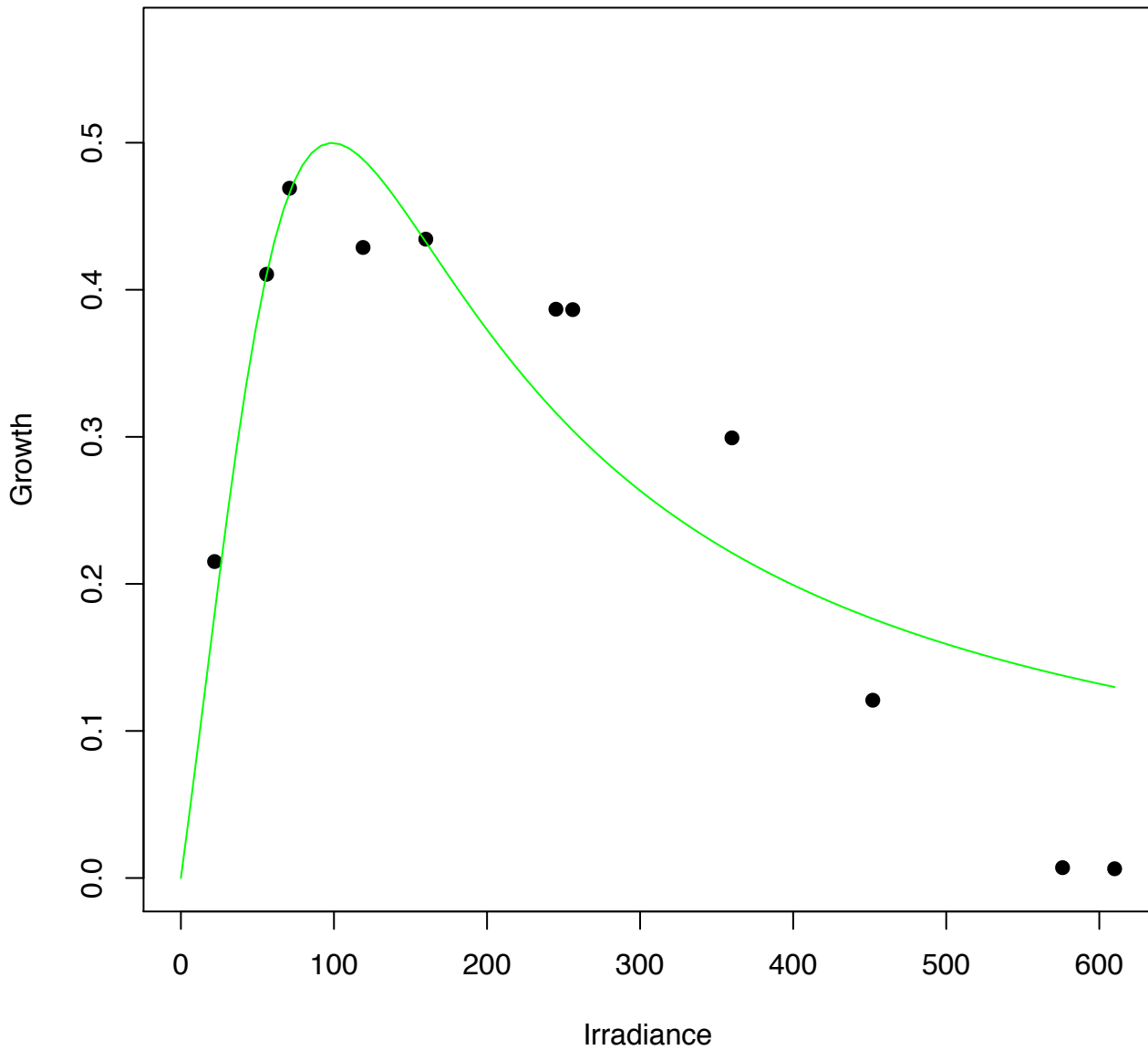
Planktothrix agardhii 20°C



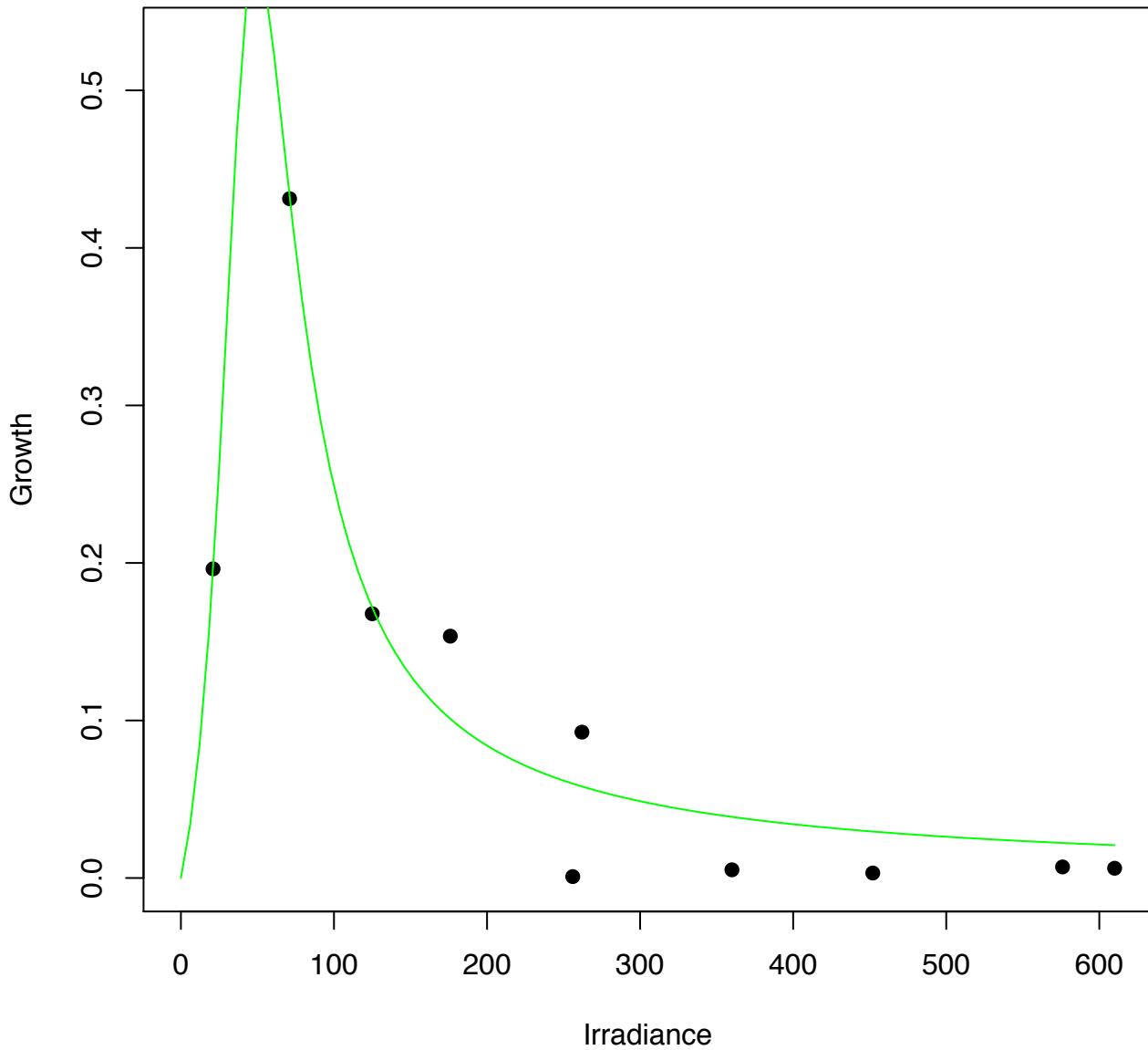
Planktothrix agardhii 25°C



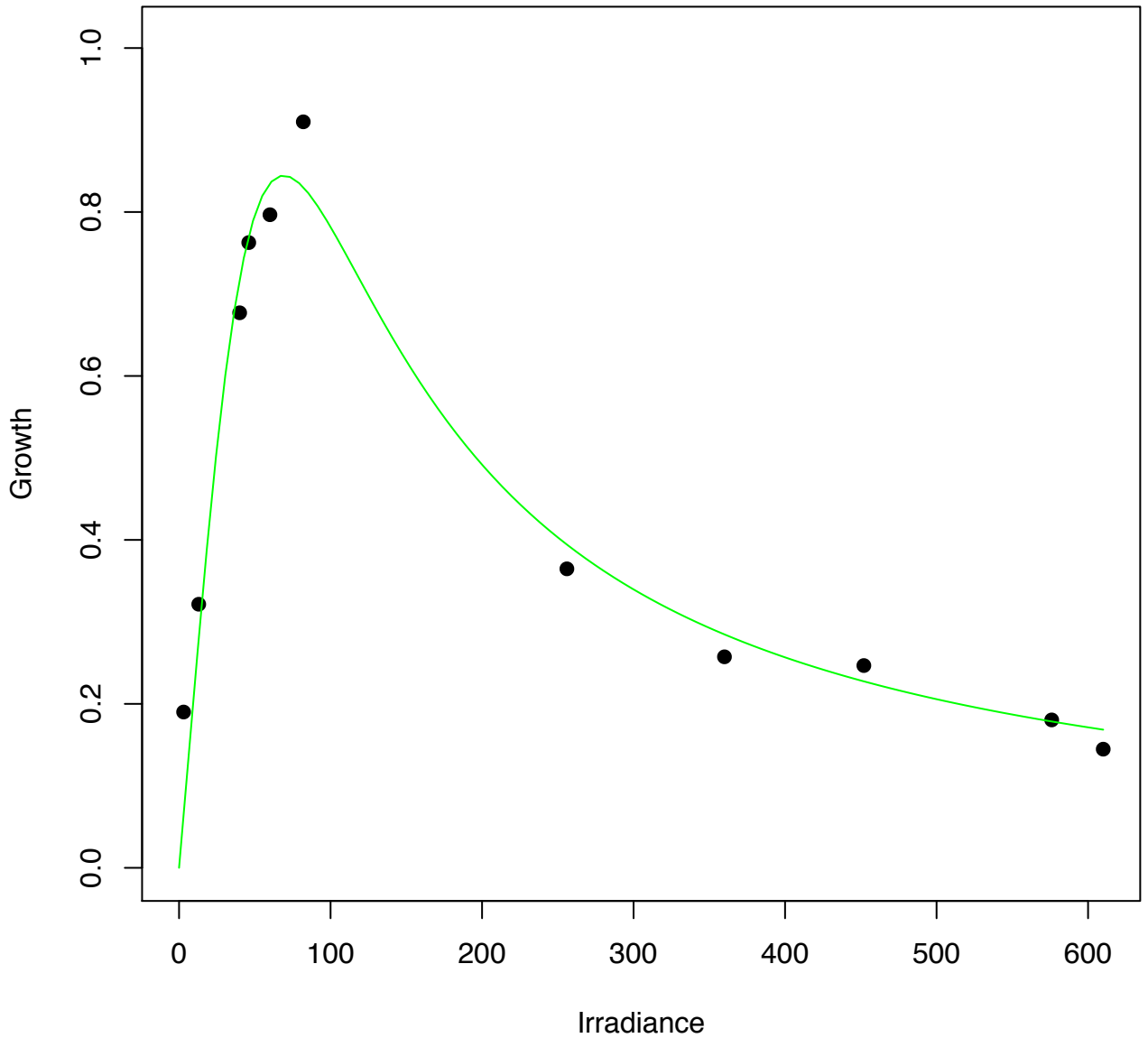
Planktothrix agardhii 30°C



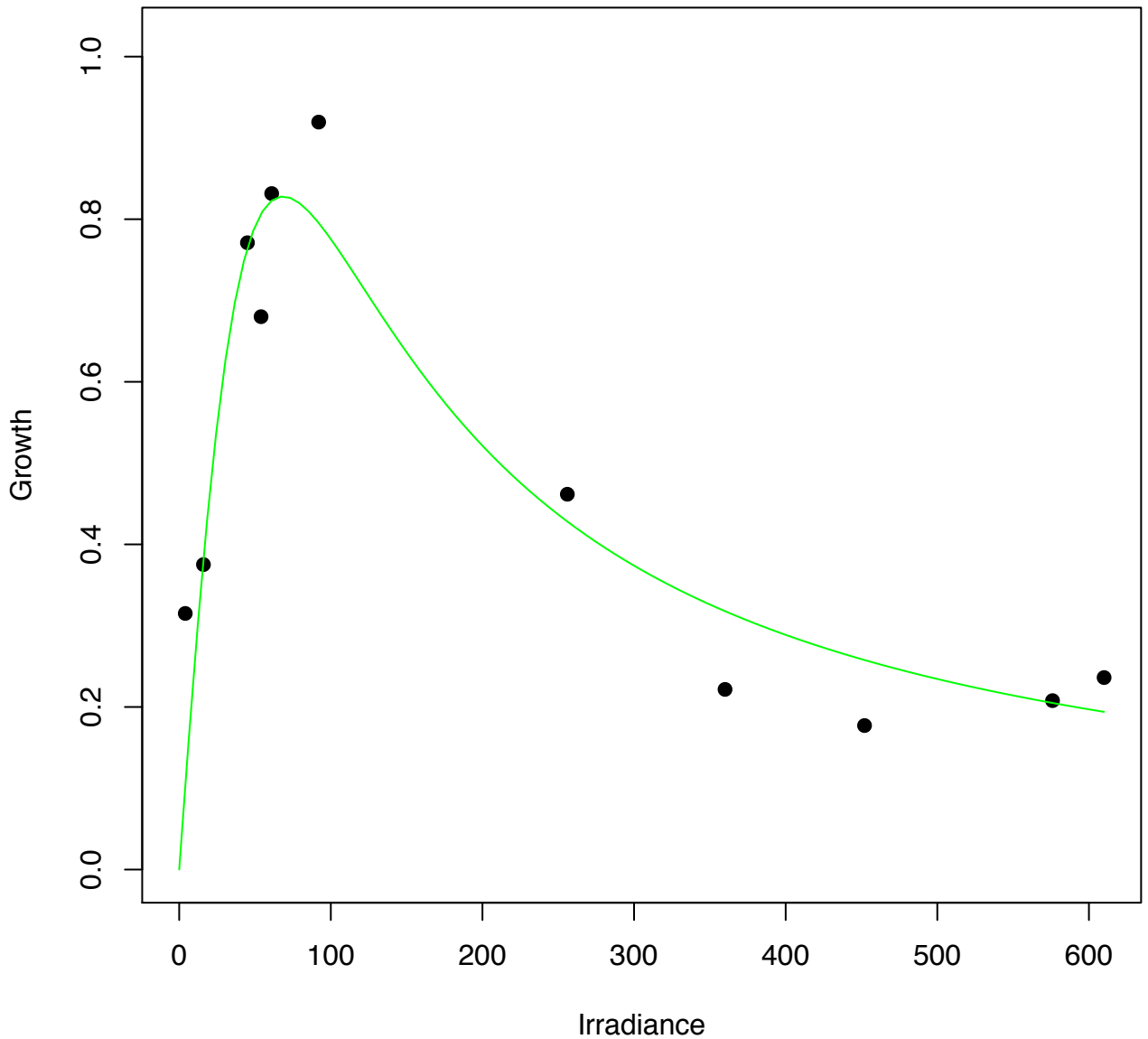
Planktothrix agardhii 35°C



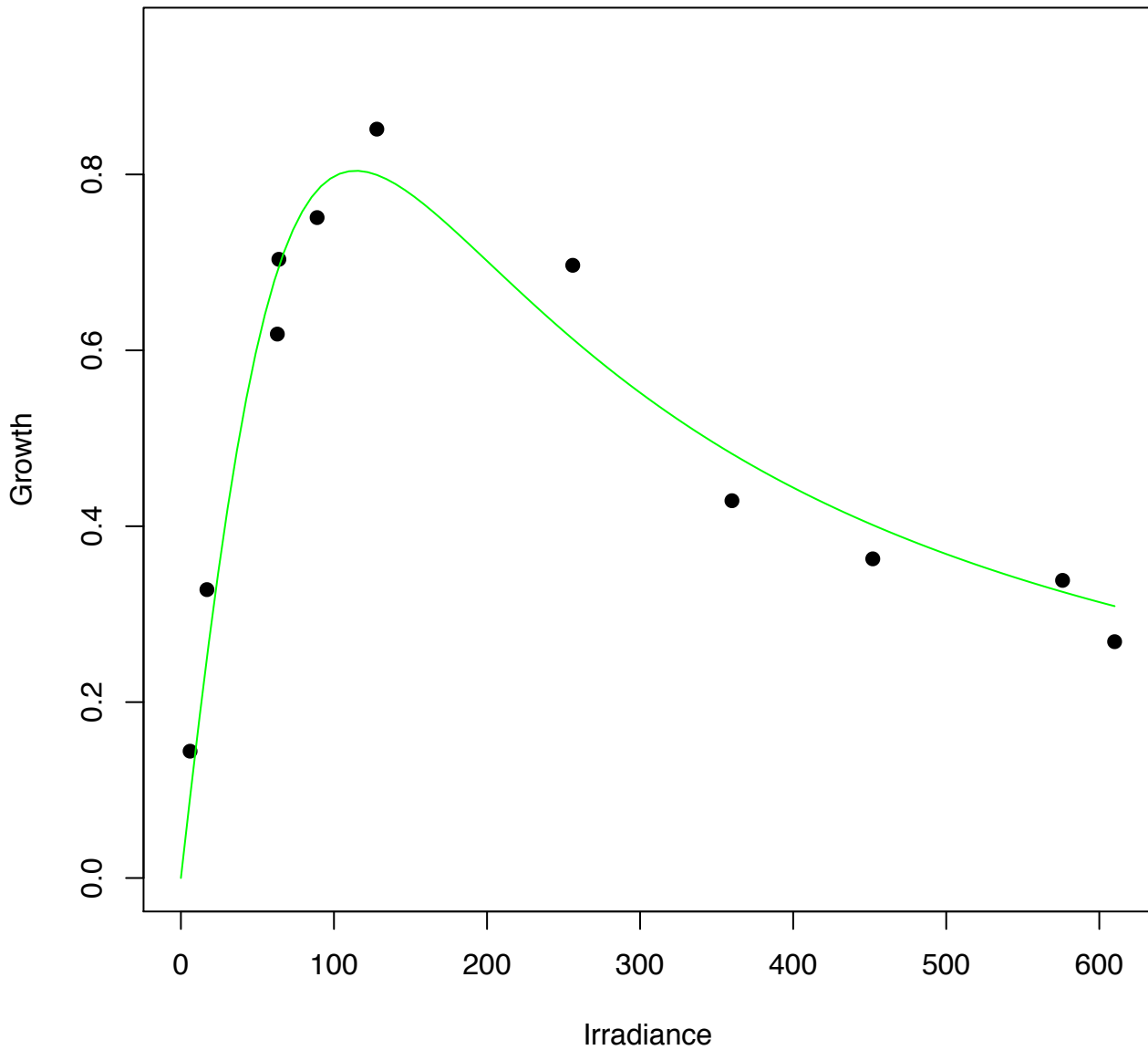
Ankistrodesmus falcatus 5°C



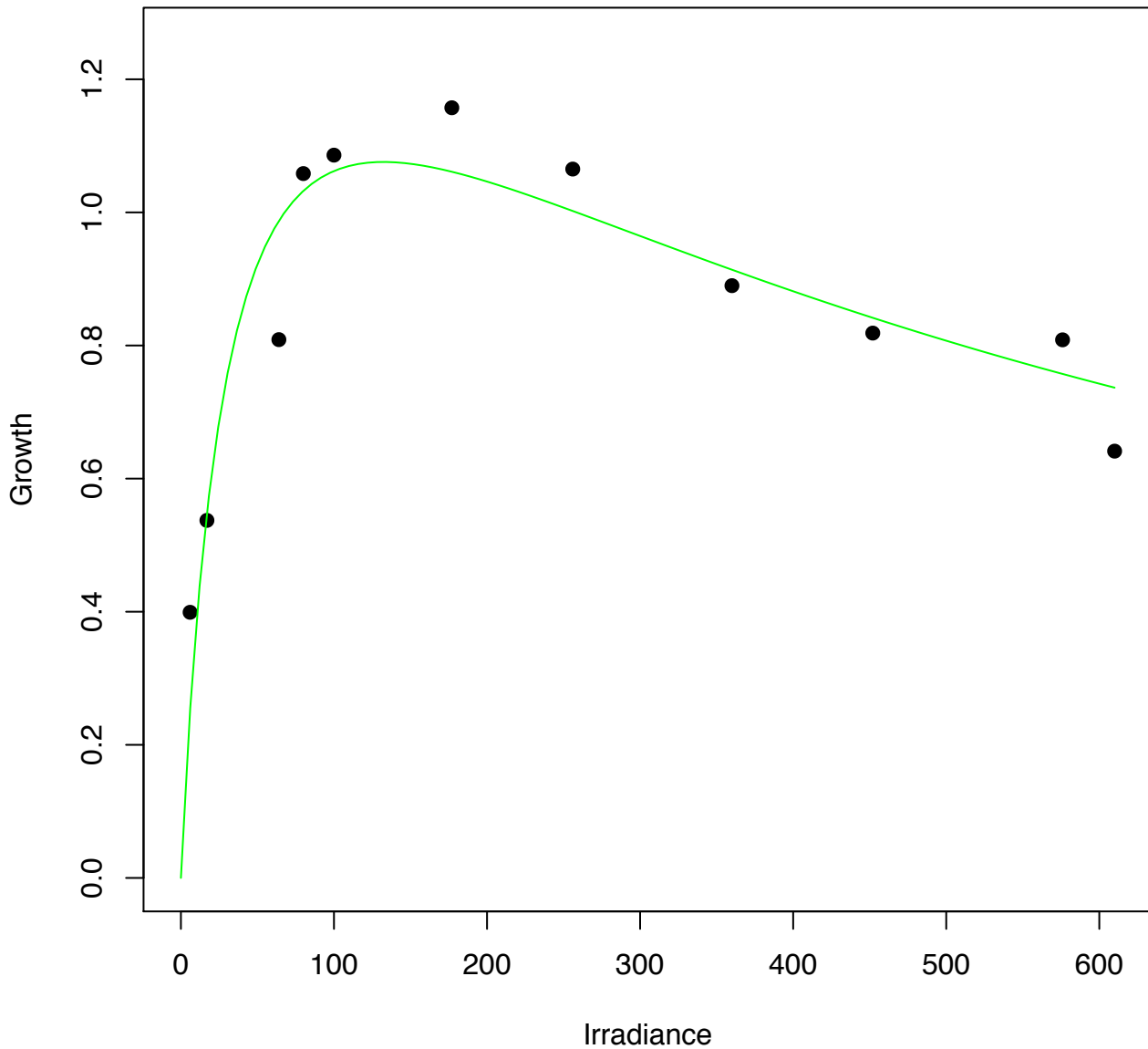
Ankistrodesmus falcatus 10°C



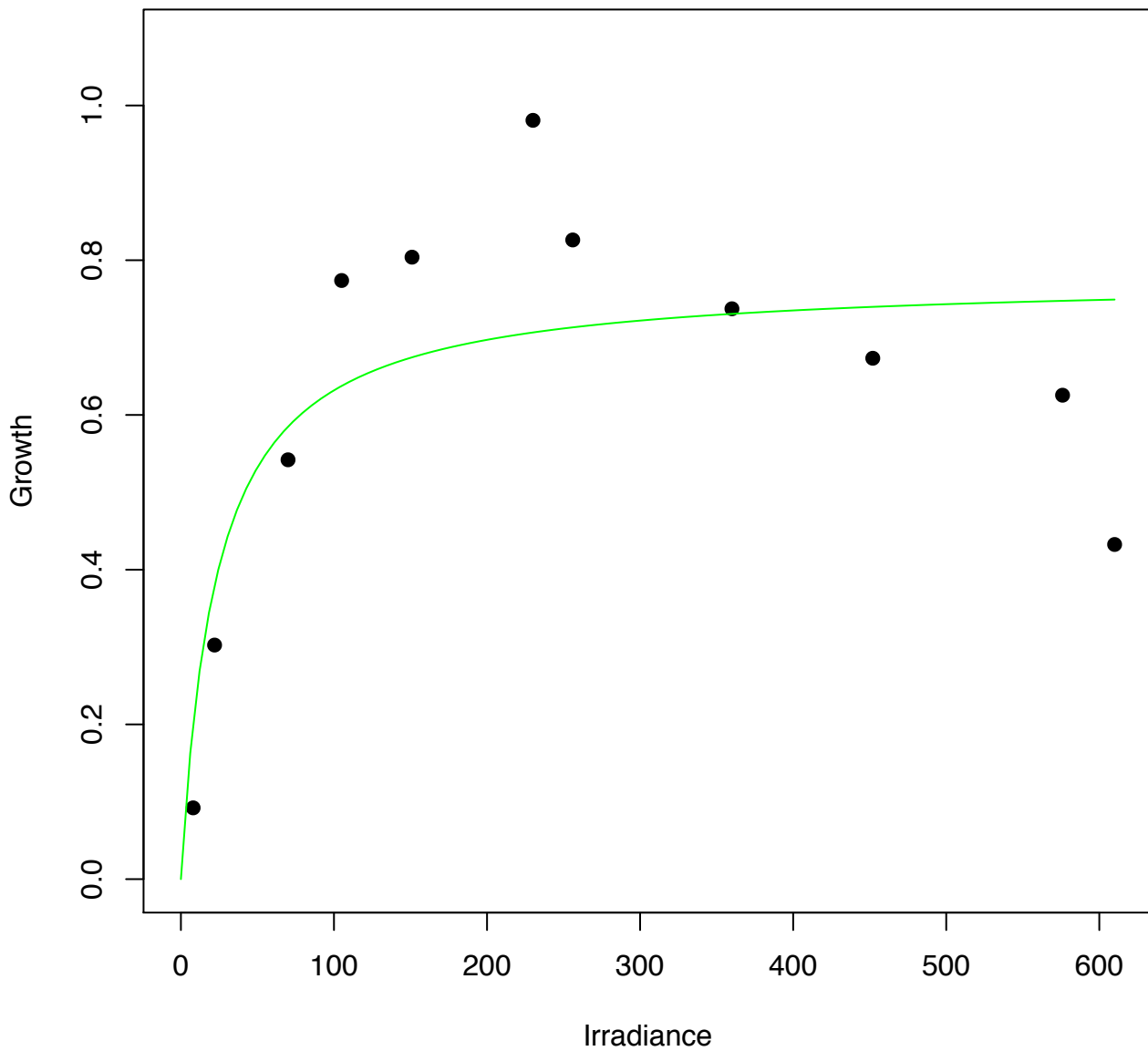
Ankistrodesmus falcatus 15°C



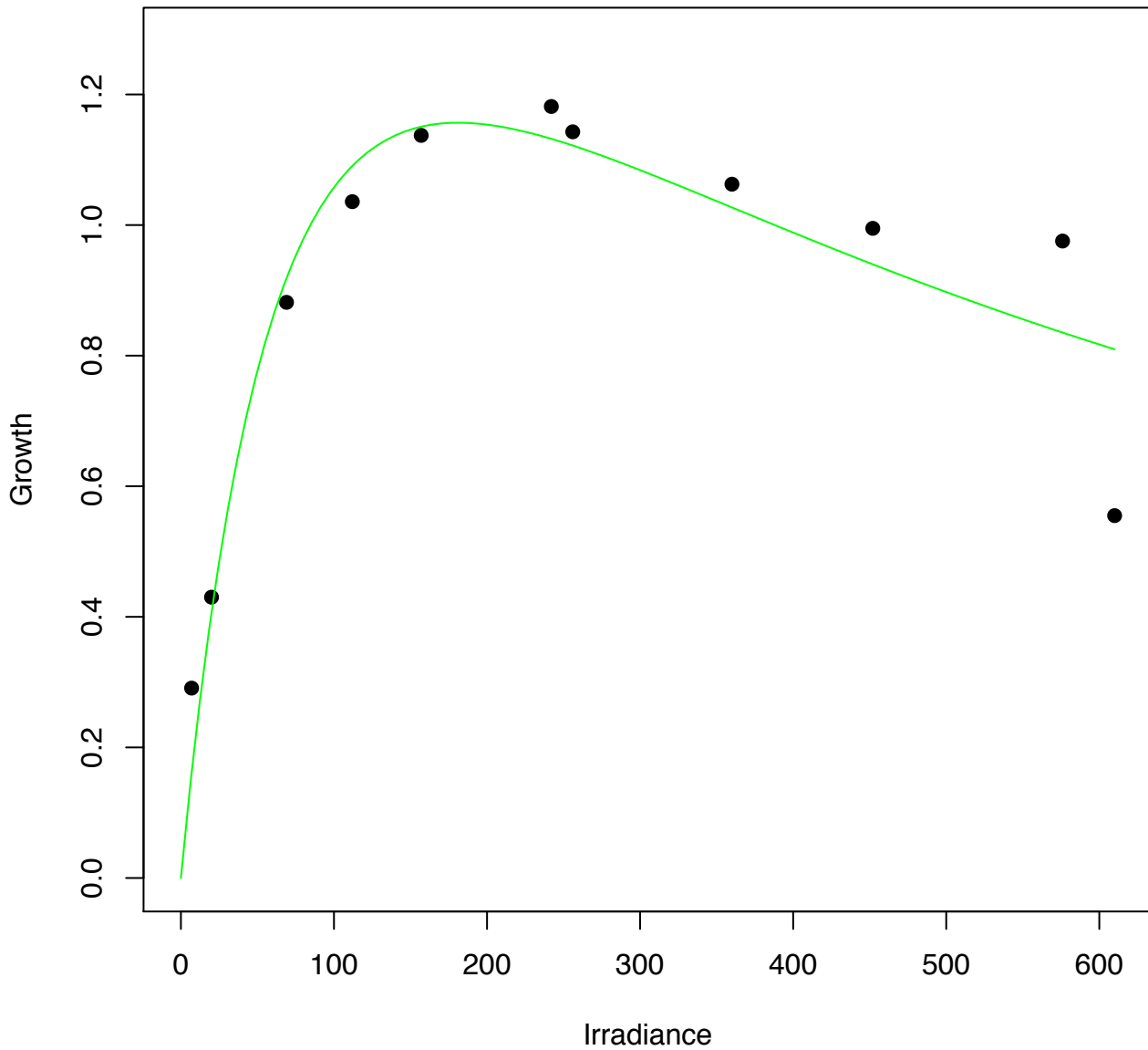
