

**EIGHTY SIXTH AMENDMENT TO
ELSEVIER SUBSCRIPTION AGREEMENT**

WHEREAS, the parties hereto have previously entered into an agreement dated 9 April 2014, as last amended 5 January 2017, (the "Agreement") and wish to amend the Agreement as set forth in this amendment ("Amendment").

NOW, THEREFORE, in consideration of the mutual promises and covenants set forth below, and for such other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree to amend the Agreement as of the execution date below as set forth below and on Schedule 1.

Except as specifically amended hereby, all of the existing terms and conditions of the Agreement are hereby ratified. Capitalized terms used herein that are not otherwise defined shall have the meanings ascribed to them in the Agreement. To the extent any terms or conditions of the Agreement conflict with or are inconsistent with this Amendment, the terms of this Amendment shall prevail.

IN WITNESS WHEREOF, the parties have executed this Amendment by their respective, duly authorized representatives as of 5 January 2017.

**THE REGENTS OF THE UNIVERSITY OF CALIFORNIA o/b/o THE CALIFORNIA
DIGITAL LIBRARY
(Subscriber)**

[Text deleted]

Title: Associate Executive Director

ELSEVIER B.V.

[Text deleted]

Title: Executive Vice President Research Solution Sales

Amendment No.: 1-13172251331 **Agreement No.:** 1-12599696052

**Schedule 1
Subscribed Products/Access/Fees**

UNIVERSITY OF CALIFORNIA, BERKELEY

The Subscribed Products and Fees identified below replace and supersede those identified in the Agreement.

No. 1-13172251331

Subscribed Products – publisher	Access	2017 USD
ScienceDirect® online – Elsevier B.V.	sciencedirect.com	
Elsevier eBooks Titles		[Text deleted]
Elsevier eBooks Collections -Biochemistry, Genetics and Molecular Biology (Legacy 1) -Biomedical Science and Medicine (Legacy 1)		
TOTAL FEES		

Elsevier eBooks Additional Terms and Conditions

The perpetual access granted hereunder for the above eBooks is subject to payment of a one-time fee set forth in the fee table above and, after the initial year of the Term of this Agreement, an annual access fee based on the number of chapters downloaded from such eBooks during the prior twelve (12) months at a rate of US[TD] per download, with a minimum annual fee of US[TD] (adjusted annually for inflation and cost increases) for the Subscriber's access to the platform. The annual access fee will not be charged if the Subscriber maintains an annual subscription on ScienceDirect online or maintains a minimum annual spend of US[TD] on new eBooks purchases from Elsevier. Elsevier will make available for inspection by a duly authorized auditor of the Subscriber, at the Subscriber's sole expense, the records concerning the calculation of such annual access fee once per year during regular business hours upon thirty (30) days written notice to Elsevier. In the event that the Subscriber does not pay any eBooks annual access fee, maintain any annual subscription on ScienceDirect online or maintain a minimum annual spend of US[TD] on new eBooks purchases from Elsevier, the Subscriber may, at its option, acquire, load and technically format on a server that enables access and use by Authorized Users an electronic copy of such eBooks for cost in accordance with the usage provisions of the Agreement. The copy may not contain links and other features and functionality associated with the online version. Elsevier's intent is to deliver all titles in the purchased "legacy" eBooks collection(s) by December 31 of the year in which it is purchased. But it is possible that the delivery of some titles might take place in the immediately following year due to unforeseen circumstances.

