# Table of Contents

## Highlights

1285  
**Selected Articles from This Issue**

## Review

1287  
**Updated Review of Major Cancer Risk Factors and Screening Test Use in the United States in 2018 and 2019, with a Focus on Smoking Cessation**

Priti Bandi, Adair K. Minihan, Rebecca L. Siegel, Farhad Islami, Nigar Nargis, Ahmedin Jemal, and Stacey A. Fedewa

1320  

Joanne T. Chang, Juan C. Vivar, Jamie Tam, Hoda T. Hammond, Carol H. Christensen, Dana M. van Bemmelen, Babita Das, Uliana Danilenko, and Cindy M. Chang

## Commentaries

1300  
**A Rare Cancer Opportunity**

James V. Lacey Jr.

See related article, p. 1305

1302  
**Sex Hormone and Colorectal Cancer: The Knowns and Unknowns**

Dong Hang and Hongbing Shen

See related article, p. 1336

## Research Articles

1305  
**Epidemiologic Research of Rare Cancers: Trends, Resources, and Challenges**


See related commentary, p. 1300

1312  
**Solid Organ Transplantation and Survival among Individuals with a History of Cancer**

Eric A. Engels, Gregory Haber, Allyson Hart, Charles F. Lynch, Jie Li, Karen S. Pawlish, Baozhen Qiao, Kelly J. Yu, and Ruth M. Pfeiffer

1320  
**Solid Organ Transplantation and Survival among Individuals with a History of Cancer**

Eric A. Engels, Gregory Haber, Allyson Hart, Charles F. Lynch, Jie Li, Karen S. Pawlish, Baozhen Qiao, Kelly J. Yu, and Ruth M. Pfeiffer

1328  
**Tobacco Smoking and the Fecal Microbiome in a Large, Multi-ethnic Cohort**

Ajay Prakash, Brandyln A. Peters, Emilia Cobbs, Dia Beggs, Heesun Choi, Huilin Li, Richard B. Hayes, and Jiyoung Ahn

1336  
**Circulating Levels of Testosterone, Sex Hormone Binding Globulin and Colorectal Cancer Risk: Observational and Mendelian Randomization Analyses**


See related commentary, p. 1302

1349  
**Genetically Predicted Circulating C-Reactive Protein Concentration and Colorectal Cancer Survival: A Mendelian Randomization Consortium Study**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1359</td>
<td>Comparison of Survival among Colon Cancer Patients in the U.S. Military Health System and Patients in the Surveillance, Epidemiology, and End Results (SEER) Program</td>
<td>Jie Lin, Katherine A. McGlynn, Craig D. Shriver, and Kangmin Zhu</td>
</tr>
<tr>
<td>1366</td>
<td>Associations of Household Income with Health-Related Quality of Life Following a Colorectal Cancer Diagnosis Varies With Neighborhood Socioeconomic Status</td>
<td>Jamaica R.M. Robinson, Amanda I. Phipps, Wendy E. Barrington, Philip M. Hurvitz, Lianne Sheppard, Rachel C. Malen, and Polly A. Newcomb</td>
</tr>
<tr>
<td>1375</td>
<td>Socioeconomic Inequalities in Premature Cancer Mortality Among U.S. Counties During 1999 to 2018</td>
<td>Suhang Song, Yuqi Duan, Junjie Huang, Martin C.S. Wong, Hongda Chen, Michael G. Trisolini, Kenneth A. Labresh, Sidney C. Smith Jr, Yinzi Jin, and Zhi-Jie Zheng</td>
</tr>
<tr>
<td>1387</td>
<td>Cancer Mortality Disparities among Asian American and Native Hawaiian/Pacific Islander Populations in California</td>
<td>Heidy N. Medina, Karen E. Callahan, Cyllene R. Morris, Caroline A. Thompson, Adugna Siweya, and Paulo S. Pinheiro</td>
</tr>
<tr>
<td>1397</td>
<td>Tumor-Associated Stromal Cellular Density as a Predictor of Recurrence and Mortality in Breast Cancer: Results from Ethnically Diverse Study Populations</td>
<td>Mustapha Abubakar, Jing Zhang, Thomas U. Ahearn, Hela Koka, Changyuan Guo, Scott M. Lawrence, Karun Mutreja, Jonine D. Figueroa, Jianming Ying, Jolanta Lisowski, Ning Lyu, Montserrat Garcia-Closas, and Xiao Hong Rose Yang</td>
</tr>
<tr>
<td>1416</td>
<td>A Pooled Case-only Analysis of Reproductive Risk Factors and Breast Cancer Subtype Among Black Women in the Southeastern United States</td>
<td>Maureen Sanderson, Tuya Pal, Alicia Beeghly-Fadiel, Mary Kay Fadden, Steffie-Ann Dujon, Chrystina Clinton, Cecil James, Jennifer Davis, Meike Fortune, Jasmine Thompson, Kiera Benson, Nicholas Conley, Sonya Reid, Ann Theak, Xiao Ou Shu, Wei Zheng, William J. Blot, and Loren Lipworth</td>
</tr>
<tr>
<td>1433</td>
<td>Predictors of Palliative Care Knowledge: Findings from the Health Information National Trends Survey</td>
<td>Motolani E. Ogunsanya, Elizabeth A. Goetzinger, Oluwatomi F. Owope, Paulette D. Chandler, and Lauren E. O’Connor</td>
</tr>
<tr>
<td>1440</td>
<td>Anemia May Increase the Overall Risk of Cancer: Findings from a Cohort Study with a 12-Year Follow-up Period in South Korea</td>
<td>Tak Kyu Oh and In-Ae Song</td>
</tr>
</tbody>
</table>

**LETTERS TO THE EDITOR**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1449</td>
<td>Cigarette Filter Ventilation and Biomarkers—Letter</td>
<td>Peter Lee and John Fry</td>
</tr>
<tr>
<td>1450</td>
<td>Cigarette Filter Ventilation and Biomarkers—Reply</td>
<td>Dana Mowls Carroll and Dorothy K. Hatsuaki</td>
</tr>
</tbody>
</table>

**ASPO REPORT**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1451</td>
<td>2020 and 2021 Cullen &amp; Fraumeni Awards Presented At ASPO’s 45th Annual Meeting</td>
<td></td>
</tr>
</tbody>
</table>
ABOUT THE COVER

The cover image is adapted from Figure 1 in the article "Tobacco smoking and the fecal microbiome in a large, multi-ethnic cohort," by Prakash and colleagues. The figure shows beta diversity and ordination of microbiome by smoking status. Increasing evidence suggests that tobacco smoking, a well-known driver of carcinogenesis, influences the gut microbiome; however, these relationships remain understudied in diverse populations. The authors performed an analysis of smoking and the gut microbiome in a subset of 803 adults from the multi-ethnic NYU FAMIIL study. Results showed that the overall composition of the fecal microbiome in former and current smokers differs significantly from that of never smokers, while the taxa Lachnospira and Tenericutes were depleted, relative to never smokers. These shifts were consistent across racial and ethnic subgroups. The findings suggest common mechanisms of smoking associated microbial change across racial subgroups, regardless of initial microbiome composition. The correlation of these differentials with reactive oxygen species (ROS) exposure pathways may suggest a role for these taxa in the known association between smoking, ROS and carcinogenesis. For more information, see the article beginning on page 1328.