

Юрий Семенович Оводов



(28 августа 1937, Харьков — 6 марта 2014, Сыктывкар)

На 77-м году жизни, после продолжительной болезни скончался **Юрий Семенович Оводов**, академик РАН, доктор химических наук, советский и российский химик, специалист в области иммунохимии природных углеводсодержащих антигенов и иммуномодуляторов. Член-корреспондент АН СССР с 15 декабря 1990 года по Отделению биохимии, биофизики и химии физиологически активных соединений (молекулярная иммунология), академик РАН с 11 июня 1992 года. В 2004—2014 годах — директор Института физиологии Коми научного центра Уральского отделения РАН (г. Сыктывкар).

Оводов Ю.С. родился 28 августа 1937 года в г. Харькове. В 1959 г. закончил Химический факультет МГУ им. М.В. Ломоносова. В 1971г. защитил докторскую диссертацию на тему "Химическое исследование гликуроногликанов - кислых растительных полисахаридов". В 1973г. утвержден в звании профессора. Оводов Юрий Семенович избран в 1992 году действительным членом Российской академии наук; член-корреспондент АН СССР с 1990 года.

Трудовую деятельность начал в Новосибирском институте органической химии СО АН СССР (1959-62 гг), с 1960 по 1962 г.- стажер НИОХ СО АН СССР при институте химии природных соединений (г.Москва); с 1962 по 1994 г. работал в Дальневосточном отделении РАН, где принял непосредственное участие в создании Тихоокеанского института биоорганической химии ДВО РАН (1964), в котором работал заведующим лаборатории химии углеводов, заместителем директора Института по научной работой (1967-1987), заведующим отделом молекулярной иммунологии (1975-1994).

В 1994 г. переехал в г. Сыктывкар и возглавил созданный по его инициативе Отдел молекулярной иммунологии и биотехнологии Института физиологии Коми научного центра Уральского отделения РАН. С 1999 г. является директором Учебно-научного центра: "Физико-химическая биология" при СГУ. Академик Оводов Ю.С. возглавляет Научный Совет по химии и технологии растительного сырья при Президиуме РАН.



Оводов Ю.С. внес значительный вклад в становление и развитие химии природных соединений, биоорганической химии, иммунохимии и иммунобиологии, биотехнологии, молекулярной физиологии.

Вел исследования по следующим основным направлениям: строение тритерпенового олигозида из качима тихоокеанского; структура и свойства гликозидов аралиевых; структурная химия полисахаридов дальневосточных растений, морских трав и бурых водорослей; синтетические и аналитические методы углеводной химии; химическое и иммунохимическое исследование бактериальных антигенов, биогликанов-иммуномодуляторов морских беспозвоночных, онкофетальных антигенов, лектинов и онкопреципитинов;

химическое строение и физиологическая активность полисахаридов растений Республики Коми и других районов европейского Севера России.

Ученым изучено строение полисахаридов-иммуномодуляторов из морских организмов и показана их способность стимулировать выработку иммунитета к различным заболеваниям, включая вирусные инфекции и онкозаболевания. При изучении строения онкофетальных антигенов выявил закономерности в проявлении иммунологических свойств и открыл новый класс иммуноактивных биополимеров — онкопреципитинов, позволяющих надежно выявлять раковые антигены и нормализующих опухолевые клетки. На основе этих исследований предложены новые средства иммунодиагностики рака. Выполнен большой цикл работ, посвященный выяснению структуры и физиологической активности антигенов грамотрицательных бактерий, который привел к открытию новой группы иммунодоминантных сахаров. В результате предложены современные подходы к ранней диагностике инфекционных заболеваний, разработан и найден применение новый иммуноадъювант, значительно усиливающий действие вакцин.

При изучении строения раковых антигенов Ю.С. Оводовым выявлены закономерности в проявлении иммунологических свойств, открыт новый класс иммуноактивных биополимеров - онкопреципитинов, позволяющих надежно выявлять раковые антигены и нормализующих опухолевые клетки. На основе этих исследований предложены новые средства иммунодиагностики рака.