**Annex A to Schedule 1
Elsevier eBooks Titles**

UNIVERSITY OF CALIFORNIA, BERKELEY

Product ID	ISBN	Elsevier eBooks Title
9781845690113	9781845690113	Acrylamide and Other Hazardous Compounds in Heat-Treated Foods
9781855737730	9781855737730	Advances in Magnetic Resonance in Food Science
9781855737747	9781855737747	Agri-Food Quality II
9781855737228	9781855737228	Analytical Methods for Food Additives
9781855734630	9781855734630	Antioxidants in Food
9781898563310	9781898563310	Antioxidants in Science Technology Medicine and Nutrition
9780127329512	9780127329512	Atmospheric Science. 2nd edition
9781855734500	9781855734500	Auditing in the Food Industry
9781845696047	9781845696047	A Complete Course in Canning and Related Processes
9781845696054	9781845696054	A Complete Course in Canning and Related Processes
9781845696061	9781845696061	A Complete Course in Canning and Related Processes
9781855735644	9781855735644	Baking Problems Solved
9781845690519	9781845690519	Benders' Dictionary of Nutrition and Food Technology
9781855737754	9781855737754	Biochemistry of Milk Products
9781855737761	9781855737761	Biosensors for Food Analysis
9781855732926	9781855732926	Biscuit Cookie and Cracker Manufacturing Manuals
9781855732933	9781855732933	Biscuit Cookie and Cracker Manufacturing Manuals
9781855732940	9781855732940	Biscuit Cookie and Cracker Manufacturing Manuals
9781855732957	9781855732957	Biscuit Cookie and Cracker Manufacturing Manuals
9781855732964	9781855732964	Biscuit Cookie and Cracker Manufacturing Manuals
9781855732971	9781855732971	Biscuit Cookie and Cracker Manufacturing Manuals
9781855735439	9781855735439	Biscuit Cracker and Cookie Recipes for the Food Industry
9781855735538	9781855735538	Bread Making
9781845690038	9781845690038	Brewing
9781855734906	9781855734906	Brewing
9781855735613	9781855735613	Cereals Processing Technology
9781855734982	9781855734982	Cereal Biotechnology
9780122570605	9780122570605	Chemistry of the Upper and Lower Atmosphere
9781855735903	9781855735903	Colour in Food
9781845695934	9781845695934	Current Good Manufacturing Practices/Food Plant Sanitation
9781855736764	9781855736764	Dairy Processing
9781855737280	9781855737280	Detecting Allergens in Food
9781855737297	9781855737297	Detecting Foreign Bodies in Food
9781855736702	9781855736702	Detecting Pathogens in Food
9781855738027	9781855738027	Detection Methods for Cynobacterial toxins
9781855733411	9781855733411	Determination of Veterinary Residues in Food
9781855737778	9781855737778	Dietary Anticarcinogens and Antimutagens
9781855737785	9781855737785	Dietary Fibre
9781855738034	9781855738034	Disinfection By-Products in Drinking Water

9781855732735	9781855732735	Education and Training in Food Science
9781855739635	9781855739635	Emerging Foodborne Pathogens
9781855738201	9781855738201	Encapsulation and Controlled Release
9781855736771	9781855736771	Environmentally-Friendly Food Processing
9781855735590	9781855735590	Extrusion Cooking
9781855735576	9781855735576	EU Food Law
9781855732780	9781855732780	Feta and Related Cheeses
9781855737808	9781855737808	Flavours and Fragrances
9781855739604	9781855739604	Flavour in Food
9781855737792	9781855737792	Flavour Science
9781855737815	9781855737815	Food and Cancer Prevention
9781855735262	9781855735262	Food Authenticity and Traceability
9781855734623	9781855734623	Food Chemical Safety
9781855735637	9781855735637	Food Chemical Safety
9781855737839	9781855737839	Food Colloids
9781855737822	9781855737822	Food Colloids and Polymers
9781845690120	9781845690120	Food Consumption and Disease Risk
9781855737846	9781855737846	Food Contaminants
9781855733602	9781855733602	Food Dehydration
9781855737853	9781855737853	Food Emulsions and Foams
9781855734975	9781855734975	Food Intolerance and the Food Industry
9781855733596	9781855733596	Food Irradiation
9781855734968	9781855734968	Food Labelling
9781855732698	9781855732698	Food Machinery
9781855732841	9781855732841	Food Policy Trends in Europe
9781855737877	9781855737877	Food Polymers Gels and Colloids
9781855735309	9781855735309	Food Preservation Techniques
9781855735651	9781855735651	Food Process Modelling
9781845697228	9781845697228	Food Product Development
9781855739543	9781855739543	Food Safety Control in the Poultry Industry
9781855732742	9781855732742	Food Science Reviews
9781855739666	9781855739666	Food Spoilage Microorganisms
9781855733961	9781855733961	Food Structure
9781855739581	9781855739581	Food Diet and Obesity
9781855734678	9781855734678	Fruit and Vegetable Biotechnology
9781855735484	9781855735484	Fruit and Vegetable Processing
9781855735569	9781855735569	Frying
9781855735842	9781855735842	Functional Dairy Products
9781855735033	9781855735033	Functional Foods
9781855737259	9781855737259	Functional Foods Ageing and Degenerative Disease
9781855737358	9781855737358	Functional Foods Cardiovascular Disease and Diabetes
9781845695941	9781845695941	Fundamentals of Food Processing and Technology
9781845695958	9781845695958	Glossary for the Food Industries
9781855737884	9781855737884	Gums and Stabilisers for the Food Industry 10
9781855737891	9781855737891	Gums and Stabilisers for the Food Industry 9
9781855734487	9781855734487	Haccp in the Meat Industry
9781845690175	9781845690175	Handbook of Herbs and Spices
9781855735620	9781855735620	Handbook of Herbs and Spices
9781855737211	9781855737211	Handbook of Herbs and Spices
9781855739574	9781855739574	Handbook of Hygiene Control in the Food Industry
9781855732995	9781855732995	Handbook of Indices of Food Quality and Authenticity
9781855738232	9781855738232	High Pressure Food Science Bioscience and Chemistry

