Exhibit 12

UNITED STATES DISTRICT COURT

NORTHERN DISTRICT OF CALIFORNIA

IN RE: ROUNDUP PRODUCTS LIABILITY LITIGATION	MDL No. 2741 Case No. 16-md-02741-VC
This document relates to: ALL ACTIONS	

EXPERT REPORT OF DR. DENNIS WEISENBURGER, M.D.

IN SUPPORT OF GENERAL CAUSATION

ON BEHALF OF PLAINTIFFS

UNITED STATES DISTRICT COURT

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R. 26 EXPERT REPORT OF DENNIS D. WEISENBURGER, M.D.

I am a physician and pathologist specializing in the study of diseases of the hematopoietic and immune systems, with a special interest in non-Hodgkin lymphoma (NHL). My background, qualifications, academic accomplishments, and publications are fully detailed in my curriculum vitae. Briefly, I received a BA degree from the University of North Dakota in 1970 and an MD degree from the University of Minnesota in 1974. After a one-year internship in internal medicine (1974-1975) at Ohio State University, I pursued and completed training in anatomic and clinical pathology at the University of Iowa Hospitals (1975-78). Then, I completed a two-year hematopathology fellowship (1979-1981) with Dr. Henry Rappaport and colleagues at the City of Hope National Medical Center.

From 1984 to 2012, I was a faculty member in the Department of Pathology and Microbiology at the University Nebraska Medical Center (UNMC), and I was promoted to full professor in 1988. During the last 40 years, I have been actively engaged in the study of diseases of the hematopoietic and immune systems, including the pathology, genetics, epidemiology and clinical features of NHL. During this time, I was the chief pathologist for the Nebraska Lymphoma Study Group, and I directed the training program for hematopathology fellows at UNMC. I was also a member of the UNMC Eppley Institute for Research in Cancer and Allied Disease from 1988 to 2012, and the Center for Environmental Health and Toxicology from 1998 to 2012. I have served as a consulting hematopathologist for national lymphoma

clinical trials and research studies performed by the Cancer and Leukemia Study Group B (CALGB). In 2001, I served on the National Cancer Institute (NCI) Peer Review Group which assessed the future research needs for hematopoietic cancers including NHL.

During the last 40 years, I have been particularly interested in the pathobiological mechanisms of how leukemia and NHL develop in humans and the environmental exposures that may play a role in causing these cancers. When I first moved to Nebraska, I was told that there appeared to be an increased incidence of NHL in some counties of Nebraska. Therefore, I began an investigation of this observation and found that the incidence of NHL was increased in over one-half of the counties in eastern Nebraska, and that this increase appeared to correlate with the heavy use of pesticides and fertilizers in agriculture in those counties (1, 2). To study this further, in the mid 1980's, I organized and directed a large epidemiologic case-control study of NHL and related disorders in eastern Nebraska in collaboration with epidemiologists from the NCI. I then collaborated with the same NCI group in a large epidemiologic case-control study of cancers of the brain, stomach and lower esophagus in Nebraska. Later, I participated in a second large epidemiologic case-control study of NHL in Nebraska, and I am currently collaborating with an international consortium of investigators working on lymphoma epidemiologic studies (InterLymph).

In 2012, I became the Chairman of the Department of Pathology at the City of Hope National Medical Center in Duarte, CA. The City of Hope is an NCI-designated comprehensive cancer center, and a major center for the research study and treatment of hematopoietic cancers including NHL. I am also a member of the Beckman Research Institute at City of Hope. During my career, I have published over 300 papers on NHL in peer-reviewed journals, and over 50 papers on the epidemiology of NHL. Therefore, based on my extensive experience and research in the area of NHL, and my knowledge and review of the published scientific literature, I will render an expert opinion on whether the herbicide glyphosate and/or glyphosate-based formulations (GBFs), including Roundup, are a cause of NHL in humans exposed to these chemicals in the workplace or environment. A copy of my current Curriculum Vitae is attached as Exhibit A, a list of my testimony for the past four years and my billing rate is attached as Exhibit B, and a list of the additional materials I have reviewed is attached as Exhibit C.

Background

Glyphosate is a broad-spectrum organophosphate herbicide that is widely used to kill unwanted plants, both in agriculture and in non-agricultural landscapes. Glyphosate is the most heavily used herbicide in the world. Most GBFs, such as Roundup, are either made or used with a surfactant which helps glyphosate penetrate plant cells. A common surfactant used in Roundup is polyethyloxylated tallowamine (POEA), and this GBF was found to be more acutely toxic in animal studies than glyphosate alone (3). Users of GBFs including, but not limited to, farmers, nursery and forestry workers, landscapers and bystanders may be heavily exposed to GBFs during application, mainly by skin and inhalation exposures (4). Glyphosate biomonitoring of farmers has shown that 60% had low levels of glyphosate in their urine on the day of application (5). In another study (6), high concentrations of glyphosate were found in the urine of exposed individuals (average, 7.6 mg/L; range, 0-130 g/L), and there was a significant relationship between the manual application of glyphosate and urine concentrations. In California (1984-1990), glyphosate was the most commonly reported cause of pesticide illness among landscape maintenance workers, and the third most common cause among agriculture workers (3). Thus, people who apply or are otherwise exposed to GBFs can have significant biological exposures to the chemicals in these formulations including glyphosate.

In 2015, the International Agency for Research on Cancer (IARC), a part of the World Health Organization (WHO) and an authoritative body for the evaluation of carcinogenic hazards to humans (7), published its assessment of the carcinogenicity of glyphosate (4, 8). The IARC concluded that glyphosate and GBFs are probably carcinogenic to humans (Group 2A) based on limited epidemiological evidence in humans, mainly for NHL, and significant evidence of carcinogenicity in animals. The IARC also found strong evidence that glyphosate and GBFs can operate through two key characteristics of known human carcinogens, specifically genotoxicity to cells and the induction of oxidative stress. The IARC assessment of glyphosate has led to intense opposition from the pesticide industry, resulting in a series of industry-sponsored articles and reviews on this subject (9-15). Recently, the European Food Safety Authority (EFSA) and the US Environmental Protection Agency (EPA) found that glyphosate is not likely to be carcinogenic in humans (16-18).

Epidemiology in Humans

Numerous epidemiologic studies of the relationship of glyphosate exposure to cancer in humans have been reported, and these are summarized in the IARC and EPA reports (4, 18). These studies have been negative for most of the cancers studied including soft tissue sarcoma, leukemia, multiple myeloma, Hodgkin lymphoma, and cancers of the brain, stomach and esophagus, and prostate. However, most of the studies of NHL have shown a positive association with glyphosate exposure. Therefore, I will focus on the epidemiological studies of NHL in this report.

Six case-control studies of NHL and glyphosate exposure have been published (19-24) and the results of these studies are summarized in Table 1. Of these six case-control studies, five (19-22, 24) showed elevated odds ratios for NHL in workers exposed to glyphosate, whereas only one study (23) with limited statistical power showed no increase. Four of the five positive studies (19-22) showed statistically-significant increases in the risk for NHL (see bolded risk estimates), and the two studies (19, 22) in which a dose-response effect was evaluated showed significantly increased risks of NHL with an increased number of days that glyphosate was used (22) or days per year used (19). In all five positive studies, odds ratios of greater than 2.0 were demonstrated and these were statistically-significant in four of the studies. The only study with a non-significant increase had limited statistical power (24). In three of the five positive studies (20-23), the risk estimates for glyphosate were adjusted for the use of other pesticides but remained elevated. The results of these studies provide evidence for an etiological link between NHL and glyphosate exposure.

Table 1. Case-control studies of NHL and Glyphosate

Reference Location Time	Population Studied	Exposure Category	Exposed Cases	Risk Estimates (95% CI)	Covariants Controlled	Comments
1. McDuffie et al. (19) Canada 1991-1994	517 cases 1506 controls	Exposed ≤ 2 days/yr > 2 days/yr	51 28 23	1.2 (0.83-1.74)* 1.0 (0.63-1.57) **2.12 (1.2 -3.73)**	Age, province	Cross-Canada study; *adjusted for significant medical variables
2. Hardell et al. (20) Sweden 1987-1992	515 cases 1411 controls	Exposed Univariate Multivariate	8 8	**3.04 (1.08-8.52)** 1.85 (0.55-6.20)*	Age, county, study site, vital status	*Adjusted for other pesticides; limited statistical power
3. De Roos et al. (21) Midwest USA 1979-1986	650 cases 1933 controls	Exposed	36	**2.1 (1.1 -4.0)***	Age, study site	*Adjusted for other pesticides
4. Eriksson et al. (22) Sweden 1999-2002	910 cases 1016 controls	Exposed ≤ 10 days > 10 days	29 29 12 17	**2.02 (1.1 -3.71)** 1.51 (0.77-2.94)* 1.69 (0.7 -4.07) **2.36 (1.04-5.37)**	Age, sex, year of enrollment	*Adjusted for other pesticides; odds ratios also increased for all NHL subtypes
5. Orsi et al. (23) France 2000-2004	244 cases 454 controls	Exposed	12	1.0 (0.5 -2.20)	Age, site, socioeconomic category	Limited statistical power; odds ratios increased for some NHL subtypes
6. Cocco et al. (24) Europe 1998-2004	2348 cases 2462 controls	Exposed	4	3.1 (0.6 -17.1)*	Age, sex, site, education	Six countries; *B-cell NHL; limited statistical power

Only one large cohort study of licensed pesticide applicators, the Agricultural Health Study (25), has reported on the risk of NHL associated with glyphosate exposure. This study did not find a significantly elevated risk for cancer overall, or for most of the cancer types including NHL. The NHL risk estimate was 1.1 (0.7-1.9) for glyphosate with 92 exposed cases, and risk did not increase with the number of days glyphosate was used. However, the median follow-up time in this study was only 6.7 years, too short a time to detect a meaningful increase in NHL or other cancers associated with glyphosate. The average latency period for the development of NHL due to long-term exposure to carcinogenic chemicals, such as organic solvents for example, is about 20 years with a range of 10 to 30 years or more (26). However, short-term, high-dose exposures could result in a shorter latency period (26). In one pesticide study of NHL (22), a latency period of greater than 10 years was required to find excess cases of NHL. For glyphosate exposures of less than 10 years, the risk estimate was only 1.11 (0.24 -5.08), whereas it was significantly increased to 2.26 (1.16-4.40) for cases with a latency period of greater than 10 years (22).

Three meta-analyses of the six older epidemiological studies (19-23, 25) were also positive for an association between NHL risk and use of glyphosate. One study (27) showed a significantly increased meta-risk ratio of 1.5 (1.1-2.0), whereas reanalysis by the IARC Working

Group found a significant ratio of 1.3 (1.03-1.65) using fully adjusted risk estimates (4). An industry-sponsored study (9) also found the same risk ratio of 1.3 (1.0-1.9). Additional meta-analyses of two studies (21, 24) for an association of glyphosate use and risk for B-cell NHL were also significantly positive with a meta-risk ratio of 2.0 (1.1-3.6) in two separate analyses (9, 27). These findings provide additional evidence for an etiological link between NHL and glyphosate exposure.

