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#### Математическая модель системы управления pH в in vitroмодели желудочно-кишечного тракта домашней птицы

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#### ARRESTRACTOR

Весфение. Существенная нелинейность химических реакций кислот и оснований определяет адгоритмы управления в режиме подкисления или подшелачивания, то есть периодической дозащив минимального объема кислоты или шелочи. Такое регулирование может быть малоэффективным, т. с. допускает недостаточную или избыточную концентрацию контролируемого вещества. Статья посавщена проблеме точного регулирования водородного показателя в мини-биореакторах. Предлагается непользовать цифровую модель системы управления кислотностью для подбора концентраций доливаемых растворов, определения методики регулирования и повышения точности. Цель работы — обеспечение требуемой точности регулирования pH в in vitro мини-моделя желудочно-кишечного тракта статического типа.

Метериалы и методы. Исходная структурная схема модели включает наконители и потоки. Она представляет собой базу для основных дифференциальных уравнений, характеризующих изменение объема и кислотности. Для корректировки показаний кислотности результирующего раствора по температуре создана статическая модель, основаниям на полиномиальной аппроксимации экспериментальных данных методом наименьших квадратов. В прикладном пакете Matlab Simulink исследованы структурные элементы математической модели. На реальной системе in vitro моделирования искусственного желудочно-вишечного тракта домашней птицы определены переходиме характеристики для подтверждения адекватности математической модели.

Резульнаемы исследования. В рамках данной работы авторы создали и прознализировали ислинейную математическую модель изменения pH в биореакторе с учетом внешних управляющих воздействий. Потоки раствора соляной кислоты, раствора шелочи и слива раствора из реактора представлены как элементы дифференциального уравнения, описывающието накопление жидкости в реакторе. Для повышения точности решение доработали с учетом температурной зависимости водородного показателя. Предложена математическая модель дозирования на основе регулятора с каналами шелочи и кислоты. Полученные позволили генерировать объединенную модель процесса регулирования pH в биореакторе. Адематностърешения подтвердили опытным путем. В виде структурных слем показаны модели: регулятора pH, регулирования объема содержимого в реакторе и химических реакций. Сравниваются переходные процессы математической модели и реальной системы управления. Установлено, что переходные характеристики математической модели и реальной системы идентичны по времени регулирования. Относительная погрешность регулирования реальной системы составила 0,35 %, а математической модели — 0,1 %, что соответствует требуемой точности регулирования ±0,1 pH. В виде графиков показано влияние исследованных потоков на реакцию исйтрализации.

Обсужовение и заключение. Предлагаемая математическая модель позволят подобрать оптимальные методы и алгоритмы регулирования вислотности, что ускорит создание регулятора нелинейного процесса регулирования водородието показателя. В будущем эти наработки можно интегрировать в комплексную цифровую модельвсего искусственного желудочно-кишечного тракта домашней птицы для оптимизация алгоритмов управления (дозации, перемешивания, периодичности и т. п.), а также анпроксимации к объектам ів vivo.

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**David Kirk** 

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