

Михаил Владимирович Иванов



(6 декабря 1930 — 3 июля 2018)

Михаил Владимирович Иванов родился 6 декабря 1930 года в Москве в семье оперного певца Владимира Николаевича Иванова и его жены Валерии Владимировны, дочери знаменитого микробиолога академика В.Н. Шапошникова. В 1954 году окончил Биолого-почвенный факультет Московского государственного университета им. М.В. Ломоносова (кафедра микробиологии) и поступил в аспирантуру Института микробиологии АН СССР (ИНМИ), где в 1957 году защитил кандидатскую диссертацию «Роль микроорганизмов в образовании и разрушении месторождений самородной серы».

Первые исследования Михаила Владимировича проходили под руководством Сергея Ивановича Кузнецова – основателя школы геологической деятельности микроорганизмов в России. Работы этого периода обобщены в монографиях «Введение в геологическую микробиологию» (С.И. Кузнецов, М.В. Иванов, Н.Н. Ляликова, 1962); «Роль микробиологических процессов в генезисе месторождений самородной серы» (М.В. Иванов, 1964). В первой монографии авторами были сформулированы закономерности распространения микроорганизмов в зависимости от типа водообмена или степени открытости нефтеносных структур; описан ряд таксономических и физиологических групп микроорганизмов, населяющих нефтяные пласты; изучена возможность современного бактериального образования метана в нефтегазоносных фациях района Среднего Поволжья. По материалам второй монографии в 1965 году в форме доклада была защищена одноименная докторская диссертация, изданная также в 1968 году на английском языке под названием «Microbiological processes in the formation of sulfur deposits». Работы по изучению роли микроорганизмов в образовании и разрушении месторождений самородной серы в последствии получили широкую известность.



Первые морские экспедиции. Конец 50-х — начало 60-х годов.

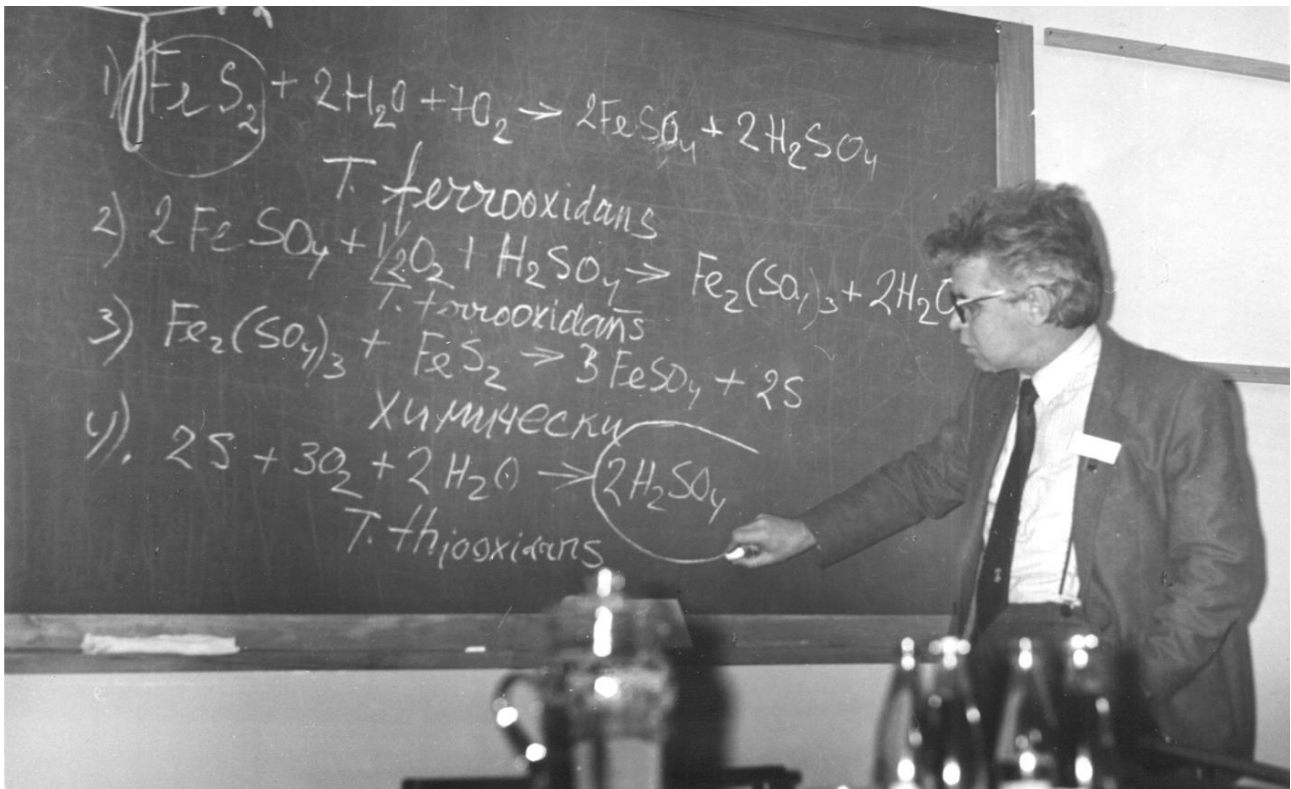


Работа над книгой «Введение в геологическую микробиологию». С.И. Кузнецов, М.В. Иванов, Н.Н. Ляликова (Медведева).



