

.....RECENSIONI DI LIBRI



OLIO SOSTENIBILE GUIDA TECNICA DI SOSTENIBILITÀ PER LA FILIERA OLIVICOLO-OLEARIA ITALIANA DI LUCA LOMBARDO¹, CAMILLA FAROLFI², ETTORE CAPRI³

Il volume è concepito come supporto operativo per le aziende olivicolo-olearie che intendano migliorare la sostenibilità ambientale, sociale ed economica dei processi e dei prodotti aziendali.

Il nucleo del libro è costituito da una Guida tecnica di sostenibilità, articolata in 42 requisiti, che si propone come strumento gestionale e conoscitivo a sostegno dell'agricoltura sostenibile, incentivata dalle moderne politiche agricole.

Per la sua stesura si è fatto riferimento a normative nazionali e regionali, a buone pratiche, a evidenze scientifiche, agli Standard ISO, alle certificazioni di sostenibilità nazionali e a indagini di campo.

Per la selezione dei requisiti, la filiera olivicola è stata analizzata nei processi di produzione della fase agricola e di frantoio, caratterizzati in termini di valorizzazione del paesaggio e delle tipicità colturali e culturali, sicurezza e qualità alimentare, comportamenti eticamente e socialmente responsabili e, non per ultime, profittabilità e condivisione del valore sul territorio.

Indice: Introduzione - L'olivo e i quattro pilastri della sostenibilità - La filiera olivicolo-olearia italiana - Razionale dietro lo sviluppo di una certificazione di sostenibilità - Guida tecnica di sostenibilità per la

filiera olivicolo-olearia italiana - Come comunicare la sostenibilità - Appendice - Schede di approfondimento: A.1 Tecnologie dell'industria olearia e sostenibilità, A.2 Nuovi requisiti ambientali ed etico-sociali, A.3 Le avversità dell'olivo: lotta biologica e biotecnologica ed integrata per una gestione sostenibile degli oliveti.

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.....CONGRESSI

RSPO Annual Roundtable Conference on Sustainable Palm Oil (RT2022)

28th November - 1st December 2022 | Kuala Lumpur, Malaysia

Dear Valued Members,

We are pleased to announce that we are back in person for the RSPO annual Roundtable Conference on Sustainable Palm Oil (RT2022).

The event will be held at the Shangri-La Kuala Lumpur, Malaysia with virtual access available, from 28 November to 1 December 2022.

Following the RT2022 conference, the 19th Annual General Assembly of RSPO Members (GA19) will be held on Thursday, 1 December 2022 at the same venue.

Registration details will be made available soon but in the meantime, please save the date and stay tuned for more information.

We are really looking forward to seeing you in person at this year's RT!

<https://rspo.org/news-and-events/events/save-the-date-rt2022-in-kuala-lumpur-28-november--1-december-2022>

Unconventional Ag - Previously the Organic & Non-GMO Forum

29-30 November 2022 | Minneapolis, USA

This focused event and news platform features innovative, sustainable, and value-added opportunities for farmers, grain handlers, processors, procurement groups, startups, equipment/technology providers, and more. The 8th annual conference highlights specialty oilseed, grain, vegetable oil, and plant protein production alongside trade and processing. It showcases regenerative, organic, and sustainable agriculture methods. Unconventional Ag News follows suit by providing the most current and pressing information to readers through a weekly email newsletter.

Unconventional Ag is *the* industry source to discover how to differentiate products and processes and take advantage of emerging markets related to specialty oilseeds, grains, and their bi-products.

For updates:

<https://www.unconventionalag.com/>

Insect Lipids: From Science to Industry

30th November - 1st December 2022 | Magdeburg, Germany

Euro Fed Lipid would like to invite you to the symposium on:

Insect lipids as novel source for future applications: from science to industry

Insects are bred in a fast-growing new industrial sector for applications as food and feed.

During processing two fractions are obtained: proteins and oils. While proteins are aimed mainly for food and feed, oils remain for further processing and are of valuable usage. Euro Fed Lipid organises important conference in Europe taking into consideration different sources of oils and fat with broad variation of origins and usage.

The subject of insect oils and fats was firstly presented during the 18th Euro Fed Lipid Congress and Expo in 2021. The aim of the Insect Lipids Symposium is to provide a platform to learn about origin, composition, processing, and application of insect lipids from the view of both research and industry.