Ankistrodesmus falcatus 20°C



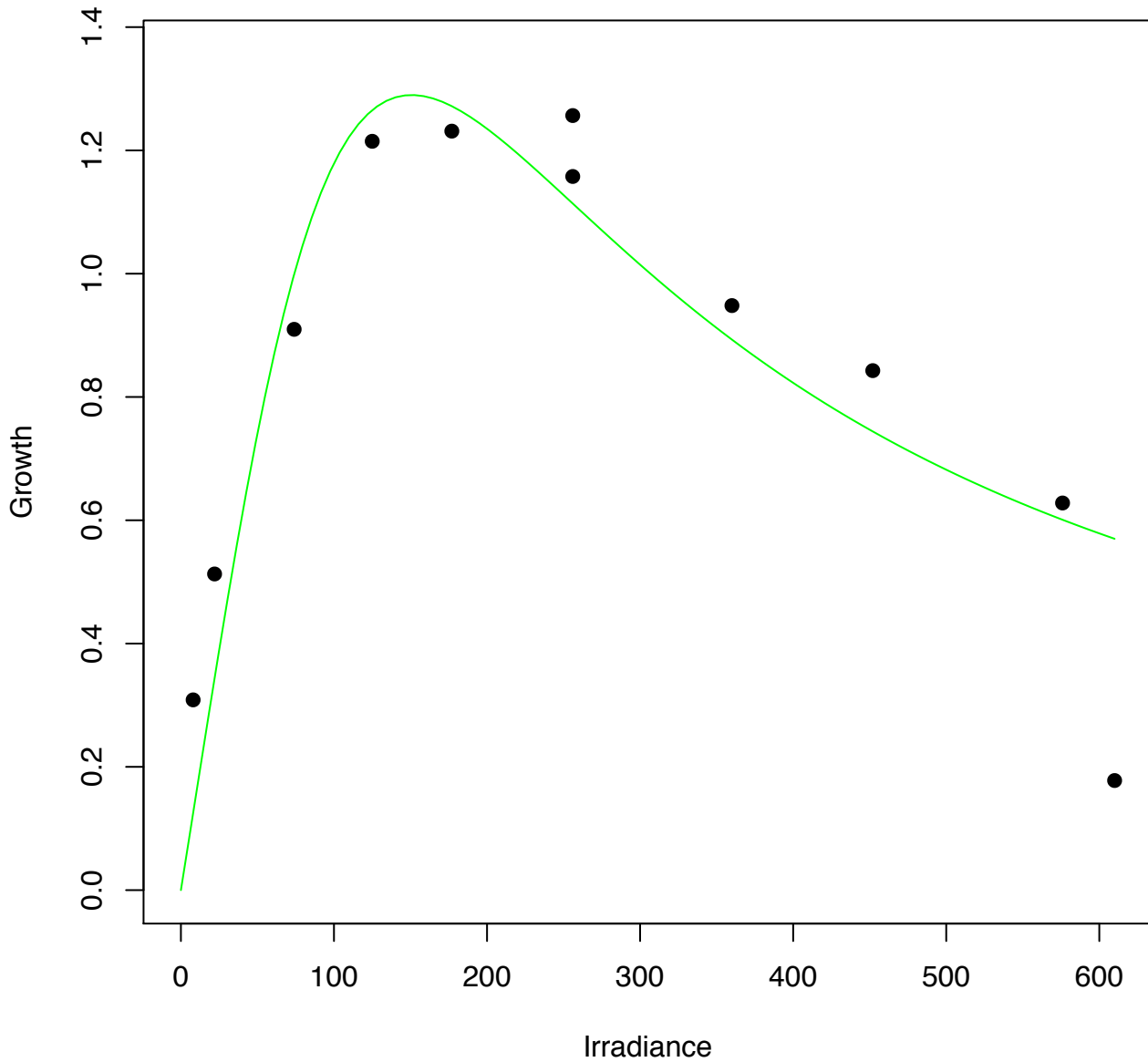
Ankistrodesmus falcatus 25°C



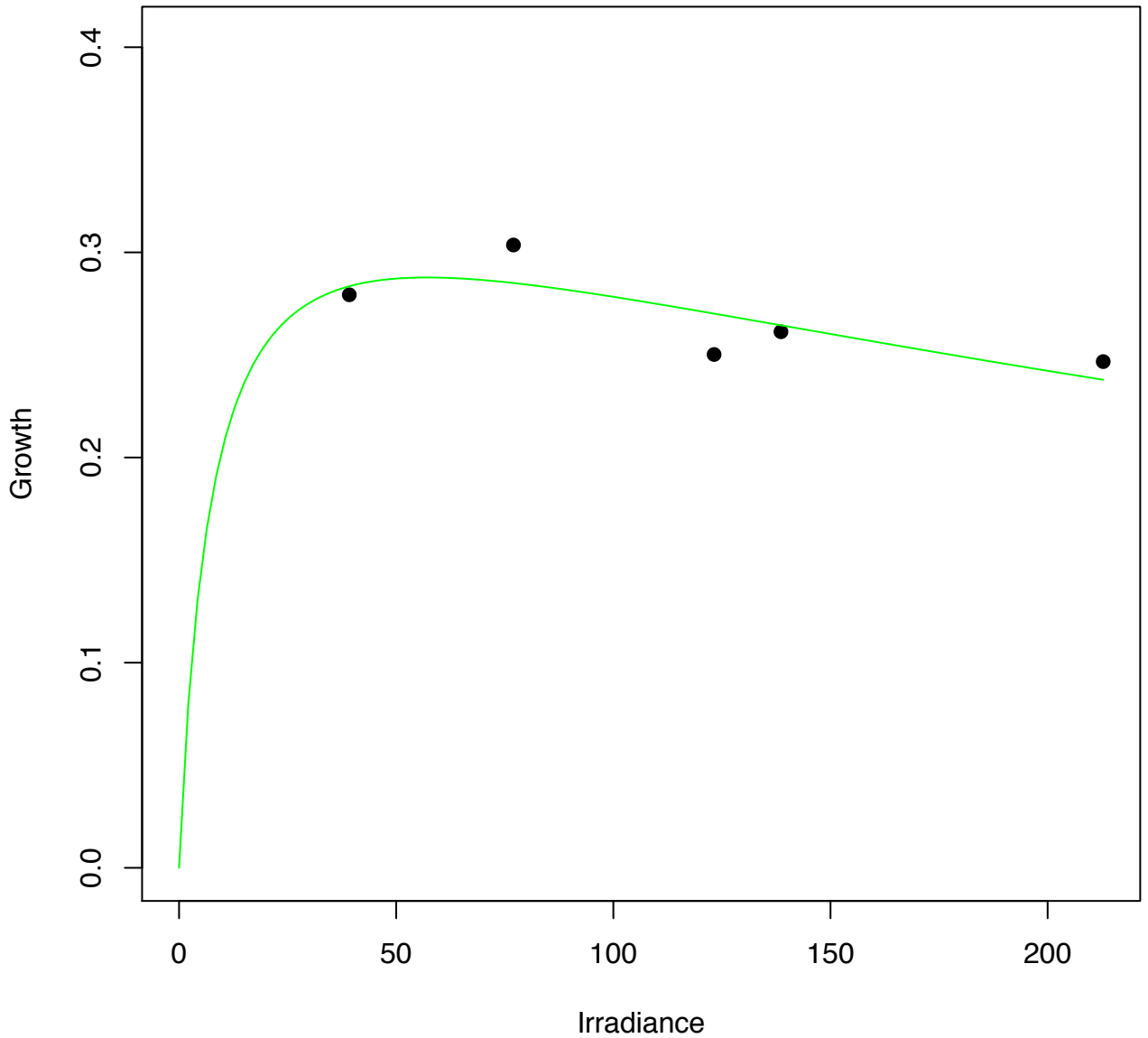
Ankistrodesmus falcatus 30°C



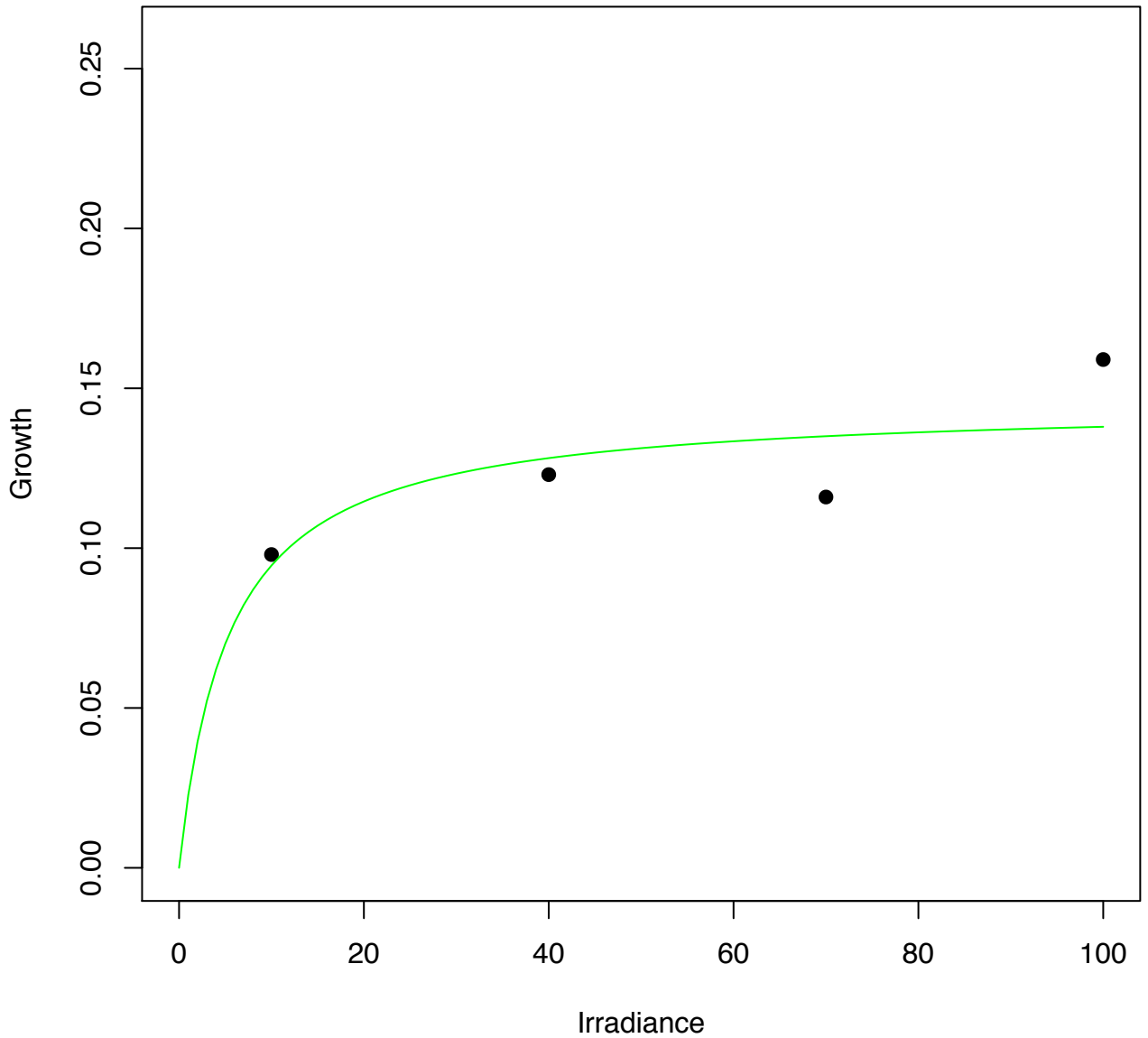
Ankistrodesmus falcatus 35°C



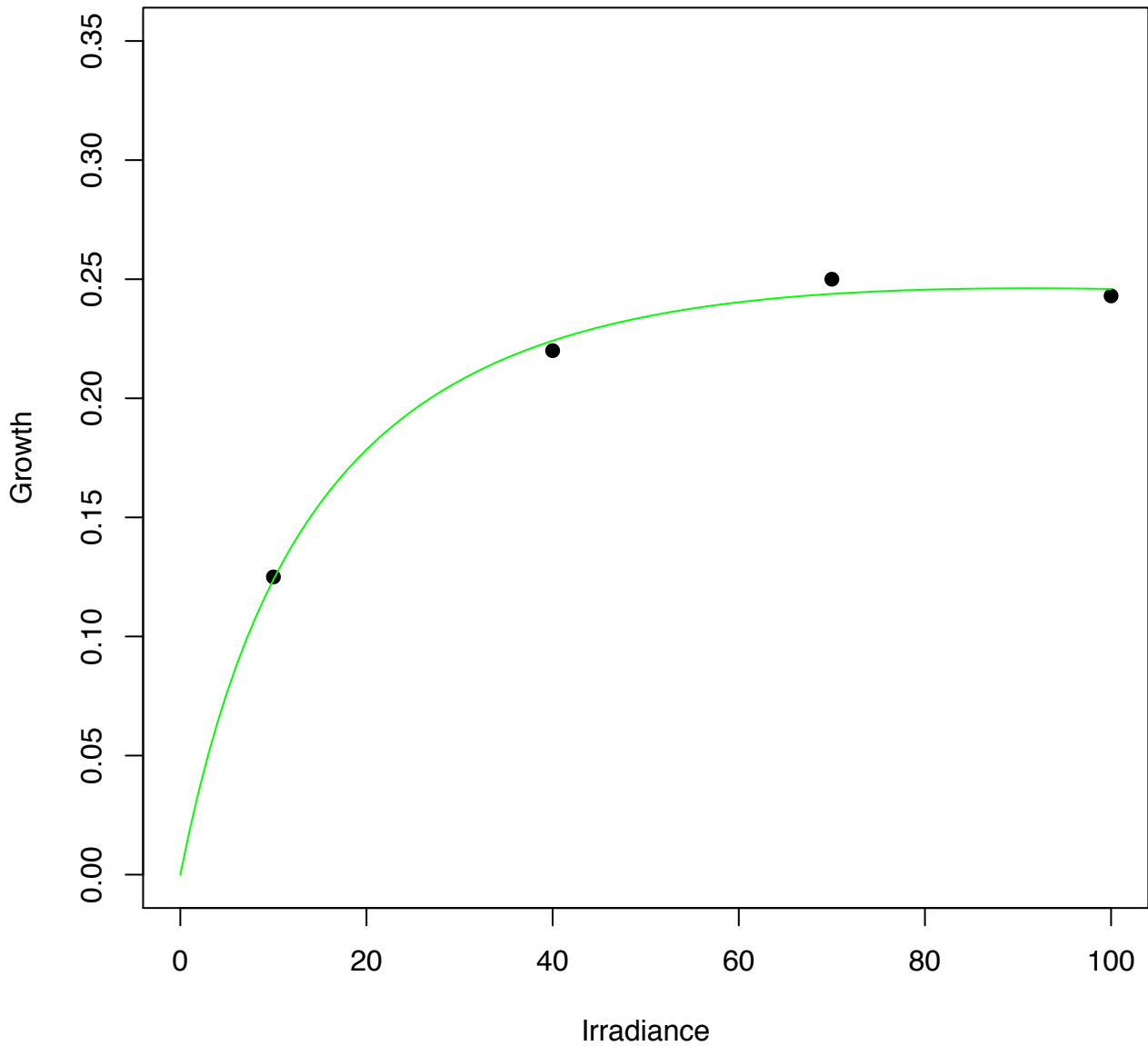
Akashiwo sanguinea 20°C



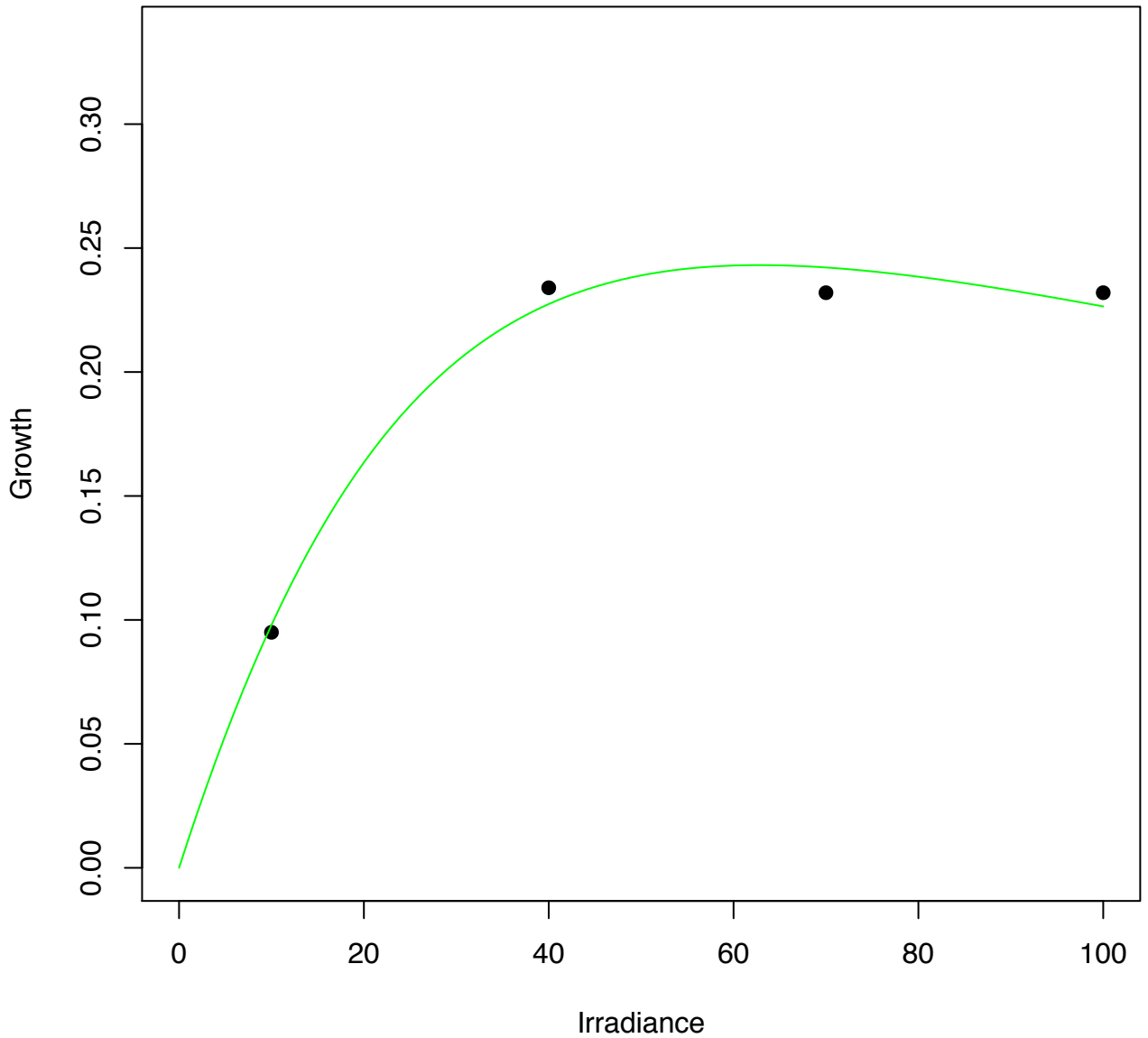
Oocystella mongolica 5°C



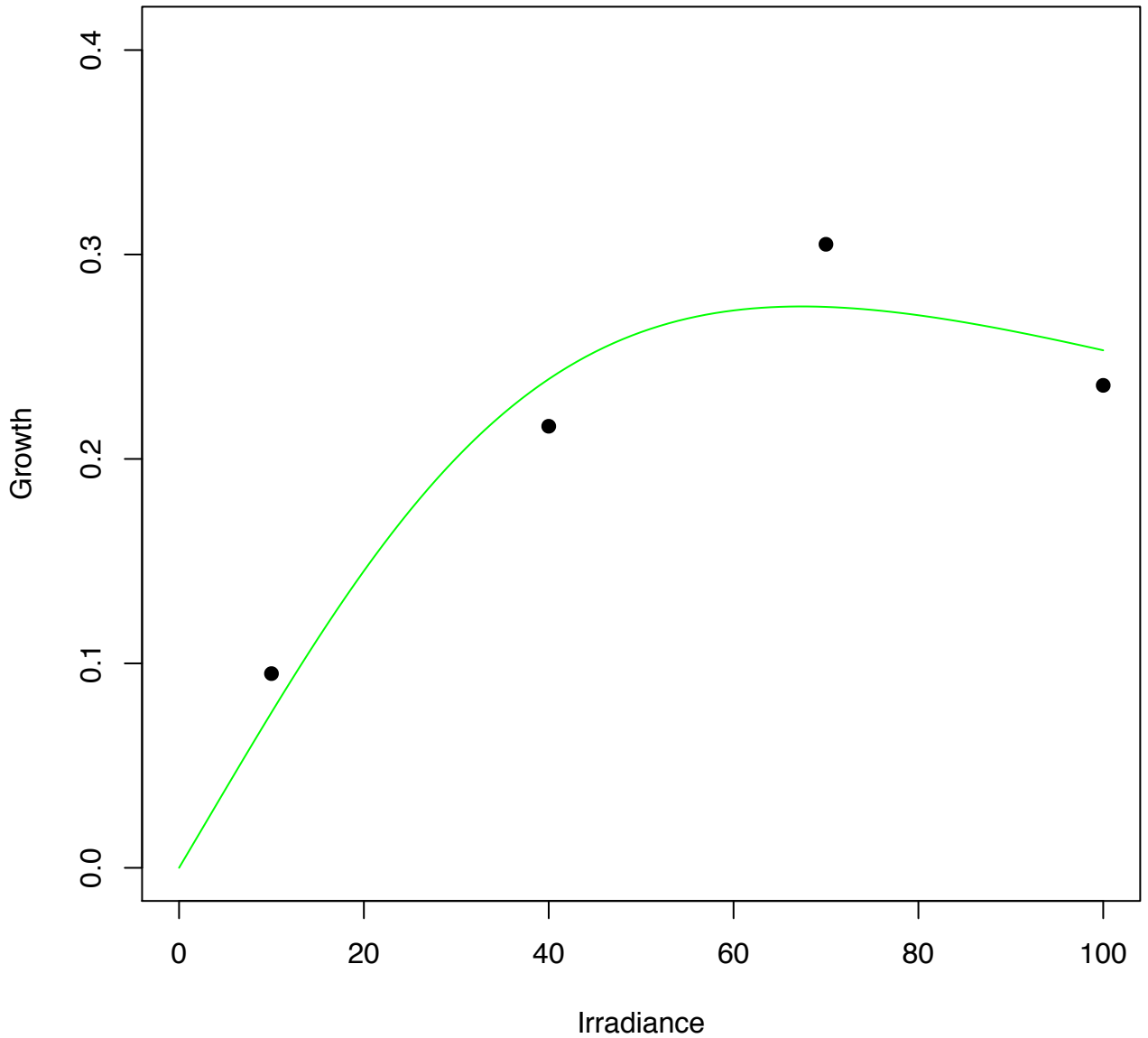
Oocystella mongolica 10°C



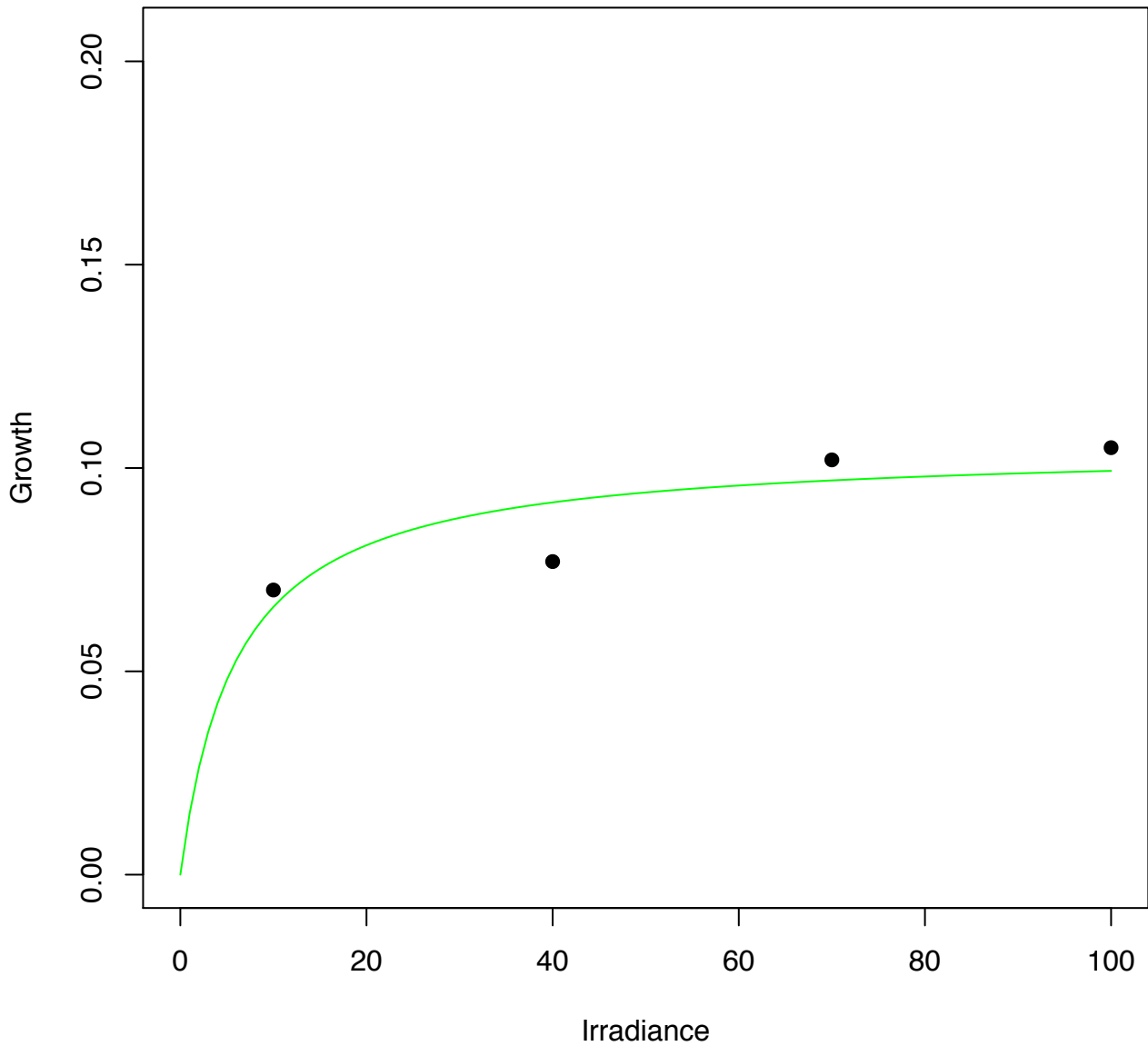