Two industry-sponsored reviews (9, 13) and the EPA report (18) on these same epidemiological studies of NHL have suggested that the positive results are due to various methodologic issues such as study design, selection bias, recall bias, exposure misclassification, confounding and other issues. However, these case-control studies were performed by experienced epidemiologists using widely-accepted study designs and methods, were published in peer-reviewed journals, and I find them acceptable for review and consideration. The industry-sponsored and EPA reviews have given undue weight to the Agricultural Health Study (25) in their assessments, although admitting that the study duration was "relatively short". Taken together, the case-control studies provide evidence for a relationship between glyphosate exposure and risk of NHL, and this evidence cannot be simply dismissed due to the suggestion of possible methodologic issues or the negative results of the immature Agricultural Health Study.

Animal Studies

Glyphosate has also been tested for carcinogenicity in mice and rats in multiple studies (4, 17, 18, 28), and some studies have been positive for the development of tumors. The IARC Working Group (4) found a significant positive and dose-related trend in the incidence of renal tubule carcinoma ($p = 0.037$), and in renal tubule adenoma and carcinoma combined ($p = 0.034$), in males in a feeding study of CD1 mice. Renal tubule carcinoma is a rare tumor in this strain of mice. However, there was no increase in these tumors in female mice in that study. In another feeding study of CD-1 mice, IARC found a significant positive and dose-related trend in the incidence of hemangiosarcoma ($p < 0.001$) in males but not in females. Also, in a feeding study of Sprague-Dawley rats, IARC found an increase in the incidence of pancreatic islet cell adenoma at all doses of glyphosate in males, with a significant increase in the low dose group

($p < 0.05$), but no significant dose-related trend and no increase in females. In another feeding study of Sprague-Dawley rats, IARC again found an increase in the incidence of pancreatic islet cell adenoma at all doses of glyphosate in males, with significant increases in the low-dose group ($p = 0.018$) and the high dose group ($p = 0.042$) but no significant dose-related trend, and no increase in females. In the same study, IARC also found a significant positive and dose-related trend in the incidence of hepatocellular adenoma in males ($p = 0.016$), and in thyroid follicular C-cell adenoma in females ($p = 0.031$).

In an industry-sponsored review (28) of industry studies in rodents, which were not available for review by IARC but were reviewed by EPA, the authors also found a significant increase in hepatocellular adenoma in male Wistar rats ($p = 0.028$) at the highest feeding dose in one study (study 7), and a significant dose-related trend in the incidence of these tumors ($p = 0.01$). In this same review, the authors also reported increases in malignant lymphoma (NHL), the same cancer seen in the human epidemiologic studies, in four mouse feeding studies. In study 13, they found a significant increase in lymphoma in the high-dose groups in both male and female Swiss albino mice compared to controls ($p < 0.05$). In study 14, a dose-related increase ($p = 0.01$) was seen in male but not female CD1 mice, whereas increases were seen in female CD1 mice (study 10) and in male ICD-CD-1 mice (study 12) at the highest feeding doses in the other two studies (p values not given).

In the EPA review of unpublished industry studies (18), the EPA found a significant increase in testicular interstitial cell tumors in male Sprague-Dawley rats at the highest dose ($p = 0.013$) in one study (study 1), with a significant dose-related trend ($p = 0.001$). In another study (study 8), they reported a significant increase ($p = 0.046$) in mammary gland tumors (adenoma and adenocarcinoma combined) at the highest dose in female Wistar rats, with a significant dose-related trend ($p = 0.01$). In a study of male CD1 mice (study 14), the EPA found an increase in lung adenocarcinoma with a significant dose-related trend ($p = 0.05$). In another study of SPF-ICR-CD-1 mice (study 12), they also reported a significant increase in hemangiomas in females at the highest dose ($p = 0.028$), with a dose-related trend ($p = 0.01$). I have read the three animal studies that were made available to me, and I concur with the above findings.

Despite these positive findings of carcinogenicity for glyphosate in multiple animal studies, industry and the EPA have continued to argue that glyphosate has no carcinogenic

potential based on other negative studies, and various methodologic, statistical and other issues (11, 14, 18, 28). However, the positive studies listed above cannot be dismissed, and provide sufficient evidence for the carcinogenicity of glyphosate in experimental animals despite these arguments.

Mechanisms of Carcinogenesis

The IARC Working Group (4) concluded that glyphosate and GBFs were genotoxic in various systems. They found that the mechanistic data overall provided strong evidence for genotoxicity and for oxidative stress induced by glyphosate, with evidence that these effects can also operate in humans.

Two studies of individuals living or working in areas sprayed with GBFs (29, 30) are particularly informative with regard to the genotoxicity of these chemicals in humans. In the first study (29), the authors used the comet assay to evaluate DNA damage in 24 persons exposed to aerial spray of a GBF, some of whom had symptoms of toxicity after several exposures, but who did not use other pesticides. The comet assay is a rapid and sensitive method for the detection of DNA damage induced in blood leukocytes *in vivo*. They found that the exposed group had a significant increase in DNA damage (DNA strand breaks) in blood leukocytes collected two weeks to two months after exposure compared to the unexposed controls ($p < 0.001$). In the other study (30), the authors used the blood lymphocyte micronucleus test as an index of chromosomal damage in 274 persons living in five regions of Columbia. This test is an appropriate biomarker for monitoring the effects of cumulative exposures to genotoxic agents. In the three regions with exposures to GBFs from aerial spraying, blood samples were taken from the same individuals at three time-points, before spraying (baseline), up to five days after spraying, and four months after spraying. The baseline frequency of binucleated cells with micronuclei was significantly higher in subjects from the three regions where there had been aerial spraying of GBFs, and in a fourth region with exposures due only to manual spraying of multiple pesticides, compared to the reference region without the use of pesticides ($p \leq 0.05$). The frequency of micronucleus formation in blood lymphocytes was further increased in the same individuals shortly after the aerial spraying of GBFs compared with the baseline levels in the same individuals ($p < 0.001$), and

remained significantly elevated in individuals from one of the three regions four months later. These two studies provide compelling evidence of genotoxic damage to blood cells (lymphocytes) in individuals exposed to GBFs in the immediate environment due to aerial spraying. These same assays have been used by others to monitor genetic damage in persons exposed to pesticides (31-33).

In vitro studies demonstrating the genotoxicity of glyphosate and GBFs in human blood lymphocytes using various assays have also been reported (34-40). Lioi et al (34) showed a significant dose-dependent increase in aberrant cells ($p < 0.05$) and chromosome aberrations ($p < 0.01$), as well as sister chromatid exchange frequencies per cell ($p < 0.05$), compared to controls, most likely due to oxidative stress and the generation of reactive oxygen species. In two studies, Mladinic et al (35, 36) demonstrated a significant increase in DNA strand breaks ($p < 0.01$) and chromosomal damage ($p < 0.01$), respectively, at the higher doses tested. Alvarez-Moya et al (37) also demonstrated a significant increase in DNA strand breaks ($p < 0.01$), even at very low concentrations. Manas et al (38) have also shown a significant increase in chromosomal aberrations ($p < 0.05$) with exposure to AMPA, an environmental metabolite of glyphosate. A significant increase in sister chromatid exchange frequency was also demonstrated for glyphosate and for Roundup ($p < 0.05$) by Bolognesi et al (39), with a dose-response effect seen for glyphosate, and 10-fold greater genotoxicity of Roundup compared to glyphosate. Vigfusson and Vyse (40) also found a significant increase in sister chromatid exchange frequency in human lymphocytes upon exposure to high concentrations of Roundup ($p < 0.001$).

Similar genotoxic effects have also been reported in other types of human cells tested *in vitro* with glyphosate, AMPA, or GBFs (4, 18). Genotoxic effects have also been reported in numerous studies of these chemicals in non-human mammalian cells *in vivo* and *in vitro*, including mouse bone marrow cells and bovine lymphocytes, as well as non-mammalian systems *in vivo* and *in vitro* (reviewed in 4, 18, 41). Thus, there is extensive evidence that glyphosate and GBFs are genotoxic to human and animal cells in numerous studies. IARC concluded that glyphosate and GBFs are genotoxic (4), and I concur with the IARC findings. However, industry-sponsored reviews (11, 15, 42, 43) and the EPA (18) have concluded that glyphosate and GBFs do not pose a genotoxic hazard, and explain away the positive findings in

the IARC assessment and their own analyses as due to technical or methodologic issues, or cytotoxicity rather than genotoxicity. The EPA and industry-sponsored studies also place undue weight on assays performed in bacteria, and on industry studies that were not available for review by IARC. I have placed greater weight on the two human biomonitoring studies (29, 30) and the many positive studies performed in mammalian systems, particularly human blood lymphocytes which are the cells from which NHL arises as a result of genetic damage.

Recent studies have shown that glyphosate and GBFs can have toxic effects on cells at doses below the regulatory limits (44, 45). For example, glyphosate provokes oxidative stress and cell damage in rat liver and kidneys by disrupting mitochondrial metabolism at exposure levels currently considered safe and acceptable by regulatory agencies (44, 45). Glyphosate and GBFs can also disrupt endocrine signaling in cells at low doses (44-46), induce human breast cancer cells to grow via estrogen receptors *in vitro* (47), and also induce breast tumors in female rats (48). GBFs can also alter the levels of xenobiotic-metabolizing enzymes (49) and affect cell cycle regulation (50, 51) at low doses, which are effects that can also contribute to carcinogenesis. Thus, these findings indicate that even low doses of these chemicals can have significant biological effects on living cells.

General Causation

In the evaluation of whether a specific exposure (glyphosate and GBFs in this case) is a cause of a specific disease (NHL in this case), experts follow a scientific method in the review and evaluation of evidence, and consider and weigh this evidence based on the guidelines set forth by Bradford Hill (52, 53). These guidelines or criteria for the evaluation of general causation are listed below along with my comments concerning this case.

1. **Temporal Relationship.** If an exposure causes a disease, the exposure must occur before the disease develops. This criteria was met by all of the epidemiologic and animal studies cited in this report.
2. **Strength of Association.** Relative risk is one of the cornerstones of causal inference. The higher the relative risk, the greater the likelihood that an exposure is causal. In the

epidemiologic case-control studies, relative risks of greater than 2.0 were seen in five of the six studies and were statistically significant in four of these studies (Table 1).