В последнее время академик занимался биополимерами растений, в том числе произрастающих на территории Коми – их характеристикой, выявлением ценных свойств, физиологической активности, созданием на их основе различных препаратов.

Научные публикации посвящены изучению структуры и физиологической активности гликозидов, полисахаридов и гликоконъюгатов из различных природных источников.

Основные научные и научно-технические достижения:

Открытие нового класса природных гликозидов – тритерпеновых олигозидов.

Установление полного химического строения гликозидов качима тихоокеанского и растений сем. Аралиевых (женьшень и элеутерококка).

Определение химического строения и физиологической активности полисахаридов женьшеня, морских трав (зостеран), бурых водорослей (саргасан, пельвециан). Внедрение зостерана в пищевую промышленность и в медицину.

Разработка синтетических и аналитических методов углеводной химии: направленный синтез метилированных сахаров и нового иммунодоминантного моносахарида иерсиниозы; модификация методов тонкослойной хроматографии углеводов, электрофореза и ацетолиза полисахаридов; разработка метода определения положения сульфатных групп в полисахаридах.

Установление структуры антигенов псевдотуберкулезного микроба и других грамотрицательных бактерий, определение их иммунологической активности, разработка диагностических средств, открытие новых иммунодоминантных сахаров. Внедрение диагностикумов в медицинскую практику для выявления псевдотуберкулеза (дальневосточной скарлатиноподобной лихорадки) на ранних стадиях болезни.

Открытие и определение структурных и иммунохимических свойств биогликанов-иммуномодуляторов морских беспозвоночных. Внедрение митилана, биогликана мидий, в парфюмерию и медицину для производства биокремов и противогриппозных препаратов.

Выяснение пространственной структуры и иммунохимического поведения онкофетальных антигенов, разработка диагностикумов для раннего выявления онкозаболеваний, их внедрение в медицинскую практику.

Разработка и внедрение в гинекологию иммунохимических методов мониторинга беременности и ее патологий.

Определение свойств лектинов ряда морских беспозвоночных.

Открытие онкопреципитинов – нового класса гликопротеинов, специфически реагирующих с онкофетальными антигенами. Рекомендации по использованию онкопреципитинов в качестве диагностических средств для выявления онкозаболеваний.

Разработка на основе липополисахаридов синезеленых водорослей (цианобактерий) и внедрение в лабораторную практику мощного иммуноадъюванта, усиливающего без побочного действия иммунизацию животных вакцинами.

Создание банка данных по структурно-химической характеристике и по физиологической активности полисахаридов растений европейского Севера России.

Определение химического строения, иммуномодулирующего действия и противовоспалительной активности пектиновых полисахаридов из растений европейского Севера России: лемнана из ряски, силенана из смолевки, танацетана из пижмы, комарумана из сабельника и др. Выяснение характера трансформации пектиновых полисахаридов пищевых растений в желудочно-кишечном тракте человека.

Автор 400 научных статей, в том числе 40 патентов. Автор учебных пособий: «Введение в химию иммунитета», «Химия иммунитета», «Избранные главы биоорганической химии».

Академик Нью-Йоркской академии наук, академик Международной славянской академии наук, культуры и искусства. Лауреат премии Ленинского комсомола (1972 г.). Лауреат премии РАН им. И.И. Мечникова (1993 г.) и премии РАН им. Ю.А. Овчинникова (2003 г.). Награжден орденами «Октябрьской революции», «Трудового красного знамени», «За заслуги перед Отечеством» IV степени, тремя медалями.

Юрий Оводов внес крупнейший вклад в развитие мировой науки. Академик РАН, широко известный в мире, эксперт в области иммунохимии, биоорганической химии, биотехнологий. Его работы касаются ряда смежных областей, связанных с химией, биологией, физиологией. В Институте физиологии он воспитал много учеников. До этого Юрий Оводов много лет работал на Дальнем Востоке, где также продолжают исследования, по направлению, заданному Оводовым.

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