Oocystella mongolica 15°C



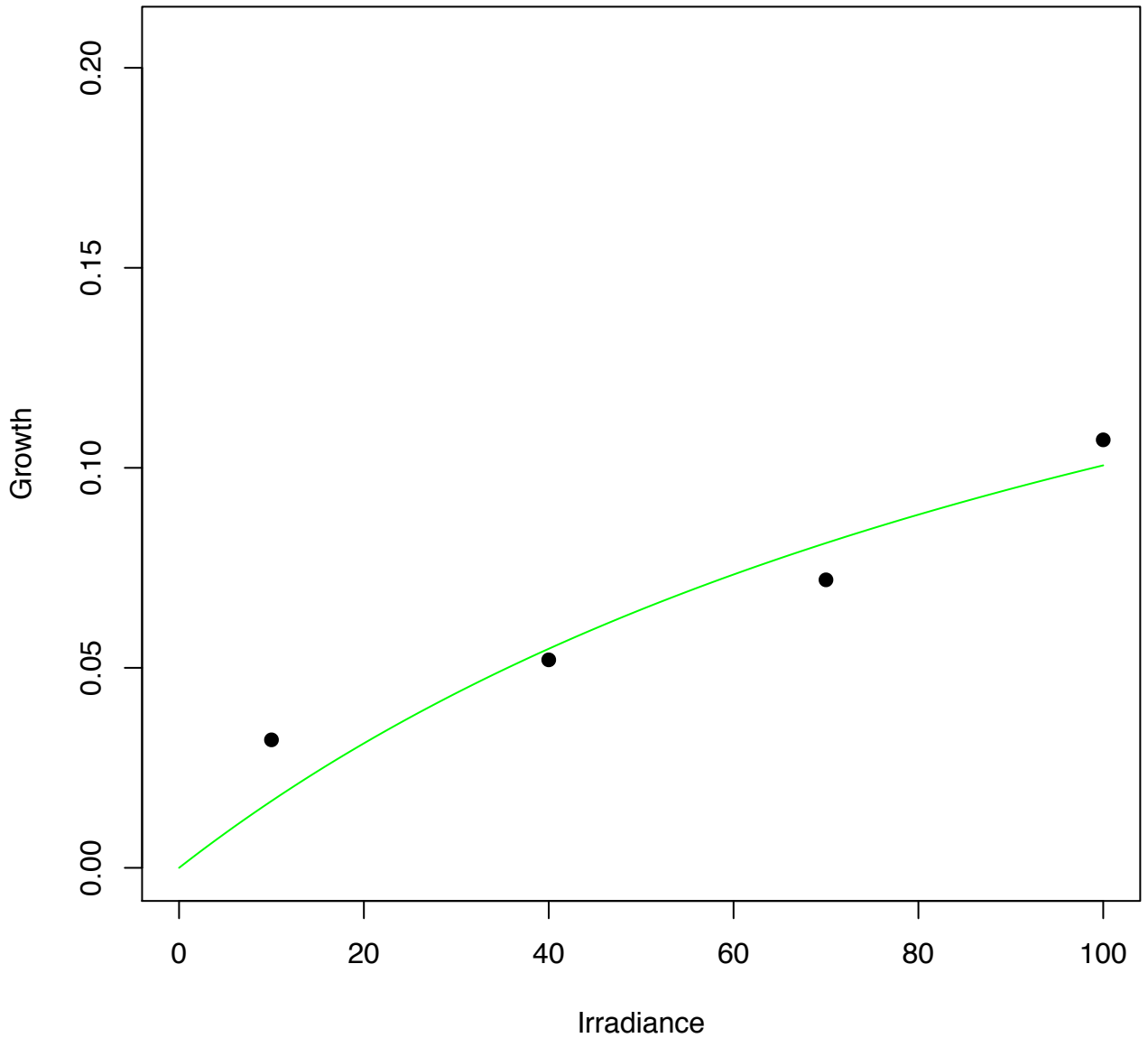
Oocystella mongolica 20°C



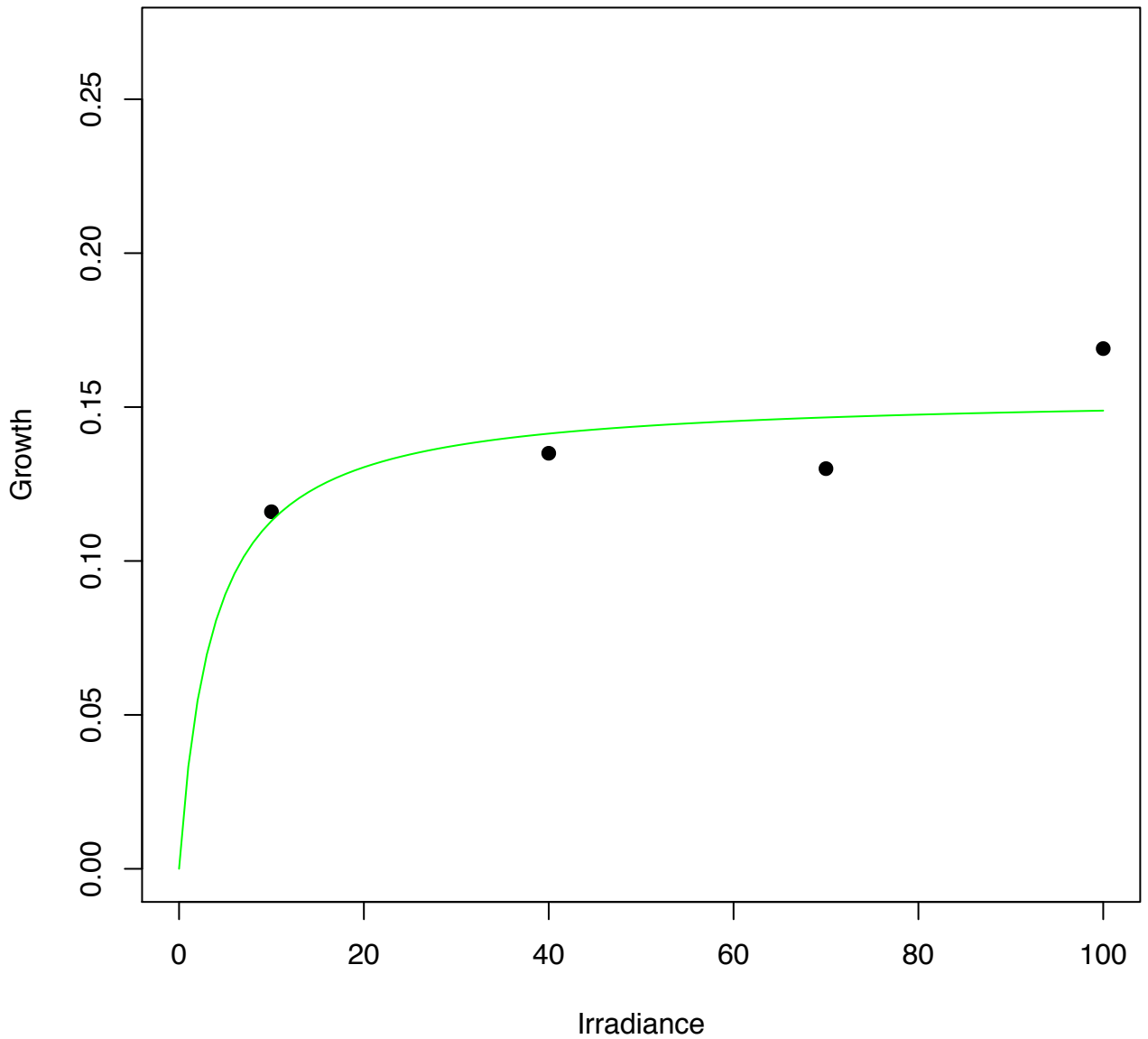
Oocystella mongolica 25°C



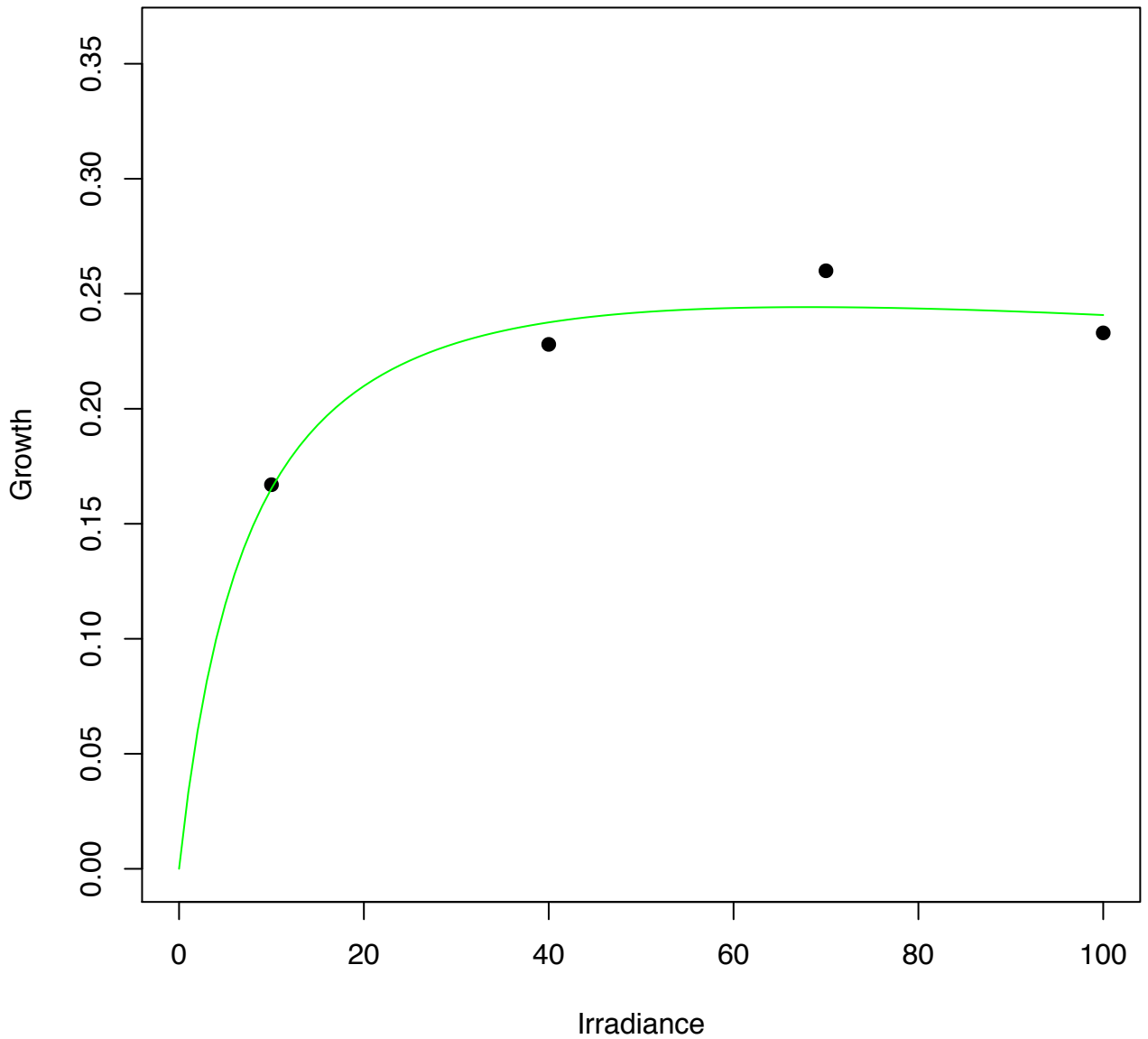
Oocystella mongolica 30°C



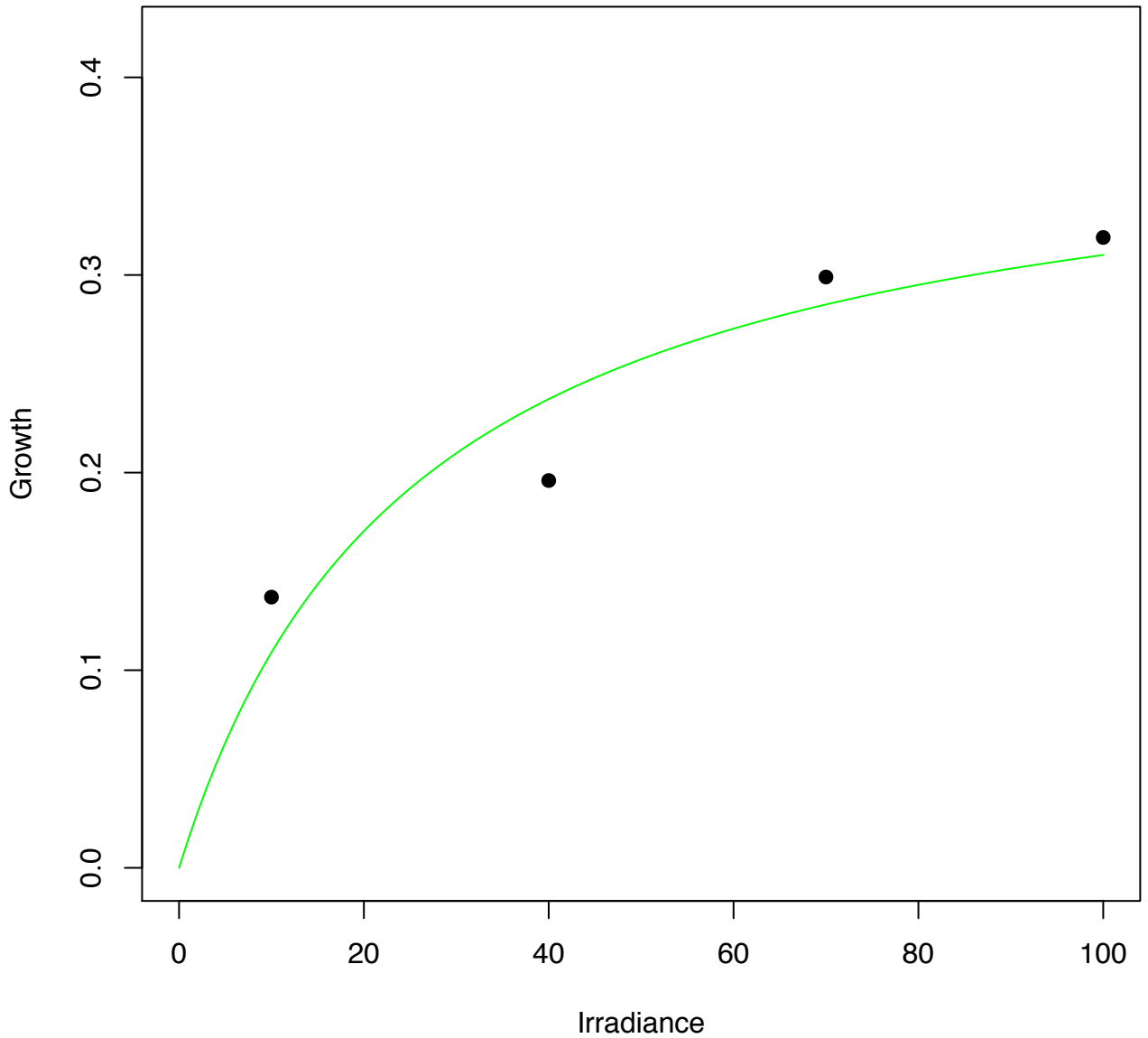
Pseudodidymocystis planctonica 5°C



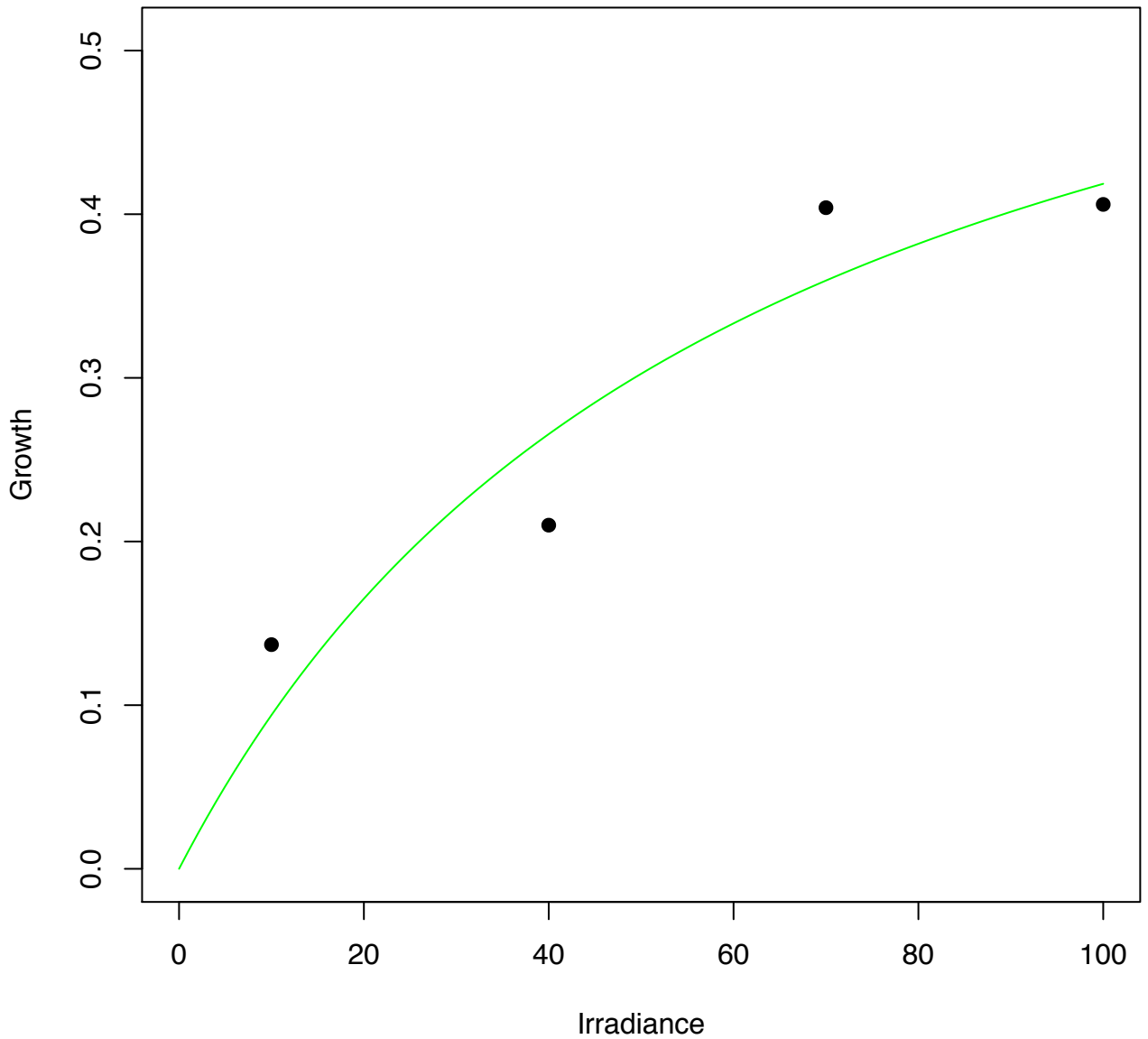
Pseudodidymocystis planctonica 10°C



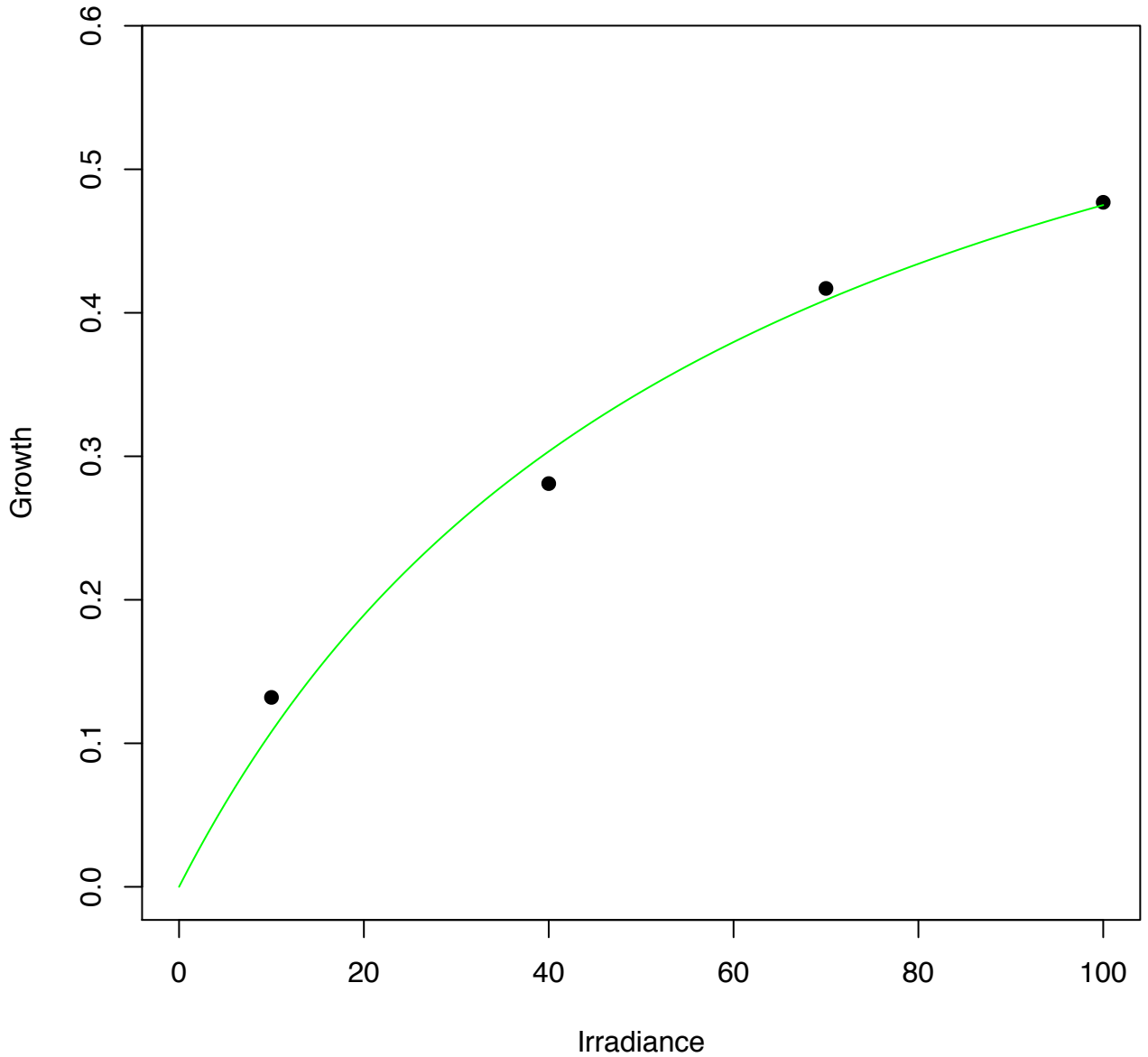
Pseudodidymocystis planctonica 15°C



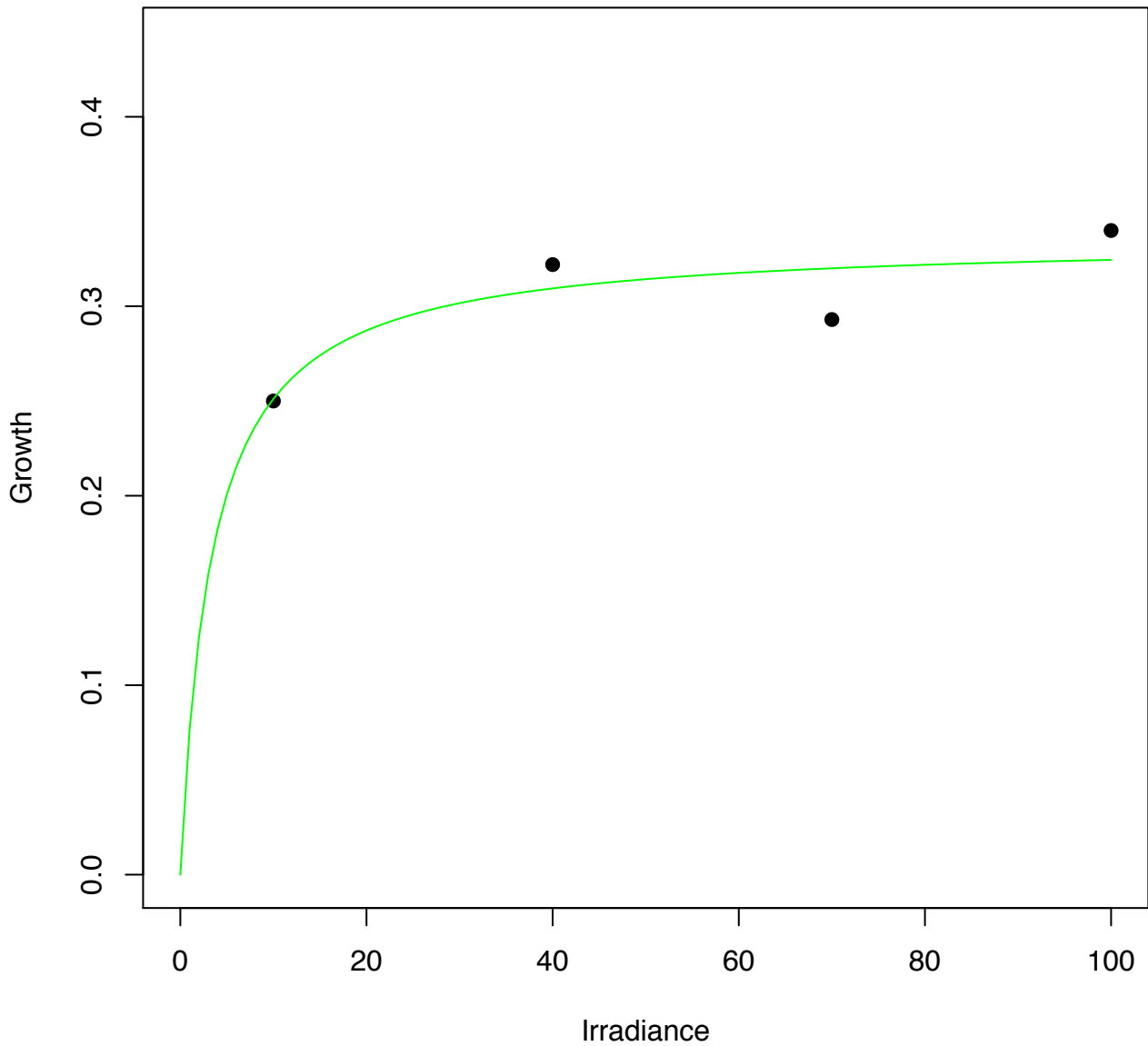
