

Елена Борисовна Бурлакова



(12.10.1934–25.09.2016)

Ушла из жизни Елена Борисовна Бурлакова - доктор биологических наук, профессор, лауреат Государственной премии СССР по науке и технике, лауреат премии Правительства Российской Федерации в области науки и техники.

Елена Борисовна родилась 12 октября 1934 года в Москве. В 1951 году с золотой медалью окончила школу и поступила в Московский государственный университет им. М.В. Ломоносова на химический факультет. В 1956 с отличием его закончила и была принята в аспирантуру, обучение в которой завершилось защитой кандидатской диссертации на тему "Кинетика и химизм окислительных процессов в липидах под действием излучения и механизм действия некоторых защитных веществ". Это первая диссертационная работа в мире, в которой представлены данные о биологических эффектах синтетических антиоксидантов, а ее публикации по этой теме появились в 1957 году.

С 1960 по 1996 год Елена Борисовна работала в Институте химической физики им. Н.Н. Семенова (ИХФ) РАН, последовательно занимая должности младшего и старшего научного сотрудника, затем заведующего лабораторией, а с 1984 до 1996 года заведовала Отделом химических и биологических процессов в ИХФ РАН. С 1996 года Е.Б. Бурлакова была первым заместителем директора Института биохимической физики (ИБХФ) им. Н.М. Эмануэля РАН. В 1970 году она защитила диссертацию на соискание ученой степени доктора биологических наук на тему "Исследование физико-химических свойств липидов при некоторых патологических состояниях". В 1977 году Е.Б. Бурлаковой было присвоено звание профессора по

специальности "биофизика". В 2001 году она была избрана академиком Российской академии естественных наук.

Уже дипломная работа Е.Б. Бурлаковой была посвящена изучению роли свободно-радикального перекисного окисления липидов в развитии лучевой болезни. Эта проблема стала центральной в последующих работах Елены Борисовны, которые в значительной степени были акцентированы на анализе роли свободно-радикальных реакций в различных биологических процессах, прежде всего ассоциирующихся с возникновением и развитием ряда заболеваний, таких как лучевая болезнь, канцерогенез, болезнь Альцгеймера, эпилепсия и некоторых других. Важным аспектом этих исследований было изучение возможностей тормозить развитие этих патологий с использованием ингибиторов радикальных реакций — антиоксидантов. Работы по применению антиоксидантов в биологии были пионерскими и начинались под руководством академика Н.М. Эмануэля — учителя Е.Б. Бурлаковой. Эти работы привели к созданию нового направления в науке — биофизики и биохимии антиоксидантов и антиоксидантной терапии. В результате комплекса исследований Е.Б. Бурлаковой и ее коллегами установлены молекулярные механизмы биологической активности ингибиторов радикальных реакций — биоантиоксидантов и заложены основы для создания оригинальных отечественных медицинских препаратов и биологически активных веществ для сельского хозяйства. Цикл работ "Создание и внедрение в медицинскую практику антиоксидантных препаратов для лечения и профилактики цереброваскулярных заболеваний" удостоен премии Правительства Российской Федерации в области науки и техники за 2002 год.

Много лет своей научной жизни Е.Б. Бурлакова посвятила изучению роли мембран в регуляции клеточного метаболизма. Результатом этих работ было открытие регуляторной системы, поддерживающей перекисное окисление липидов на стационарном уровне за счет изменения состава мембран и скорости их обновления. Широко известны работы Е.Б. Бурлаковой в области радиобиологии, в которых показана ведущая роль свободнорадикальных механизмов в радиационном поражении и процессах восстановления клетки. На основании этих работ предложены эффективные радиопротекторы — ингибиторы свободнорадикальных реакций. По инициативе и под руководством Е.Б. Бурлаковой после аварии на Чернобыльской АЭС (1986 г.) были начаты и активно продолжаются во многих институтах фундаментальные исследования действия радиации низкой интенсивности на человека и природные объекты.

Е.Б. Бурлаковой впервые обнаружено и изучено действие малых доз радиации на биологические объекты, показано их отличие от действия высоких доз, установлены молекулярно-биологические закономерности этих эффектов, их зависимость от интенсивности облучения. Наличие парадоксальной немонотонной зависимости доза—эффект, изменение чувствительности клеток организма, облученных малыми дозами радиации, к действию других факторов позволяют объяснить ряд явлений, которые не могли быть осознаны в рамках представлений классической радиобиологии. Эти работы имеют как теоретическое, так и практическое значение, ясно свидетельствуя об опасности радиации низкой интенсивности для здоровья людей.

В 1983 году Е.Б. Бурлаковой с сотрудниками было впервые обнаружено действие сверхмалых доз химических соединений и физических агентов низкой интенсивности на биологические процессы в организме. Развитие этих работ позволило сформулировать основные закономерности и установить общность действия как химических, так и физических факторов в низких дозах, которые обусловлены существованием общего механизма восприятия биообъектами сигнала столь низкой интенсивности. Все эти работы Е.Б. Бурлаковой имеют огромное теоретическое и практическое значение, широко признаны во всем мире.

В последние годы Е.Б. Бурлакова инициировала работы в новом направлении — разработке научных основ ароматерапии, т.е. изучении действия малых доз летучих ароматообразующих веществ на физико-химические и биохимические процессы в клетках лабораторных животных *in vivo*. В результате этих работ впервые доказано, что эфирные масла являются эффективными биоантиоксидантами и геропротекторами, оказывают радиозащитное и противоопухолевое действие и могут быть нейропротекторами.

Значительную часть своих творческих усилий и интеллекта Елена Борисовна направляла на педагогическую деятельность. Она читала курс лекций "Биофизические механизмы регуляторных реакций клетки" на биологическом факультете МГУ. Под ее руководством защищено около 50 кандидатских диссертаций, она являлась научным консультантом 10 докторских диссертаций.

Заслуги Е.Б. Бурлаковой и ее вклад в отечественную науку высоко оценены научной общественностью и Правительством. Она является лауреатом Государственной премии СССР по науке и технике (1983 г.), лауреатом премии Правительства Российской Федерации в области науки и техники (2002 г.) и автором открытия (1985 г.). Е.Б. Бурлакова награждена орденом "Знак Почета", медалью "За доблестный труд", медалями к ордену "За заслуги перед Отечеством" I и II степени, медалью "Биосфера и человек", посвященной памяти Н.В. Тимофеева-Ресовского, медалью памяти академика Н.М. Эммануэля "За достижения в области химической и биохимической физики", медалью княгини Е.Р. Дашковой "За служение Свободе и Просвещению".

С 1987 года Е.Б. Бурлакова возглавляла Научный совет РАН по радиобиологии, была главным редактором журнала "Радиационная биология, радиоэкология", членом Научной комиссии по радиационной защите (НКРЗ), членом Общественного совета госкорпорации "Росатом", членом комиссии по экологии при Верховном Совете СССР, членом Высшего экологического совета при Думе, членом 6 международных обществ, в том числе: European Society for Radiation Biology, International Union of Radioecology, European Society of Neurochemistry.

Помимо выдающихся творческих и организаторских способностей, Елена Борисовна была наделена прекрасными человеческими качествами; она была очень хорошим, добрым и отзывчивым человеком, способным бескорыстно делиться своими идеями и мыслями с коллегами.

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