3. **Dose-response Relationship.** Generally, higher exposures should increase the frequency of disease, and a dose-response effect is considered strong evidence for a causal relationship. The two case-control studies in which a dose-response effect was evaluated (19, 22) showed significantly increased risks with an increased number of days that glyphosate was used. A dose-response effect was also seen in most of the positive animal studies.
4. **Replication of Results.** It is important that epidemiologic study results be replicated in different populations and by different investigators. Consistency of the findings in different studies is an important factor in making a judgement about causation. Five of the six case-control studies had positive findings for NHL, and these were performed by different investigators in the USA, Canada, Sweden, and six other countries in Europe. Only one study (23) with limited statistical power was negative. Animal studies have also replicated the findings for pancreatic islet cell adenoma, hepatocellular adenoma, hemangioma/hemangiosarcoma, and for malignant lymphoma (NHL).
5. **Biological Plausibility.** The association of an exposure with a disease should be consistent with existing knowledge and be biologically plausible. Human NHL is a disease characterized by genetic abnormalities. The occurrence of NHL in people exposed to GBFs is consistent with the genotoxic effects of these chemicals observed in exposed individuals, as well as in human and animal lymphocytes (the precursor cells of NHL), and in other animal and cell models. The fact that mice exposed to glyphosate also develop malignant lymphoma (NHL) contributes to biological plausibility.
6. **Alternative Explanations.** In assessing causation, experts should also consider alternative explanations for an association, such bias or confounding factors in epidemiologic studies. However, the case-control studies of NHL were performed by experienced epidemiologists using widely-accepted study designs and methods, were published in peer-reviewed journals, and were found acceptable for review and consideration by IARC and the EPA. In three of the five positive studies (20-22), the risk estimates for glyphosate were adjusted for the use of other pesticides but remained

elevated, suggesting that confounding due to the use of other pesticides does not fully explain the increased risk estimates for glyphosate. Also, in general, case-response bias tends to bias risk estimates toward the null and not create false-positive findings (54, 55). Thus, taken together, the case-control studies provide evidence for a relationship between glyphosate exposure and risk of NHL, and this evidence cannot be simply dismissed due to possible methodological issues or the negative results of the immature Agricultural Health Study.

7. **Disease Specificity.** The only disease linked to glyphosate exposure to date is NHL, with negative findings for other hematopoietic malignancies including Hodgkin lymphoma, leukemia, and multiple myeloma, as well as negative findings for multiple other cancer types. Thus, glyphosate exposure causes a specific disease, namely NHL.
8. **Coherence.** The evidence described above is consistent with other relevant knowledge concerning similar pesticides as a cause of NHL. Glyphosate is an organophosphate herbicide, and other organophosphate pesticides have also been implicated as causes of NHL by similar mechanisms (8, 27, 56).

In summary, based on my expertise, and my review and evaluation of the literature on this subject, I conclude with a reasonable degree of medical certainty that glyphosate and GBFs (including Roundup) can cause NHL in humans exposed to these chemicals in the workplace or environment.

Dennis D. Weisenburger, M.D.
Professor and Chairman
Department of Pathology

Date: 4/21/17

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16. European Food Safety Authority (EFSA). *Conclusion on the Peer Review of the Pesticide Risk Assessment of the Active Substance Glyphosate.* EFSA Journal, 2015. 13(11): 4302, p. 1-107.

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32. Benedetti, D., Nunes, E., Sarmento, M., Porto, C., Dos Santos, C.E., Dias, J.F., and da Silva, J., *Genetic Damage in Soybean Workers Exposed to Pesticides: Evaluation with the Comet and Buccal Micronucleus Cytome Assays.* Mutat Res, 2013. 752(1-2): p. 28-33.

33. Bolognesi, C. and Holland, N., *The Use of the Lymphocyte Cytokinesis-Block Micronucleus Assay for Monitoring Pesticide-Exposed Populations.* Mutat Res, 2016. 770(Pt A): p. 183-203.

34. Lioi, M.B., Scarfi, M.R., Santoro, A., Barbieri, R., Zeni, O., Salvemini, F., Di Berardino, D., and Ursini, M.V., *Cytogenetic Damage and Induction of Pro-Oxidant State in Human Lymphocytes Exposed in Vitro to Gliphosate, Vinclozolin, Atrazine, and Dpx-E9636.* Environ Mol Mutagen, 1998. 32(1): p. 39-46.

35. Mladinic, M., Berend, S., Vrdoljak, A.L., Kopjar, N., Radic, B., and Zeljezic, D., *Evaluation of Genome Damage and Its Relation to Oxidative Stress Induced by Glyphosate in Human Lymphocytes in Vitro.* Environ Mol Mutagen, 2009. 50(9): p. 800-807.

36. Mladinic, M., Perkovic, P., and Zeljezic, D., *Characterization of Chromatin Instabilities Induced by Glyphosate, Terbuthylazine and Carbofuran Using Cytome Fish Assay.* Toxicol Lett, 2009. 189(2): p. 130-137.

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39. Bolognesi, C., Bonatti, S., Degan, P., Gallerani, E., Peluso, M., Rabboni, R., Roggieri, P., and Abbondandolo, A., *Genotoxic Activity of Glyphosate and Its Technical Formulation Roundup.* Journal of Agricultural and Food Chemistry, 1997. 45(5): p. 1957-1962.

40. Vigfusson, N.V. and Vyse, E.R., *The Effect of the Pesticides, Dexon, Captan and Roundup, on Sister-Chromatid Exchanges in Human Lymphocytes in Vitro.* Mutat Res, 1980. 79(1): p. 53-57.

41. Ghisi, N.d.C., Oliveira, E.C.d., and Prioli, A.J., *Does Exposure to Glyphosate Lead to an Increase in the Micronuclei Frequency? A Systematic and Meta-Analytic Review.* Chemosphere, 2016. 145: p. 42-54.

42. Kier, L.D. and Kirkland, D.J., *Review of Genotoxicity Studies of Glyphosate and Glyphosate-Based Formulations.* Crit Rev Toxicol, 2013. 43(4): p. 283-315.

43. Kier, L.D., *Review of Genotoxicity Biomonitoring Studies of Glyphosate-Based Formulations.* Crit Rev Toxicol, 2015. 45(3): p. 209-218.

44. Mesnage, R., Defarge, N., Spiroux de Vendomois, J., and Seralini, G.E., *Potential Toxic Effects of Glyphosate and Its Commercial Formulations Below Regulatory Limits.* Food Chem Toxicol, 2015. 84: p. 133-153.

45. Myers, J.P., Antoniou, M.N., Blumberg, B., Carroll, L., Colborn, T., Everett, L.G., Hansen, M., Landrigan, P.J., Lanphear, B.P., Mesnage, R., Vandenberg, L.N., Vom Saal, F.S., Welshons, W.V., and Benbrook, C.M., *Concerns over Use of Glyphosate-Based Herbicides and Risks Associated with Exposures: A Consensus Statement.* Environ Health, 2016. 15: p. 19.

46. Gasnier, C., Dumont, C., Benachour, N., Clair, E., Chagnon, M.C., and Seralini, G.E., *Glyphosate-Based Herbicides Are Toxic and Endocrine Disruptors in Human Cell Lines.* Toxicology, 2009. 262(3): p. 184-191.

47. Thongprakaisang, S., Thiantanawat, A., Rangkadilok, N., Suriyo, T., and Satayavivad, J., *Glyphosate Induces Human Breast Cancer Cells Growth Via Estrogen Receptors.* Food Chem Toxicol, 2013. 59(1): p. 129-136.

48. Seralini, G.E., Clair, E., Mesnage, R., Gress, S., Defarge, N., Malatesta, M., Hennequin, D., and de Vendomois, J.S., *Republished Study: Long-Term Toxicity of a Roundup Herbicide and a Roundup-Tolerant Genetically Modified Maize.* Environ Sci Eur, 2014. 26(1): p. 14.

49. Larsen, K., Najle, R., Lifschitz, A., Mate, M.L., Lanusse, C., and Virkel, G.L., *Effects of Sublethal Exposure to a Glyphosate-Based Herbicide Formulation on Metabolic Activities of Different Xenobiotic-Metabolizing Enzymes in Rats.* Int J Toxicol, 2014. 33(4): p. 307-318.

50. Marc, J., Mulner-Lorillon, O., and Belle, R., *Glyphosate-Based Pesticides Affect Cell Cycle Regulation.* Biol Cell, 2004. 96(3): p. 245-249.

51. Marc, J., Belle, R., Morales, J., Cormier, P., and Mulner-Lorillon, O., *Formulated Glyphosate Activates the DNA-Response Checkpoint of the Cell Cycle Leading to the Prevention of G2/M Transition.* Toxicol Sci, 2004. 82(2): p. 436-442.

52. Hill, A.B., *The Environment and Disease: Association or Causation?* Proceedings of the Royal Society of Medicine, 1965. 58(5): p. 295-300.

53. Green, M.D., Freedman, D.M., and Gordis, L., *Reference Guide on Epidemiology In: Reference Manual on Scientific Evidence: Third Edition.* The National Academies Press, 2011: p. 597-606.

54. Blair, A. and Zahm, S.H., *Patterns of Pesticide Use among Farmers: Implications for Epidemiologic Research.* Epidemiology, 1993. 4(1): p. 55-62.

55. Blair, A., Tarone, R., Sandler, D., Lynch, C.F., Rowland, A., Wintersteen, W., Steen, W.C., Samanic, C., Dosemeci, M., and Alavanja, M.C., *Reliability of Reporting on Life-Style and Agricultural Factors by a Sample of Participants in the Agricultural Health Study from Iowa.* Epidemiology, 2002. 13(1): p. 94-99.

56. Lukaszewicz-Hussain, A., *Role of Oxidative Stress in Organophosphate Insecticide Toxicity – Short Review.* Pesticide Biochemistry and Physiology, 2010. 98(2): p. 145-150.