Pseudodidymocystis planctonica 20°C



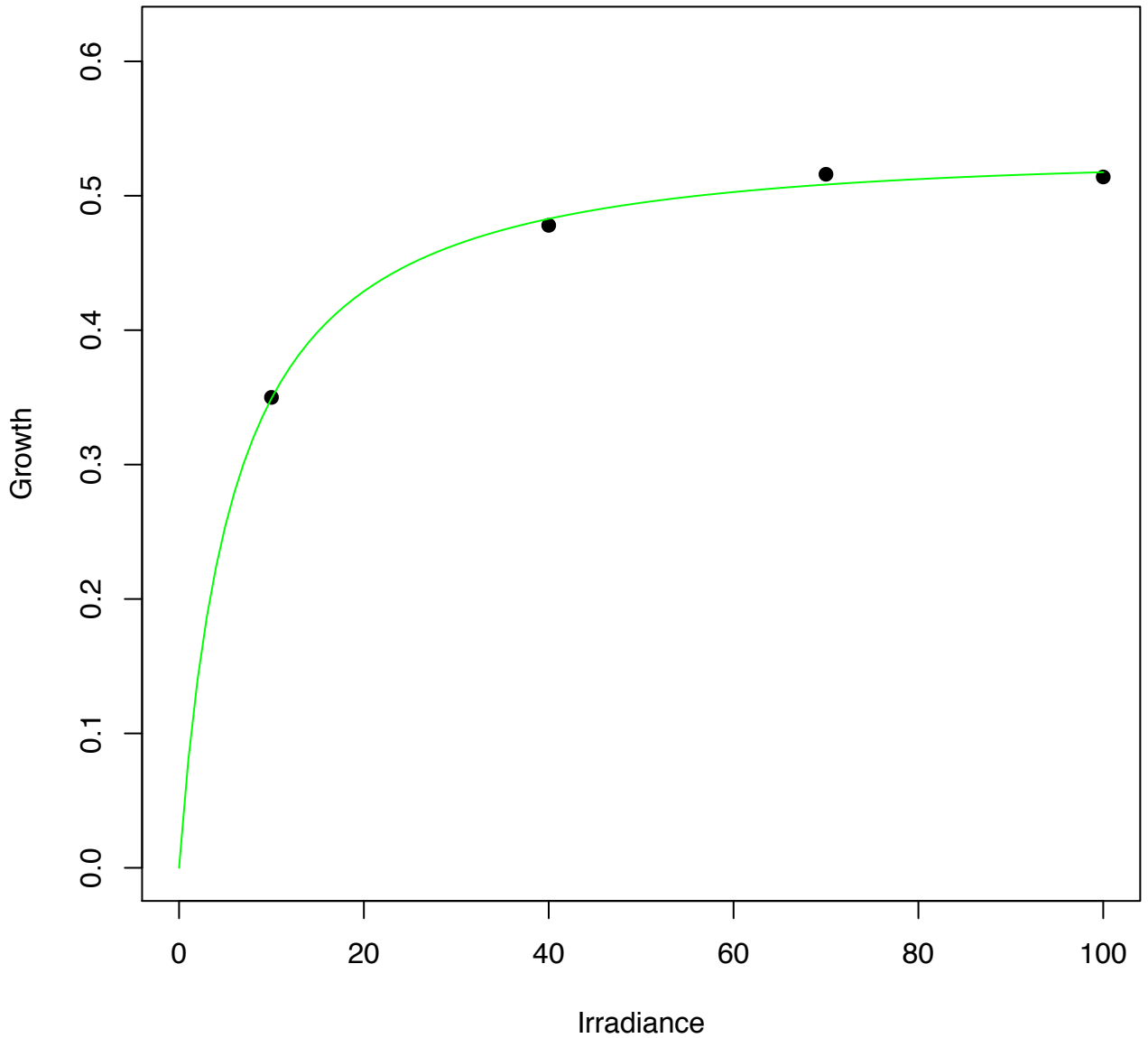
Pseudodidymocystis planctonica 25°C



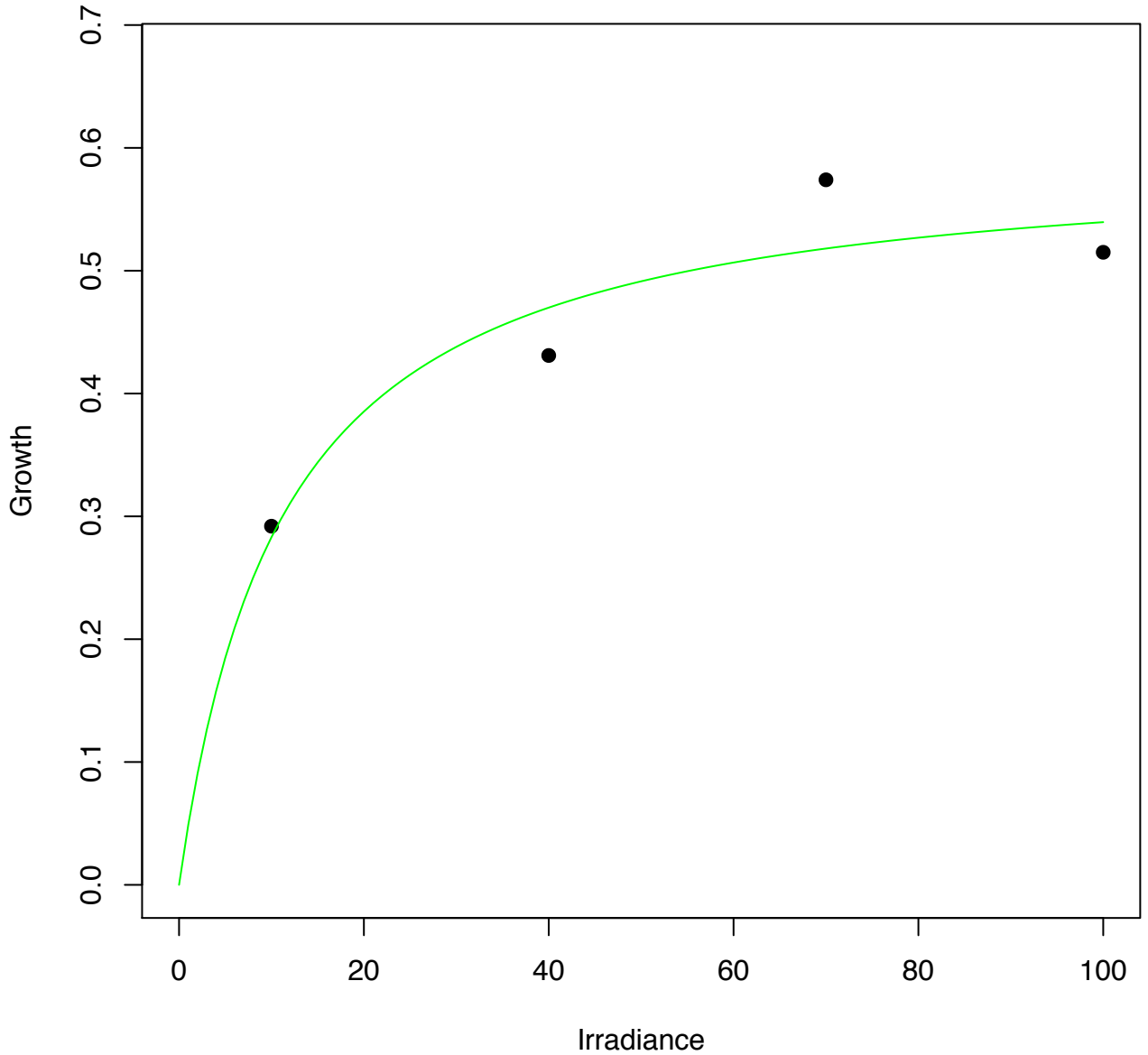
Monoraphidium contortum 5°C



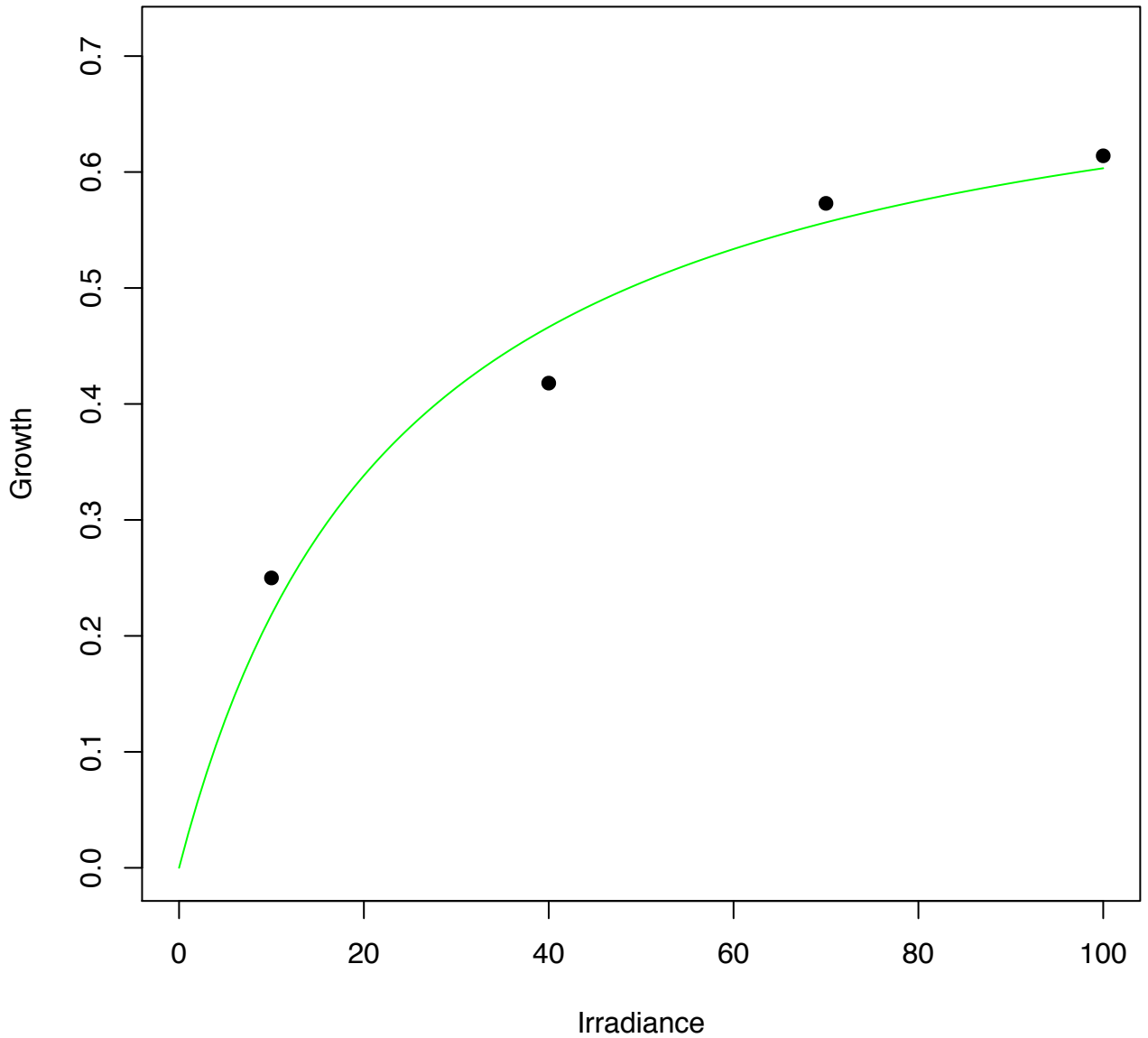
Monoraphidium contortum 10°C



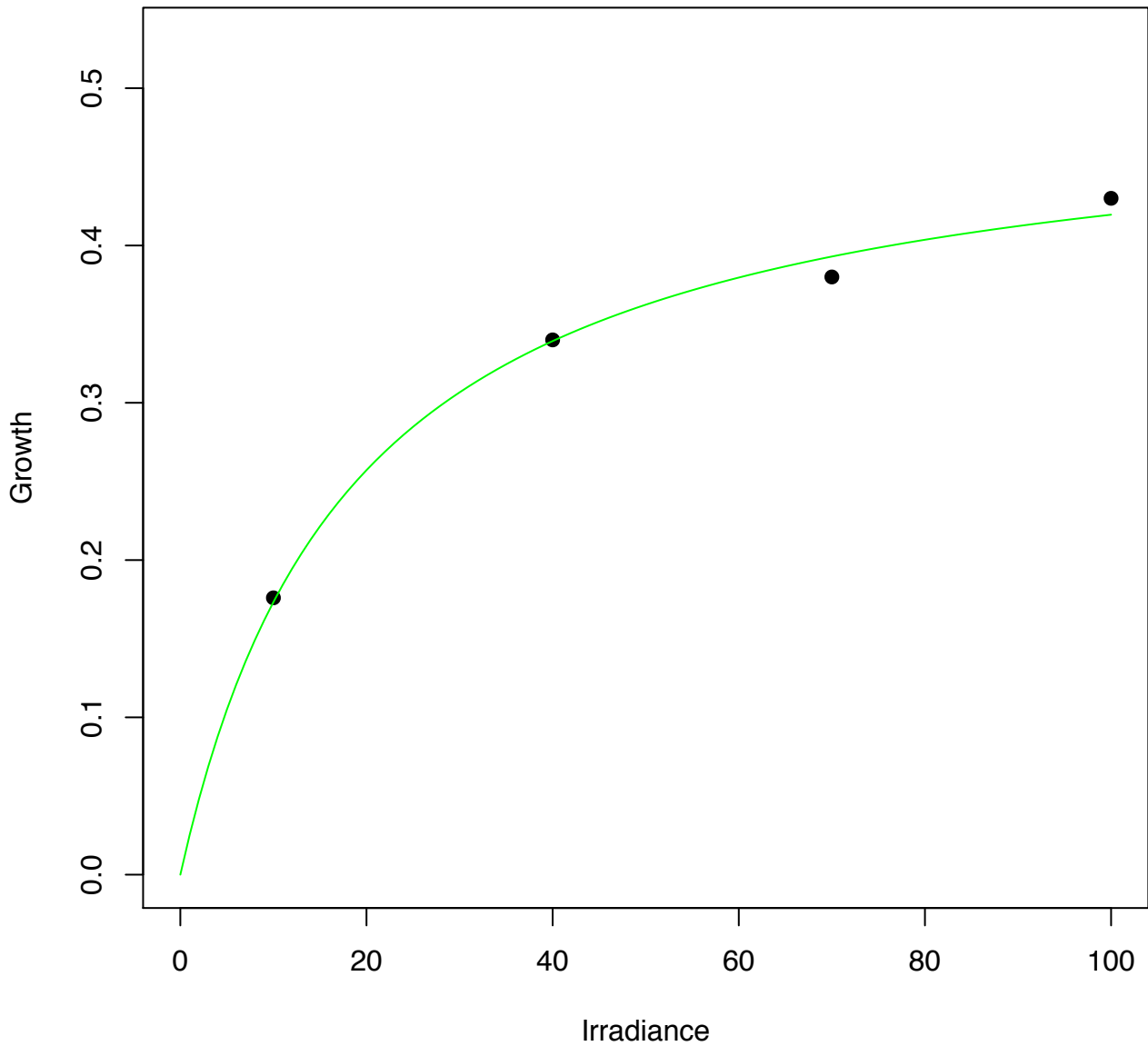
Monoraphidium contortum 15°C



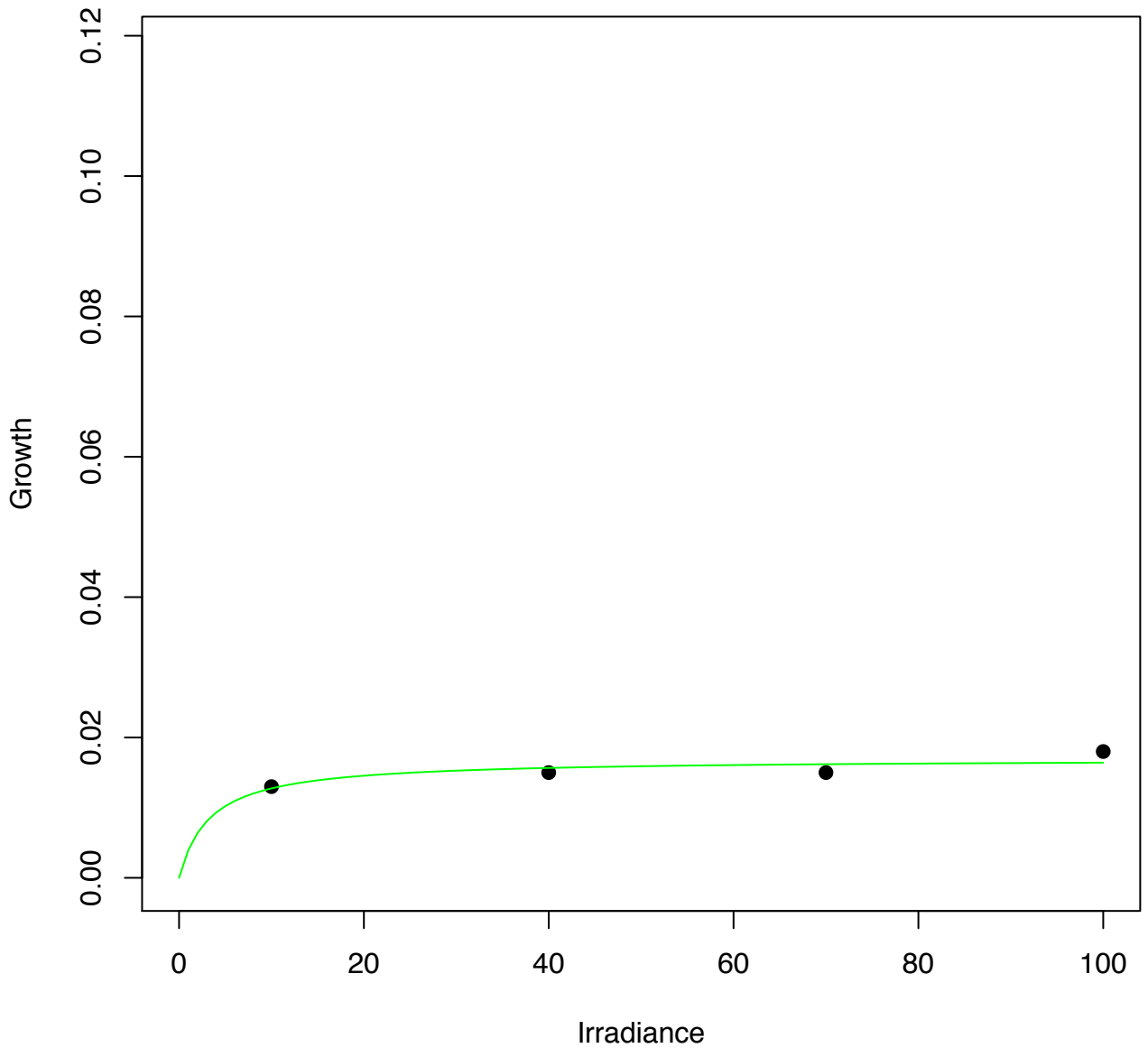
Monoraphidium contortum 20°C



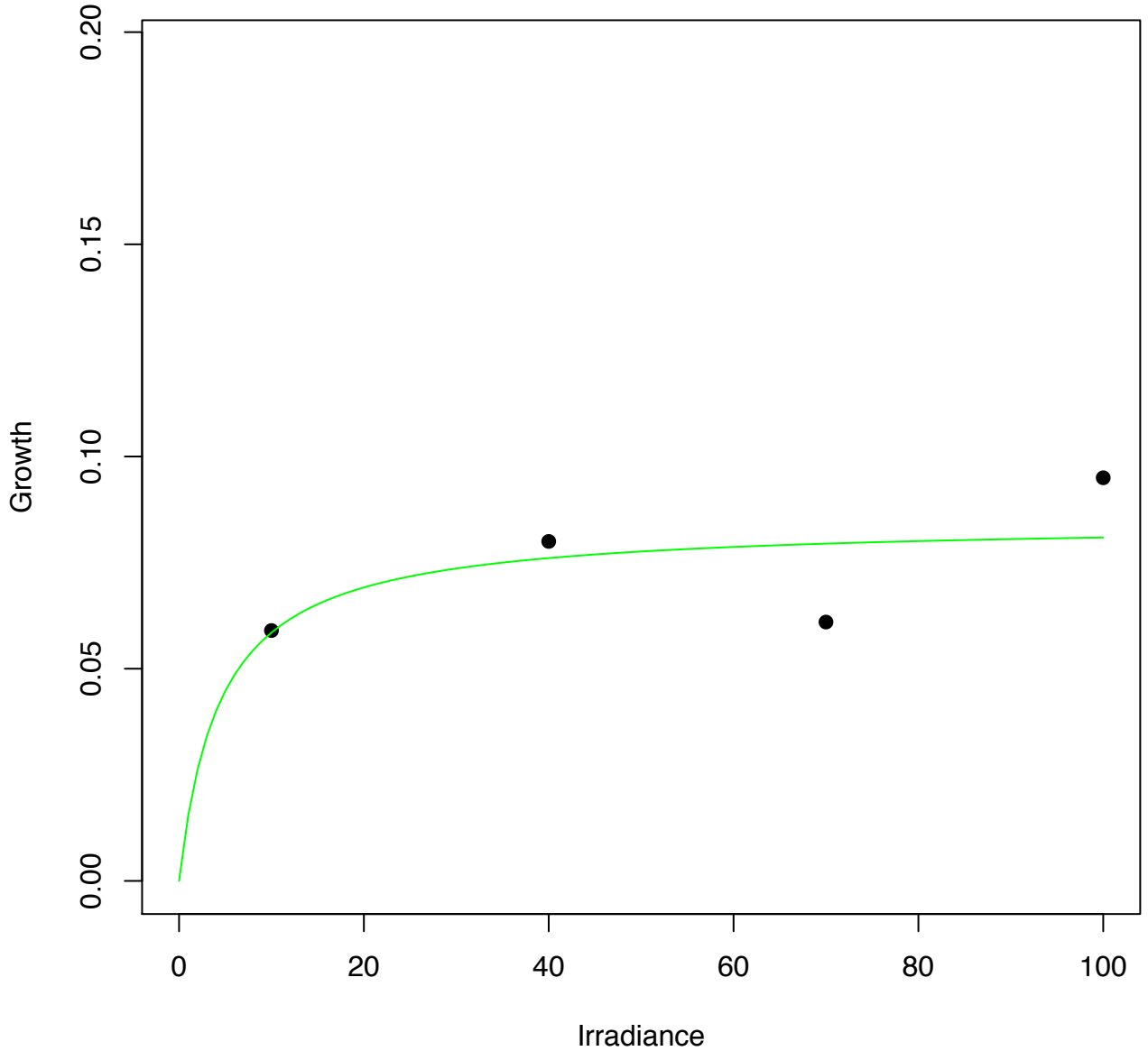
Monoraphidium contortum 25°C



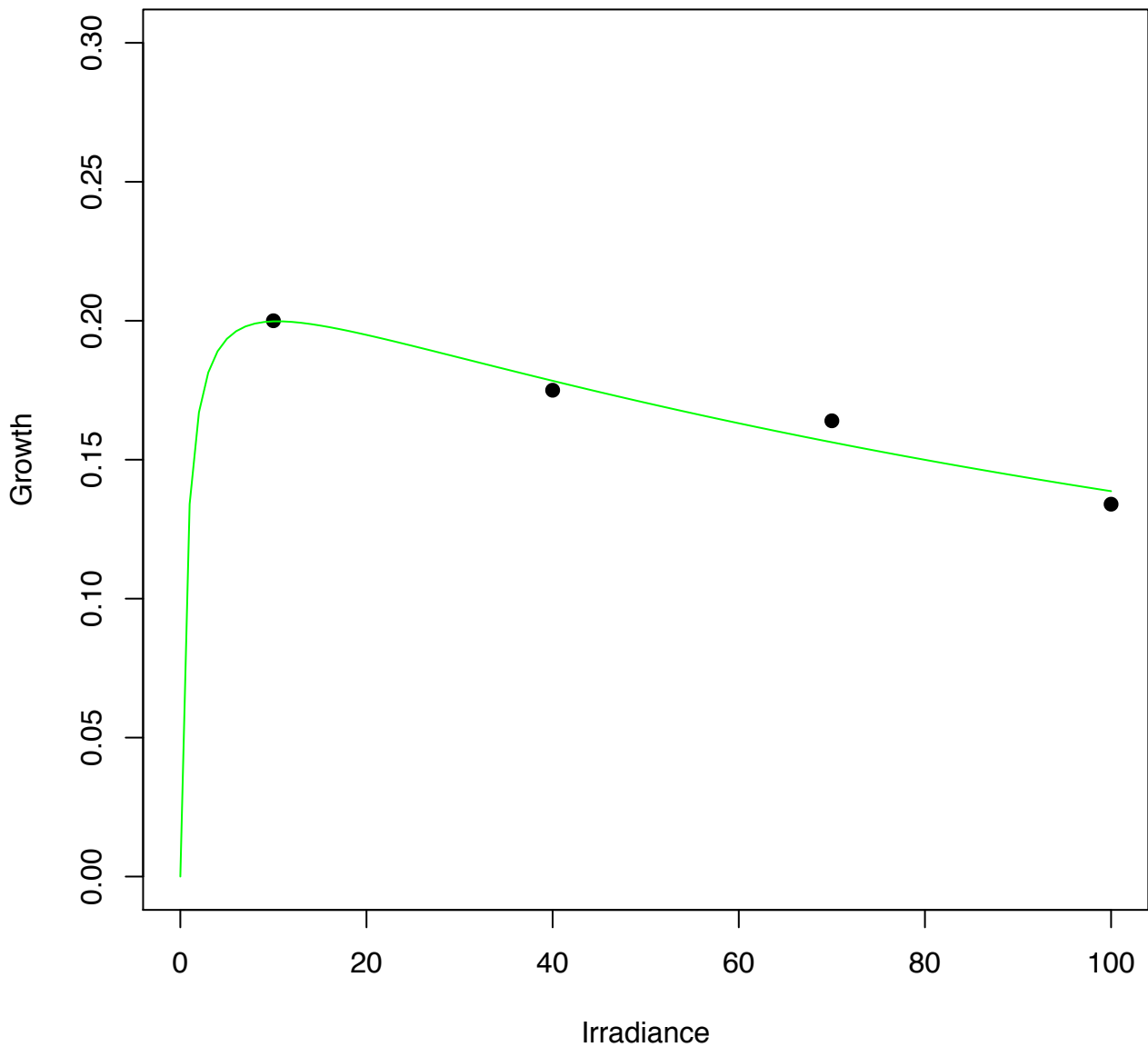
