Water pollution refers to the contamination of water bodies such as lakes, rivers, and groundwater with harmful substances, leading to serious health hazards. One major concern linked to water pollution is its association with cancer. Numerous studies have substantiated that exposure to contaminants in polluted water sources can significantly increase the risk of developing various types of cancers. Chemicals like heavy metals (e.g., arsenic, lead), industrial pollutants (e.g., benzene, vinyl chloride), and pesticides have been detected in contaminated water supplies worldwide. These carcinogens not only contaminate the water but also accumulate in aquatic organisms consumed by humans, ultimately entering our food chain. Certain chemicals act as mutagens or tumor promoters, damaging DNA and causing genetic mutations that can lead to cancer development. Additionally, long-term exposure to these pollutants can weaken the immune system’s ability to fight off cancer cells effectively. Consequently, preventive actions must be undertaken swiftly at domestic, industrial, and governmental levels to reduce this pervasive threat through regulated waste disposal practices and advanced purification technologies.

**Keywords:** Water Pollution; Chemicals; Health; Cancer; Preventive Strategies
and deliberate on measures for prevention and mitigation. By comprehending the adverse impacts of water pollution on human health, individuals can adopt proactive strategies to safeguard water resources and mitigate the potential hazards associated with cancer.

**Sources and Causes of Water Pollution**

Water is an indispensable resource on our planet, playing a crucial role in sustaining human existence and supporting the overall health and prosperity of all forms of life. Regrettably, this vital resource is experiencing a growing contamination as a result of several sources and factors contributing to water pollution. The contamination of aquatic ecosystems, including rivers, lakes, and oceans, presents a substantial peril to both the natural environment and human well-being.

Industrial operations are well recognized as a significant contributor to water contamination on a global scale (4). The effluent generated by industrial facilities frequently includes hazardous chemicals, heavy metals, and deleterious substances that infiltrate aquatic ecosystems. These pollutants have the dual effect of contaminating water and causing harm to aquatic life, so disrupting the intricate equilibrium of ecosystems. Improper treatment of industrial wastewater can result in significant adverse impacts on both human health and the environment.

Agricultural practices are a substantial contributor to water pollution. The overutilization of fertilizers and pesticides in agricultural practices results in the transportation of these substances to aquatic ecosystems via surface runoff and leaching mechanisms (5). The presence of these compounds presents a potential hazard to the survival and well-being of aquatic organisms, while also having the potential to infiltrate groundwater sources, so compromising the overall quality of potable water. Moreover, the excrement produced by livestock on industrial-scale farms harbors detrimental bacteria and pathogens capable of polluting adjacent water bodies, so triggering epidemics of waterborne illnesses (6).

The issue of water contamination is further intensified by the processes of urbanization and population expansion. The escalating need for infrastructure and housing necessitates the development of roads, buildings, and sewage systems, frequently resulting in the degradation of natural habitats and the discharge of pollutants into aquatic ecosystems (7). Furthermore, the inadequate management of domestic waste and the absence of sufficient sewage treatment infrastructure in numerous regions exacerbate the issue of water contamination.

Oil spills are a prominent contributor to water pollution. Unintentional occurrences of oil spills that transpire during the transportation process or offshore drilling operations result in the substantial discharge of crude oil into bodies of water, hence inflicting significant harm onto marine organisms and causing profound disruptions to the environment (8). The recovery process following these accidents can span over several years and result in enduring ecological and economic ramifications.

Plastic trash represents an additional contributor to water pollution. The inadequate disposal of plastic products, particularly those that are intended for single use such as bags and bottles, leads to the accumulation of plastic debris in aquatic environments (9). Plastics exhibit a prolonged decomposition process spanning several centuries, so presenting an enduring peril to marine organisms. This is due to their tendency to be misconstrued as sustenance by these organisms, leading to subsequent instances of malnourishment or asphyxiation.

Mining operations, including both surface and subsurface mining techniques, have been identified as significant contributors to water contamination. The process of extracting minerals from the earth involves the excavation and disruption of extensive regions, resulting in the discharge of heavy metals and hazardous compounds into adjacent water bodies (10). The contamination in question not only has adverse effects on aquatic ecosystems, but also presents a significant risk to human health when individuals use drinking water that has been contaminated.

