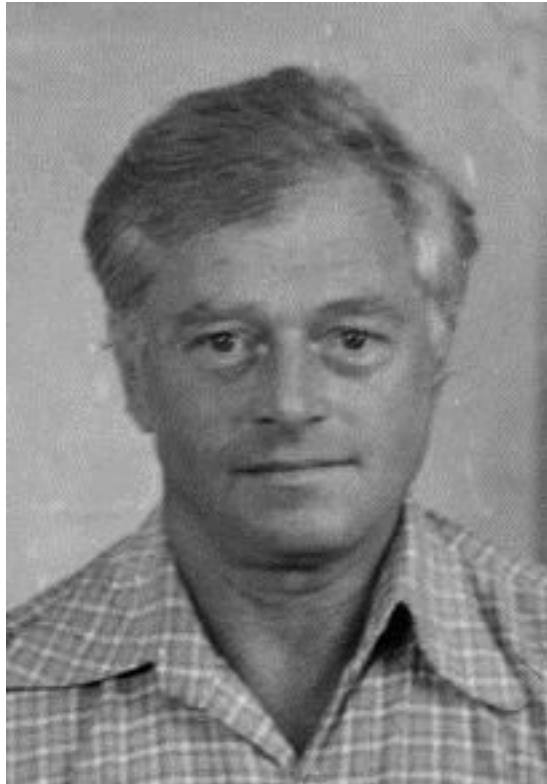


ЮРИЙ ИВАНОВИЧ СОРОКИН



(1927 – 24. 10. 2013)

Юрия Ивановича Сорокина по праву можно отнести к плеяде тех немногочисленных ученых, с чьими именами связаны достижения в отечественной гидробиологии, получившие всемирное признание. Именно он дал импульс к развитию структурно-функционального направления исследований водных экосистем в нашей стране; стал инициатором радиоуглеродного метода в гидробиологии и впервые измерил первичную продукцию в Черном море; сумел охватить огромное количество проблем, касающихся методологии в гидробиологии, экологии водных микроорганизмов, динамики серы и фосфора в водных экосистемах, трофодинамики и экологии коралловых рифов. Трудно себе представить биологическую океанологию без имени Ю.И. Сорокина.

Юрий Иванович родился в г. Артемовске в семье преподавателей совпартшколы. В 1945 г. он окончил среднюю школу в г. Шехмань Воронежской области и поступил на биологический факультет Московского государственного университета (МГУ). В 1950 г. одаренный выпускник был принят в аспирантуру Института микробиологии АН СССР к проф. С.И. Кузнецову, под руководством которого в 1953 г. успешно защитил кандидатскую диссертацию "Изучение хемосинтеза у сульфатредуцирующих бактерий". Важную роль в судьбе Юрия Ивановича сыграла встреча с первым директором Института биологии внутренних вод (ИБВВ) полярным исследователем контр-адмиралом И.Д. Папаниным. По приглашению И.Д. Папанина Юрий Иванович переезжает из столицы в пос. Борок Некоузского района Ярославской области, чтобы возглавить новую лабораторию водной микробиологии.

Работа в ИБВВ ознаменовала важный этап (1953—1976) в творческой жизни Ю.И. Сорокина. Именно в стенах этого института он впервые представил некоторые значительные работы, определившие ход дальнейших научных исследований в гидробиологии. Юрий Иванович изучил

физиологию водных бактерий, участвующих в круговороте углерода и серы, исследовал роль хемосинтеза в продукции органического вещества в водоемах, определил первичную продукцию в Рыбинском водохранилище, в Черном море и Мировом океане, разработал концепцию функционирования водных экосистем. Предложенный им метод изучения питания водных животных с применением радиоизотопов углерода вошел в учебные пособия по гидробиологии. В 1963 г. в Институте океанологии им. П.П. Ширшова он блестяще защитил докторскую диссертацию "Первичная продукция и ее утилизация в морских и пресных водоемах".