Monoraphidium contortum 30°C



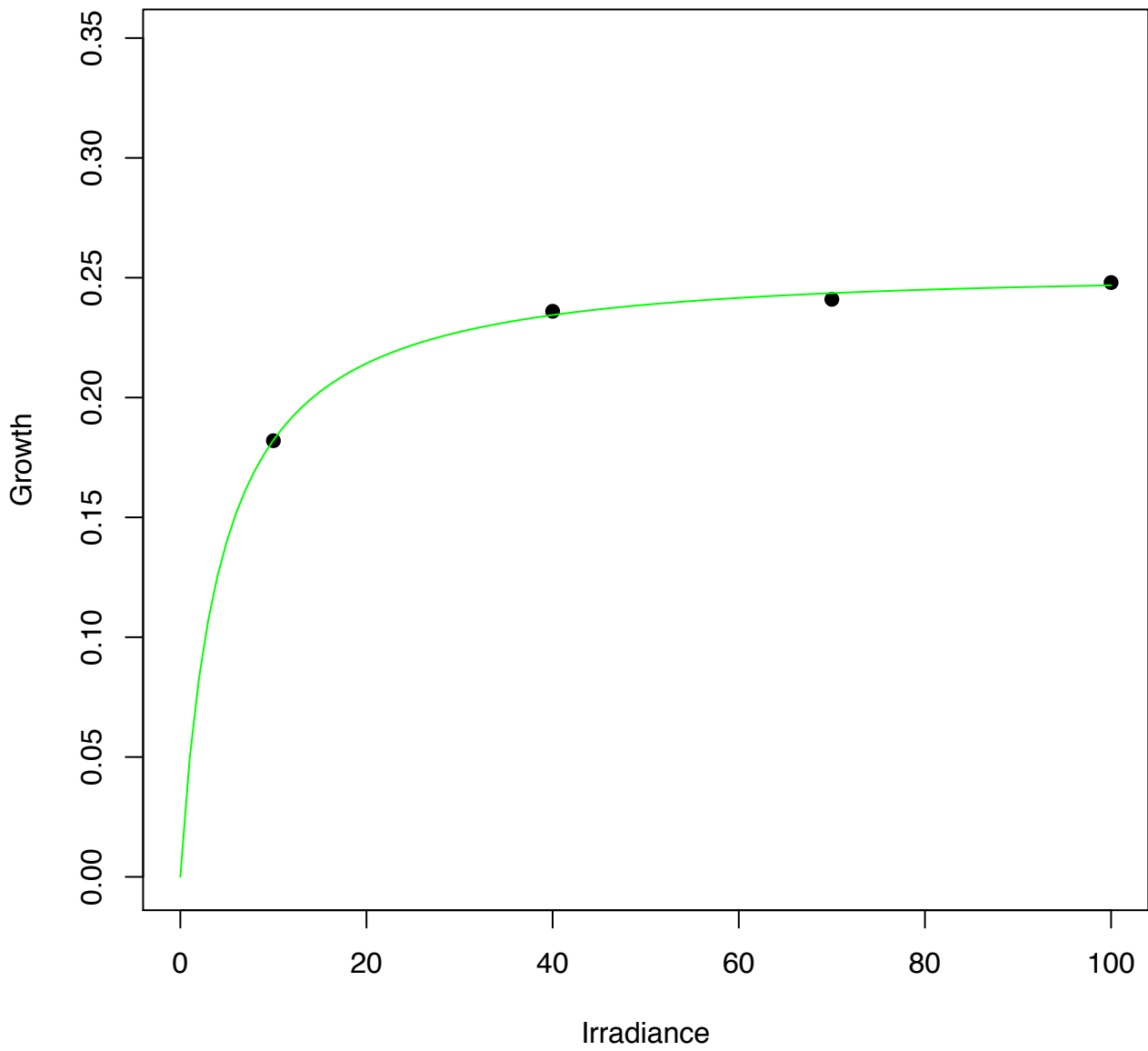
Closterium parvulum 5°C



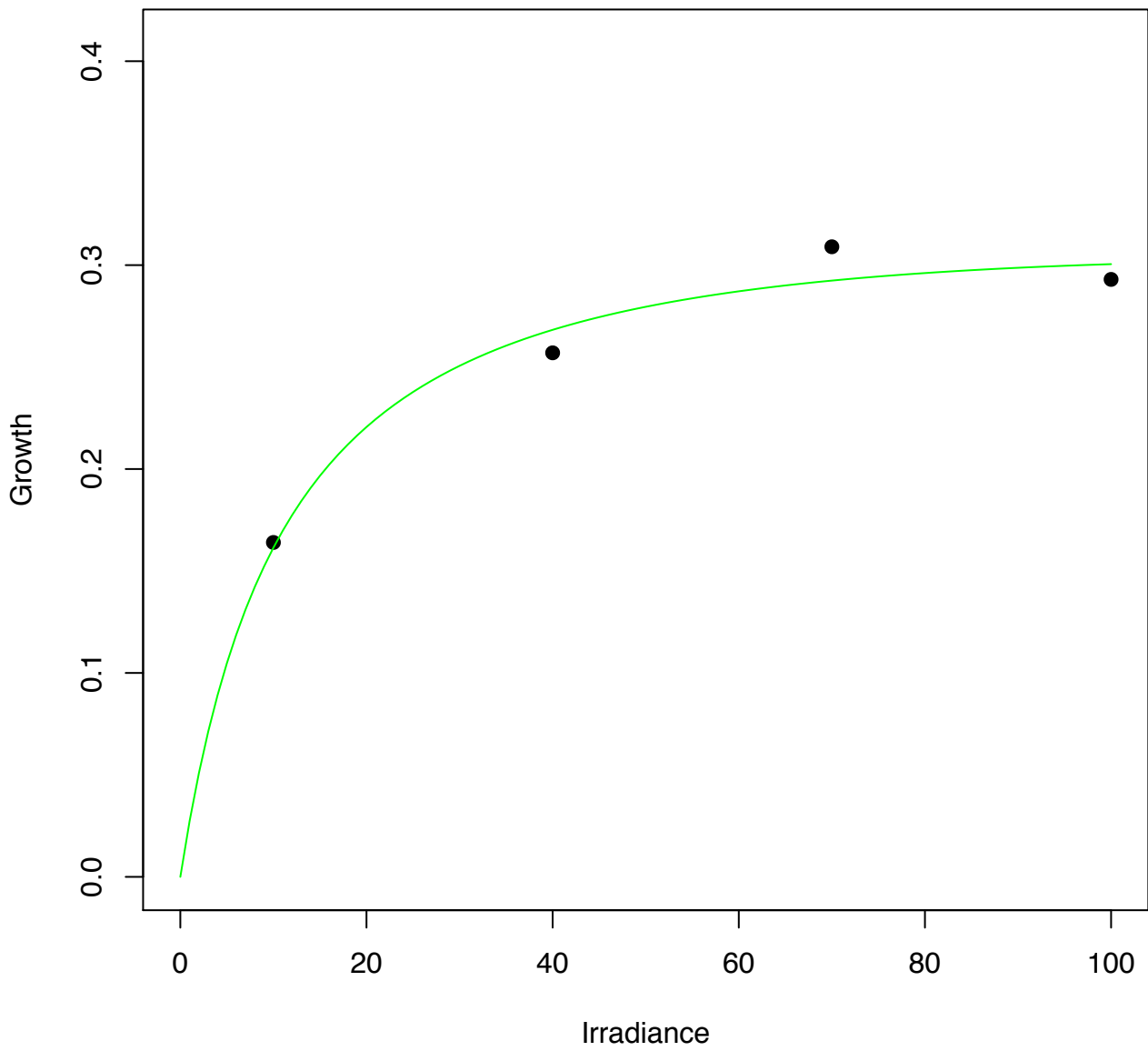
Closterium parvulum 10°C



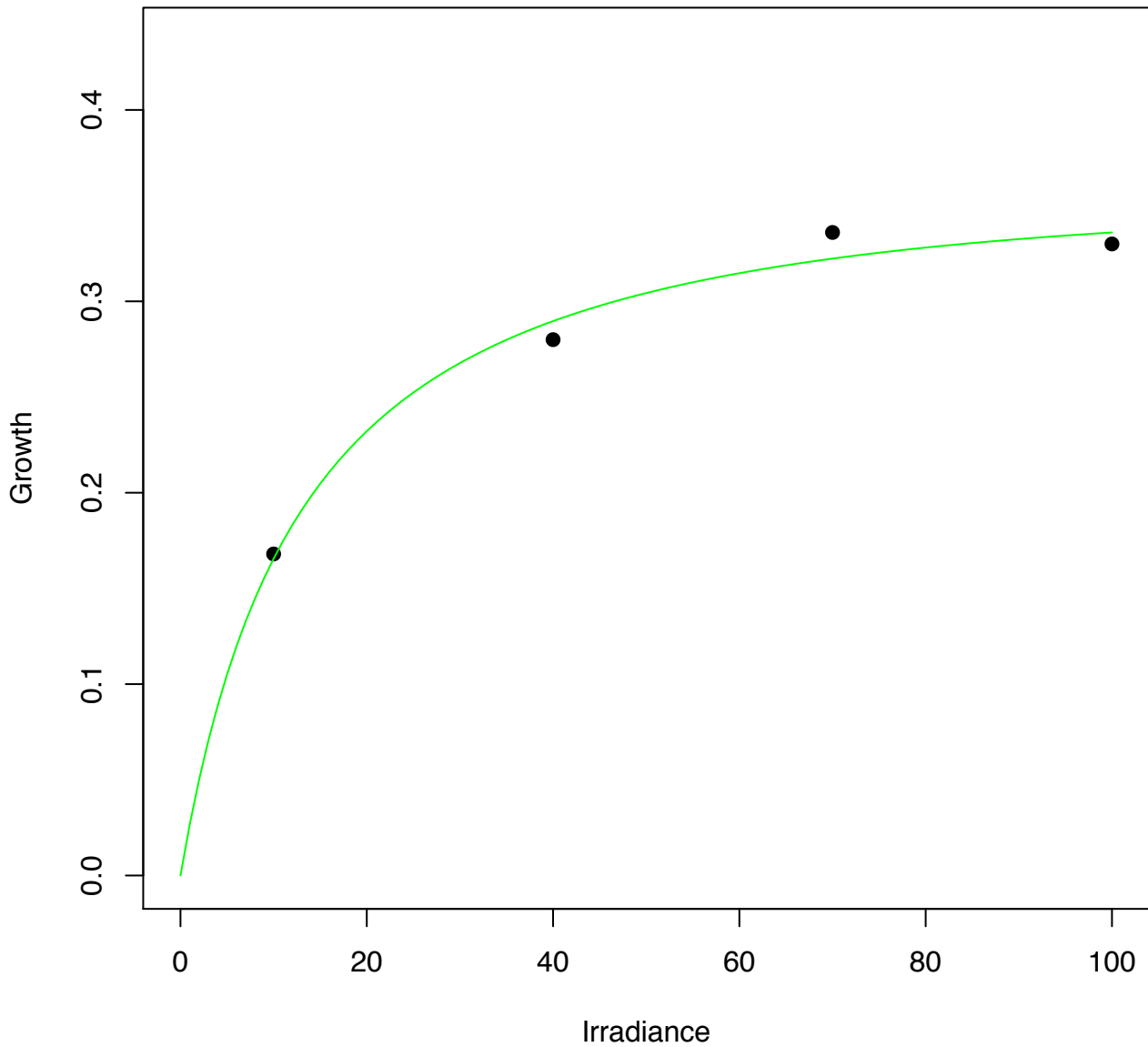
Closterium parvulum 15°C



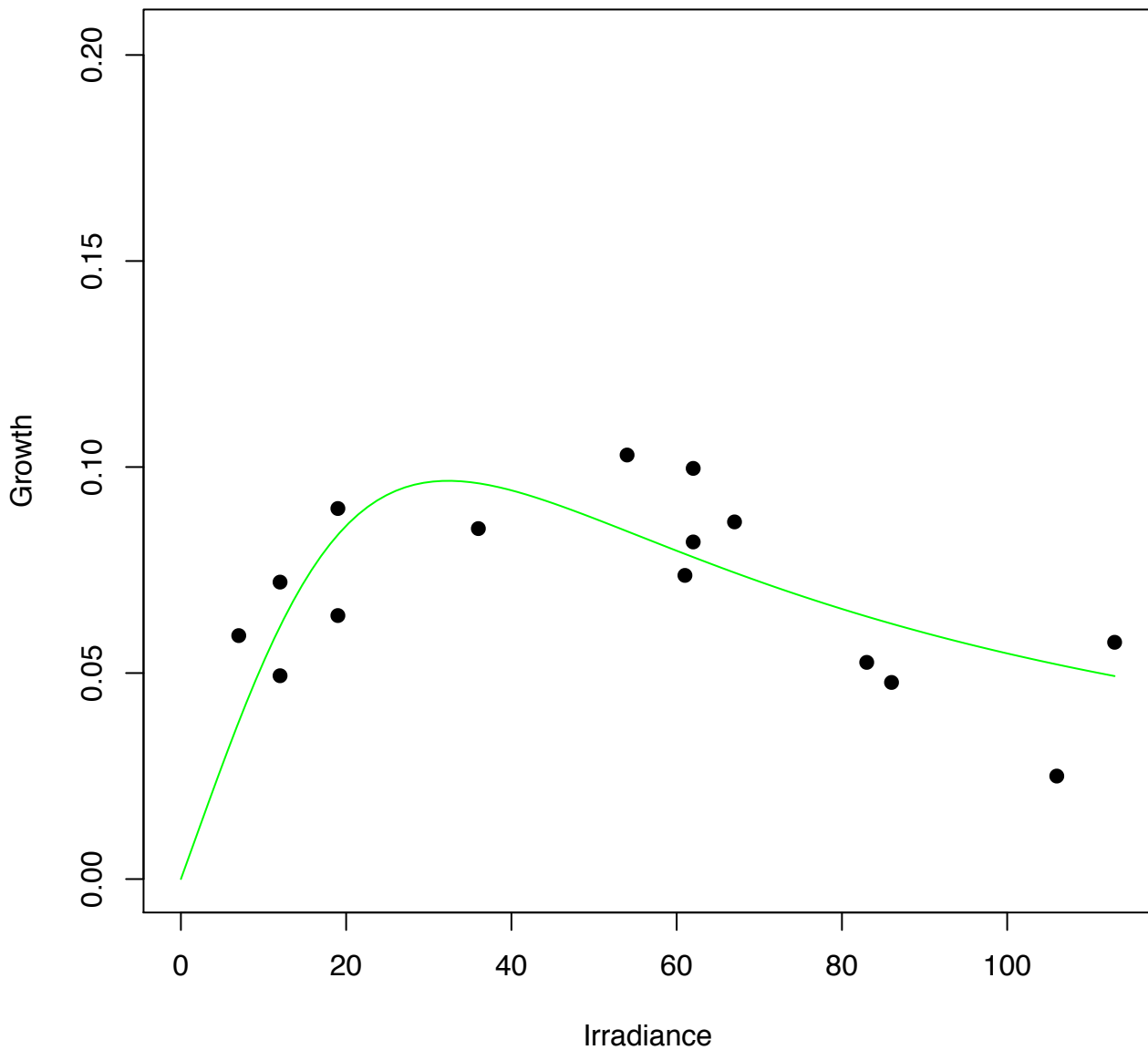
Closterium parvulum 20°C



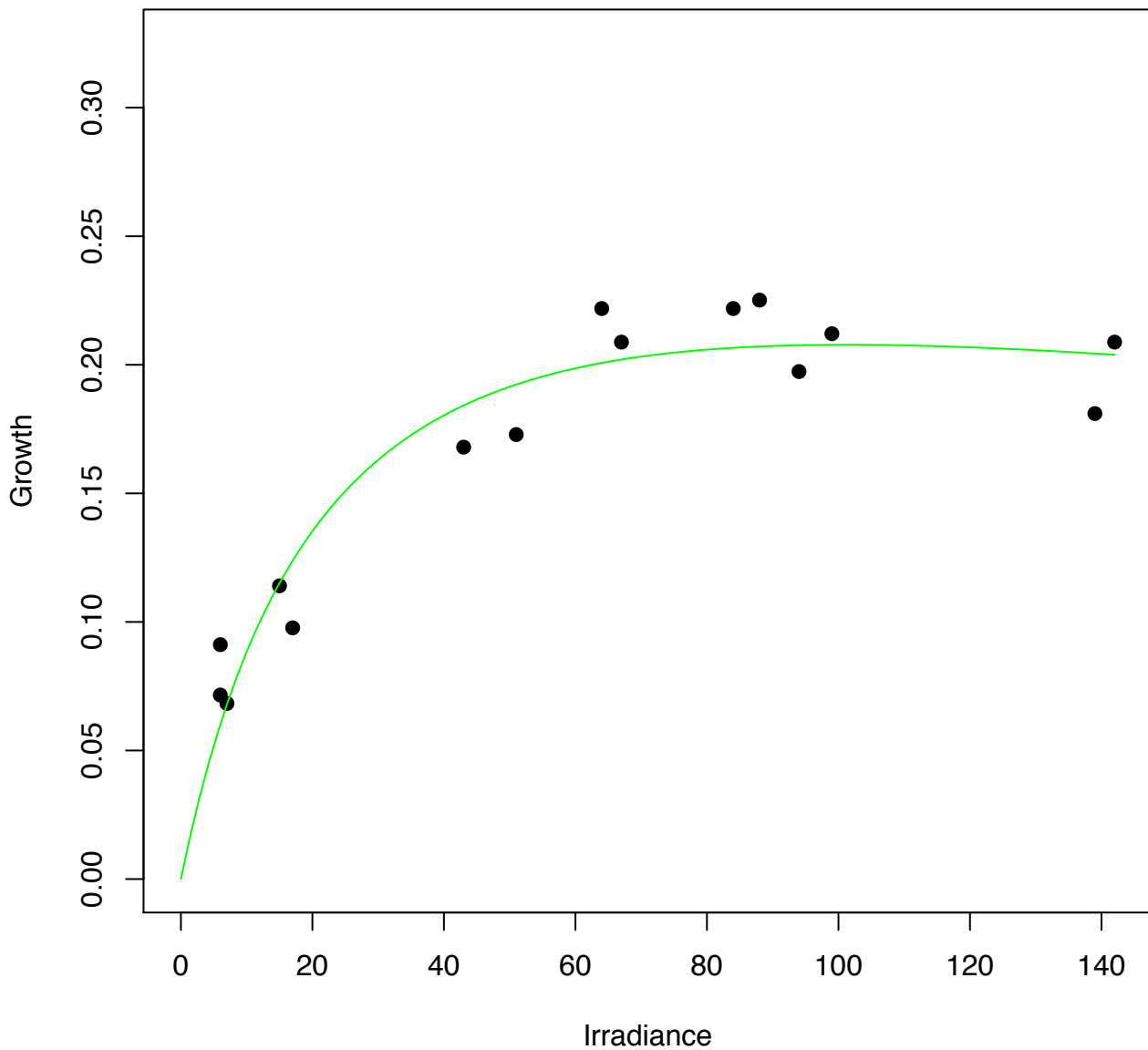
Closterium parvulum 25°C



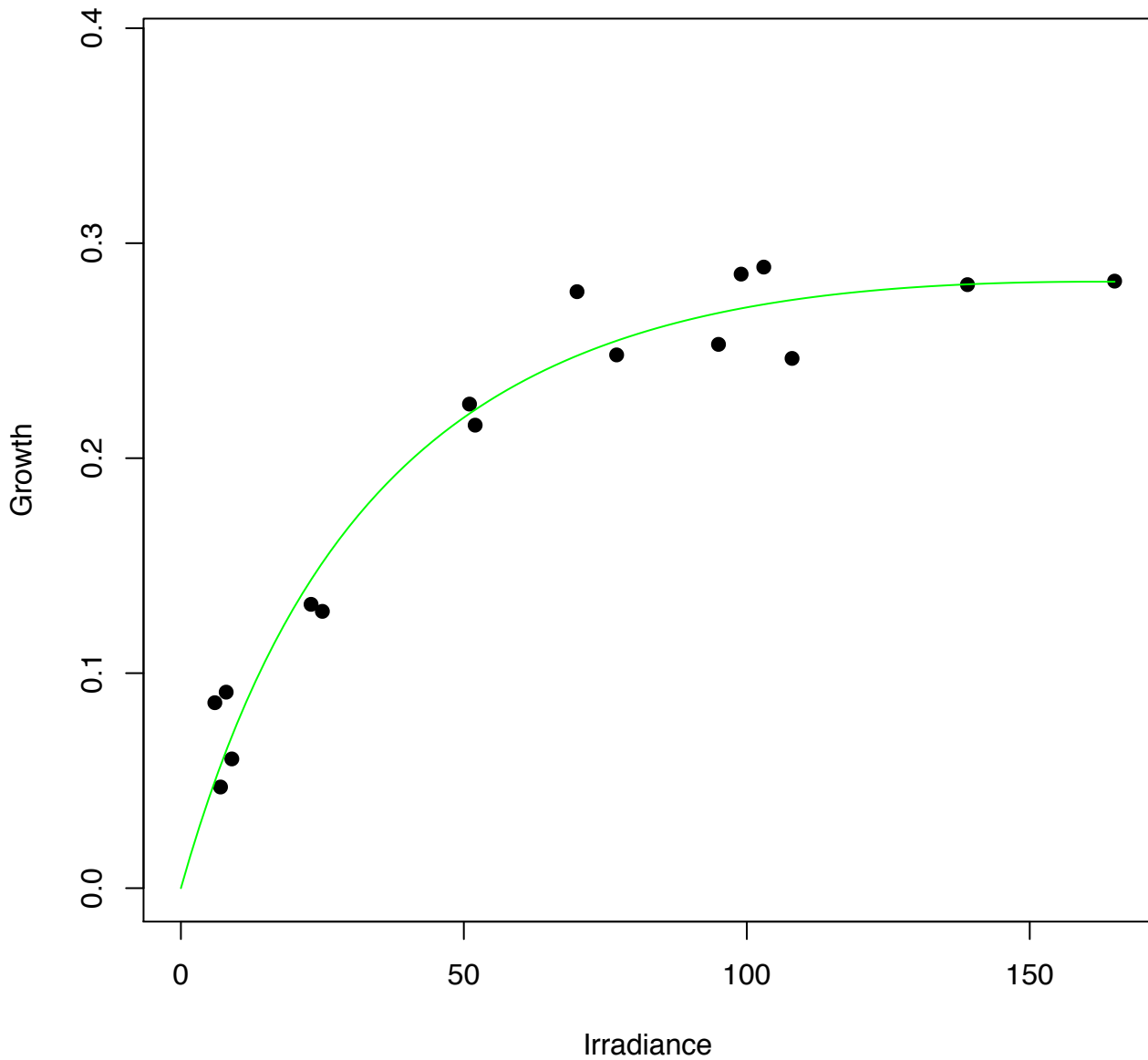
Ochromonas sp. 13°C



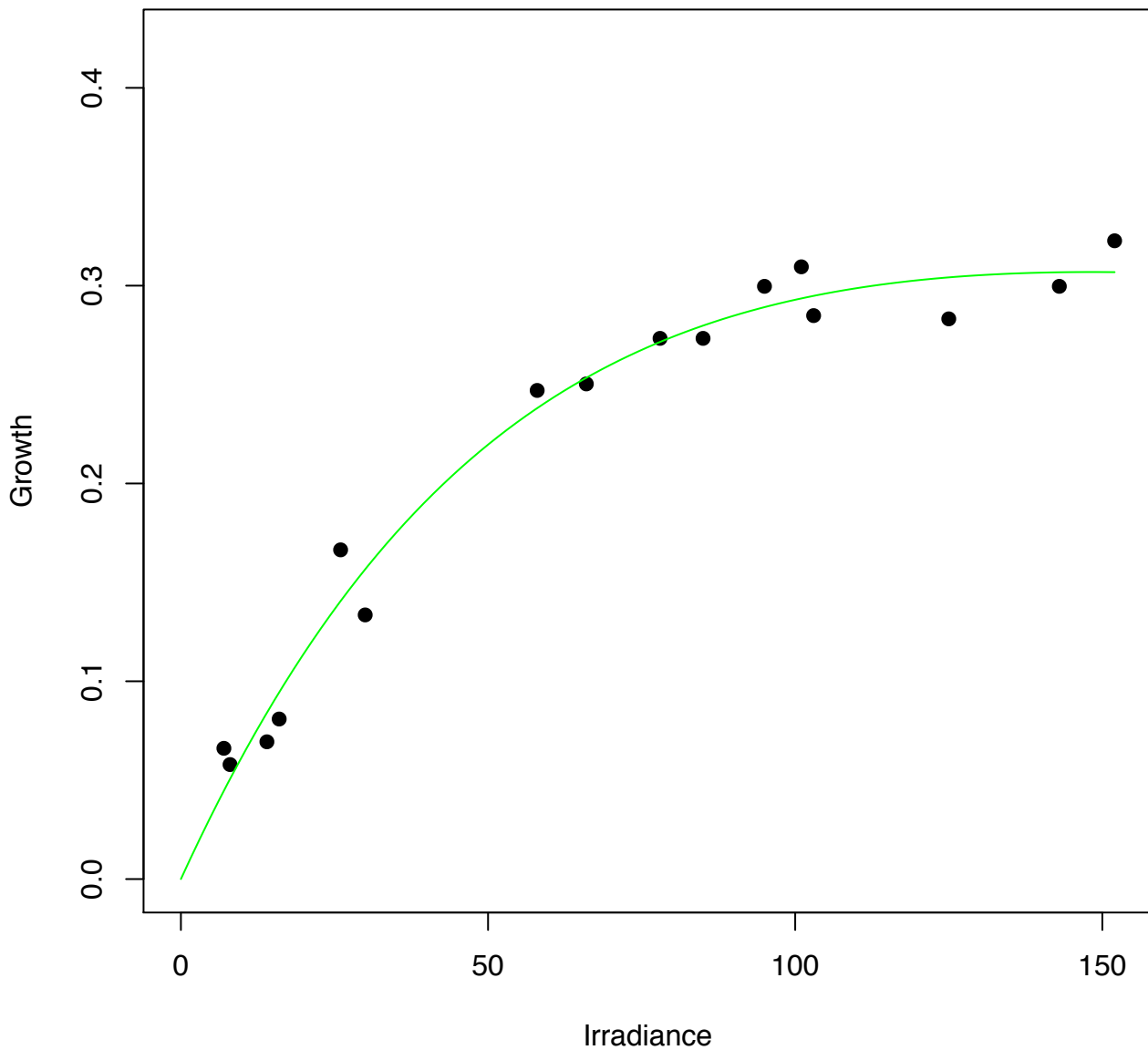
Ochromonas sp. 17°C



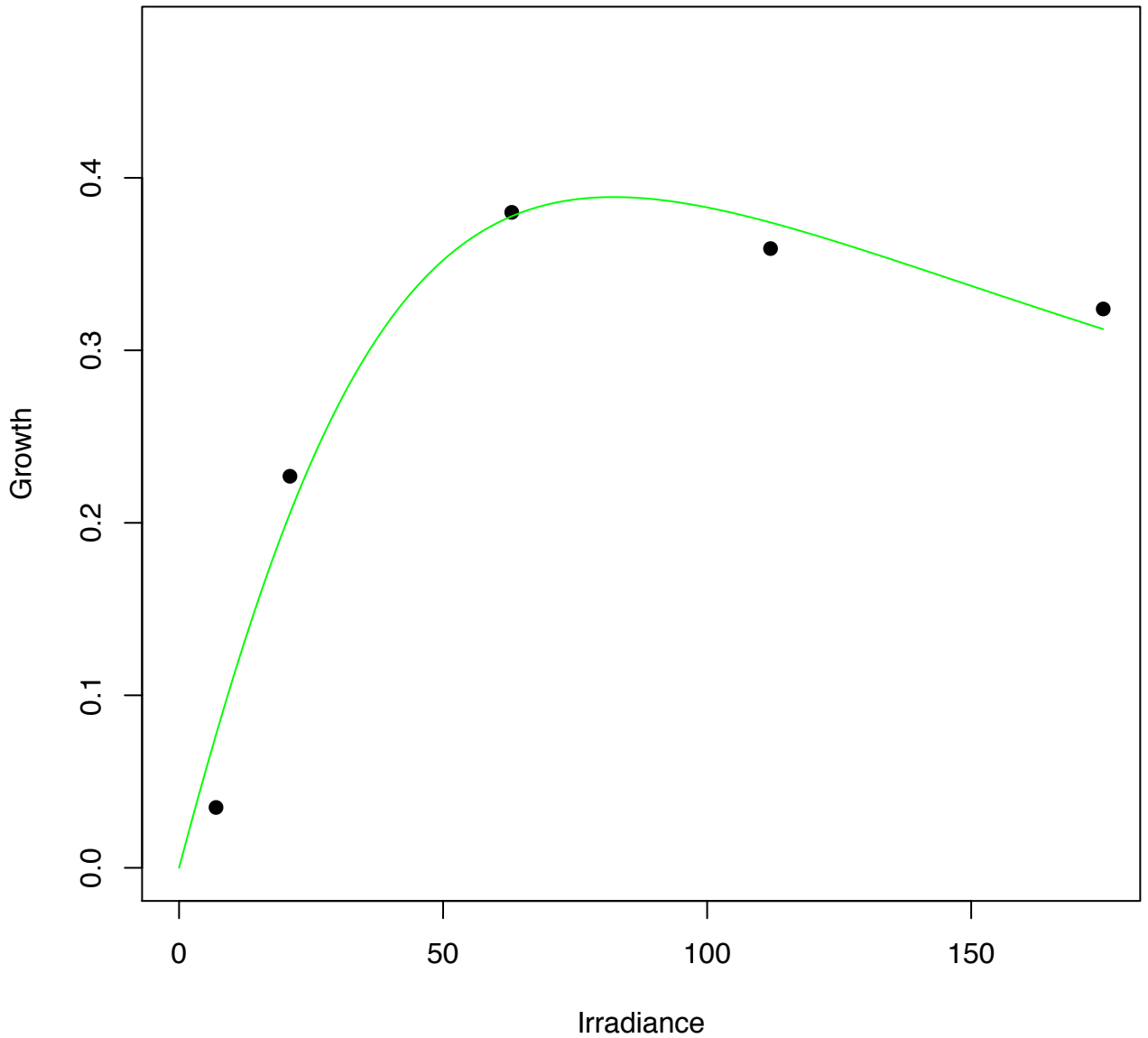
