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## HOUSE RESOLUTION

REQUESTING A STUDY THAT SUMMARIZES THE PUBLISHED REPORTS AND  
STUDIES ON THE EFFECTS OF 5G WIRELESS TECHNOLOGY ON  
BIOLOGICAL LIFE.

1           WHEREAS, 5G refers to 5th generation wireless technology  
2 intended to provide faster and higher capacity transmissions to  
3 carry the massive data load generated by smart devices, the  
4 Internet of Things, robotics, artificial intelligence,  
5 driverless cars, and other machine-to-machine connections; and  
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7           WHEREAS, 5G uses spectrum in the existing Long-Term  
8 Evolution frequency range, commonly known by the acronym LTE,  
9 and also includes the higher millimeter wave frequencies never  
10 before used for Internet or cell phones; and  
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12           WHEREAS, 5G relies on millions of new small cell antennas  
13 that will be clustered lower to the ground and closer to homes  
14 and schools; and  
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16           WHEREAS, on June 21, 2018, the Governor signed Act 49,  
17 Session Laws of Hawaii 2018, which clears the way for  
18 implementation of 5G in Hawaii by standardizing the process of  
19 5G small cell deployments; and  
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21           WHEREAS, the World Health Organization's International  
22 Agency for Research on Cancer concluded in 2011 that  
23 radiofrequency electromagnetic fields are possibly carcinogenic  
24 to humans (Group 2B); and  
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26           WHEREAS, the Council of Europe published a report on May 6,  
27 2011, on the dangers to public health of electromagnetic fields,  
28 calling for lowering the exposure limits; and  
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30           WHEREAS, United States National Institutes of Health  
31 National Toxicology Program studies have found increased rates



1 of tumors in lab animals exposed to radio frequency radiation;  
2 and

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4 WHEREAS, studies have found potential negative health  
5 effects associated with 5G wireless radiation; and

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7 WHEREAS, due to the uncertainty of the effects of 5G on  
8 biological life, a review should be conducted on the scientific  
9 research regarding whether 5G could affect the health of  
10 Hawaii's residents and the surrounding wildlife; now, therefore,

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12 BE IT RESOLVED by the House of Representatives of the  
13 Thirtieth Legislature of the State of Hawaii, Regular Session of  
14 2019, that the Legislative Reference Bureau is requested to  
15 conduct a study that summarizes the salient points of existing  
16 published reports and studies from reputable sources that have  
17 evaluated the effects of 5G on biological life, highlighting any  
18 information that could apply to the biological life of Hawaii;  
19 and

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21 BE IT FURTHER RESOLVED that the Legislative Reference  
22 Bureau is requested to submit a report of its findings to the  
23 Legislature no later than twenty days prior to the convening of  
24 the Regular Session of 2020; and

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26 BE IT FURTHER RESOLVED that a certified copy of this  
27 Resolution be transmitted to the Director of the Legislative  
28 Reference Bureau.

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OFFERED BY: Tina Wilson

Roy M. Hall  
Ale Gal  
Guthrie Heelan  
Lyn DeCrite

Frank...  
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