Water contamination can be influenced by natural processes, including erosion. The process of soil erosion, resulting from deforestation, agricultural activities, and construction endeavors, has a significant impact on the accumulation of silt in rivers and lakes (11). This sedimentation phenomenon leads to a decline in the overall quality of water and disrupts the delicate balance of aquatic environments. Furthermore, the occurrence of natural calamities such as floods or tsunamis can exacerbate the dissemination of contaminants, including sewage and chemicals, inside aquatic environments, so amplifying the issue.

Water pollution can be attributed to underlying factors such as insufficient wastewater treatment and inadequate infrastructure. The inadequate management of home and industrial wastewater results in the release of untreated or partially treated effluents into aquatic environments, hence causing pollution. Moreover, the insufficiency of adequate infrastructure in numerous nations impedes the provision of uncontaminated water and the effective handling of wastewater, so worsening the problem. Additionally, it is worth noting that air deposition can also serve as a contributing factor to water pollution. Air pollution, predominantly stemming from industrial emissions and transportation, emits toxins that ultimately deposit onto water bodies via precipitation such as rain (12). Pollutants, including heavy metals, have the potential to amass inside bodies of water such as lakes and rivers, resulting in the deterioration of water quality and presenting a perilous situation for aquatic organisms.

**Impact of Water Pollution on Human Health**

The pollution of water sources, caused by human activity, has had a significant detrimental effect on human health. Water pollution is the process through which water becomes contaminated as a result of several origins, including but not limited to industrial waste, sewage, agricultural runoff, and oil spills.

To begin with, it is important to acknowledge that water pollution exerts a deleterious influence on the accessibility of potable water that is free from contaminants and poses no health risks. A significant number of individuals, particularly those residing in poor nations, depend on water sources that are contaminated, resulting in the emergence of several waterborne illnesses (13). The quick transmission and consequential severe morbidity and mortality associated with diseases such as cholera, typhoid, and dysentery are significant concerns. In addition, the ingestion of water that has been contaminated might result in the development of chronic health conditions, including renal impairment and hepatic disorders (14).
The presence of dirty water has a detrimental impact on the surrounding ecosystems. Aquatic organisms, including fish and many marine species, rely on unpolluted water for their sustenance and continued existence. The introduction of pollutants into aquatic environments can cause disturbances to the natural habitats of various species, potentially resulting in their mortality (15). The ecological imbalance has significant implications for human health, as numerous people depend on these water resources for sustenance and nutritional requirements.

Moreover, the contamination of seafood due to water pollution can directly affect human health. The ingestion of aquatic species contaminated with toxins, including heavy metals and pesticides, can result in the transfer of these harmful substances into the human body (16). The presence of these poisons has been associated with the development of various health complications, such as neurological diseases, reproductive impairments, and malignant neoplasms.

Furthermore, the contamination of water also has an impact on the overall quality and safety of recreational water-based activities. Water bodies that are contaminated by pollutants, such as lakes and rivers, may exhibit elevated concentrations of bacteria and pathogenic microbes (17). Participating in aquatic endeavors, such as swimming or engaging in water sports, inside water sources that have been contaminated can lead to many adverse health effects, including skin irritations, eye infections, and gastrointestinal problems.

The presence of water pollution can result in the soil becoming contaminated, so causing the contamination of agricultural crops and subsequently impacting the overall availability and quality of our food resources (18). This phenomenon can give rise to the ingestion of contaminated food, hence contributing to the emergence of several health complications. In addition, the discharge of agricultural runoff, which includes fertilizers and pesticides, has the potential to contaminate aquatic ecosystems, hence intensifying water pollution and resulting in detrimental impacts on human health.

In addition to its physical health ramifications, water contamination also exerts psychological repercussions. The pollution and deterioration of aquatic ecosystems can result in a diminished sense of environmental interconnectedness and have detrimental impacts on psychological welfare (19). Individuals residing in close proximity to contaminated water sources may experience a profound sense of powerlessness and despondency as a result of their limited ability to obtain clean water, a fundamental necessity for their daily existence (20).

The adverse effects of water contamination extend beyond environmental concerns and have significant implications for both the economy and society at large. The economies of developing countries can experience significant burdens as a result of escalated healthcare expenses stemming from waterborne infections and the subsequent decline in productivity (21). Moreover, populations that heavily depend on water supplies contaminated with pollutants may encounter social and economic inequalities, as the absence of clean water access can impede educational opportunities and limit economic productivity.