Ochromonas sp. 21°C



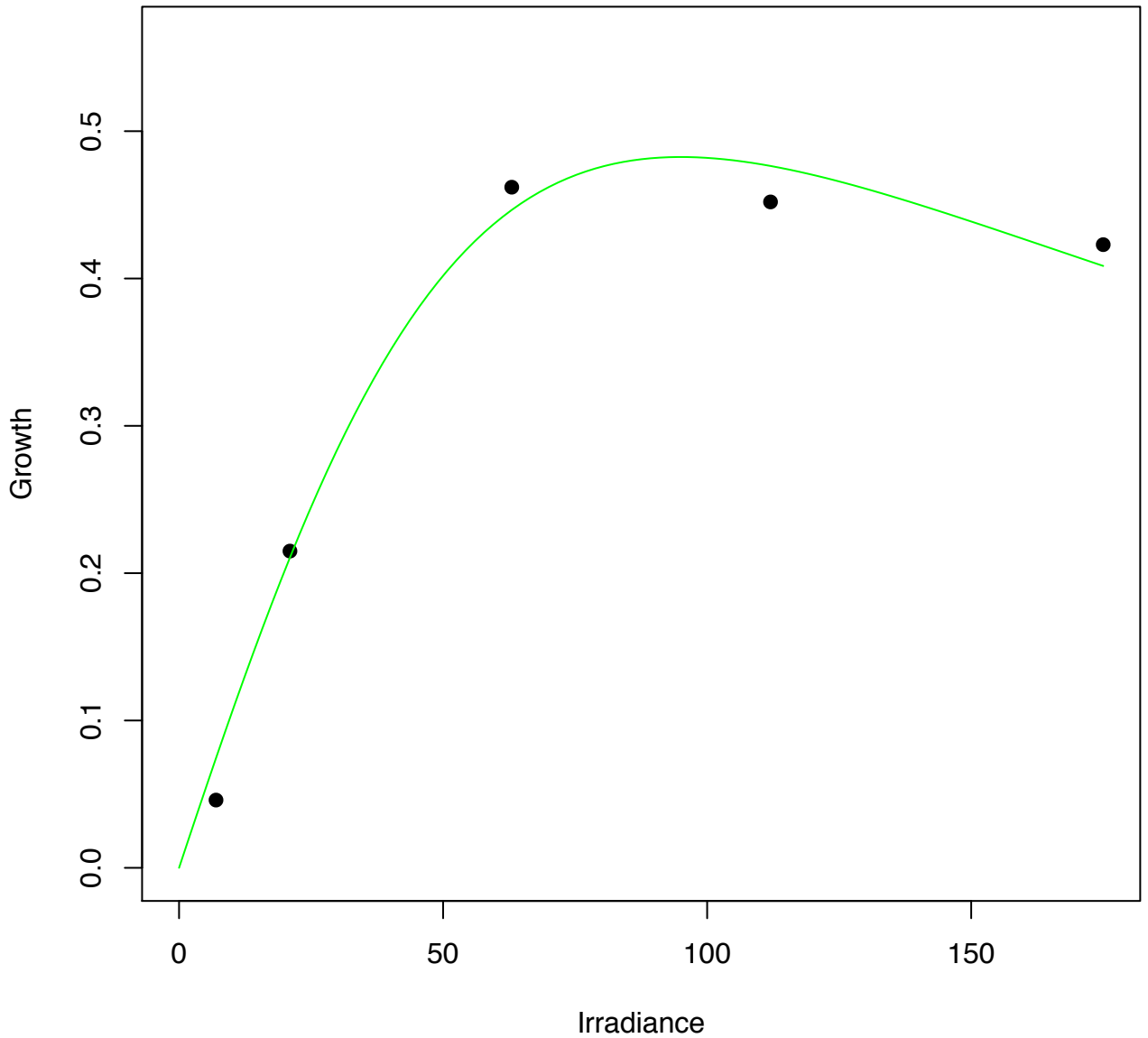
Ochromonas sp. 25°C



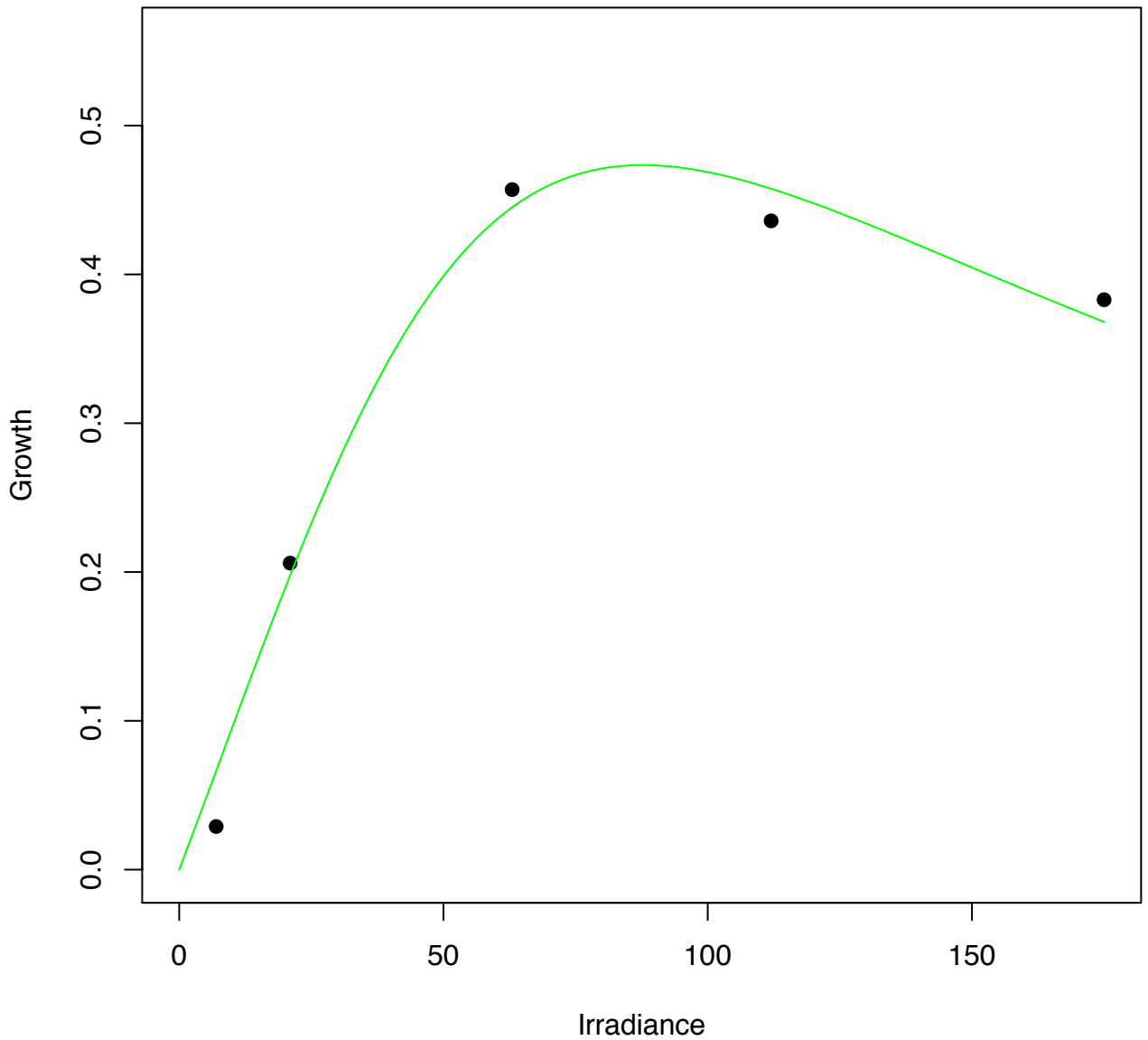
Diacronema lutheri 17°C



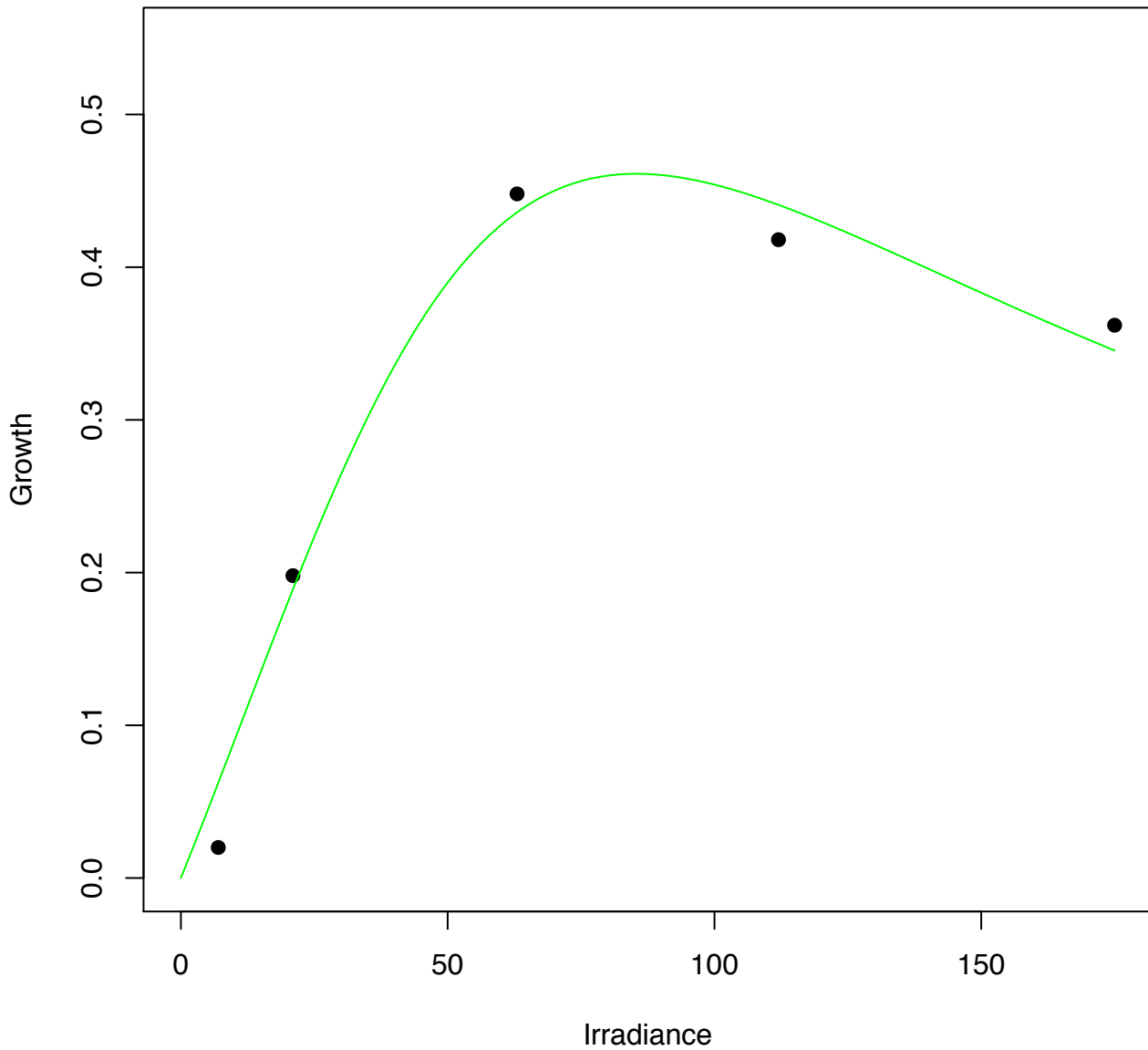
Diacronema lutheri 20°C



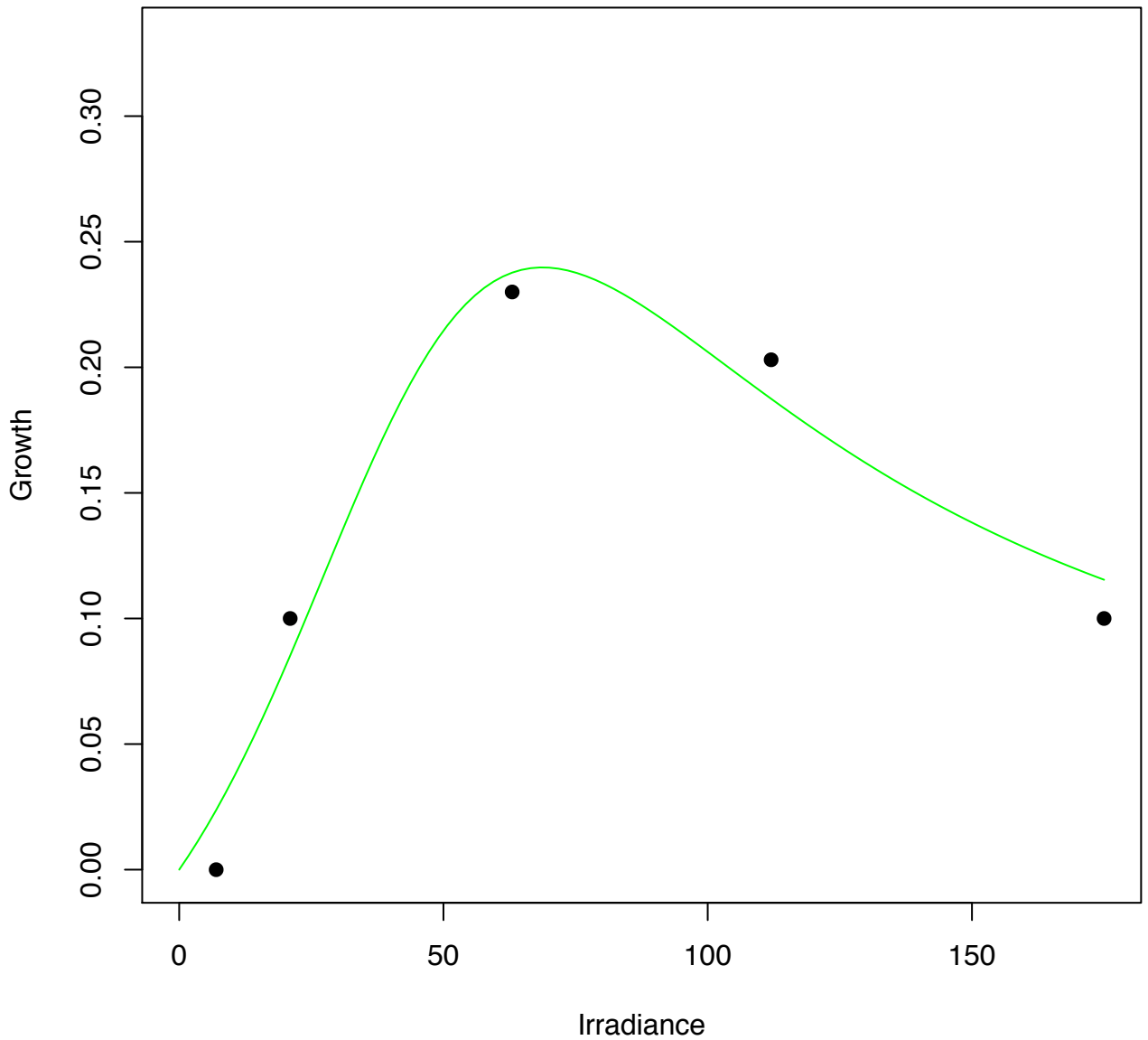
Diacronema lutheri 23°C



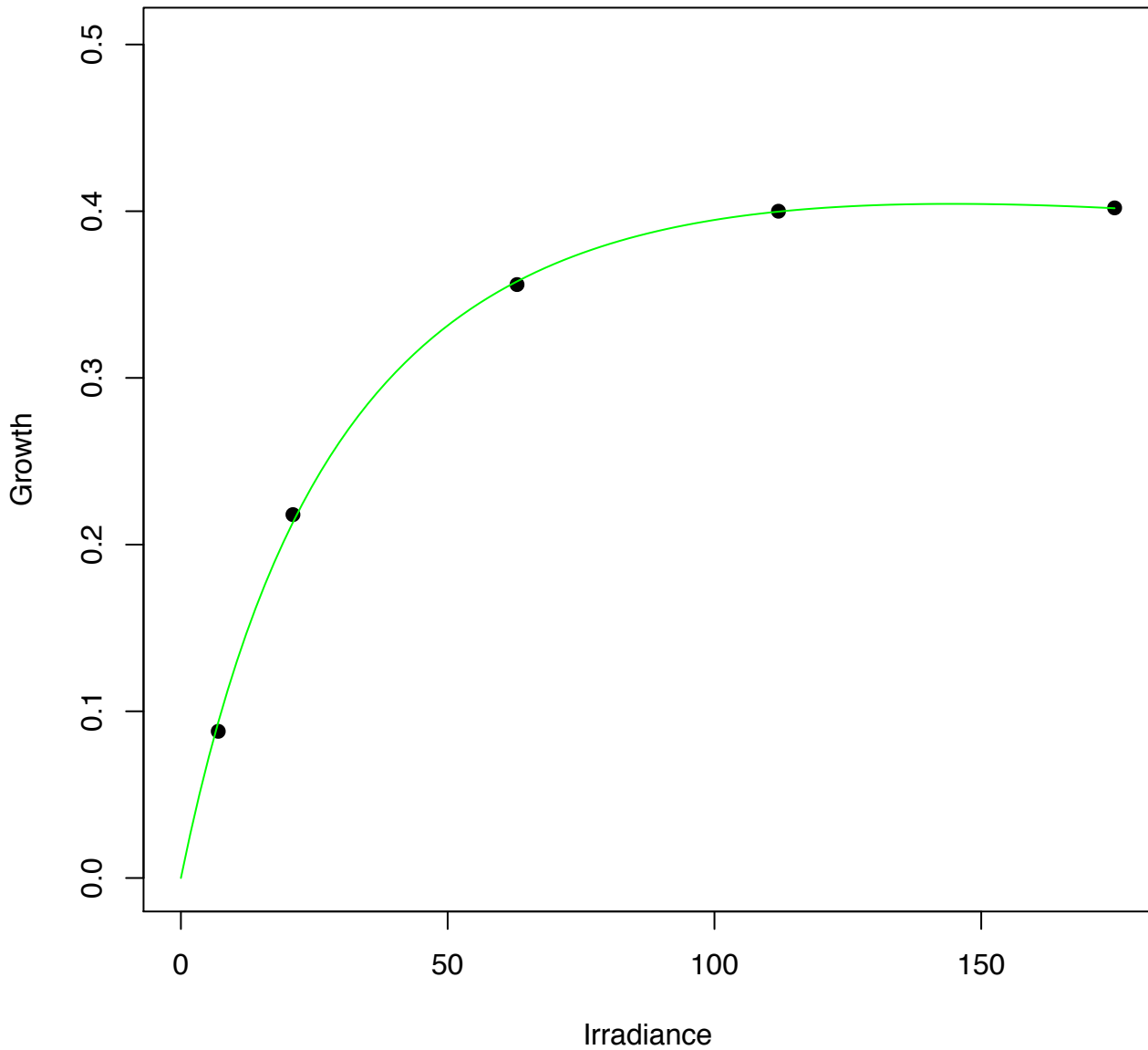
Diacronema lutheri 25°C



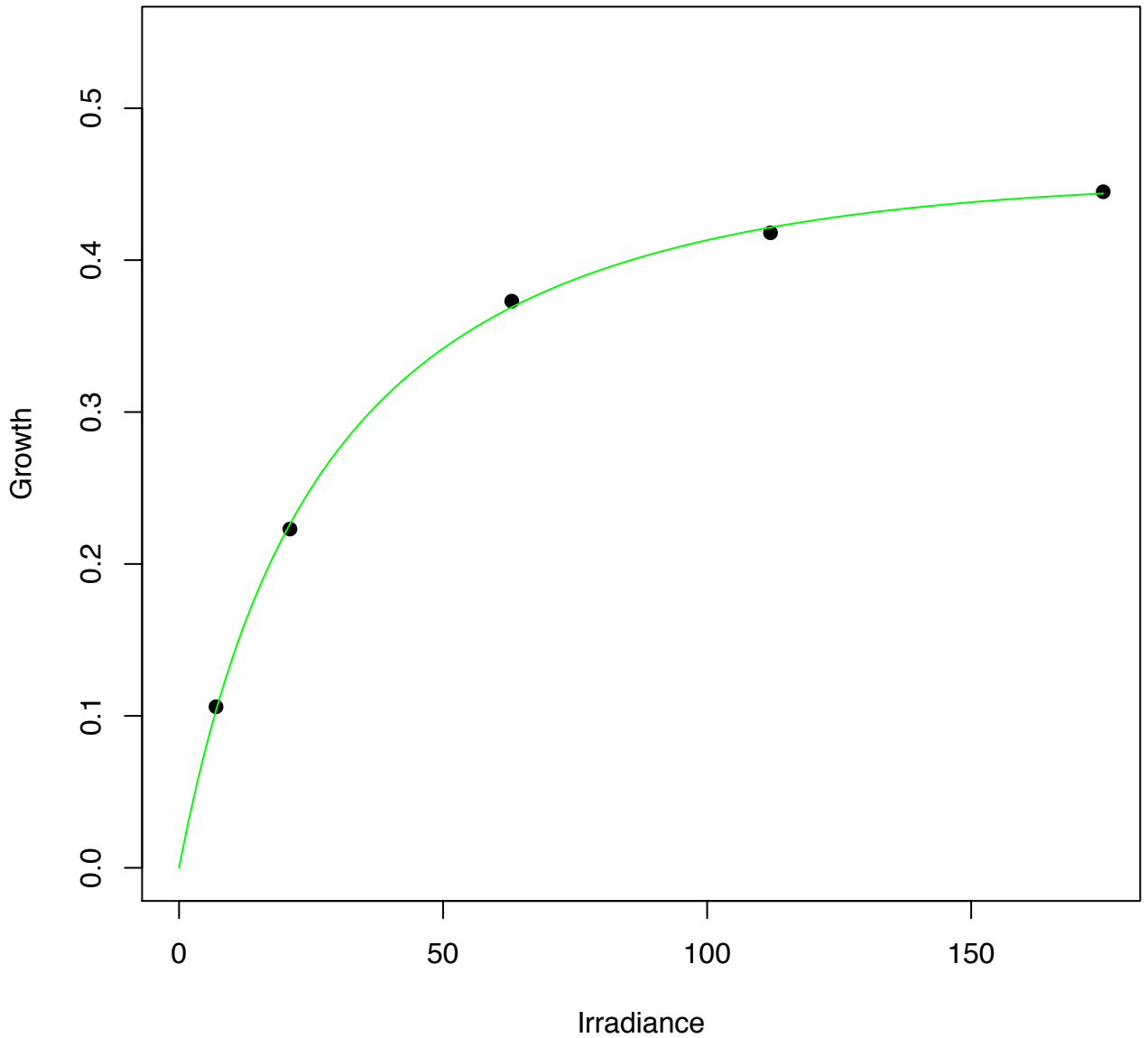
Diacronema lutheri 27°C



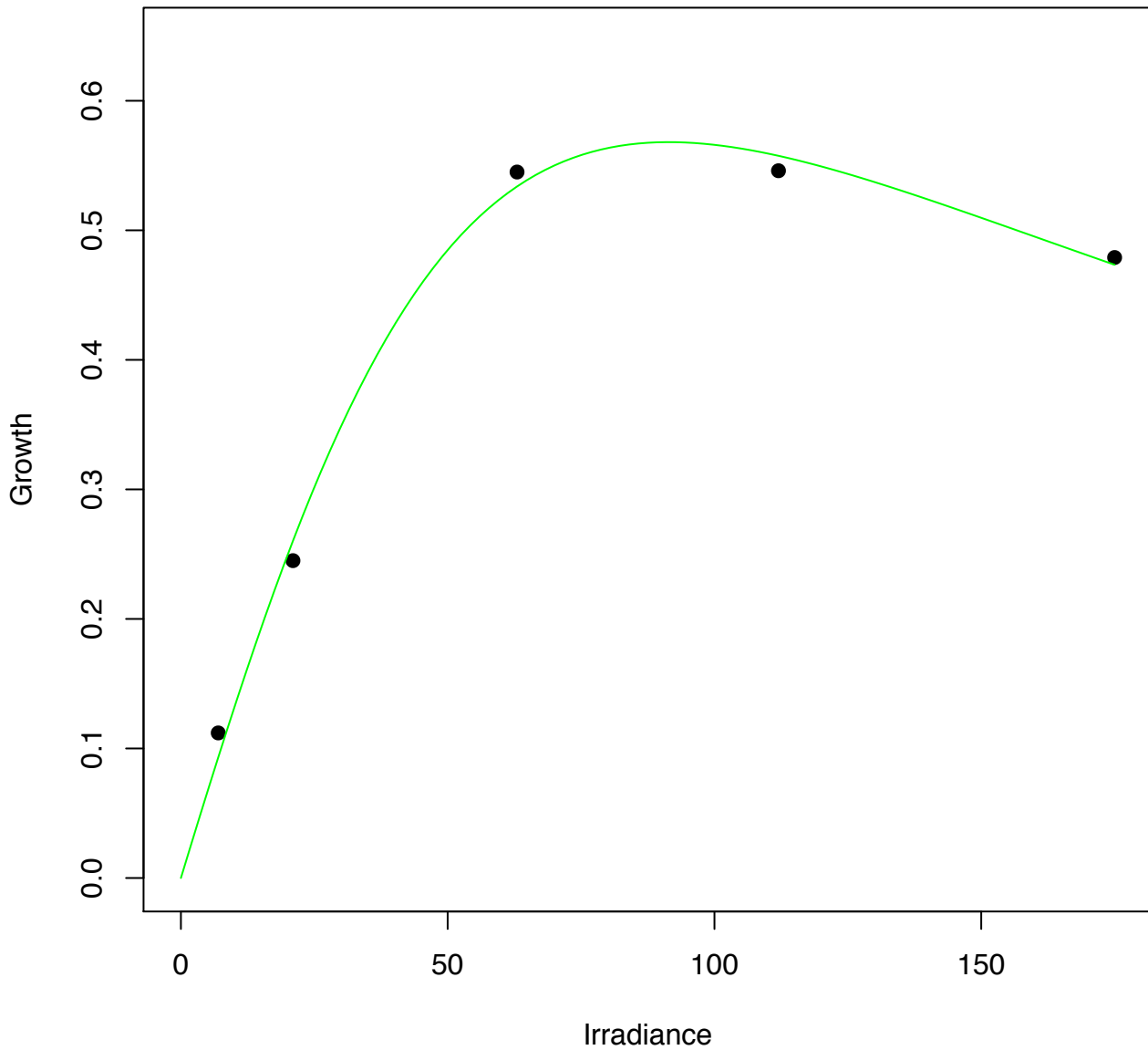
Tetraselmis sp. 17°C



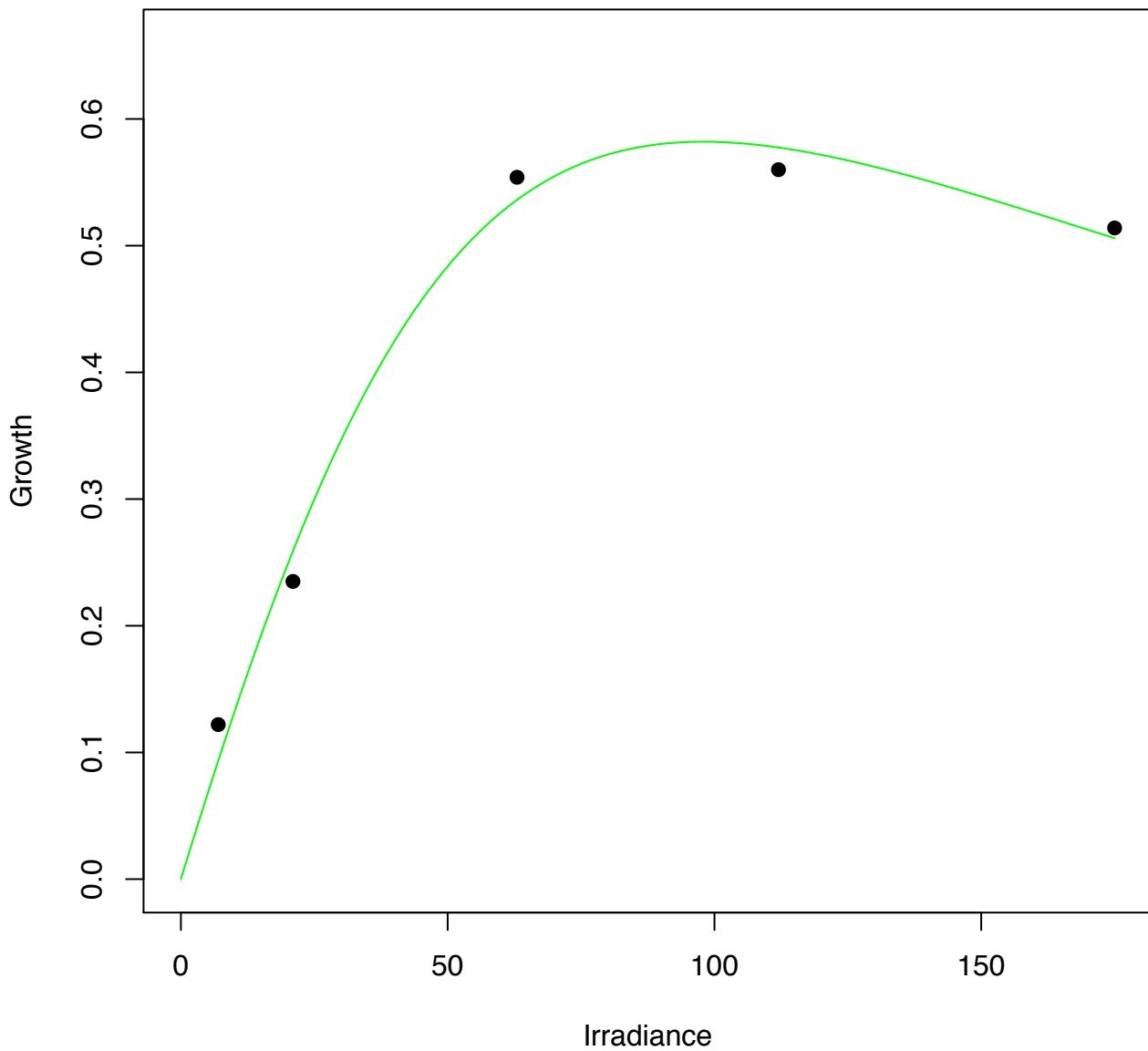