9781845695965	9781845695965	Human Resource Development
9781855734661	9781855734661	Hygiene in Food Processing
9781855737303	9781855737303	Improving the thermal Processing of Foods
9781855739659	9781855739659	Improving the Fat Content of Foods
9781855739567	9781855739567	Improving the Safety of Fresh Fruit and Vegetables
9781855739550	9781855739550	Improving the Safety of Fresh Meat
9781855739598	9781855739598	Improving Traceability in Food Processing and Distribution
9781855735606	9781855735606	Instrumentation and Sensors for the Food Industry
9781855733619	9781855733619	Kent's Technology of Cereals
9781845691592	9781845691592	Lawrie's Meat Science
9781855737907	9781855737907	Lipids in Health and Nutrition
9781855735491	9781855735491	Lockhart and Wiseman's Crop Husbandry Including Grassland
9781855737921	9781855737921	Maillard Reactions in Chemistry Food and Health
9781855735040	9781855735040	Making the Most of Haccp
9781855734128	9781855734128	Managing Frozen Foods
9781855738089	9781855738089	Managing Risks of Nitrates to Humans and the Environment
9781855735835	9781855735835	Meat Processing
9781845690502	9781845690502	Meat Products Handbook
9781855734425	9781855734425	Meat Refrigeration
9781855735859	9781855735859	Microbiological Risk Assessment in Food Processing
9781855735477	9781855735477	Minimal Processing Technologies in the Food Industries
9780128007341	9780128007341	Modern Physics, 2nd edition
9781855739710	9781855739710	Modifying Lipids for Use in Food
9781855737334	9781855737334	Mycotoxins in Food
9781855736696	9781855736696	Natural Antimicrobials for the Minimal Processing of Foods
9781855737938	9781855737938	Natural Antioxidants and Anticarcinogens in Nutrition Health and Disease
9781855737945	9781855737945	Natural Antioxidants and Food Quality in Atherosclerosis and Cancer Prevention
9781855734432	9781855734432	New Ingredients in Food Processing
9781855732827	9781855732827	Nitrates and Nitrites in Food and Water
9781855736757	9781855736757	Novel Food Packaging Techniques
9781845690083	9781845690083	Optimising Sweet Taste in Foods
9781855736719	9781855736719	Performance Functional Foods
9781855738119	9781855738119	Pesticides
9781855738102	9781855738102	Pesticide Chemistry and Bioscience
9781855737341	9781855737341	Pesticide Veterinary and Other Residues in Food
9781855732728	9781855732728	Physical Properties of Foods and Food Processing Systems
9780123849540	9780123849540	Physics of Condensed Matter
9781855736726	9781855736726	Phytochemical Functional Foods
9781855737952	9781855737952	Plant Polymeric Carbohydrates
9781845695972	9781845695972	Potato Production Processing and Technology
9781855737273	9781855737273	Poultry Meat Processing and Quality
9781855733947	9781855733947	Practical Dehydration
9781855733626	9781855733626	Principles and Practices for the Safe Processing of Foods
9781898563877	9781898563877	Prion Diseases and Copper Metabolism
9781855737235	9781855737235	Proteins in Food Processing

9781855736740	9781855736740	Rapid and On-Line Instrumentation for Food Quality Assurance
9781845695989	9781845695989	Research and Development Guidelines for the Food Industries
9781855735521	9781855735521	Safety and Quality Issues in Fish Processing
9781855737150	9781855737150	Sausage Manufacture
9781855732872	9781855732872	Separation Processes in the Food and Biotechnology Industries
9781898563969	9781898563969	Staphylococcus Aureus
9781855737310	9781855737310	Starch in Food
9781855734494	9781855734494	Taints and Off-Flavours in Foods
9781855735323	9781855735323	Technology of Biscuits Crackers and Cookies
9781855736733	9781855736733	Texture in Food
9781855737242	9781855737242	Texture in Food
9781855735583	9781855735583	Thermal Technologies in Food Processing
9781855739628	9781855739628	The Chorleywood Bread Process
9781855737914	9781855737914	The Maillard Reaction in Foods and Medicine
9781855739642	9781855739642	The Microwave Processing of Foods
9781855734647	9781855734647	The Nutrition Handbook for Food Processors
9781855735002	9781855735002	The Stability and Shelf-Life of Food
9781845695996	9781845695996	Tomato Production Processing and Technology
9781845696009	9781845696009	Total Quality Assurance for the Food Industries
9781845696016	9781845696016	Total Quality Management for the Food Industries
9781855738140	9781855738140	Toxic Substances in Crop Plants
9781855737327	9781855737327	Understanding and Measuring the Shelf-Life of Food
9781855738157	9781855738157	Understanding Humic Substances
9781855739536	9781855739536	Understanding Pathogen Behaviour
9781845696023	9781845696023	Unit Operations for the Food Industries
9781845694791	9781845694791	Using Cereal Science and Technology for the Benefit of Consumers
9781855732773	9781855732773	Vitamins and Minerals in Health and Nutrition
9781855737976	9781855737976	Wheat Structure
9781855737068	9781855737068	Yeasts in Food
EBCBGMBl		Biochemistry, Genetics and Molecular Biology (Legacy 1)
EBCBSML1		Biomedical Science and Medicine (Legacy 1)