In addition to food and feed, these lipids are applicable for cosmetics and technical applications similar to vegetable and animal oils and fats. Similar to the broad range of common lipids every insect species also produce unique lipids, which may show different physical properties and may contain additional secondary substances. Therefore, the process steps are expected to resemble the processing steps for regular vegetable oils, but shall

be adapted to reflect unique properties required for new applications.

Further details will be made available soon. Please mark your Calendars.

For updates:

https://veranstaltungen.gdch.de/tms/frontend/index.cfm?l=11302&sp_id=2

AlgaEurope 2022

13 - 15 December 2022 | Rome, Italy

Algae have become a multi-billion sector in terms of biotechnology development that is expected to grow rapidly, providing valuable goods and services in multiple applications. In spite of centuries of scientific and commercial interests, the term algae has no taxonomic meaning. In the light of rapidly growing business interests associated with the term algae, a clear, simple definition of algae is not only required but essential for developing the necessary standards, and regulatory and legal issues.

One of the key success factors of AlgaEurope is the close cooperation between EABA - European Algae Biomass Association and DLG Benelux.

The main target of EABA is to act as a catalyst for fostering synergies among scientists, industrialists, and decision-makers in order to promote the development of research, technology, and industrial capacities in the field of Algae. DLG Benelux is part of DLG International: the leading German consulting company of the DLG group for the Agri-business and Food Industry offering international expertise in setting up trade fairs and providing project management and consultancy services - national and international. Read more about EABA and DLG Benelux.

AlgaEurope is a unique opportunity to learn and understand all about algae production and commercialization and interact with over 350 key players from more than 45 countries.

"Since years AlgaEurope is one of the most global comprehensive conferences about science, technology and business in the Algae Biomass sector organized by industry professionals."

Learn more:

<https://algaeurope.org/>

Fuels of the Future 2023

23-24 January 2023 | Berlin, Germany

The 20th International Conference on Renewable Mobility "Fuels of the Future" will take place again from 23rd to 24th January 2023. The motto of the conference is: "Fuels of the Future 2023 - Navigator for sustainable Mobility!" As usual, the event will be bilingual (German-English).

Fuels of the future 2023 welcomes national and international participants including representatives from the raw material collecting and processing industry, the biofuel, mineral oil and automotive industry, the chemical industry, the transport and logistics sector, certification systems as well as from politics, science and research.

The aim of the International Conference is to provide participants with an up-to-date status report on the many different legislative initiatives and to discuss corresponding recommendations for action, to present current market developments and project examples of renewable mobility, and to provide a broad platform for the exchange of experience.

On the International Conference on Renewable Mobility offers the outstanding opportunity to introduce your company or organization to an international audience of experts and/or to present it via sponsoring. You will find details on this in the Exhibition & Participation offer "market place of the future".

For informations:

<https://www.fuels-of-the-future.com/en>

15th International Conference & Expo on Chromatography Techniques

January 30-31, 2023 | Barcelona, Spain

Advanced Chromatography 2023 organizing committee invites analytical expertise, researchers, professors, scientific communities, delegates, students, business professionals and executives to attend the "15th International Conference & Expo on Chromatography Techniques" which is to be held during January 30-31, 2023

In the light of this theme, the conference series aims to provide a forum for international researchers from various areas of analytical chemistry, pharmacy, pharmacology, bioinformatics and other life science groups by providing a platform for critical analysis of new data, and to share latest cutting-edge research findings and results about all aspects regarding advances in HPLC and Chromatography techniques.

The conference provides a platform to detail the research works of analytical expertise from various scientific backgrounds and the same can be perceived by young researchers and students. The conference mainly aims to promulgate knowledge on chromatography and unveil the advances in HPLC techniques.

Both Life Science and Chemical Sciences need analytical techniques in course of research work and therefore Advanced Chromatography 2022 would be a perfect venue to share and develop knowledge on key analytical tools.