Tetraselmis sp. 20°C



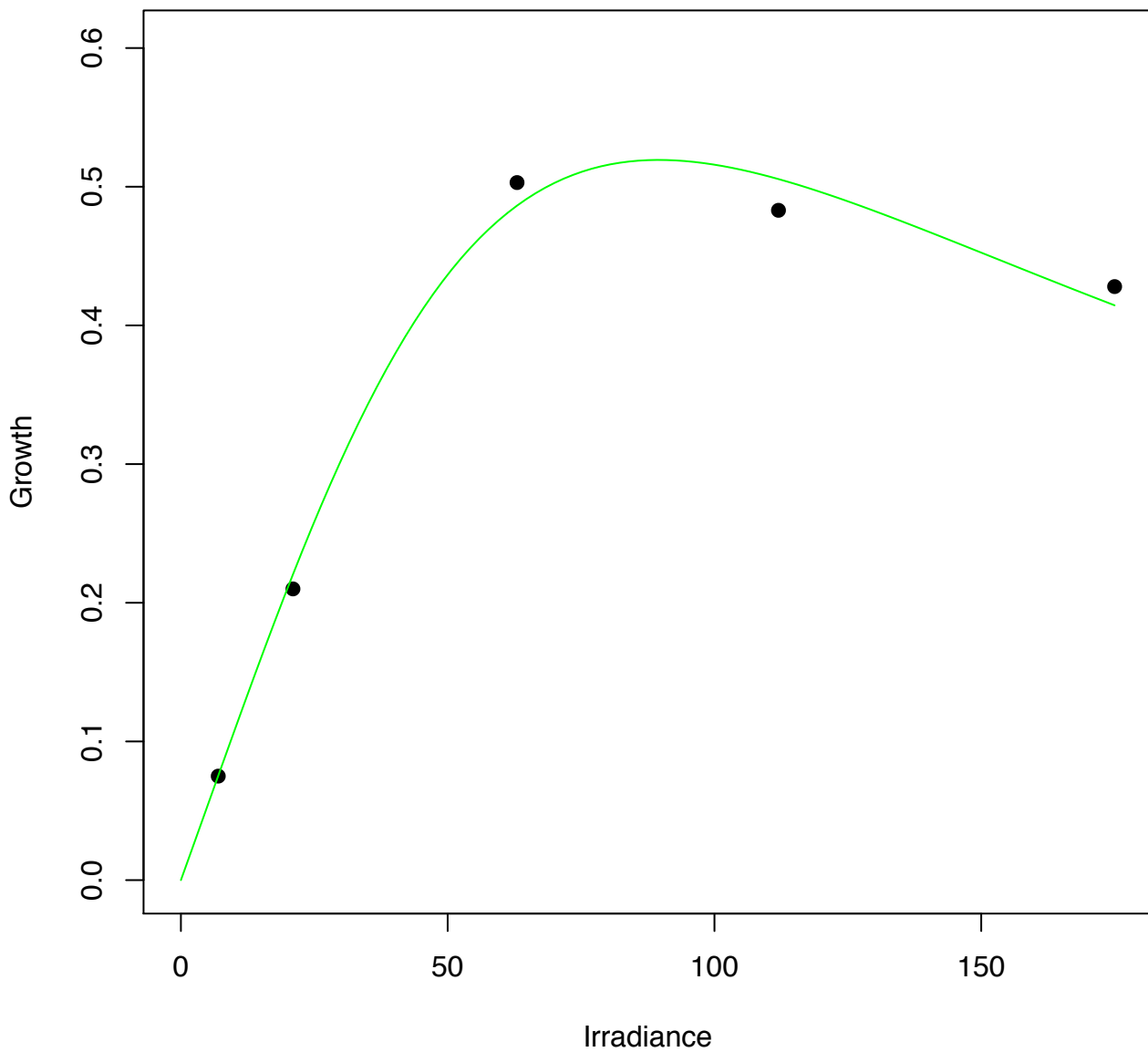
Tetraselmis sp. 23°C



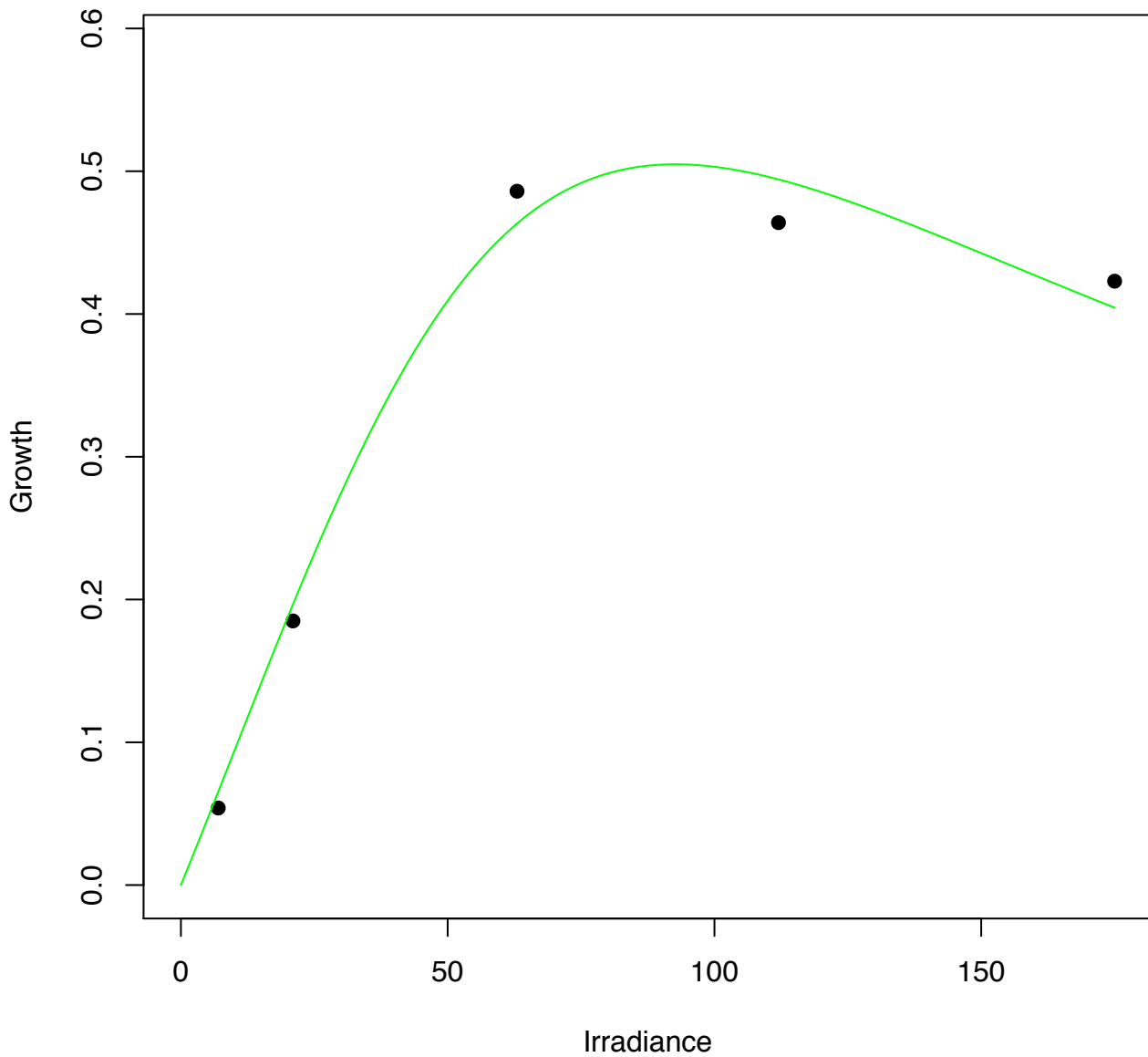
Tetraselmis sp. 25°C



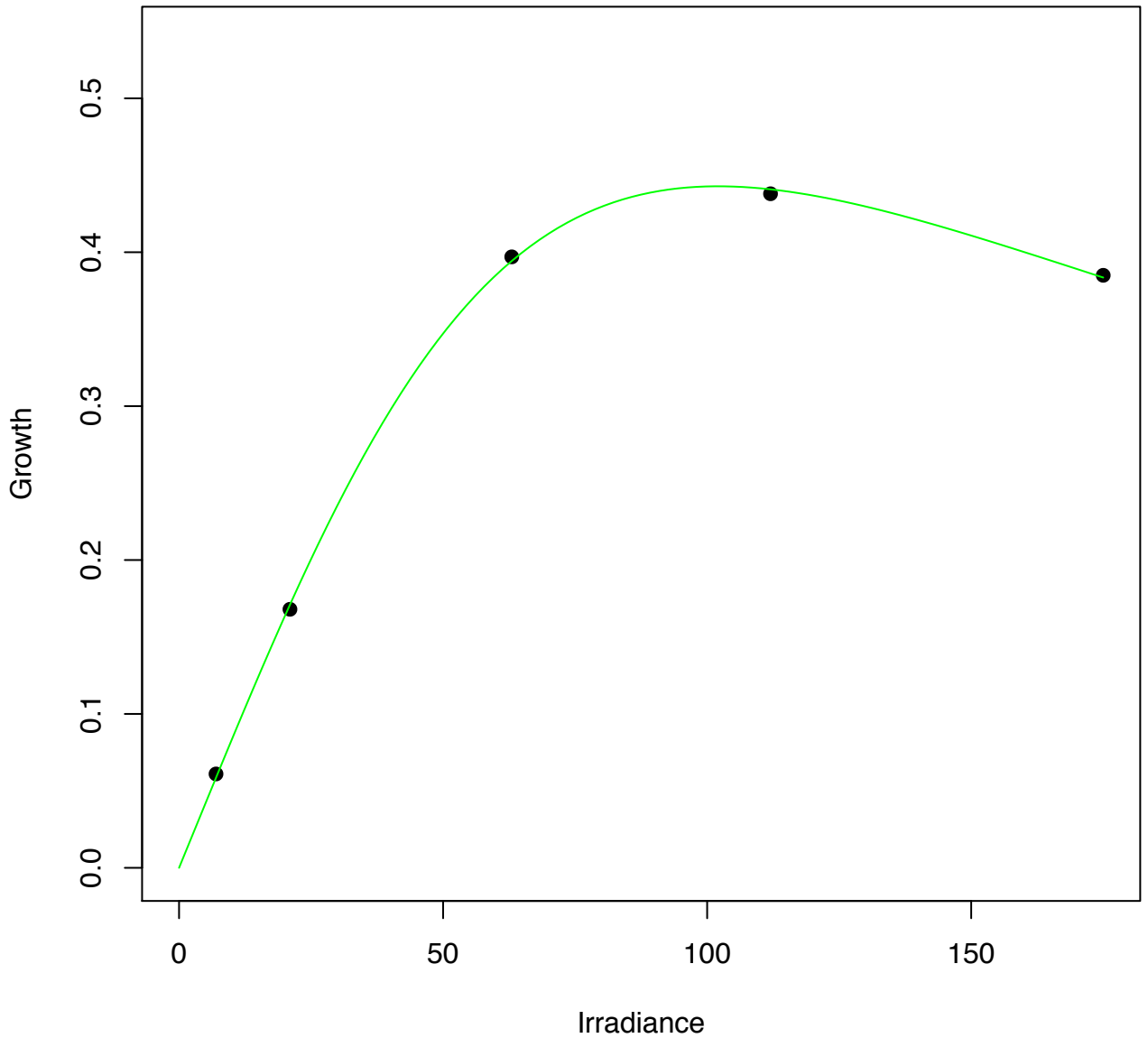
Tetraselmis sp. 27°C



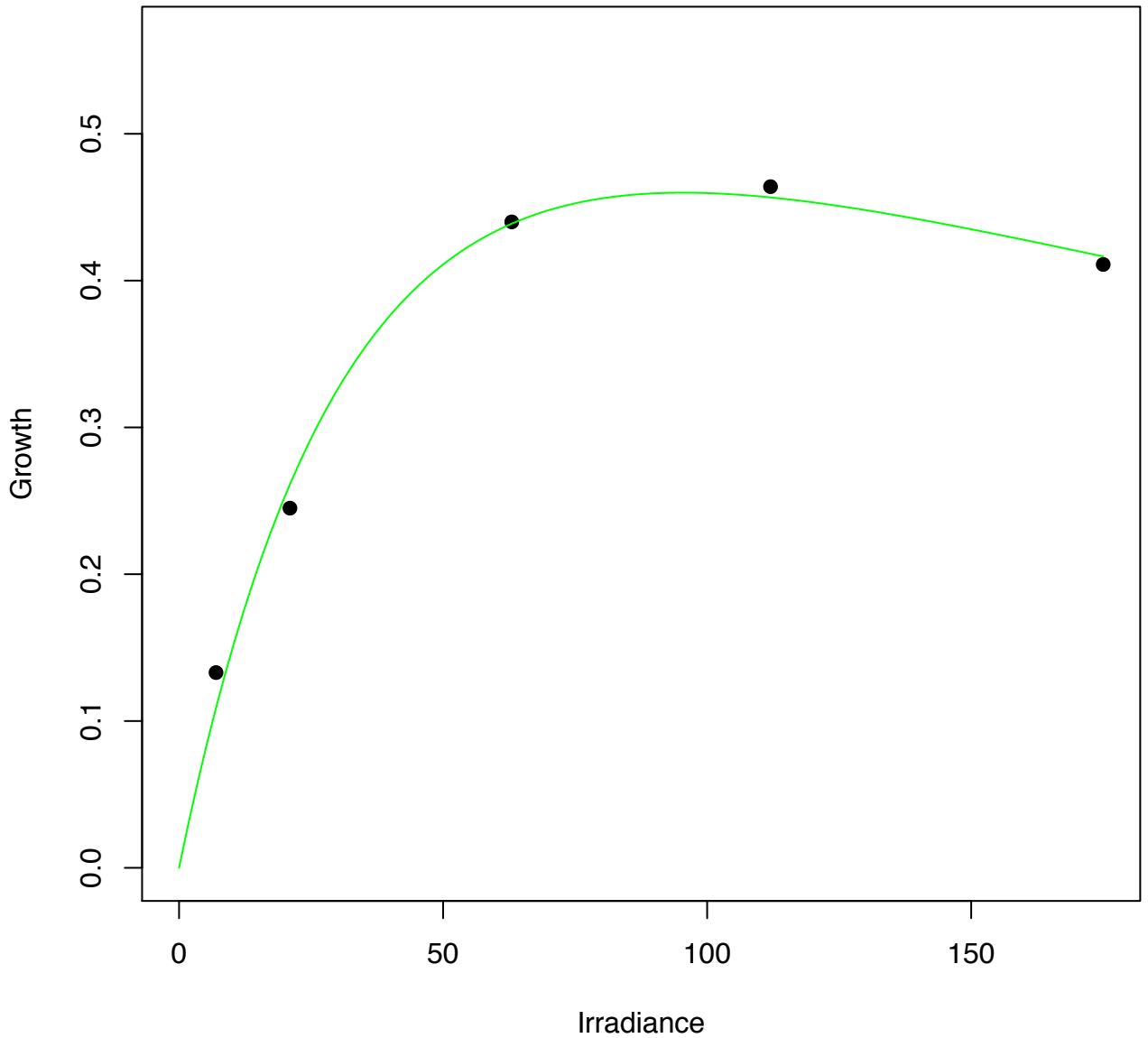
Tetraselmis sp. 29°C



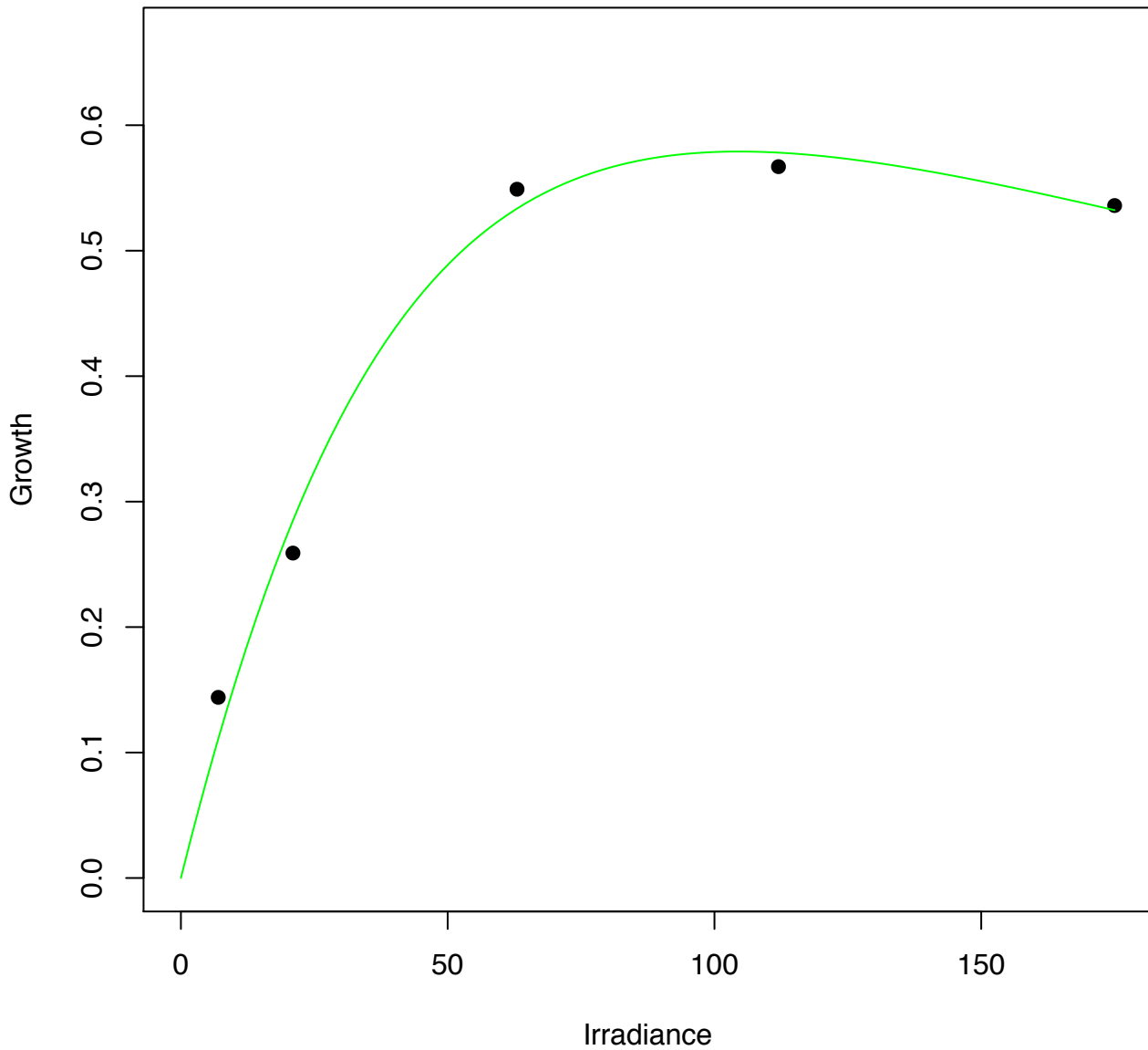
Cylindrotheca closterium 17°C



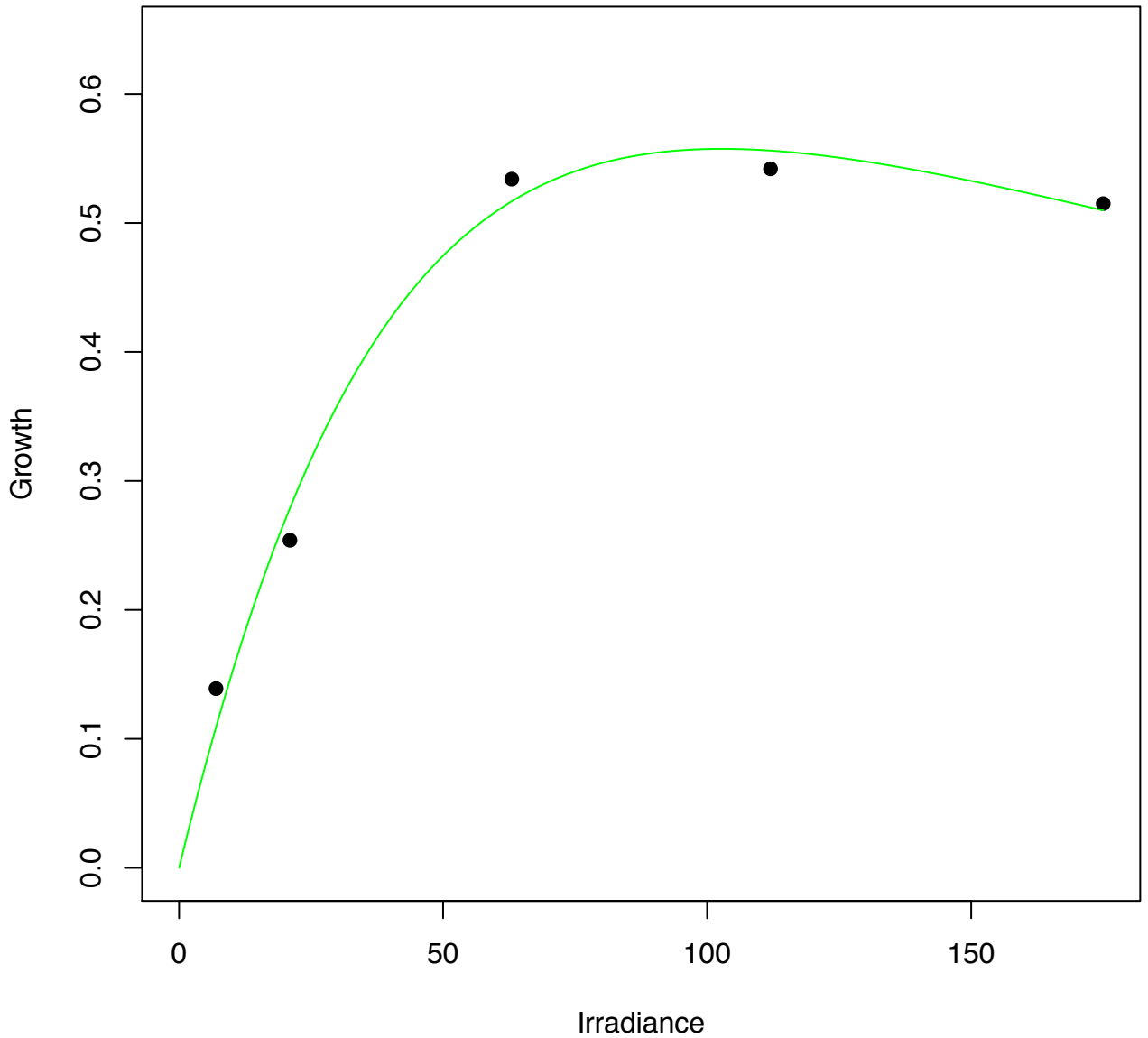
Cylindrotheca closterium 20°C



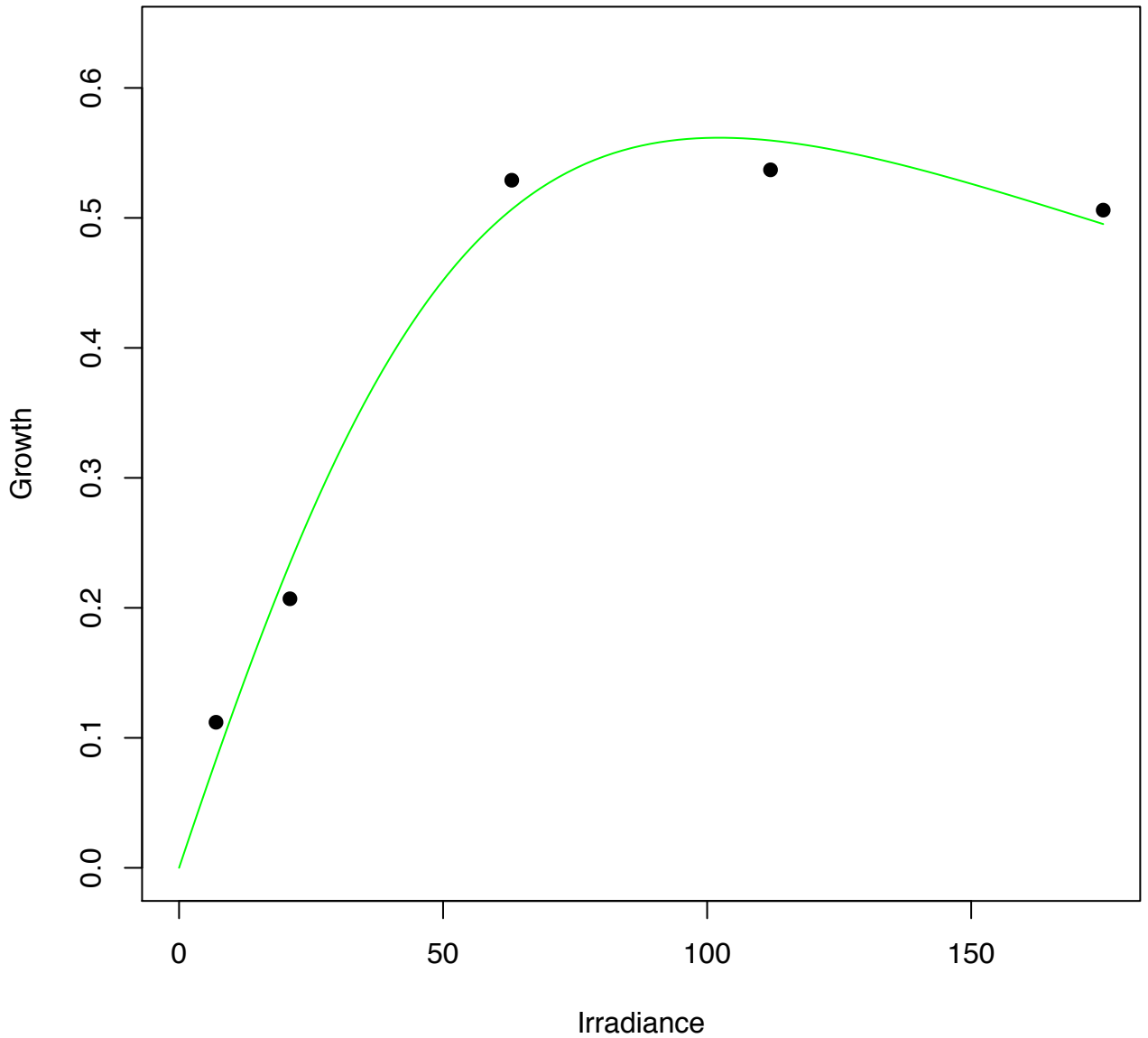
Cylindrotheca closterium 23°C



