**Supplement 1: EMF-induced oxidative molecular damages**

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| **Proteins** |  |
|  Static/ELF EMF | Akdag et al. (2013); Benassi et al. (2016); Bhardwaj et al. (2016); Calabrò et al. (2013);  [Eleuteri](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Eleuteri+AM&cauthor_id=19672456) et al. (2009); Erdal et al. (2008); Kthiri et al. (2019); Seif et al. (2019) |
| RFR | [Asl,](https://www.ncbi.nlm.nih.gov/pubmed/?term=Asl%20JF%5BAuthor%5D&cauthor=true&cauthor_uid=32128712)  [Goudarzi](https://www.ncbi.nlm.nih.gov/pubmed/?term=Goudarzi%20M%5BAuthor%5D&cauthor=true&cauthor_uid=32128712), and [Shoghi](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shoghi%20H%5BAuthor%5D&cauthor=true&cauthor_uid=32128712) (2020); Avci et al. (2012); Bektas, Dasdag, and Bektas (2020); Bilgici et al. (2013); Borzoueisileh et al. (2020); Deshmukh et al. (2013); Djordjevic et al. (2015); Furtado-Filho et al. (2015); Gürler et al. (2014); Jeong et al. (2018); Kim and Rhee (2004); Lian et al. (2018); Marjanovic Cermak et al. (2018); Meena et al. (2014); Motawi et al. (2014); Tkalec et al. (2013) |
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| **DNA** |  |
| Static/ELF EMF | Ahuja et al. (1999); [Al-Huqail and](http://www.ncbi.nlm.nih.gov/pubmed/?term=Al-Huqail%20AA%5BAuthor%5D&cauthor=true&cauthor_uid=26180815) [Abdelhaliem (2015);](http://www.ncbi.nlm.nih.gov/pubmed/?term=Abdelhaliem%20E%5BAuthor%5D&cauthor=true&cauthor_uid=26180815) Buldak et al. (2012); Duan et al. (2015); Giorgi et al. (2017); Ivancsits et al. (2003a,b); Jajte et al. (2001); [Jouni,](http://www.ncbi.nlm.nih.gov/pubmed?term=Jouni%20FJ%5BAuthor%5D&cauthor=true&cauthor_uid=22108253) [Abdolmaleki,](http://www.ncbi.nlm.nih.gov/pubmed?term=Abdolmaleki%20P%5BAuthor%5D&cauthor=true&cauthor_uid=22108253) and [Ghanati](http://www.ncbi.nlm.nih.gov/pubmed?term=Ghanati%20F%5BAuthor%5D&cauthor=true&cauthor_uid=22108253), (2012); Kim et al. (2010, 2012); Kubinyi et al. (2010); Lai and Singh (1997; 2004); Lourencini da Silva et al. (2000); Luo et al. (2006); Mariucci et al. (2010); Nikolova et al. (2005); Pandir and Sahingoz (2014); [Rageh,](http://www.ncbi.nlm.nih.gov/pubmed?term=Rageh%20MM%5BAuthor%5D&cauthor=true&cauthor_uid=23091355) [El-Gebaly](http://www.ncbi.nlm.nih.gov/pubmed?term=El-Gebaly%20RH%5BAuthor%5D&cauthor=true&cauthor_uid=23091355), and [El-Bialy](http://www.ncbi.nlm.nih.gov/pubmed?term=El-Bialy%20NS%5BAuthor%5D&cauthor=true&cauthor_uid=23091355), (2012); Regoli et al. (2005); Schmitz et al. (2004); Singh and Lai (1998); Solek et al. (2017); Storch et al. (2016); Sun et al. (2012); Svedenstal, Johanson, and Mild, (1999); Tiwari et al. (2015); Villarini et al. (2013); Wolf et al. (2005); Yaguchi et al. (1999); Yin et al. (2016); Yokus et al. (2005; 2008); Yoon et al.(2014); Yuan et al. (2020); Zendehdel et al. (2019); Zhang et al. (2016); Zmyślony et al. (2004) |