EXHIBIT A

CURRICULUM VITAE

DENNIS D. WEISENBURGER, MD

Professor and Chairman, Department of Pathology
City of Hope National Medical Center
[redacted]

Date Prepared: April 2017

I. EDUCATION

University	University of North Dakota, Grand Forks, ND, BA (General), Honors, 1970
University	University of North Dakota, Grand Forks, ND, BS (Medicine), Honor, 1972
Medical School	University of Minnesota, Minneapolis, MN, MD, 1974

II. POST GRADUATE EDUCATION AND TRAINING

Internship	Ohio State University Hospitals (Internal Medicine), Columbus, OH, 07/74-06/75
Residency	University of Iowa Hospitals (Anatomic and Clinical Pathology), Iowa City, IA, 07/75-12/78
Fellowship	City of Hope National Medical Center (Hematopathology), Duarte, CA, 01/79-12/80

CERTIFICATIONS

- National Board of Medical Examiners, 1977
- Anatomic and Clinical Pathology, American Board of Pathology, 1979

MEDICAL LICENSURES

- [redacted] Iowa, 1977, Active
- [redacted] Nebraska, 1984, Active
- [redacted] California, 2012, Active

III. PROFESSIONAL EXPERIENCE, POSITIONS & EMPLOYMENT Separate faculty appointments from other administrative, hospital or industry appointments and program affiliations

Hospital Appointments
Assistant Pathologist, City of Hope National Medical Center, Duarte, CA, 1981
Staff Pathologist, Mercy San Juan and American River Hospitals, Carmichael, CA, 1981-1984

Academic Appointments
Assistant Clinical Professor of Pathology, University of California at Davis Medical Center, 1981-1984

Associate Professor of Pathology & Microbiology, University of Nebraska Medical Center, 1984-1988
Director of Hematopathology
Chief Pathologist, Nebraska Lymphoma Study Group
Director of Hematopathology Fellowship Program, 1984-1988
Director of University Hospital Clinical Laboratories, 1986-1988
Director of Bone Marrow Culture Laboratory, 1984-1989
Director of University Hospital Regional Reference Laboratory, 1984-1987
Professor of Pathology & Microbiology, University of Nebraska Medical Center, 1988-2012
Director of Hematopathology
Chief Pathologist, Nebraska Lymphoma Study Group
Director of Hematopathology Fellowship Program, 1988-2011
Director of University Hospital Clinical Laboratories, 1988-1996
Professor and Chairman, Department of Pathology, City of Hope National Medical Center, 2012-present
Program Member, Hematologic Malignancies, City of Hope Comprehensive Cancer Center

Clinical Administrative Appointments

- See above

Other Professional Activities

Associate Professor Courtesy, Eppley Institute for Research in Cancer and Allied Diseases, 1985-1988
Graduate College Faculty Fellow, University of Nebraska Medical Center, 1985-2012
Consulting Pathologist, Omaha Veterans Administration Hospital, 1985-1993, 1997-2000
Consulting Pathologist, Nebraska Department of Health Laboratory, 1987-1989
Professor Courtesy, Eppley Institute for Research in Cancer and Allied Diseases, 1988-2012
Consulting Pathologist, North American Autologous Blood and Bone Marrow Transplant Registry, 1994-2012
Consulting Pathologist, Cancer and Leukemia Study Group B, 1996-1999
Member, Lymphoma and Pathology Core Committees, 1996-1999
Co-chair, Correlative Sciences Core Committee for Leukemia/Lymphoma, 1997-1998
Member, Center for Environmental Health and Toxicology, University of Nebraska, 1998-2012
NCI Leukemia, Lymphoma, and Myeloma Progress Review Group, 2000
NCI AIDS-related Malignancy Tissue Bank Review Group, 2000-2010
Lymphoma Foundation of America Scientific Review Panel, 2000-present
International Consortium of Investigators Working on Lymphoma Epidemiologic Studies, 2001-present (InterLymph); Chair, Pathology Working Group, 2001-2014
Member, Center for Research in Leukemia and Lymphoma, University of Nebraska, 2004-2012
Member, Center for Molecular Genetics and Genomics, University of Nebraska, 2007-2012
Advisory Board, Lugano International Conference on Malignant Lymphoma, 2009-2013

IV. National Honors, Scholarships and Awards Honors and Awards

1970	Phi Beta Kappa, University of North Dakota
1970	Grey Gown Award, University of North Dakota
1972	Pathology Award, University of North Dakota Medical School
1985	Alexander von Humbolt Fellowship
1994	Groundwater Foundation Special Recognition Award for Research
1996-1998	Best Doctors in America, Central Region
2000-present	America's Top Doctors/Medical Specialists
2001-present	Best Doctors in America
2004	Alpha Omega Alpha, University of Nebraska

(Submitted: April, 14, 2017)

2005-2008	Visiting Professor, China Three Gorges University
2005-2008	Visiting Professor, Hubei Province Cancer Hospital
2006	Milton R. Hales Lecture in Pathology, West Virginia University School of Medicine
2006-present	Who's Who in Science and Engineering
2006-present	American Men and Women of Science
2008	UNeMED Research Innovation Award
2008	UNMC Distinguished Scientist
2011	John J. Kepes Lectures in Pathology, Kansas City Society of Pathologists
2012, 2016	UNMC Innovation Award for Patent
2016	Distinguished Lecturer, Sylvester Comprehensive Cancer Center, University of Miami

V. CLINICAL ACTIVITIES

- See above

VI. SERVICE TO INSTITUTION

Administrative Service

Committee Assignments at University of Nebraska Medical Center:

1984-1985	Departmental Education Committee
1985-1987	Departmental Laboratory Computer Committee
1985-1987	University Hospital Computer Committee
1985-1998	Departmental Administrative Committee
1986-1996	Chairman, Clinical Laboratory Quality Assurance Committee
1985-1989	Deans Scholastic Evaluation Committee
1986	Deans Ad Hoc Committee on Tenure
1986-1987	Deans Ad Hoc Committee for selection of Obstetrics/Gynecology Chairman
1988-1989	Deans Ad Hoc Committee for selection of Biostatistics/Epidemiology Chairman
1988-1990	Intercampus Water Quality Advisory Committee for Governor's Research Initiatives
1988-1992	Chairman (1989), Departmental Promotion and Tenure Committee
1988-1989	Chancellors Ad Hoc Committee for selection of Director of Eppley Institute
1989-1990	Nursing Staffing Patterns Task Force
1988-1996	University Medical Associates (UMA) Ambulatory Affairs Committee
1988-1992	Chairman, UMA Ancillary Diagnostic Standards Committee
1989-1991	UMA Clinic Policies and Procedures Committee
1989-1992	Board of Directors, Professional Fees Office, Nebraska Clinicians Group
1990-1993	Chairman, Clinical Laboratory Service Excellence Committee
1991	Chancellor's Ad Hoc Subcommittee on Total Quality Management
1991	Chairman, Deans Ad Hoc Committee for selection of Water Center Toxicologist
1991-1992	American Board of Pathology, Hematology Committee
1991-1999	A. Ross McIntyre Awards Selection Committee
1992-1996	Chairman, Hospital Quality Assurance Committee for Ancillary Laboratory Testing
1993-1996	Hospital Quality Assurance and Improvement Committee
1993-1994	Clinical Laboratory Quality Monitoring Team
1994	University of Nebraska Medical Center Leadership Institute
1994-1995	University Hospital Consortium Laboratory Strategic Benchmarking Committee

1996-1997	Chairman, Departmental Promotion and Tenure Committee
1996-1997	Campus Committee for Selection of Director of Molecular Genetics
1997-2003	Cancer Center Membership Committee
1997-2012	Associate Director, Cancer Center Tissue Procurement Core Facility Committee
2002-2003	Campus Comprehensive Space Planning and Analysis Group
2002-2003	Campus Research Development Board
2002-2004	Departmental Promotion and Tenure Committee, Chairman 2002-2003,
2003-2011	College of Medicine Graduate Medical Education Committee
2004-2007	Chairman, Departmental Grand Rounds Committee
2004-2012	Executive Committee, Center for Research in Leukemia and Lymphoma
2008	Chairman, Departmental Workload Committee

Committee Assignments at City of Hope Medical Center:

2012-present	Committee of Chairs
2012-present	Medical Group Board of Directors
2012-present	Cancer Center Leadership Council
2012-2013	Chairman, Tissue Biorepository Initiative
2013-present	Chairman, City of Hope Biorepository Committee
2014-present	Director, Cancer Center Pathology Core Cluster Shared Resource
2015	Committee for Selection of Chair of Medical Oncology
2015-2016	Laboratory Information System Steering Committee
2015-present	Lymphoma Clinical Database Committee
2015-present	Lymphoma Center Investigator Committee
2015-present	ORIEN Steering Committee
2016-present	Clinical Laboratory Test Utilization Committee
2016-present	Precision Medicine Working Group

Teaching Service

- Director of Hematopathology Fellowship Program, University of Nebraska Medical Center, 1984-2011
- Hematopathology and general pathology for medical students, residents, and fellows, University of Nebraska Medical Center, 1984-2011

Other Research Mentoring Activities/Committees

- N/A

VII. SERVICE TO PROFESSION

Professional Organizations

National/International
American Association for Cancer Research, 1984-present
American Society of Clinical Pathologists, 1984-present
Member, Council on Hematology, 1994-2000
American Society for Hematology, 1984-present
College of American Pathologists, 1984-present
European Association for Haematopathology, 1984-present
Society for Hematopathology, 1984-present

	Member, Executive Committee, 1995-1999
	United States and Canadian Academy of Pathology, 1984-present
Regional/Local	Los Angeles Society of Pathologists, 2012-present
Government Activities	N/A
NIH Study Section	N/A
Editorships	N/A
Editorial Boards	Modern Pathology, 1990-2007 Clinical Lymphoma, Myeloma, and Leukemia, 2000-present Journal of Oncology 2008-2009 The European Journal of Clinical and Medical Oncology, 2009-present World Journal of Clinical Oncology, 2010-present Blood and Lymphatic Cancer: Targets and Therapy, 2010- present Journal of Epidemiology and Public Health, 2016-present Clinics in Oncology, 2016-present
Journal Reviews	American Journal of Clinical Pathology; American Journal of Gastroenterology; American Journal of Hematology; American Journal of Pathology; Annals of Hematology; Annals of Internal Medicine; Annals of Oncology; Blood; Bone Marrow Transplantation; Cancer; Cancer Causes and Control; Digestive Diseases; Environmental Health Perspectives; European Journal of Cancer; Human Pathology; International Journal of Cancer; Journal of Clinical Oncology; Laboratory Investigation; Leukemia; Leukemia and Lymphoma; Leukemia Research; New England Journal of Medicine.
Grant Reviews	N/A
Community Service	Nebraska Environmental Control Council (Governor's appointment), 1987-1989 Professional Education Committee, American Cancer Society, Nebraska Division, 1986-1989 Advisory Committee on Cancer Prevention and Control, Nebraska Department of Health, 1987-1995 Nebraska Cancer Registry Advisory Committee, Nebraska Department of Health, 1989-2011 Board of Directors, American Cancer Society, Nebraska Division, 1990-1992 Board of Directors, AAA Center for Pregnancy Counseling, 2004-2012
Other:	
Symposia	N/A
Sessions Chaired	N/A
Consultantships	N/A

VIII. Grants/Research Support

ACTIVE GRANTS

- N/A

PENDING GRANTS/RESEARCH SUPPORT

- N/A

(Submitted: April, 14, 2017)

COMPLETED GRANTS/RESEARCH SUPPORT

- N/A

IX. Publications

Publications (peer-reviewed), 425 Total

1. Weisenburger, D.D., O'Conner, M.L., and Hart, M.N., Thrombotic Thrombocytopenic Purpura with C'3 Vascular Deposits: Report of a Case. Am J Clin Pathol, 1977. 67(1): p. 61-63.

2. Rankin, W.E., Hart, M.N., and Weisenburger, D.D., Thrombotic Thrombocytopenic Purpura in a Child with Alexander's Disease. Arch Pathol Lab Med, 1977. 101(12): p. 655-657.