It should be noted that water pollution can result in the deterioration of crucial water channels that are utilized for the conveyance of commodities and amenities. The contamination of rivers and oceans can occur as a consequence of oil spills and the discharge of industrial waste, hence exerting adverse effects on navigation and trade. Consequently, such circumstances might lead to adverse economic consequences and cause disruptions in the supply chain across multiple industries.

Link between Water Pollution and Cancer

The proliferation of industry and the growth of populations have resulted in widespread discharge of harmful compounds into aquatic ecosystems, causing significant ecological harm. Furthermore, the adverse impacts of water pollution have far-reaching consequences on human health, as the exposure to polluted water has been associated with the emergence of diverse ailments, such as cancer.

It is of utmost importance to gain a comprehensive understanding of the diverse array of pollutants present in aquatic environments that contribute to the initiation and progression of cancer. Various chemical substances, including heavy metals such as lead, mercury, and arsenic, as well as pesticides, industrial pollutants, medications, and byproducts resulting from water disinfection, have the ability to interact with the DNA within the human body (22). These interactions can result in genetic abnormalities, which in turn have the potential to initiate the development of malignant cells. Carcinogenic compounds are frequently transported into water supplies through many means, such as industrial discharges, inappropriate waste management, and runoff from agricultural lands.

Furthermore, individuals may be exposed to perilous substances via contaminated water sources, which can transpire through many means such as ingestion, occupational contact, or direct interaction during recreational activities like swimming or bathing. The gradual accumulation of toxins found in water within the human body might substantially elevate the likelihood of acquiring diverse forms of cancer, including but not limited to liver, kidney, bladder, and gastrointestinal malignancies (23). Furthermore, it has been posited by several studies that there exists a potential association between specific water contaminants and the occurrence of breast cancer. However, further investigation is required to establish a conclusive and unequivocal relationship.

Moreover, it is crucial to consider the susceptible demographics that are specifically prone to the onset of cancer as a result of water contamination. Socioeconomically marginalized groups frequently experience a disproportionate impact of this problem as a result of their restricted availability of uncontaminated water resources and insufficient waste management infrastructure (24). Marginalized groups experience a disproportionate impact in terms of cancer cases associated with water pollution, hence exacerbating existing health inequities.

Despite the implementation of measures by governments and regulatory agencies aimed at controlling and mitigating water pollution, substantial issues persist. The implementation and enforcement of regulations play a crucial role in ensuring compliance with pollution control measures by both companies and individuals. In addition, there is a pressing need to develop and implement water treatment technologies that are novel in nature, capable of effectively eliminating or neutralizing contaminants (25). This implementation should be carried out on a
larger scale to address the magnitude of the issue at hand. Addressing this challenge collectively needs not just major investments in research but also collaboration between governments, industry, and communities.

In conjunction with preventative measures, it is imperative to enhance public knowledge of the hazards associated with water contamination and its correlation with the development of cancer. Education programs play a crucial role in disseminating knowledge to individuals on the origins of water pollution, the significance of water conservation, and appropriate methods for waste disposal (26). Promoting the adoption of alternative agricultural practices, such as organic farming, can effectively mitigate the reliance on pesticides and hence minimize their infiltration into aquatic ecosystems.

Furthermore, endeavors aimed at safeguarding and rehabilitating ecosystems can yield a domino effect in enhancing the quality of water. Wetlands serve as natural filtration systems, effectively eliminating contaminants from water and improving its overall quality. The mitigation of detrimental impacts caused by water pollution, including the potential development of cancer and other ailments, can be achieved through the preservation and restoration of wetland habitats (27).

Types of Cancer Associated with Water Pollution

Water contamination has been found to have a significant correlation with the development of many forms of cancer. Bladder cancer is widely recognized as a prominent kind of cancer linked to water contamination (28). Various types of contaminants, including industrial chemicals and pesticides, have the potential to infiltrate water sources and subsequently find their way into the human body via ingestion (29). There is evidence suggesting a correlation between the presence of these compounds and a heightened susceptibility to bladder cancer, particularly in individuals who have experienced chronic exposure to water pollution.

Moreover, there is a significant association between water contamination and the incidence of kidney cancer. The long-term impact on kidney health might be significantly compromised due to the existence of harmful compounds, such as heavy metals and solvents, inside contaminated water sources (30). These compounds have been found to exhibit a tendency to collect within the renal system, hence augmenting the likelihood of cancer initiation and the onset of other associated ailments, such as renal failure (31).