Target Audience:

- Analytical experts in chromatography
- Research Heads from Pharmacy and Chemical Industries
- Industrial expertise working with various novel solid & liquid columns
- Marketing teams of Industries with novel products to show case at the conference
- Directors and Professors from Universities and Institutions
- Post-doctoral & PhD student working on analytical & Bio-analytical method development
- Theoretical scientists working on deriving analytical hypotheses
- Relevant Graduate and Post graduate students

Sessions/Tracks:

- Major Chromatographic Techniques
- Advances in Chromatography-HPLC Instrumentations
- Chromatography & Mass Spectrometry
- Chromatography in Pharmacy & Pharmaceutical
- Chromatography in Food Science Technology
- Biochemical Applications of Chromatography-HPLC
- HPLC Fingerprinting in Bioinformatics & Computational Biology
- Analytical & Bio-analytical Applications of Chromatography
- Chromatography-HPLC in Bio-Medical Research
- Hyphenated Chromatography Methods
- Chromatography-HPLC as Separation Techniques
- High Efficiency & High Resolution Techniques
- Method Development & Validation
- Recent Advances in Chromatography-HPLC
- Chip Based Chromatography Separations
- Market Growth of Chromatography- HPLC

For more details please visit:

<https://chromatography.pharmaceuticalconferences.com/>

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For more details please visit:

<https://www.fuels-of-the-future.com/en>

Palm & Lauric Oils Price Outlook Conference & Exhibition (POC2023)

6-8 March 2023 | Kuala Lumpur, Malaysia

Palm and Lauric Oils Price Outlook Conference & Exhibition is the most anticipated annual gathering of key decision-makers and thought leaders in the global edible oils industry, where participants deliberate on the industry's most pressing issues and opportunities surrounding the supply and demand of major edible oils.

For more details and updates please visit:

<https://www.ofimagazine.com/events/palm-lauric-oils-price-outlook-conference-exhibition-poc2023>

FOIC 2023, Fats & Oil International. Conference and Exhibition

16-18 March 2023 | Grand Hyatt Hotel, Mumbai, India

With the FOIC 2023, International Conference & Exhibition taking place from 16-18 March, 2023 at the Grand Hyatt Hotel, Mumbai, India will be the place again for the edible oil world coming together and we look forward to welcoming the world-wide edible oil community again at FOIC-2023.

The FOIC 2023, the International Conference is organised by Oil Technologist's Association of India-Western Zone (OTAI-WZ). OTAI- Western Zone was established in a year 1960 under the leadership of Late Prof. J.G. Kane. The OTAI-WZ is a largest among all zones and has played a very active role in fulfilling the objectives of the associa-

tion since inception. The zone has organised several refresher courses and 40 seminars on National & International scale from year 1968. The main theme of FOIC-2023 Conference is "Meeting the challenges of energy efficiency in process innovations and automation".

Therefore, during this scheduled conference FOIC-2023 will be packed with following well defined & structural modules.

- Energy Efficiency in Process-Innovations in the field of Process Energy Conservation
- Process Automation-Precise Process Control, Data logging & analysis. * Analytical Instrumentation

The FOIC-2023 Conference & Exhibition is an ideal platform to share & gain the latest technology to the global fats & oil community. The high-level conference attracts eminent presenters and an international audience from all over the world. Kindly mark your calendar for 16 th , 17 th & 18 th of March, 2023.

I look forward to welcoming you to FOIC-2023.

European Algae Industry Summit

19-20 April 2023 | Lisbon - Portugal

ACI is pleased to announce the 11th Annual European Algae Industry Summit will take place on the 19th-20th April 2023 in Lisbon, Portugal.

The event will bring together key players within the algae industry including leaders from cosmetics, food, feed, biomaterials, nutraceuticals and pharmaceuticals across the globe allowing attendees to gain a deeper understanding of recent industry developments and, most importantly, economically viable applications.

Key topics:

- Market Overview of Industry Trends & Drivers
- Algae Foods; an Industry Blooming
- Cutting-Edge Advancements in Algae Protein for Plant-Based Products
- Managing EU Regulations across the Industry
- Capitalising on the Success of Spirulina
- Astaxanthin the Oceanic Carotenoid
- Enhancing Algae's Reputation as a Sustainable Alternative
- Furthering the Evolution of Algae in Cosmetics and Personal Care
- Prospects for Algae bioplastics and Biofuel
- Adapting Approaches to Production in an Ever-Expanding Market

Who will attend?