3. Weisenburger, D., Armitage, J., and Dick, F., Immunoblastic Lymphadenopathy with Pulmonary Infiltrates, Hypocomplementemia and Vasculitis. A Hyperimmune Syndrome. Am J Med, 1977. 63(6): p. 849-854.

4. Weisenburger, D.D., Interstitial Pneumonitis Associated with Azathioprine Therapy. Am J Clin Pathol, 1978. 69(2): p. 181-185.

5. Weisenburger, D.D., Immunoblastic Lymphadenopathy Associated with Methyldopa Therapy: A Case Report. Cancer, 1978. 42(5): p. 2322-2327.

6. Seibert JJ, Seibert RW, Weisenburger DD, Alsbrook W. Multiple Congenital Hemangiopericytomas of the Head and Neck. Laryngoscope 88:1006-1011, 1978.

7. Helms, C.M., Sturm, R.H., Viner, J.P., Weisenburger, D., Renner, E., and Rose, E., Legionnaires' Disease: A Case from Iowa. J Iowa Med Soc, 1978. 68(9): p. 311-317.

8. Weisenburger, D.D., DeGowin, R.L., Gibson, P., and Armitage, J.O., Remission of Giant Lymph Node Hyperplasia with Anemia after Radiotherapy. Cancer, 1979. 44(2): p. 457-462.

9. Weisenburger, D.D., Membranous Nephropathy. Its Association with Multicentric Angiofollicular Lymph Node Hyperplasia. Arch Pathol Lab Med, 1979. 103(11): p. 591-594.

10. Hunsicker, L.G., Shearer, T.P., Plattner, S.B., and Weisenburger, D., The Role of Monocytes in Serum Sickness Nephritis. J Exp Med, 1979. 150(3): p. 413-425.

11. Weisenburger, D.D., Acute Myelofibrosis Terminating as Acute Myeloblastic Leukemia. Am J Clin Pathol, 1980. 73(1): p. 128-132.

12. Weisenburger, D.D., Rappaport, H., Ahluwalia, M.S., Melvani, R., and Renner, E.D., Legionnaires' Disease. Am J Med, 1980. 69(3): p. 476-482.

13. Diamond, L.W., Bearman, R.M., Berry, P.K., Mills, B.J., Nathwani, B.N., Weisenburger, D.D., Winberg, C.D., Teplitz, R.L., and Rappaport, H., Prolymphocytic Leukemia: Flow Microfluorometric, Immunologic, and Cytogenetic Observations. Am J Hematol, 1980. 9(3): p. 319-330.

14. Helms, C.M., Viner, J.P., Renner, E.D., Chiu, L.C., and Weisenburger, D.D., Legionnaires' Disease among Pneumonias in Iowa (Fy 1972-1978). Epidemiologic and Clinical Features of 30 Sporadic Cases of L. Pneumophila Infection. Am J Med Sci, 1981. 281(1): p. 2-13.

(Submitted: April, 14, 2017)

15. Weisenburger, D.D., Helms, C.M., and Renner, E.D., Sporadic Legionnaires' Disease. A Pathologic Study of 23 Fatal Cases. Arch Pathol Lab Med, 1981. 105(3): p. 130-137.

16. Weisenburger, D.D., Nathwani, B.N., Diamond, L.W., Winberg, C.D., and Rappaport, H., Malignant Lymphoma, Intermediate Lymphocytic Type: A Clinicopathologic Study of 42 Cases. Cancer, 1981. 48(6): p. 1415-1425.

17. Diamond, L.W., Weisenburger, D.D., and Rappaport, H., The Relationship between Lymphocyte Nuclear Morphology and Cell Cycle Stage in Lymphoid Neoplasia. Am J Hematol, 1981. 11(2): p. 165-173.

18. Weisenburger, D.D., Kim, H., and Rappaport, H., Mantle-Zone Lymphoma: A Follicular Variant of Intermediate Lymphocytic Lymphoma. Cancer, 1982. 49(7): p. 1429-1438.

19. Weisenburger, D.D., Nathwani, B.N., Forman, S.J., and Rappaport, H., Noncutaneous Peripheral T-Cell Lymphoma Histologically Resembling Mycosis Fungoides. Cancer, 1982. 49(9): p. 1839-1847.

20. Weisenburger, D.D., Mantle-Zone Lymphoma. An Immunohistologic Study. Cancer, 1984. 53(5): p. 1073-1080.

21. Helms, C.M., Viner, J.P., Weisenburger, D.D., Chiu, L.C., Renner, E.D., and Johnson, W., Sporadic Legionnaires' Disease: Clinical Observations on 87 Nosocomial and Community-Acquired Cases. Am J Med Sci, 1984. 288(1): p. 2-12.

22. Weisenburger, D.D., Nathwani, B.N., Winberg, C.D., and Rappaport, H., Multicentric Angiofollicular Lymph Node Hyperplasia: A Clinicopathologic Study of 16 Cases. Hum Pathol, 1985. 16(2): p. 162-172.

23. Weisenburger, D.D., Astorino, R.N., Glassy, F.J., Miller, C.H., MacKenzie, M.R., and Caggiano, V., Peripheral T-Cell Lymphoma. A Clinicopathologic Study of a Morphologically Diverse Entity. Cancer, 1985. 56(8): p. 2061-2068.

24. Weisenburger, D.D., Vinh, T.N., and Levinson, B., Malakoplakia of Bone. An Unusual Cause of Pathologic Fracture in an Immunosuppressed Patient. Clin Orthop Relat Res, 1985(201): p. 106-110.

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569. Siddiqi T, Scuto A, Beumer JH, Song JY, Frankel P, Ruel C, Cobb J, Kiesel BF, Weisenburger DD, Kelly KR, Tuscano J, Popplewell L, Forman SJ, Piekarz R, and Newman EM, Results From a Phase 1 Study and Expanded Cohort of an Interrupted Dosing Schedule of the Aurora Kinase A Inhibitor MLN8237 Combined with Vorinostat in Lymphoid Malignancies. 57th ASH Annual Meeting, 2015.

570. Perry AM, Diebold J, MacLennan KA, Müller-Hermelink HK, Nathwani BN, Boilesen E, Bast M, Armitage JO, Weisenburger DD. Classification of Non-Hodgkin Lymphoma in Seven Geographic Regions Around the World: Review of 4539 Cases from the International Non-Hodgkin Lymphoma Classification Project. 57th ASH Annual Meeting, 2015.

571. Perry AM, Diebold J, MacLennan KA, Müller-Hermelink HK, Nathwani BN, Boilesen E, Bast M, Armitage JO, Weisenburger DD. Classification of Non-Hodgkin Lymphoma (NHL) in the Developing World: The International NHL Classification Project. Mod Pathol 29: 368A, 2016.

572. Low L, Song JY, Chen YY, Valle M, Weisenburger DD, Kim YS. Coexpression of MYC and BCL2 Proteins Identifies a Subset of Follicular Lymphoma that Undergoes Transformation to Diffuse Large B-cell Lymphoma and Correlates with Poor Survival. Mod Pathol 29: 360A, 2016.

573. Ameri MD, Wong JT, Low L, Chen YY, Weisenburger DD, Pillai R, Kim YS, Song JY. CXCR4 Expression in Follicular Lymphoma. Mod Pathol 29: 334A, 2016.

574. Mohanty A, Sandoval N, Das M, Amin H, Marcucci G, Pillai R, Weisenburger DD, Rosen ST, Pham LV, Ngo VN. Cyclin D1 Mutations Increase Protein Stability and Promote Ibrutinib Resistance in Mantle Cell Lymphoma. ASH Lymphoma Biology Meeting, 2016.

575. Perry AM, Diebold J, Nathwani BN, MacLennan KA, Müller-Hermelink HK, Bast M, Boilesen E, Armitage JO, Weisenburger DD. Classification of Non-Hodgkin Lymphoma in Seven Geographic Regions Around the World: Review of 4539 Cases from the International Non-Hodgkin Lymphoma Classification Project. InterLymph Annual Conference, 2016.

576. Herrera AF, Low A, Griffin GK, Mei M, Merryman R, Song J, Bedell V, Sun H, Paris T, Stiller T, Alyea E, Brown J, Budde E, Chen R, Chen YB, Chan WC, Cutler C, Davids M, Freeman A, Fisher D, Ho V, Jacobsen E, Jacobson C, Koreth J, LaCasce A, Murata-Collins J, Nademanee A, Nikiforow S, Palmer J, Pihan G, Pillai R, Siddiqi T, Sohani A, Popplewell L, Zain J, Kwak L, Weinstock D, Soiffer R, Antin J, Forman S, Weisenburger DD, Rodig S, Kim Y, Krishnan A, Armand P. Outcomes after Autologous and Allogenic Stem Cell Transplantation (SCT) in Diffuse Large B-cell Lymphoma (DLBCL) Patients with MYC/BCL2 Co-expression, Double-hit Lymphoma, or MYC Copy Gain. European Hematology Association Annual Meeting, 2016.

577. Harris SA, Presutti R, Kachuri L, Spinelli JJ, Pahwa M, Blair A, Zham SH, Cantor KP, Weisenburger DD, Pahwa P, McLaughlin JR, Dosman JA, Freeman LB. Pesticide Exposures and the Risk of Multiple Myeloma in Men: An Analysis of the North American Pooled Project (NAPP). 50th IARC Global Cancer Occurance, Causes and Avenues to Prevention Conference, 2016.

578. Pahwa M, Freeman LEB, Spinelli JJ, Blair A, Zahm SH, Cantor KP, Pahwa P, Dosman JA, McLaughlin JR, Weisenburger DD, Demers PA, Harris SA. A Detailed Assessment of Glyphosate Use and the Risks of Non-Hodgkin Lymphoma Overall and by Major Histological Subtypes: Findings from the North American Pooled Project (NAPP). 50th IARC Global Cancer Occurance, Causes and Avenues to Prevention Conference, 2016.

579. Harris SA, Musa R, Pahwa M, Kachuri L, Spinelli JJ, Blair A, Pahwa P, McLaughlin JR, Dosman JA, Zahm SH, Cantor KP, Weisenburger DD, Freeman LEB. An Evaluation of Potentially Carcinogenic Pesticides and the Risks of Non-Hodgkin Lymphoma and its Histological Subtypes: An Analysis of the North American Pooled Project (NAPP). 50th IARC Global Cancer Occurance, Causes and Avenues to Prevention Conference, 2016.

580. Kachuri L, Harris SA, Spinelli JJ, Blair A, Pahwa M, Zahm SH, Cantor KP, Weisenburger DD, Pahwa P, Dosman JA, McLaughlin JR, Demers PA, Freeman LEB. An Investigation of Organochlorine Insecticide Use and the Risks of Non-Hodgkin Lymphoma Subtypes: Findings from the North American Pooled Project (NAPP). 50th IARC Global Cancer Occurance, Causes and Avenues to Prevention Conference, 2016.