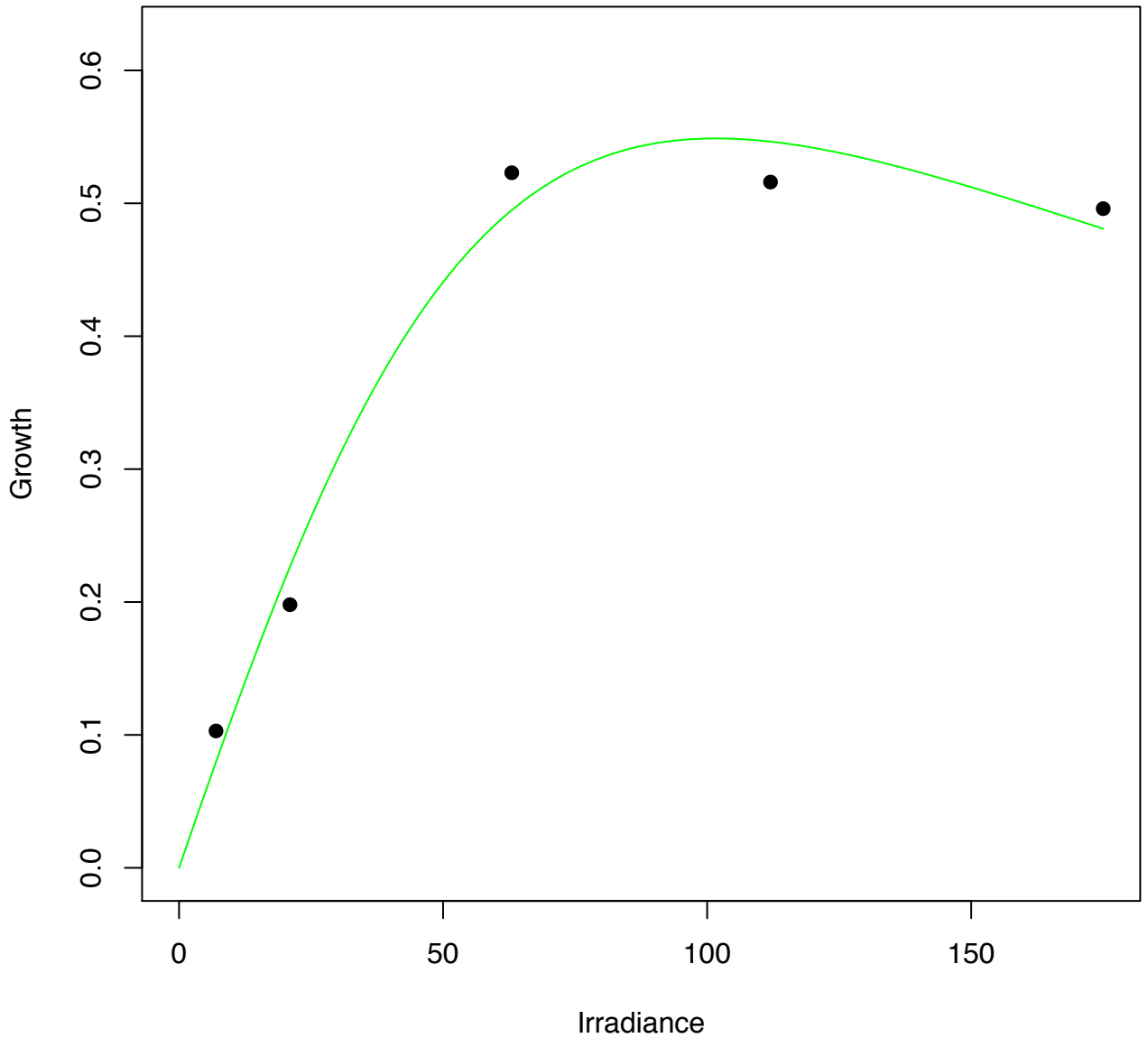
Cylindrotheca closterium 25°C



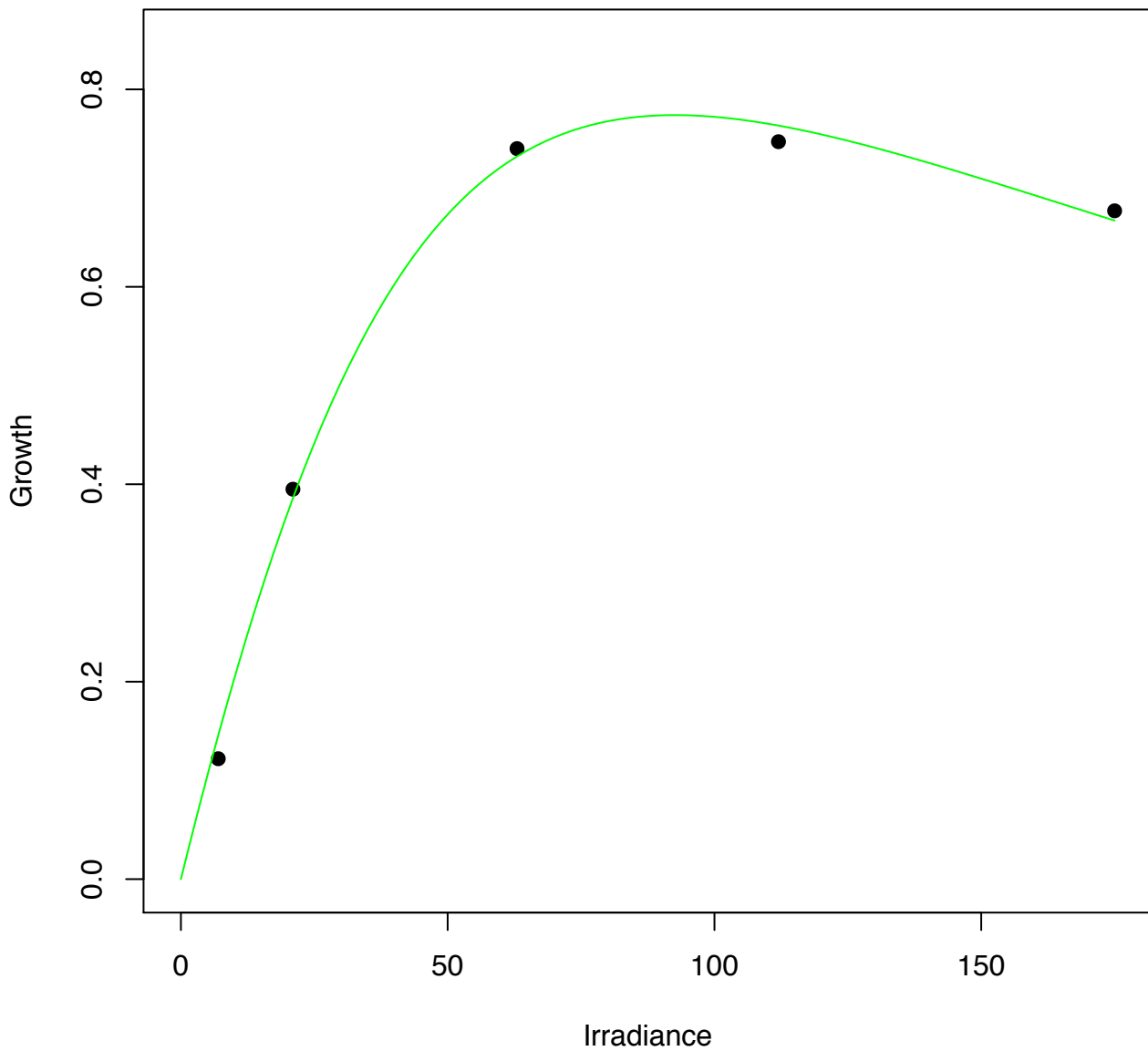
Cylindrotheca closterium 27°C



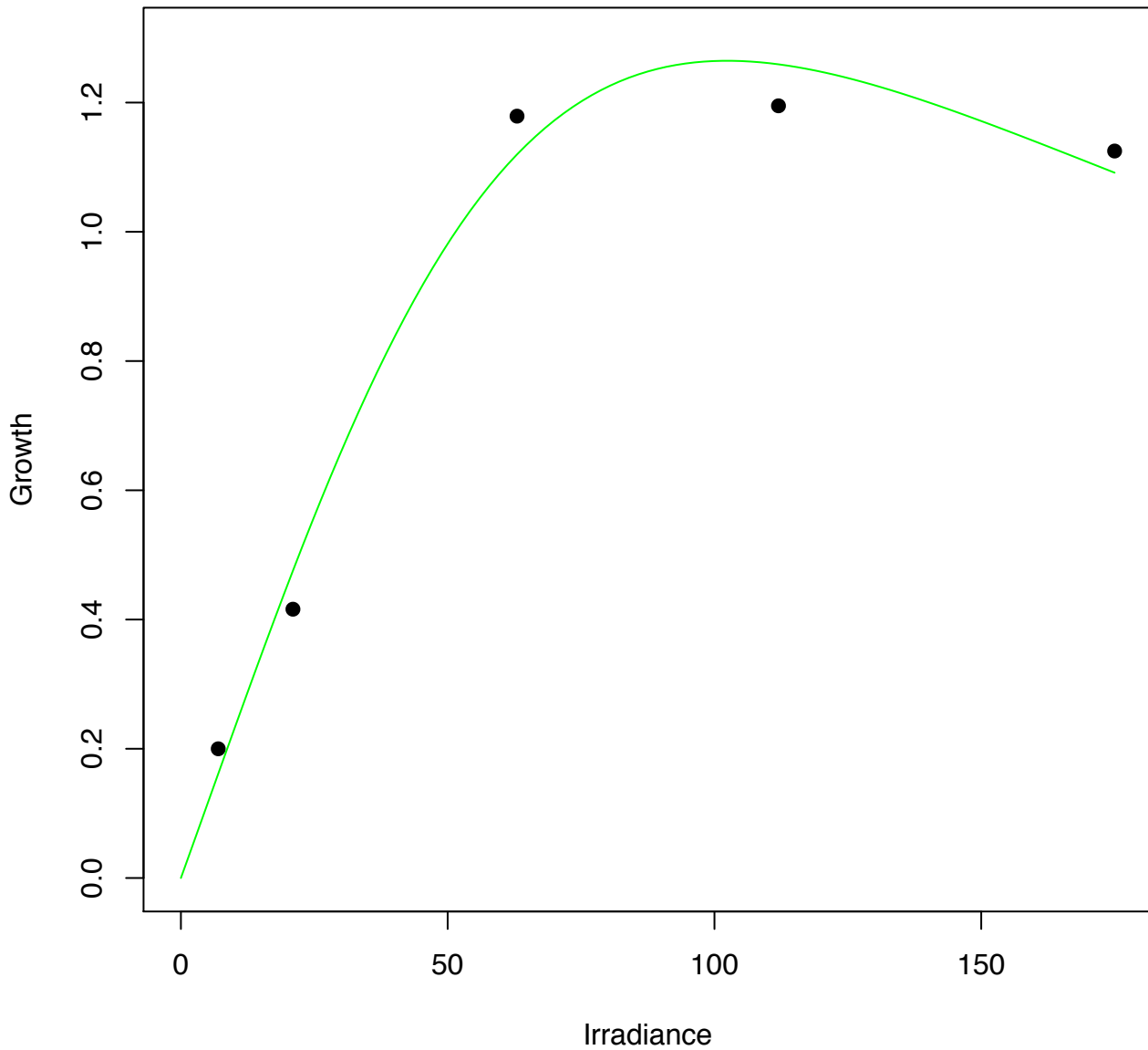
Cylindrotheca closterium 29°C



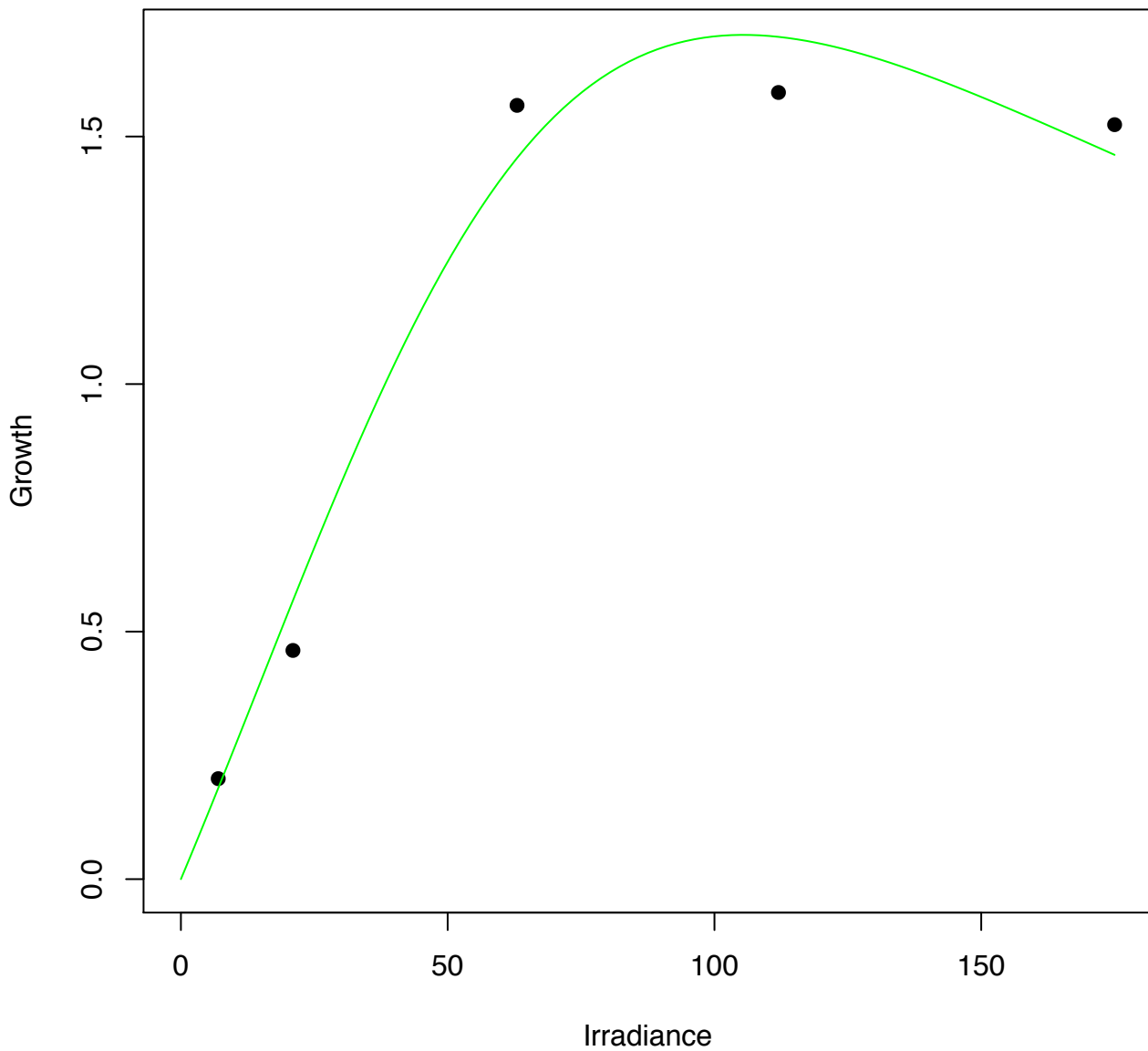
Chaetoceros calcitrans 17°C



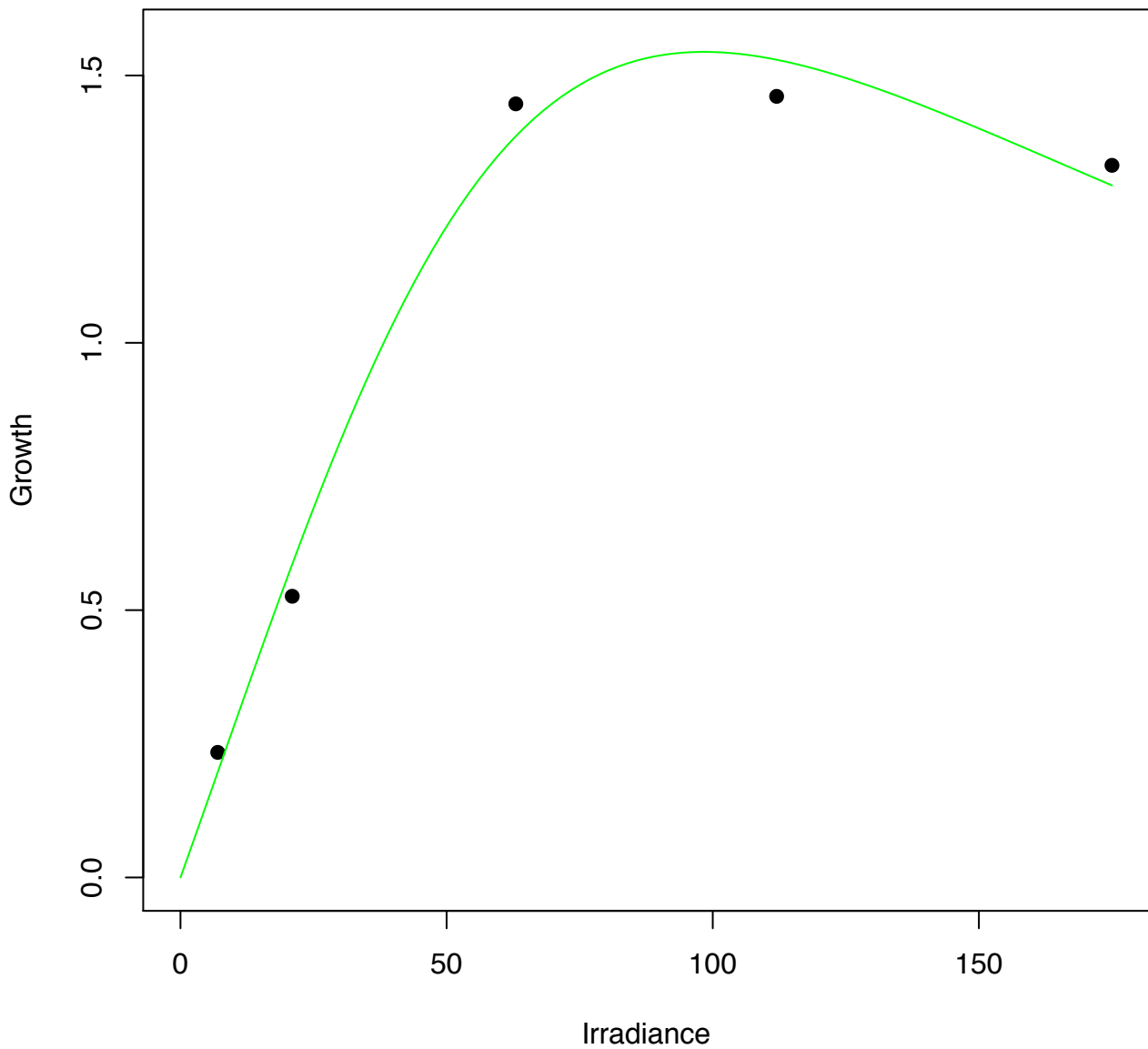
Chaetoceros calcitrans 20°C



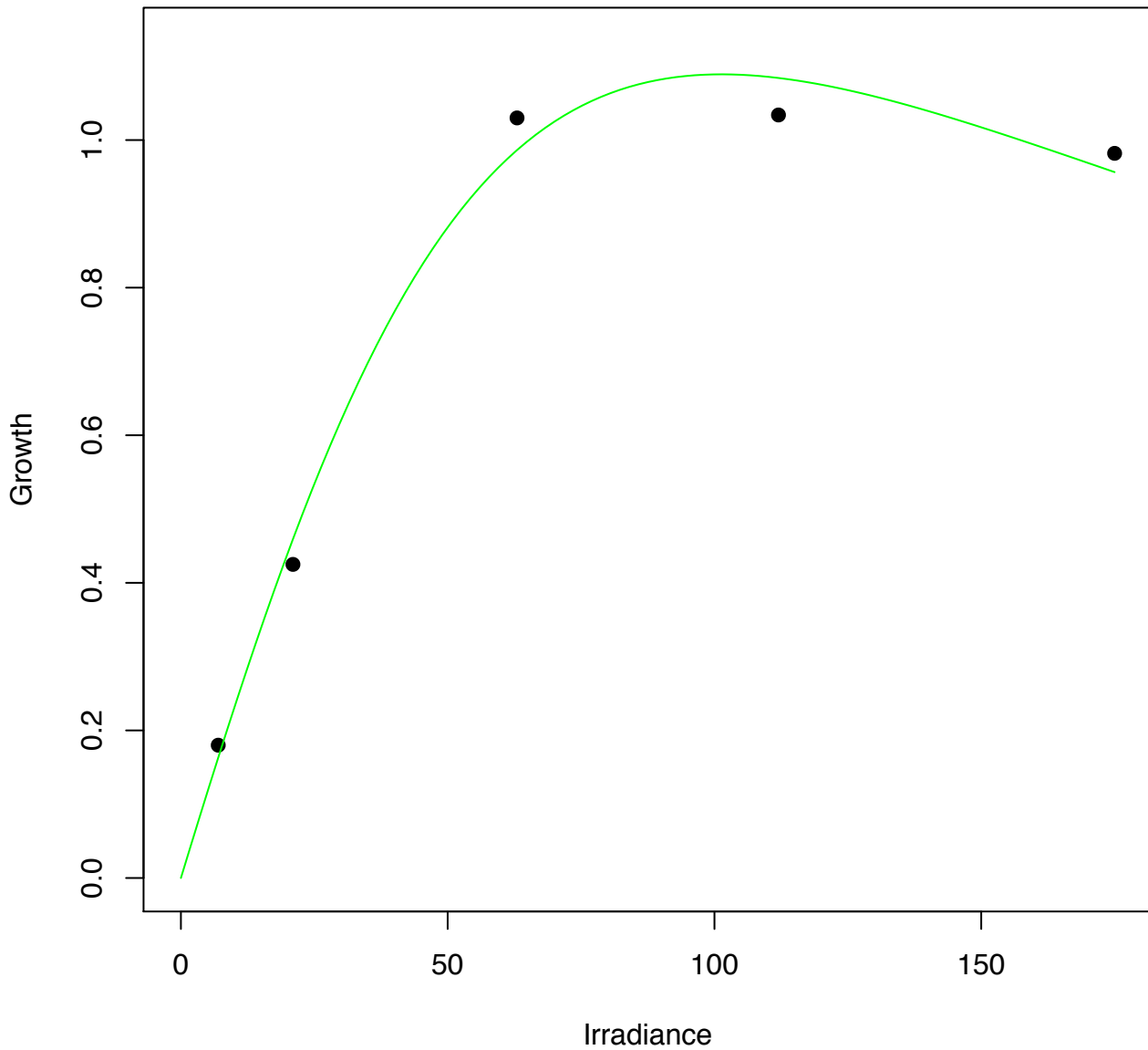
Chaetoceros calcitrans 23°C



Chaetoceros calcitrans 25°C



Chaetoceros calcitrans 27°C



Chaetoceros calcitrans 29°C