- Algae producers & cultivation plant owners and operators

- Algae end market users in nutrition, cosmetics, pigments, animal feed, bioplastics, agriculture and many more
- Leading algae/biomass research institutes, technology providers for cultivation, harvesting, dewatering, drying, oil extraction and processing
- Plant engineers and constructors, green energy & biotech investors
- Green energy/biotechnology investors: venture capitalists, private equity firms etc. looking to invest in new & emerging markets
- Regulators & governments: organisations looking into the regulation of algae-based product
- Photobioreactor and Cultivation System Providers
- NGOs
- Academics

For updates:

<https://www.wplgroup.com/aci/event/european-algae-industry-summit/>

12th CESIO World Surfactant Congress

5-7 June 2023 | Rome, Italy

CESIO is the European association representing producers of surfactants and intermediates. Every 4 years, the association organizes the CESIO World Surfactant Congress and provides a unique opportunity for partners and contacts across the surfactants value chain to meet. 39 years after the first congress, the 12th World surfactant congress will be held in Rome from 5th to 7th June 2023. The theme for this edition will be: “Surfactants–High Performance Solutions for a Better World”. This event represents the perfect opportunity to learn about the latest developments in key areas such as Business & Market Trends, Safety & Regulatory affairs and Technical & Applications. Participants can take part in sessions covering scientific, technical and economic aspects of surfactants and their industrial and consumer applications.

Surfactants – High Performance Solutions for a Better World

Global warming, Environmental Legislation, COVID-19 the last years have clearly shown that “business as usual” will not be a viable option for the upcoming decades. To an extent global societies will need to adapt to minimise irreversible collateral damage. This will involve governments, regulators, citizens and industry and its supply chains. Some commentators think that new economies with new business models may be required for a better world – a threat to some, an opportunity for others.

With this background, what is the specific mission of surfactants and their producers? Surfactants

play a significant role as part of high-performance solutions that are required to meet the global challenges. For example, surfactants add value by helping to keep the components within a complex product formulation compatible. They also provide performance features in their own right (e. g. cleaning, wetting, foaming, emulsification, etc).

Surfactants are thus one crucial component for consumer products that enable them to do what they are supposed to do, e. g. related to cosmetics, household applications, professional and industrial uses (e.g. I&I or agrochemicals and many others). With current trends surfactant producers are required to reduce the global warming potential of chemical processes and products. As a result, research and investment in several fields will be required for surfactants, including lower CO₂, bio-based raw materials and circularity. The challenge will be to identify surfactants with lower Life Cycle Assessments (LCA) that can be produced at current mainstream surfactant scales, perform well (e. g. clean as well as current products), and be cost effective. On the retail consumer side, digitalization should help to speed up activities as in the COVID-19 era consumers buy more and more products online than off-the-shelf. COVID-19 has also resulted in a huge demand for products and surfactants for hygiene and sanitation.

An important role of our industry organization, CESIO, is to provide surfactant related knowledge and ensure that any industry regulations developed are based on facts, good science and recognised testing protocols. As regulations and raw material chains develop, there will be both restrictions and new opportunities opening up. This will affect surfactants as well as biocides, solvents, polymers and other ingredients. The surfactants industry has a tremendous breadth and depth of expertise in bringing ingredients together in advanced formulations and is therefore well positioned to help downstream adapt to supplier changes and identify new business opportunities.

The conference has three clusters with the following topics:

Technical & Applications

- Environmental sustainability and circularity in surfactants
- Detergency, cleaning and sanitation
- Innovation in Household, Personal Care and I&I
- From structure to properties to applications
- Impact of digital, regulation and consumer behaviour
- Selected applications: household, I&I, personal care, agrochemicals, industrial use of surfactants including oil & gas, plastic additives, emulsion polymerization, etc.

Safety & Regulatory Affairs

- Sustainability Policies in USA, Europe and Japan
- REACH and CLP under the EU Chemicals Strategy
- How can the efficiency of sustainability be assessed?
- Relationship between biocides and surfactants

Business & Market Trends

- Legal and technical input into business models for sustainable products
- Global trends: Hygiene & sanitation beyond COVID-19
- Digitalisation and consumer behaviour
- Dinosaur meets Unicorn – what long-established companies can learn from start-ups

Learn more:

<https://cesio-congress.eu/>

European Fat Processors and Renderers Association (EFPPRA) Congress 2023

7-10 June 2023 | Naples, Italy

The 21st Congress of EFPPRA, the European Fat Processors and Renderers Association will be held in Naples in June 2023.

Save the date!