581. Latifovic L, Freeman LB, Spinelli JJ, Pahwa M, Blair A, Pahwa P, McLaughlin JR, Dosman JA, Zahm SH, Cantor KP, Weisenburger DD, Demers PA, Harris SA. Pesticide Use and the Risk of Hodgkin Lymphoma: Results from the North American Pooled Project (NAPP). 50th IARC Global Cancer Occurance, Causes and Avenues to Prevention Conference, 2016.

582. Perry A, Diebold J, Nathwani B, MacLennan K, Müller-Hermelink HK, Bast M, Boilesen E, Armitage J, Weisenburger D. Non-Hodgkin Lymphoma in the Developing World: Review of 4539 Cases from the International Non-Hodgkin Classification Project. 18th Meeting of the European Association for Haematopathology, 2016.

583. Gonzalez BR, Song J, Weisenburger D, Palmer J, Zain J, Rosen ST, Querfeld C. The Immune Checkpoint Receptors ICOS and PD1 in Mycosis Fungoides and Sezary Syndrome: Correlation with Disease and Outcome. 3rd World Congress of Cutaneous Lymphomas, 2016.

584. Mohanty A, Sandoval N, Das M, Amin HM, Marcucci G, Pillai R, Weisenburger DD, Rosen ST, Pham LV, Ngo VN. CCND1 Mutations Increase Protein Stability and Promote Ibrutinib Resistance in Mantle Cell Lymphoma. 58th ASH Annual Meeting, 2016.

585. Herrera AF, Song JY, Griffin GK, Nikolaenko L, Mei M, Bedell V, Dal Cin P, Pak C, Stiller T, Sun H, Alyea EP, Budde LE, Chen RW, Chen Y-B, Chan WC, Cutler CS, Ho VT, Koreth J, Krishnan A, Murata-Collins JL, Nikiforow S, Palmer JM, Pihan GA, Pillai R, Popplewell L, Rosen ST, Siddiqi T, Sohani AR, Zain J, Kwak LW, Weisenburger DD, Nademanee AP, Weinstock DM, Soiffer RJ, Antin JH, Kim Y, Rodig SJ, Forman SJ, and Armand P, Double-Hit and Double-Expressor Lymphomas Are Not Associated with an Adverse Outcome after Allogeneic Stem Cell Transplantation. 58th ASH Annual Meeting, 2016.

586. Bouska A, Bi C, Lone W, Zhang W, Kedwaii A, Heavican TB, Lachel CM, Yu J, Fu K, Ferro RA, Eldorghamy N, Greiner TC, Vose JM, Weisenburger DD, Gascoyne RD, Rosenwald A, Ott G, Campo E, Rimsza LM, Jaffe ES, Braziel RM, Siebert R, Miles RR, Dave S, Reddy A, McKeithan TW, Staudt LM, Green MR, Chan WC, and Iqbal J, Comprehensive Genomic Analysis of Adult Burkitt Lymphoma Identifies the B-Cell Receptor Signaling Pathway as a Potential Therapeutic Target. 58th ASH Annual Meeting, 2016.

587. Heavican TB, Yu J, Bouska A, Greiner TC, Lachel CM, Wang C, Dave BJ, Amador CC, Fu K, Vose JM, Weisenburger DD, Gascoyne RD, Hartmann S, Pedersen MB, Wilcox R, Teh BT, Lim ST, Ong CK, Seto M, Berger F, Rosenwald A, Ott G, Campo E, Rimsza LM, Jaffe ES, Braziel RM, d'Amore FA, Inghirami G, Bertoni F, Staudt L, McKeithan TW, Pileri SA, Chan WC, and Iqbal J, Molecular Subgroups of Peripheral T-Cell Lymphoma Evolve by Distinct Genetic Pathways. 58th ASH Annual Meeting, 2016.

588. Song J, Perry A, Pillai R, Herrera A, Ottensen R, Nikowitz J, Skrabek P, Goldstein L, McCarthy C, Najera L, Zain J, Wang J, Wu X, Nademanee A, Niland J, Chan WC, Weisenburger DD. Evaluation of de novo Diffuse Large B-cell Lymphoma Using a Targeted Next Generation Sequencing Assay. Mod Pathol 30: 1519A, 2017.

589. Perry AM, Skrabek P, Ahsanuddin A, Schroedter I, Menard C, Lambert P, Song J, Weisenburger DD, Nasr M. Prognostic Significance of Telomere Length in Diffuse Large B-cell Lymphoma. Mod Pathol 30: 1483A, 2017.

590. Siaghani P, Song JY, Wong J, Chen YY, Weisenburger DD, Kim YS. Tumor-associated Macrophages do Not Predict Survival in Relapsed/refractory Hodgkin Lymphoma Treated with Autologous Stem Cell Transplantation. Mod Pathol 30: 1515A, 2017.

591. Song JY, Kim YS, Siaghani P, Cantu D, Chen YY, Pillai R, Chan WC, Weisenburger DD. CTLA-4 Expression in Hodgkin Lymphoma Confers a Worse Overall Survival in Relapsed/refractory Patients. Mod Pathol 30: 1518A, 2017.

592. Wong JT, Ameri MD, Cantu D, Siaghani P, Song J, Weisenburger DD, Kim Y. Defining True Cellularity in Age-matched Marrows. Mod Pathol 30: 2102A, 2017.

593. Wong JT, Ameri MD, Siaghani P, Cantu D, Chen YY, Song J, Weisenburger DD, Kim Y. Programmed Cell Death Ligand1 (PD-L1) Expression in the Follicular Lymphoma Microenvironment. Mod Pathol 30: 1545A, 2017.

594. Sibon D, Nguyen DP, Schmitz N, Suzuki R, Feldman AL, Gressin R, Lamant L, Weisenburger DD, Nakamura S, Ziepert M, Maurer MJ, Bast M, Armitage JO, Vose JM, Jais JP, Savage KJ. Prognostic Factors and Impact of Etoposide in Adults with Systemic ALK-Positive Anaplastic Large Cell Lymphoma: a Pooled Analysis of Six Studies. (submitted)

595. Weisenburger DD, El Behery R, Laurini JA, Smith LM, Dave BJ, Yuan J, Fu K, Chan WC, Nathwani BN, Bierman PJ, Bociek RG, Vose JM, Armitage JO, Greiner TC, Aoun P. Follicular Large Cleaved Cell (Centrocytic) Lymphoma: a Distinctive but Unrecognized Variant of Follicular Lymphoma. (submitted)

596. Moltok A, Wright G, Rosewald A, Ott G, Ramsower C, Campo E, Braziel RM, Delabie J, Weisenburger DD, Song J, Chan WC, Cook J, Fu K, Greiner T, Smeland E, Holte H, Glinsmann-Gibson BJ, Gascoyne RD, Staudt LM, Jaffe E, Conners JM, Scott DW, Steidl C, Rimsza LM. Molecular Classification of Primary Mediastinal Large B-Cell Lymphoma Using Formalin-Fixed, Paraffin-Embedded Tissue Specimens – an LLMPP Project. (submitted)

597. Cantu D, Siaghani P, Aoun P, Weisenburger DD, Pillai R. Molecular Profiling in Chronic Myelomocytic Leukemia. (submitted)

X. Invited Seminars/Lectures/Forums, 203 Total

1. "Malignant Lymphoma, Intermediate Lymphocytic Type: A Clinicopathologic Study of 42 Cases." International Academy of Pathology Meeting, 1981.

2. "Mantle-Zone Lymphoma." International Academy of Pathology Meeting, 1982.

3. "Multicentric Angiofollicular Lymph Node Hyperplasia: A Clinicopathologic Study of 16 Cases." International Academy of Pathology Meeting, 1984.

4. "Intermediate Lymphocytic Lymphoma: An Immunohistologic Study with Comparison to Other Lymphocytic Lymphomas." International Academy of Pathology Meeting, 1985.

5. "Immunologic Studies of Multicentric and Unicentric Angiofollicular Lymphoid Hyperplasia." International Academy of Pathology Meeting, 1986.

6. "Induction of B-Cell Lymphoma/Leukemia in Wistar Rats by 2-Hydroxyethylnitrosourea." Proceedings of the American Association for Cancer Research, 1986.

7. "Peripheral T-Cell Lymphoma: A Clinicopathologic Study of 42 Cases." Proceedings of the American Association for Cancer Research, 1986.

8. "Intermediate Lymphocytic Lymphoma: An Immunologic and Cytogenetic Study." International Congress of the International Academy of Pathology, 1986.

9. "Castleman's Disease: A Unified Concept." Eleventh Annual AFIP Course on Pathology of Lymph Nodes, 1987.

10. "B-Cell Neoplasia Recapitulates the Normal Humoral Immune Response." Third International Conference on Malignant Lymphoma, 1987.

11. "Detection of Occult Lymphoma Cells in Bone Marrow Harvested for Autologous Transplantation." International Academy of Pathology Meeting, 1988.

12. "Castleman's Disease: A Unified Concept." Twelfth Annual AFIP Course on Pathology of Lymph Nodes, 1988.

13. "Intermediate Lymphocytic and Mantle-Zone Lymphomas: Evolving Concepts." Twelfth Annual AFIP Course on Pathology of Lymph Nodes, 1988.

14. "Mantle-Zone Lymphoma: A Systematic Approach." ASCP Course on Lymph Node Pathology, 1988.

15. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 1988.

16. "Environmental Epidemiology of Non-Hodgkin's Lymphoma in Eastern Nebraska." Iowa Symposium on Agricultural Occupational and Environmental Health, 1988.

17. "Lymphoid Malignancies and Agricultural Practices." NIEHS Workshop on the Quantification of Risk in Immunotoxicology, 1988.

18. "Lymphoid Malignancies and Agricultural Practices." Symposium on Agricultural Impacts on Groundwater, American Association for the Advancement of Science Meeting, 1989.

19. "Castleman's Disease: A Unified Concept." Thirteenth Annual AFIP Course on Pathology of Lymph Nodes, 1989.

20. "Intermediate Lymphocytic and Mantle-Zone Lymphomas: Evolving Concepts." Thirteenth Annual AFIP Course on Pathology of Lymph Nodes, 1989.

21. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 1989.

22. "Hematopoietic Neoplasia: A Conceptual Understanding." Environmental Epidemiology Branch, National Cancer Institute, 1989.

23. "Benign Diseases of Lymph Nodes: A Pattern Approach." Short Course for American Society of Clinical Pathologists Meeting, 1989.

24. "Lymphoma Pathology in Epidemiologic Studies." Workshop on Cancer in Rural Areas, University of Saskatchewan, 1989.

25. "Non-Hodgkin's Lymphoma Associated with the Agricultural Use of Herbicides: Analysis by Histologic type." International Academy of Pathology Meeting, 1990.

26. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 1990.

27. "Benign Diseases of Lymph Nodes: A Pattern Approach." Short Course for American Society of Clinical Pathologists Meeting, 1990.

28. "Potential Health Consequences of Groundwater Contamination by Agrichemicals in Nebraska." NATO Advanced Research Workshop on Nitrate Contamination: Exposure, Consequences, and Control, 1990.

29. "Non-Hodgkin's Lymphoma Associated with the Agricultural Use of Herbicides: Analysis by Histologic type." Third Meeting of the European Association for Haematopathology, 1990.

30. "Non-Hodgkin's Lymphoma Associated with the Agricultural Use of Herbicides: Analysis by Histologic Type." Klein Symposium on Causes, Consequences, and Cures Lymphoproliferative Diseases, 1991.

31. "Mantle Zone Lymphoma." International Academy of Pathology Meeting, 1991.

32. "Non-Hodgkin's Lymphomas of Primary Follicle/Mantle Zone Origin." 2nd Vicenza International Workshop of Hematology, 1991.

33. "Cancers of the Lymphohematopoietic System in Humans Exposed to 1,3-Butadiene." Occupational Safety and Health Administration, 1991.

34. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 1991.

35. "Benign Diseases of Lymph Nodes: A Pattern Approach." Short Course for American Society of Clinical Pathologist Meeting, 1991.

36. "Intermediate Cell Lymphoma - Current Controversies." Society for Hematopathology Symposium, American Society of Clinical Pathologists Meeting, 1991.

37. "Human Health Effects of Agrichemical Use." Environmental and Occupational Disease - A State-of-the-Art Conference for Pathology Educators, 1991.

38. "Lymphoma Pathology in Epidemiologic Studies." National Cancer Institute Workshop on the Time Trends in Non-Hodgkin's Lymphoma - Current Knowledge and Recommendations for Research, 1991.

39. "Pesticides/Chemicals and Their Association with Non-Hodgkin's Lymphoma." National Cancer Institute Workshop on Mechanisms in B-Cell Neoplasia, 1992.

40. "Birth Defects and Well Water Contamination by Agrichemicals." Third International Symposium on Issues in Health, Agriculture and the Environment, 1992.

41. "Benign Diseases of Lymph Nodes: A Systemic Approach". ASCP Course on Lymph Node Pathology, 1992.

42. "Strategies for Service Excellence in the Clinical Laboratory." Short Course for American Society of Clinical Pathologists Meeting, 1992.

43. "Benign Diseases of Lymph Nodes: A Pattern Approach." Short Course for American Society of Clinical Pathologists Meeting, 1992.

44. "Is the 2;5 Chromosomal Translocation Specific for CD30-Positive Anaplastic Large Cell Lymphoma? US/Canadian Academy of Pathology Meeting, 1993.

45. "Epidemiology of Non-Hodgkin's Lymphoma." Keystone Symposium on B- and T-Cell Lymphomas, 1993.

46. "Epidemiology of Non-Hodgkin's Lymphoma." Fifth International Conference on Malignant Lymphoma, 1993.

47. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 1993.

48. "Strategies for Service Excellence in the Clinical Laboratory." Short Course for American Society of Clinical Pathologists Meeting, 1993.

49. "Benign Diseases of Lymph Nodes: A Pattern Approach." Short Course for American Society of Clinical Pathologists Meeting, 1993.

50. "Mantle Cell Lymphoma - Pathologic Features". Society for Hematopathology Workshop on Disorders of Small B-Lymphocytes, 1993.

51. "Mantle Cell Lymphoma". Department of Pathology, Northwestern University Medical Center, 1993.

52. Lymphoma Slide Seminar, Kansas City Society of Pathologists Meeting, 1993.

53. "Mantle Cell Lymphoma - Clinical Features". European Task Force on Lymphoma Workshop on Mantle Cell Lymphoma, 1994.

54. "Epidemiology of Hodgkin's Disease". International Symposium on Hodgkin's Disease, 1994.

55. "Pathology of Hodgkin's Disease". International Symposium on Hodgkin's Disease, 1994.

56. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 1994.

57. "Epidemiology of Non-Hodgkin's Lymphoma". Cancer Center, University of Virginia Medical Center, 1994.

58. "New Views on Non-Hodgkin's Lymphoma Classification". Pan Pacific Lymphoma Conference, 1994.

59. "New Concepts in the Pathology of Hodgkin's Disease". Pan Pacific Lymphoma Conference, 1994.

60. "Health Effects of Contaminated Groundwater". Fall Symposium of the Groundwater Foundation, 1994.

61. "Strategies for Service Excellence in the Clinical Laboratory." Short Course for American Society of Clinical Pathologists Meeting, 1994.

62. "Classification of Non-Hodgkin's Lymphoma", Colorado Springs Memorial Hospital, 8th Annual Oncology Conference, 1995.

63. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 1995.

64. "Benign Disorders of Lymph Nodes: A Pattern Approach". Society for Hematopathology Symposium on Diagnostic Issues and Advances in Hematopathology, 1995.

65. "International Non-Hodgkin's Lymphoma Classification Project", Department of Pathology Seminar, University of Hong Kong, 1995.

66. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 1996.

67. "Clinical Significance of the t(14;18)(q32;q21) in Follicular Large Cell Lymphoma". US and Canadian Academy of Pathology Meeting, 1996.

68. "Application of the International Lymphoma Study Group (ILSG) Classification of Non-Hodgkin's Lymphoma (NHL). Study Design, Methods, and Pathology Results". Lugano Workshop on New Lymphoma Classification, 1996.

69. "The International Non-Hodgkin's Lymphoma Classification Project - Preliminary Findings". CALGB Lymphoma Committee Meeting, 1996.

70. "A Prospective Study of the International Lymphoma Study Group (ILSG) Classification of Non-Hodgkin's Lymphoma: Pathology Findings". AACR/ASCO Joint Conference on Basic and Clinical Aspects of Lymphoma, 1997.

71. "The International Lymphoma Study Group (ILSG) Classification of Non-Hodgkin's Lymphoma: Pathology Findings from a Large Multicenter Study". US/Canadian Academy of Pathology Meeting, 1997.

72. "The International Lymphoma Study Group (ILSG) Classification of Non-Hodgkin's Lymphoma: Clinical Findings from a Large Multicenter Study". US/Canadian Academy of Pathology Meeting, 1997.

73. "Non-Hodgkin's Lymphoma: A Practical and Cost-effective Approach to Diagnosis". US/Canadian Academy of Pathology Course, 1997.

74. "Non-Hodgkin's Lymphoma: A Practical and Cost-Effective Approach to Diagnosis". ASCP Short Course, 1997.

75. "Overview of the Non-Hodgkin's Lymphoma Classification Project". Pan Pacific Lymphoma Conference, 1997.

76. "Mantle Cell Lymphoma - Pathology". Pan Pacific Lymphoma Conference, 1997.

77. "Follicular Lymphoma", International Non-Hodgkin's Lymphoma Classification Project Workshop, 1997.

78. "Grading of Follicular Lymphoma", WHO Clinical Advisory Committee Meeting on the Classification of Neoplastic Diseases of the Hematopoietic and Lymphoid Systems, 1997.

79. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 1997.

80. "Non-Hodgkin's Lymphoma: A Practical and Cost-effective Approach to Diagnosis". US/Canadian Academy of Pathology Course, 1998.

81. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 1998.

82. "New Classification for Non-Hodgkin's Lymphoma". Fifth Seminar on New Trends in Treatment for Acute Leukemia, 1998.

83. "Mantle Cell Lymphoma - Biological Characterization". 2nd International Symposium on Malignant Lymphomas, 1998.

84. "Evaluation of the New Lymphoma Classification". Medical College of Ohio, 1998.

85. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 1999.

86. "Results of the Non-Hodgkin's Lymphoma Classification Project". University of the Witwaterstrand, 1999.

87. "Burkitt-like Lymphoma". Pan Pacific Lymphoma Conference, 1999.

88. "Mantle Cell Lymphoma". ASCO-PANARAB Conference on Malignant Lymphoma, 1999.

89. "The Non-Hodgkin's Lymphoma Classification Project". ASCO-PANARAB Conference on Malignant Lymphoma, 1999.

90. "Histologic Type Predicts Survival in Adults with Diffuse Aggressive B-cell Lymphoma". US and Canadian Academy of Pathology Meeting, 2000.

91. "Gene Expression in Lymphoid Malignancies Using cDNA Microarray Technology". Workshop on the Comparative Pathology of HIV- and SIV-associated Lymphoma, 2000.

92. "Grading of Follicular Lymphoma: Diagnostic Accuracy, Reproducibility, and Clinical Relevance". Meeting of the European Association for Haematopathology, 2000.

93. "The Non-Hodgkin's Lymphoma Classification Project". University of Texas M.D. Anderson Hospital, 2000.

94. "Benign Diseases of Lymph Nodes: A Systematic Approach". ASCP Course on Lymph Node Pathology, 2000.

95. "Classification and Staging of Non-Hodgkin's Lymphoma". 23rd Annual Nebraska Tumor Registry Workshop, 2000.

96. "The Non-Hodgkin's Lymphoma Classification – Clinical Relevance". International Symposium on New Trends in the Management of Lymphoma, 2000.

97. "Mantle Cell Lymphoma". International Symposium on New Trends in the Management of Lymphoma, 2000.

98. "The Non-Hodgkin's Lymphoma Classification Project". Thai Society of Pathologists, 2001.

99. "The Non-Hodgkin's Lymphoma Classification Project". Tata Memorial Hospital Lymphoma Study Group, 2001.

100. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 2001.

101. "The Non-Hodgkin's Lymphoma Classification Project." Beijing International Lymphoma Symposium, 2001.

102. "Mantle Cell Lymphoma." Beijing International Lymphoma Symposium, 2001.

103. "Low-Grade B-cell Lymphoma Slide Seminar." Beijing International Lymphoma Symposium, 2001.

104. "Incorporating Pathology into Epidemiologic Studies." International Consortium of Investigators Working on Lymphoma Epidemiologic Studies (InterLymph), 2001.

105. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 2002.

106. "Molecular Classification of Lymphoma – A Work in Progress." Roswell Park Cancer Institute, 2002.

107. "The REALity of Lymphoma Classification – Pathology Perspectives." Conference on Lymphoma & Myeloma, 2002.

108. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 2003.

109. "Update on Lymphoma Classification." Pan-Pacific Lymphoma Conference, 2003.

110. "Mantle Cell Lymphoma: From Discovery to 2003." Department of Pathology and Microbiology Grand Rounds, University of Nebraska Medical Center, 2003.

111. "Cyclin DI-negative Mantle Cell Lymphoma." United States and Canadian Academy of Pathology Meeting, 2004.