Однако морская тематика все больше привлекала внимание Юрия Ивановича. В 1976 г. он переводится в Южное отделение Института океанологии (г. Геленджик), где организует и возглавляет лабораторию микропланктона. С присущим ему энтузиазмом Юрий Иванович начинает изучать роль микропланктона в трофодинамике экосистемы Мирового океана. Здесь он впервые описал закономерности распределения биомассы, продукции микрофлоры в толще воды и донных осадках и обосновал весьма значительную роль бактерий как источника питания водных животных. С помощью радиоуглеродного метода измерил интенсивность, спектр, скорость питания и усвояемость пищи водными животными. Исследовал роль бактерий в трофодинамике экосистем коралловых рифов, изучил динамику фосфора в различных морских экосистемах. Получил количественные характеристики цикла серы в меромиктических бассейнах. Выявил механизм и измерил скорость окисления сероводорода, определил скорость хемосинтеза, которая играет важную роль в процессе продукции органического вещества в редокс-зоне Черного моря. Исследовал тонкую структуру редокс-зоны, доказал ее многолетнюю стабильность и выявил ошибочность вывода о существовании субоксильной зоны в этом водоеме. Измерил скорость сульфатредукции в воде и донных осадках. Показал, что накопление лабильных (кислоторастворимых) сульфидов в верхнем слое донных осадков является ключевым фактором, вызывающим дестабилизацию экосистем морского шельфа в зонах антропогенного загрязнения. На примере лагун северозападной Адриатики доказал, что в зонах высокого уровня антропогенного загрязнения происходит глубокая трансформация экосистем, приводящая к деградации пищевой цепи. С подобной широтой и глубиной такие исследования были поставлены впервые. Это дает нам право считать Ю.И. Сорокина одним из инициаторов нового экосистемного подхода в исследовании различных регионов Мирового океана. Огромное влияние идей Ю.И. Сорокина во многом определило развитие отечественной гидробиологии в конце XX века.

Впечатляющие результаты анализа экосистем и оценки их общей продуктивности на уровне энергетического баланса были изложены в ряде монографий Юрия Ивановича. Уникальной по богатству представленных данных является монография "Черное море" (1982), которая принесла автору широкую известность в научном мире. До Ю.И. Сорокина не было ни одной монографии, в которой обобщались бы все основные сведения об этом уникальном по своему режиму морском водоеме. В расширенном варианте книга "The Black Sea. Ecology and Oceanography" была издана в 2002 г. в Голландии. Ее издание сделало доступными для мирового научного сообщества результаты многочисленных исследований Черного моря, публиковавшиеся на русском языке. Другая его монография "Экосистемы коралловых рифов", изданная в 1990 г., впервые обобщила обширные результаты изучения одной из важнейших экосистем Мирового океана. Монография получила широкую известность за рубежом, выдержав два издания.

Ю.И. Сорокин опубликовал свыше 500 статей и 15 монографий, большая часть которых издана за рубежом. Он участвовал в 25 крупных экспедициях в Мировом океане, длительное время работал в биологических лабораториях в Бразилии, Австралии и Италии. В 1976 г. он получил

звание профессора. Преподавал в МГУ, Кубанском госуниверситете, университетах Сан Карлоса (Бразилия), и КаФоскари (Италия). Под его руководством защищено 10 кандидатских и 3 докторские диссертации. Научная школа Ю.И. Сорокина хорошо известна в России и за рубежом. Его ученики успешно работают в ИБВВ РАН, Институте биологии моря ДВО РАН, Институте биологии южных морей НАНУ, Мурманском морском биологическом институте КНЦ РАН, в университетах Японии, Бразилии, Италии и Австралии.

В 1983 г. за исследования в области водной микробиологии Юрию Ивановичу была присуждена премия Президиума АН СССР им. С.И. Виноградского, в 1991 г. он был избран действительным членом РАЕН. На протяжении ряда лет он являлся членом Комитета Большого Барьерного рифа, Тихоокеанского научного Комитета, Комитета по коралловым рифам (ТМА), группы экспертов ООН (GESAMP) по охране морей от загрязнения, участвовал в работе группы SCOR-UNESCO. В 1986 г. от правительства Австралии получил грант Senior Queens Fellow Ship. За вклад в изучение Черного моря ему была вручена высокая награда - приз "Серебряный дельфин" (Стамбул, 2006).

Исключительная работоспособность, богатство идей, жизнерадостность, энергия и великий талант Ученого - такое счастье выпадает не каждому, поэтому все, кто хоть как-то соприкоснулись с Ю.И. Сорокиным, должны быть благодарны судьбе.

По материалам текста Ж. П. Селифоновой, БИОЛОГИЯ МОРЯ, 2008, том 34, № 6, с. 462-463

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