Liver cancer is an additional type of cancer that has been linked to water pollution. The presence of heavy metals and organic contaminants in industrial waste has the potential to contaminate water bodies, hence posing a risk of human exposure. The extended duration of exposure to these contaminants has been observed to elevate the likelihood of acquiring liver cancer, a medical condition characterized by significant mortality rates (32, 33).

It has been suggested that water contamination may have a role in the onset of breast cancer. Studies have established a positive association between the exposure to water contaminants and an elevated susceptibility to breast cancer (34). Various chemicals, including pesticides, herbicides, and industrial pollutants, have demonstrated estrogenic properties, thereby interfering with the endocrine system, and potentially promoting the onset of breast cancer (35).

Furthermore, it has been shown that water pollution is linked to the development of gastrointestinal tract malignancies, in addition to the aforementioned types of cancer. The ingestion of water that is contaminated, namely with fecal matter or pathogenic microbes, has the potential to result in the onset of gastrointestinal disorders, including colon cancer (36). The presence of these contaminants has been found to have detrimental effects on the gastrointestinal lining, hence elevating the likelihood of mutations in cells that can lead to the development of cancer.

One significant issue related to water pollution is the heightened susceptibility to skin cancer. The potential consequences of being exposed to hazardous substances, such as specific pesticides and industrial contaminants present in water reservoirs, include the detrimental effects on the skin and an elevated susceptibility to the development of skin cancer (37). This is particularly pertinent for persons who partake in activities such as swimming or water sports in environments with high levels of pollution.

There exists a correlation between water contamination and an increased susceptibility to developing lung cancer. Exposure to carcinogens can be heightened by the direct inhalation of contaminated water droplets or airborne contaminants stemming from water pollution, hence elevating the risk of developing lung cancer (38). These pollutants have the ability to infiltrate the human body via the respiratory system, resulting in cellular harm and ultimately contributing to the formation of malignant cells.

Moreover, there is a correlation between water contamination and the incidence of prostate cancer. Studies have substantiated the correlation between exposure to waterborne contaminants, including certain heavy metals and pesticides, and an elevated susceptibility to the development of prostate cancer (39, 40). These compounds have the potential to disrupt hormone control and biological processes, hence facilitating the proliferation of malignant cells within the prostate gland.

Furthermore, there is a correlation between water contamination and an elevated susceptibility to ovarian cancer. The presence of chemical contaminants in water sources, including dioxins and polychlorinated biphenyls, has been demonstrated to interfere with hormone regulation and elevate the risk of ovarian cancer (41). The association between extended exposure to these pollutants and the occurrence of hormonal disruptions and the onset of malignant cell proliferation in the ovaries has been established.

The association between water contamination and the onset of leukemia, a malignant condition affecting the blood cells, has been established. The presence of specific chemical and industrial contaminants in contaminated water sources has been linked to an elevated susceptibility to leukemia (42). These compounds have the capacity to induce DNA damage and impede the regular functioning of cells, hence resulting in the development of malignant cells inside the bone marrow.

Prevention and Mitigation Strategies
Regulatory Measures and Water Quality Standards

One of the primary regulatory measures involves the enforcement of stringent pollution control regulations pertaining to the discharge of industrial waste. Industries engaged in the production of hazardous substances or the discharge of pollutants into aquatic environments are obligated to adhere to these regulations in order to mitigate the potential contamination of water resources. Many countries have implemented stringent rules regarding the release of harmful chemicals, heavy metals, and carcinogens from industrial sources. This measure effectively mitigates the influx of carcinogenic compounds into the water system, hence diminishing the likelihood of cancer development among persons who ingest this polluted water.

The second regulatory step pertains to the implementation of water quality standards and the establishment of monitoring programs. Governments and regulatory authorities establish precise norms and criteria pertaining to water quality, with the aim of ensuring that water bodies conform to or surpass these requirements. The implementation of ongoing monitoring and periodic testing of water samples plays a crucial role in the detection and identification of potential sources of contamination or instances where the established limits are exceeded. This facilitates timely intervention and remedial measures to mitigate additional pollution and reduce the health hazards linked to cancer.