<https://efpra2023naples.eu/>

International Conference on Algal Biomass, Biofuels and Bioproducts (AlgalBBB 2023)

11-14 June 2023 | Waikoloa Beach, Hawaii, USA

The International Conference on Algal Biomass, Biofuels and Bioproducts (AlgalBBB) will take place in-person, 11-14 June 2023, at the Waikoloa Beach Marriott Resort, Waikoloa Beach, Hawaii, USA. We are excited to be able to provide this much-awaited opportunity for the algae research community to meet in-person and discuss the very latest research and technologies and to interact with leaders in the field.

AlgalBBB places a major emphasis on the latest unpublished technical and scientific results, along with discussion and direct interactions with broad spectrum scientists and engineers, funding sponsors, and leaders in the field from all over the world. The conference presents the work of the algae research community through a balanced set of oral presentations and posters selected from the best submissions to the conference. Our list of keynote and invited speakers includes funding agency sponsors, key industry players, and top

scientists and engineers from the international community.

The conference will cover all areas of emerging technologies in all areas of algal research, including microalgae, macroalgae, and cyanobacteria: biology, biotechnology, biomass production, cultivation, harvesting, extraction, biorefinery, feedstock conversion into fuels, high value products, econometrics, and sustainability analyses.

In 2023, we look forward to hearing about the new emphasis on seaweed-based systems, engineering advances, molecular characterization technologies (e.g., genomics, proteomics, metabolomics), strain engineering technologies for biofuels and high value products and pharmaceuticals, biomaterials, photobioreactor design and control systems, and new technologies in characterization and analysis, among others.

Themes in algae research including microalgae, macroalgae and cyanobacteria:

- Algal Biotechnology - Molecular Engineering
- Algal Biology - Biodiversity and Bioprospecting of Algae for Biofuels and Bioproducts
- Algal Biotechnology - Metabolic Regulation of Algae for Biofuels and Bioproducts
- Algal Cultivation - Phototrophic Systems in Open Ponds
- Algal Cultivation - Phototrophic Systems in Photobioreactors
- Algal Cultivation - Heterotrophic Systems, including utilization of waste waters for algal production
- Bioreactor Design, Engineering and Control
- Algal Harvesting and Extraction Systems
- Engineering of Biorefinery Systems, Technologies, and End-to-end Integration
- New Technologies in Support of Algal Research - Areas of Separation, Refining, Detection, Characterization and Analysis
- Engineering Technologies for Algal Biofuels - Thermal Catalytic and Non-Catalytic, and Enzymatic systems
- Bioproducts from Algae Including High-Value Products and Co-products
- Life Cycle, Technoeconomic, and Sustainability Modeling and Analysis of Algal Production and Fuel Cycle Systems
- Nutrient Recycling and Management
- Algal Biology – Improving photosynthetic growth and biomass productivity

To AlgalBBB 2023 we will provide a high-quality, peer-reviewed programme in which to showcase your research.

For more details please visit:

<https://www.elsevier.com/events/conferences/international-conference-on-algal-biomass-biofuels-and-bioproducts>

16th International Rapeseed Congress

24-27 September 2023 | Sydney, Australia

The 16th International Rapeseed Congress (IRC) to be held in Sydney in 2023 is organised jointly by GCIRC (Global Council for Innovation in Rapeseed and Canola) and AOF (Australian Oilseeds Federation).

IRC is held every four years and is the peak international conference for rapeseed R&D focused on advancement of global rapeseed production and utilisation. Since the 1960s the IRC has been helping rapeseed and canola professionals reach new markets and create enduring relationships in the extensive worldwide network of rapeseed experts.

It is a forum for ideas, innovation and networking and is highly respected among participants from industry, academia, and government, as well as sponsors and exhibitors.

IRC-2023 will bring together scientists and representatives from the global agricultural sector to showcase new developments in genetics, breeding, cultivation, plant protection, oil and meal product quality, compositional analysis, and utilisation of end products in the food, feed and energy sectors.

There will be a combination of field trips, presentations and discussions in plenary lectures, thematic sessions and working groups running over six days from 22 to 27 September 2023.

The Congress provides unique access to the world's largest gathering of rapeseed scientists, researchers and industry experts, creating outstanding business engagement opportunities for Sponsors and Exhibitors.

The program for IRC-2023 will focus around the theme Global Crop, Golden Opportunities.