Лаборатория С.И. Кузнецова. 70-е годы.

В 1969 году Михаил Владимирович перешел из ИНМИ в Институт биохимии и физиологии микроорганизмов АН СССР (ИБФМ), г. Пущино. В 1969—1984 гг. являлся заведующим образованной им же лабораторией микробной биогеохимии, а с 1971 по 1984 гг. - заместителем директора по научной работе ИБФМ. В эти годы он занимался разработкой количественных методов геохимической активности бактерий в донных отложениях Мирового океана. Им и его сотрудниками были выполнены исследования, позволившие сформировать направление «Микробная биогеохимия».



Выступление с докладом по роли микроорганизмов в цикле серы. ИБФМ РАН. Конец 70-тых годов.

В мае 1984 года Михаил Владимирович вернулся в Институт микробиологии АН СССР на должность исполняющего обязанности (и.о.) директора, а в марте 1985 года стал директором и занимал эту должность до 2003 года. Это был крайне сложный исторический период государственного переустройства России. Талант организатора помог М.В. сохранить практически все направления общей микробиологии, разрабатывавшиеся в Институте. Им была создана необходимая экспериментальная база для активного участия сотрудников ИНМИ в составе комплексных морских экспедиций Института океанологии им. П.П. Ширшова РАН на глубоководные гидротермальные поля и метановые сипы. В короткое отпускное время он в составе команды сотрудников своей лаборатории принимал участие в Черноморских экспедициях. Михаил Владимирович хорошо переносил морскую болезнь и во время штормов первым выходил на палубные работы. В результате проведенных научных рейсов были открыты новые процессы, связанные с микробным циклом метана в водной толще и донных осадках Черного моря.



Скоро в рейс по Черному морю на НИС «Профессор Водяницкий». 1999 г.



Норильск. 2003 г.



На борту НИС «Акванавт». 2005 г.

Последнее время Михаил Владимирович руководил отделом «Микробной биогеохимии и биогeотехнологии» ИНМИ. Им и его учениками была обоснована концепция нового раздела биотехнологии – биогeотехнологии – и разработаны принципиально новые технологии использования микроорганизмов при добыче полезных ископаемых, которые прошли промышленную проверку на шахтах Донбасса и Кузбасса и на нефтепромыслах Татарстана и Китая. Полученные данные по распространению и геохимической активности

метанобразующих, метанооксиляющих и сульфатредуцирующих микроорганизмов, а также экспериментальные доказательства воздействия этих организмов на изотопный состав соединений углерода и серы привели к пересмотру моделей круговорота этих элементов в океане. Разработанные методы количественной оценки геохимической активности микроорганизмов получили широкое признание.



Еще одной областью научных интересов Михаила Владимировича была космическая биология. В годы практически полного отсутствия государственного финансирования науки в России он нашел возможности и средства инициировать микробиологические исследования Антарктиды как модельной экосистемы для поиска геохимических признаков микробной жизни (анаэробных хемолитотрофных бактерий) на Марсе и других планетах Солнечной системы. К сожалению, эти исследования сейчас приостановлены.

Под руководством М.В. Иванова было подготовлено и защищено более 20 кандидатских диссертаций; он являлся научным консультантом десятков докторских диссертаций, в течение длительного времени читал курс лекций студентам 5-го курса биологического факультета МГУ им. М.В. Ломоносова.

Более 15 лет М.В. Иванов возглавлял международную программу «Глобальный биогеохимический цикл серы и влияние на него деятельности человека», организованную Scientific Committee on Problems of the Environment (SCOPE) и United Nations Environment Programme (UNEP). Результаты работы программы были опубликованы в ряде сборников, соавтором и редактором нескольких из них был Михаил Владимирович. Он был главным редактором журнала «Микробиология» (1984–2018); членом Экспертного совета Минпромнауки России по вопросам биобезопасности; президентом Всероссийского микробиологического общества. Член-корреспондент с 1981 г., академик с 1987 г. – Отделение биологических наук. Лауреат премии им. С.Н. Виноградского (АН СССР, 1985).

По инициативе академика М.В. Иванова Институту микробиологии РАН в 2003 году было присвоено имя выдающегося ученого-микробиолога С.Н. Виноградского.

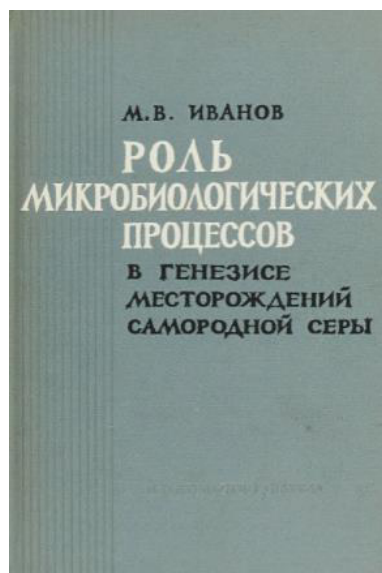
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