112. "Follicular Lymphoma, Grade 3. Clinical and Biological Features." Lymphoma . . . the Next Questions International Conference, 2004.

113. "Benign Diseases of Lymph Nodes: A Systematic Approach." ASCP Course on Lymph Node Pathology, 2004.

114. "Follicular Lymphomas: Are They All the Same?" Conference in Lymphoma and Myeloma, 2004.

115. "Peripheral T-cell Lymphoma: a Clinicopathologic Analysis with Comparison to Diffuse Large B-cell Lymphoma." United States and Canadian Academy of Pathology Meeting, 2005.

116. "Peripheral T-cell Lymphoma: How Many Separate Disease Entities?" Lugano Workshop on T-cell Lymphoma, 2005.

117. "Non-Hodgkin Lymphoma (NHL) Around the World: Distribution of Major Subtypes Differs by Geographic Region." 9th International Conference on Malignant Lymphoma, 2005.

118. "Peripheral T-cell Lymphoma: the American View." Institute of Medical Hematology and Oncology, University of Bolongna, 2005.

119. "Peripheral T-cell Lymphoma – International Classification and Clinical Project." Pan-Pacific Lymphoma Conference, 2005.

120. "Classification and Outcome in Peripheral T-cell Lymphoma." Society for Hematopathology Workshop on Progress in T-cell and NK-cell Malignancies, 2005.

121. "WHO Classification of Malignant Lymphoma." Wuhan First International Cancer Symposium, 2005.

122. "Mantle Cell Lymphoma." Wuhan First International Cancer Symposium, 2005.

123. "Peripheral T-cell Lymphoma – International Classification and Clinical Project." Wuhan First International Cancer Symposium, 2005.

124. "WHO Classification of Haematopoietic Malignancy – Clinical Relevance." Egyptian Society of Haematology Congress, 2005.

125. "T-cell Lymphoma." Egyptian Society of Haematology Congress, 2005.

126. "Mantle Cell Lymphoma." 2nd Annual Egyptian Oncology and Hematology Meeting, 2005.

127. "Classification and Outcome in Peripheral T-cell Lymphoma." Milton R. Hales Lecture in Pathology, West Virginia University School of Medicine, 2006.

128. "Peripheral T-cell and NK/T-cell Lymphomas: an International Study of 1320 Cases." United States and Canadian Academy of Pathology Meeting, 2006.

129. "Classification and Outcome in Peripheral T-cell Lymphoma." 46th Annual Meeting of the Japanese Society of Lymphoreticular Tissue Research, 2006.

130. "Peripheral T-cell Lymphomas." Neoplastic Hematopathology Update: New Insights into Old Questions, 2006.

131. "Peripheral T-cell Lymphoma: Prognostic Factors." Bologna Workshop on T-cell Lymphomas, 2006.

132. "Non-Hodgkin Lymphoma Around the World." 13th Hong Kong International Cancer Congress, 2006.

133. "Peripheral T-cell Lymphoma, Unspecified." International T-cell Lymphoma Project Meeting, 2006.

134. "Peripheral T-cell Lymphoma – New Findings." Asia-Pacific T-cell Advisory Board Meeting, 2007.

135. "Geographic Variation in Non-Hodgkin Lymphoma Incidence." 7th International Network for Cancer Treatment and Research (INCTR) Meeting, 2007.

136. "Peripheral T-cell Lymphoma – New Findings." Department of Pathology, Fluminense Federal University of Brazil, 2007.

137. "Peripheral T-cell Lymphoma – New Findings." Hospital do Cancer, Sao Paulo, Brazil, 2007.

138. "Non-Hodgkin Lymphoma Around the World." International Non-Hodgkin Lymphoma Symposium, Society of Hematology in Chile, 2007.

139. "Pathology and Pathogenesis of B-cell Chronic Lymphocytic Leukemia." Monoclonal B-cell Lymphocytosis and Chronic Lymphocytic Leukemia: Environmental and Genetic Risk Factors Workshop, 2007.

140. "What Pathologic Prognostic Markers Can Be Helpful in Mantle Cell Lymphoma?" First Global Workshop on Mantle Cell Lymphoma, 2007.

141. "WHO Classification of Lymphoid Neoplasms: Update in 2008." Japanese Malignant Lymphoma Academy, 2008.

142. "How I Diagnose Lymphoma in Routine Practice and Consultation." Japanese Malignant Lymphoma Academy, 2008.

143. "Histopathologic and Molecular Diagnosis of Diffuse Large B-cell Lymphoma." Japanese Malignant Lymphoma Academy, 2008.

144. "Peripheral T-cell Lymphoma, Not Otherwise Specified: a Clinicopathologic Study of 340 Cases from the International Peripheral T-cell Project. 10th International Conference on Malignant Lymphoma, 2008.

145. "WHO Classification of Non-Hodgkin Lymphoma in Developing Countries." Workshop in Epidemiology and Management of Lymphoma in Developing Countries: Challenges and Opportunities for International Collaborations. 10th International Conference on Malignant Lymphoma, 2008.

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151. "Update on Mantle Cell Lymphoma." 27th International Congress of the International Academy of Pathology, 2008.

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154. "Non-Hodgkin Lymphoma Around the World". Lymphoma Symposium in Argentina, 2009.

155. "Update on Mantle Cell Lymphoma". 22nd European Congress of Pathology, 2009.

156. "Non-Hodgkin Lymphoma Around the World". The 11th National Symposium on Lymphoma in China, 2009.

157. "Mantle Cell Lymphoma - Update and New Perspectives". Department of Pathology, Fudan University Shanghai Cancer Center, 2010.

158. "Non-Hodgkin Lymphoma in Relation to Environmental Contaminants In Nebraska." UNMC Center for Environmental Health and Toxicology, 2010.

159. "Epidemiology of Non-Hodgkin Lymphoma in Nebraska and Around the World". UNMC Center for Research in Leukemia and Lymphoma, 2010.

160. "Peripheral T-cell Lymphomas". 7th International Chicago Lymphoma Symposium, 2010.

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163. "Epidemiology of Non-Hodgkin Lymphoma in Nebraska and Around the World." Chinese Lymphoma Study Group, 2010.

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166. "Epidemiology of Non-Hodgkin Lymphoma Around the World". Peru National Institute of Cancer, 2011.

167. "Epidemiology of Non-Hodgkin Lymphoma Around the World". Pan Pacific Lymphoma Conference, 2011.

168. "CD30 Expression in Lymphoma". Seattle Genetics Advisory Board, 2011.

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171. "Peripheral T-cell Lymphomas". City of Hope Medical Center, 2011.

172. "Epidemiology of Lymphomas". 8th Russian Conference on Malignant Lymphomas, 2011.

173. "Epidemiology of Non-Hodgkin Lymphoma in Nebraska and Around the World". Kansas City Society of Pathologists, 2011.

174. "Mantle Cell Lymphoma: Update and New Perspectives". Kansas City Society of Pathologists, 2011.

175. "Peripheral T-cell Lymphoma". Kansas City Society of Pathologists, 2011.

176. "CD30 Expression in Lymphoma". Seattle Genetics Pathology Round Table, 2011.

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180. "Follicular Lymphoma: Does Grading Really Predict Outcome?" Pan-Pacific Lymphoma Conference, 2012.

181. "Peripheral T-cell Lymphoma." Neoplastic Hematopathology Update, 2012.

182. "Peripheral T-cell Lymphoma - an Update." Kaiser Pathology Group of Southern California, 2012.

183. "Molecular Prognostic Factors in Peripheral T-cell Lymphoma." 5th Annual T-cell Lymphoma Forum, 2013.

184. "Malignant Lymphomas Around the World with Special Regard to Lymphomas in South-East Europe." 1st Macedonian Inter-Congress Meeting, 2013.

185. "Peripheral T-cell Lymphoma." University of Macedonia School of Medicine, 2013.

186. "Nanostring Technology for Molecular Epidemiology Research." Pathology Working Group, 12th InterLymph Meeting, 2013.

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189. "Non-Hodgkin Lymphoma Around the World." Ohio State University Pathology Update Course, 2013.

190. "Peripheral T-cell Lymphomas." Ohio State University Pathology Update Course, 2013.

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193. "Peripheral T-cell Lymphoma". San Diego Society of Hematopathology Meeting, 2014.

194. "Peripheral T-cell Lymphoma". Department of Pathology Grand Rounds, Harbor-UCLA Medical Center, 2015.

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196. "Mantle Cell Lymphoma – Pathology and Biology". Postgraduate Athens Lymphoma Seminar, 2015.

197. "Considerations for Future Modifications of the WHO Classification of T-cell Lymphoma". Postgraduate Athens Lymphoma Seminar, 2015.

198. "Peripheral T-cell Lymphoma". Hematology Grand Rounds, University of Southern California, 2016.

199. "New Insights into Peripheral T-cell Lymphoma". Pan Pacific Lymphoma Conference, 2016.

200. "Chronic Lymphocytic Leukemia and Small Lymphocytic Lymphoma – Same Disease? Same Approach?" Pan Pacific Lymphoma Conference, 2016.

(Submitted: April, 14, 2017)

201. "Plasmablastic Lymphoma Arising in a Background of Small Lymphocytic Lymphoma". 18th Meeting of the European Association of Haematopathology, 2016.

202. "New Insights into Peripheral T-cell Lymphoma", University of Miami Medical Center, 2016.

203. "Mantle Cell Lymphoma – Pathology and Biology", Nebraska Association of Pathologists, 2016.

XI. PATENTS, INVENTIONS AND COPYRIGHTS

PATENTS

- No. 8,131,475 Methods for Identifying, Diagnosing, and Predicting Survival of Lymphomas
- No. 14/540,302 Survival Predictor for Diffuse Large B-Cell Lymphoma
- No. 61900553 Method for Selecting and Treating Lymphoma Types
- No. PCT/US14/64161 Methods for Selecting and Treating Lymphoma Patients
- No. 62/325,213 Evaluation of Mantle Cell Lymphoma and Methods Related Thereto
- No. 14803288.1 – 1403/3066215 Method for Subtyping Lymphoma Types by Means of Expression Profiling

TECHNOLOGIES LICENSED

1. Methods for Identifying, Diagnosing, and Predicting Survival of Lymphomas, Nanostring

EXHIBIT B

Dennis D. Weisenburger, MD – Case Testimony in last 4 years

1. Wendell vs. Johnson & Johnson, et al. United States District Court, Northern District of California, Oakland Division, 2014. Case No. 4:09-cv-04124-CW

Dennis D. Weisenburger, MD – Fees

$500 per hour for work and $5000 per day for deposition and trial, plus travel expenses.

EXHIBIT C

Other Literature Reviewed

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96. Deposition Transcript and Exhibits of Donna Farmer, taken 1/11/2017 and 1/12/2017.

97. Deposition Transcript and Exhibits of Aaron Blair, Ph.D., taken on 3/20/2017.