Global crop

Rapeseed/canola is now well established as a major Global Crop with production spread across several geographical regions and products supplying important global markets for high quality oil and protein. Once known as the 'Cinderella crop' in the 1960's and 1970's it has expanded to become the second largest oilseed crop, now nudging 70 million tonnes of grain per year, and becoming the third largest source of food oils.

This spectacular rise has been driven by breakthrough R&D and continuous innovation from an expanding global network of crop scientists, agriculturalists, and processing sector experts. Rapeseed production continues to see growth in both area and productivity, and nowhere is this more evident than in Australia. Australian canola production reached a record high of over 6 million tonnes in 2021/22, with the majority being exported, firmly establishing Australia as a major supplier for the rapidly expanding global market.

During this period, value adding of canola in Australia has also grown with substantial investment in expanding capacity of existing processing plants and constructing new facilities. IRC-2023 is a great opportunity to witness this expanding Australian industry and for Sponsors to showcase their contributions to the global rapeseed industry.

Golden opportunities

Off a strong global base, rapeseed is now poised to branch out into a new era of crop and product diversification, providing 'Golden Opportunities' to further expand production, improve profitability, and extend reach into new high-value and high-volume end use markets.

Breeders and agronomists are using the latest developments in biotechnology to create high-yielding and disease resistant varieties

Innovative rapeseed cropping systems are being developed, such as the dual-purpose grazing and grain systems being pioneered in Australia

Short-season Brassica crops (Carinata, Camelina, Cress) are being deployed as cover crops in the US to produce low-carbon intensity renewable diesel feedstocks

High-oleic rapeseed has become a preferred source of highly stable and nutritious oil in the food service sector

Unique EPA/DHA canola oils have recently entered production and are finding applications in nutritional supplements and aquaculture feeds

Rapeseed protein is being developed as an additional high-quality protein source to supply the emerging plant-based meat replacement markets

Key themes of the event:

- Genetics, Genomics and Breeding
- Agronomy, Physiology and Management
- Diseases and Pests
- Quality and Products
- End Uses
- Economy and Markets

All information to the page:

<https://www.irc2023sydney.com/>

Malaysian Palm Oil Board (MPOB) International Palm Oil Congress and Exhibition (PIPOC 2023)

7-9 November 2023 | Kuala Lumpur Convention Centre, Malaysia

Organised by: Malaysian Palm Oil Board, Ministry of Plantation Industries and Commodities, Malaysia.

PIPOC 2023 Highlights:

- Impressive line-up of world-renowned speakers/experts who will be sharing their latest information and research advances in the industry.

- Four concurrent conferences with more than 1000 participants, 100 speakers and 200 poster presenters.
 - Exhibition with a total floor area of more than 3600 m2 with over 400 booths to showcase latest technologies/products/services
 - Technical tours to oil palm plantation, palm oil mill, refinery and R&D facilities. Networking opportunities.
- Save the date!
<https://mosta.org.my/wp-content/uploads/2022/07/PIPOC2023-7062023.pdf>



Per informazioni:

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Determinazione degli amminoacidi

282

L'analisi della composizione in amminoacidi è una tecnica ampiamente utilizzata in vari settori industriali al fine di valutare la composizione chimica e la presenza di eventuali adulterazioni del campione sottoposto a controllo. Il Laboratorio effettua l'analisi degli amminoacidi su un'ampia tipologia di campioni: alimenti, mangimi, sostanze proteiche vegetali, bevande, prodotti caseari, prodotti per la detergenza (relativamente al contenuto in enzimi). Gli amminoacidi analizzati includono sia i 20 standard che quelli fisiologici (fino a 40 composti diversi), presenti nel campione in forma libera o dopo idrolisi delle proteine. L'analisi è effettuata mediante un analizzatore automatico che impiega la cromatografia a scambio cationico e la derivatizzazione post-colonna con ninidrina per la separazione e la quantificazione. Il Laboratorio svolge un servizio di analisi e di ricerca applicata conto terzi, oltre a fornire consulenza alle industrie che lo richiedono.

Elenco delle analisi effettuate

- ✓ Determinazione degli amminoacidi (amminoacidi standard) liberi e totali dopo idrolisi
- ✓ Determinazione degli amminoacidi (amminoacidi fisiologici) liberi e totali dopo idrosili
- ✓ Determinazione degli amminoacidi solforati (metionina e cist(e)ina)
- ✓ Determinazione del triptofano