The third regulatory measure is to agricultural practices and the regulation of runoff originating from farmlands. The utilization of fertilizers, insecticides, and herbicides in agriculture significantly contributes to water contamination. In order to address this matter, regulatory measures have been instituted to oversee agricultural operations and mitigate the discharge of chemicals. These actions encompass the imposition of limitations on certain pesticides and the promotion of the adoption of environmentally sustainable alternatives. By implementing measures to regulate agricultural pollution, the potential for carcinogenic compounds to infiltrate water sources and ultimately impact human well-being is mitigated.

The implementation of wastewater treatment and disposal regulations constitutes the fourth regulatory measure. It is mandatory for municipalities and industries to engage in wastewater treatment prior to its discharge into water bodies or sewage systems. This mechanism serves to inhibit the release of deleterious contaminants or pathogenic microorganisms into the surrounding ecosystem.

Furthermore, the implementation of legislation pertaining to appropriate methods of disposing hazardous wastes serves as a crucial measure in mitigating the risk of groundwater pollution, a prominent contributor to the contamination of drinking water sources. The implementation of effective treatment and correct disposal methods for wastewater significantly mitigates the potential carcinogenic risks associated with exposure to contaminants found in untreated or inadequately treated wastewater.

The sixth regulation measure pertains to the implementation of public awareness and education initiatives. Governments and organizations actively engage in the promotion of public awareness regarding the detrimental impacts of water pollution on human health, encompassing the heightened susceptibility to cancer. The public is educated on the significance of mitigating water pollution by means of appropriate waste disposal, avoiding chemical usage, and preserving water resources. Through the process of increasing knowledge, individuals are granted the ability to engage in proactive measures and assume greater accountability in their use and disposal of resources. This, in turn, leads to a noteworthy reduction in water pollution and therefore mitigates the potential hazards linked with cancer.

Sustainable Water Management Practices

The topic of sustainable water management and its relation to water pollution and its impact on cancer has gained significant attention in recent years due to the increasing recognition of the adverse impacts of pollution on human health.

In order to address this concern, it is imperative to use sustainable water management strategies. One crucial approach involves the mitigation of pollution at its origin. This necessitates the implementation of stringent restrictions and the diligent oversight of industrial, agricultural, and waste management activities to prevent the introduction of deleterious compounds into aquatic ecosystems. Industries have to be mandated to install efficient wastewater treatment systems for the purpose of eliminating pollutants prior to discharge, whereas farmers have the option to embrace organic agricultural techniques as a means to curtail the utilization of pesticides and fertilizers.

In addition, it is crucial to acknowledge the significant impact of education and awareness on the effective implementation of sustainable water management strategies. By providing individuals with knowledge about the ramifications of water pollution and its correlation with cancer, they can develop a heightened awareness of their behaviors and make decisions based on well-informed judgment. It is imperative for everyone to comprehend the significance of appropriate waste management, recycling, and the adoption of safe household habits. Furthermore, educational institutions, higher education establishments, and local community groups have the capacity to coordinate workshops and initiatives aimed at enhancing knowledge regarding sustainable water management techniques and fostering a shift in individual behaviors.

The allocation of resources towards the advancement and integration of cutting-edge technologies constitutes a crucial element in the pursuit of sustainable water management. Cutting-edge wastewater treatment technologies, such as reverse osmosis and ultraviolet disinfection, exhibit remarkable efficacy in eliminating contaminants from water, thereby guaranteeing its suitability for human consumption, and mitigating the potential for carcinogenicity. Furthermore, heightened investment in research and development pertaining to alternative technologies, such as desalination and water reuse, has the potential to alleviate water shortages and alleviate strain on freshwater resources. Consequently, this would diminish the necessity for further extraction and contamination of water supplies.

Finally, the establishment of collaboration and cooperation among diverse stakeholders is vital for the achievement of effective sustainable water management. Collaborative efforts among governments, industry, communities, and non-governmental organizations (NGOs) are imperative in order to facilitate the formulation and implementation of rules, ex-
change of knowledge and best practices, as well as allocation of resources for the purpose of promoting sustainable water management initiatives. The collective endeavor has the potential to contribute to the safeguarding and rehabilitation of aquatic ecosystems, thereby guaranteeing the sustained accessibility of uncontaminated and secure water resources for the entire population.

Public Awareness

The promotion of water source protection and prevention of exposure to dangerous substances necessitates a critical understanding among the general public regarding the correlation between water pollution and cancer.

The dissemination of information to the general public assumes a pivotal role in raising awareness of the inherent risks associated with water contamination and its detrimental impact on human health. The general populace may not possess a comprehensive understanding of the magnitude to which their routine behaviors contribute to water contamination and accidentally subject themselves to toxins that may heighten their susceptibility to cancer. Increasing public knowledge and understanding on the significance of clean water and the imperative to protect water sources can be achieved through the implementation of educational programs, public forums, and utilization of media channels.

Additionally, the promotion of public awareness has the potential to incite citizens to actively engage in advocating for more stringent restrictions pertaining to industries and activities that are known to be significant contributors to water pollution. Through comprehending the correlation between water pollution and cancer, the general populace can exert influence on governmental bodies and corporate entities, compelling them to embrace more environmentally conscious methodologies that mitigate the release of deleterious compounds into water reservoirs. This may encompass the endorsement of policies that incentivize the adoption of environmentally sustainable technologies and the advocacy for responsible waste management strategies.

In addition, heightened public consciousness has the potential to enable individuals to adopt behavioral modifications that effectively mitigate their susceptibility to water contaminants. The implementation of several measures, such as the restriction of dangerous chemical usage inside households, the appropriate disposal of garbage, and the endorsement of municipal activities aimed at safeguarding water sources, can collectively yield substantial outcomes in mitigating water pollution and the consequent health hazards it poses.

Education Campaigns

One primary rationale for the significance of education efforts on water pollution and cancer lies in their ability to foster information acquisition and comprehension. The correlation between water contamination and specific forms of cancer is not well recognized by a significant portion of the population. Through the dissemination of knowledge to the general populace, individuals are empowered to make well-informed decisions regarding their water sources, thereby mitigating the potential hazards associated with exposure to detrimental chemicals. The acquisition of knowledge is a source of power, and educational initiatives serve as a means to equip individuals with the required information to safeguard themselves and their families.

Furthermore, educational initiatives play a crucial role in debunking prevalent beliefs and misconceptions pertaining to water contamination and its correlation with cancer. Misconceptions regarding the origins and consequences of pollution can give rise to indifference or inadequate measures. Through the dissemination of precise and dependable information, campaigns possess the ability to effectively challenge and rectify these fallacious beliefs, thereby motivating individuals to adopt a more earnest attitude towards the matter at hand and undertake requisite modifications in their conduct.

In addition, education initiatives serve as a crucial factor in fostering responsible attitudes and actions regarding water resources. It is imperative for individuals to comprehend that their behaviors, such as inadequate waste management practices or excessive utilization of chemicals, have the potential to contribute to the contamination of water bodies, thus elevating the susceptibility to cancer. Through the dissemination of knowledge and information to various groups, campaigns possess the potential to cultivate a heightened sense of accountability and motivate individuals to embrace sustainable behaviors, including but not limited to recycling and the utilization of environmentally conscious cleaning products.

Education campaigns have a pivotal role in facilitating policy change, rendering them of utmost importance. When the general population possesses a high level of knowledge and involvement, they exert pressure on their elected officials and policymakers to take decisive measures. Education campaigns have the potential to raise awareness about the correlation between water pollution and cancer, so galvanizing public backing and facilitating the adoption of more stringent rules, as well as the enforcement of pre-existing ones. The implementation of these policy reforms has the potential to provide significant and wide-ranging effects, such as enhancing water quality and mitigating long-term cancer incidence.

Education programs have the potential to effectively empower communities, enabling them to actively engage in the identification and implementation of solutions to address water pollution-related challenges. Through the implementation of workshops, seminars, and community involvement activities, campaigns have the potential to foster a sense of agency within individuals, motivating them to actively contribute to societal transformation. Communities that possess a sense of empowerment have the capacity to enact localized solutions aimed at conserving water resources, actively participate in efforts to clean up water bodies, and provide support to groups dedicated to addressing the issue of water pollution and its consequential health hazards.

Conclusion

Water pollution is an alarming problem that not only threatens our ecosystems but also poses a significant risk to human health, including the development of cancer. The evidence presented highlights the critical need for immediate action to address the sources and causes of water pollution. By implementing strin-
gent regulations, adopting sustainable water management practices, and raising public awareness, we can work towards safeguarding our water resources and reducing the risks of cancer associated with water pollution. It is crucial for individuals, communities, and governments to collaborate and take proactive steps to ensure clean and safe water for present and future generations. Together, we can make a difference in protecting our health and preserving the precious resource that is water.

References