| RFR | Alkis et al. (2019a,b); Atasoy et al. (2013); Bektas, Dasdag, and Bektas (2020); Burlaka et al. (2013); De Iuliis et al. (2009); Duan et al. (2015); Gajski et al. (2009); Gulati et al. (2020); Güler et al. (2010; 2012); Gürler et al. (2014); Hanci et al. (2013); Houston et al. (2018; 2019); Jeong et al. (2018); Kumar et al. (2014); Lai and Singh (1997); Li et al. (2018); Liu et al. (2013a,b); Luukkonen et al. (2009); Meena et al. (2014); Pandey et al. (2017; 2018); Şahin et al. (2016); Shahin S. et al. (2013); Shahin N.N. et al. (2019); Sharma and Shukla (2020); [Sharma](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Sharma+A&cauthor_id=33109858), [Shrivastava](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Shrivastava+S&cauthor_id=33109858), and [Shukla](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Shukla+S&cauthor_id=33109858) (2020); Sokolovic et al. (2015); Sun et al. (2017); Tkalec et al. (2013); [Tomruk,](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Tomruk%20A%22%5BAuthor%5D) [Guler](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Guler%20G%22%5BAuthor%5D), and [Dincel](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Dincel%20AS%22%5BAuthor%5D) (2010); Vilić et al. (2017); Wang et al. (2015); Wu et al. (2008); Xu et al. (2010); Yakymenko et al. (2018); Yao et al. (2008); [Zothansiama](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zothansiama%5BAuthor%5D&cauthor=true&cauthor_uid=28777669) et al. (2017) |
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| **Lipids** |  |
| Static/ELF EMF | Akdag et al. (2013); Akpinar et al. (2012; 2016); Aksen et al. (2006); Bediz et al. (2006); Buczyński et al. (2005); Chu et al. (2011); Ciejka et al. (2011); Coşkun et al. (2009): da Costa et al. (2021); Emre et al. (2011); Gok et al. (2016): [Guleken](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Guleken+Z&cauthor_id=35189391) et al. (2022); Guler et al. (2008); Hashish et al. (2008); Hosseinabadi et al. (2021); Jajte et al. (2002); Jelenković et al. (2006); [Jouni,](http://www.ncbi.nlm.nih.gov/pubmed?term=Jouni%20FJ%5BAuthor%5D&cauthor=true&cauthor_uid=22108253) [Abdolmaleki,](http://www.ncbi.nlm.nih.gov/pubmed?term=Abdolmaleki%20P%5BAuthor%5D&cauthor=true&cauthor_uid=22108253) and [Ghanati](http://www.ncbi.nlm.nih.gov/pubmed?term=Ghanati%20F%5BAuthor%5D&cauthor=true&cauthor_uid=22108253), (2012); Kantar Gok et al. (2014); Luukkonen et al. (2014); Maliszewska et al. (2018); Martínez-Sámano et al. (2018); Pandir and Sahingoz (2014); Politański et al. (2010); Regoli et al. (2005); [Sahebjamei,](http://www.ncbi.nlm.nih.gov/pubmed?term=Sahebjamei%20H%5BAuthor%5D&cauthor=true&cauthor_uid=16988990) [Abdolmaleki](http://www.ncbi.nlm.nih.gov/pubmed?term=Abdolmaleki%20P%5BAuthor%5D&cauthor=true&cauthor_uid=16988990), and [Ghanati](http://www.ncbi.nlm.nih.gov/pubmed?term=Ghanati%20F%5BAuthor%5D&cauthor=true&cauthor_uid=16988990), (2007); Seifirad et al. (2014); Selaković et al. (2013); [Shabani](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Shabani+Z&cauthor_id=33794719) et al. (2021); Tayefi et al. (2010); Vafaei et al. (2020); Vergallo et al. (2020); Yokus et al. (2005); Zwirska-Korczalaet et al. (2004) |
| RFR | Alkis et al. (2019); [Aweda,](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Aweda%20MA%22%5BAuthor%5D) [Gbenebitse](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Gbenebitse%20S%22%5BAuthor%5D), and [Meidinyo](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Meidinyo%20RO%22%5BAuthor%5D) (2003); Ayata et al. (2004); Aydin and Akar (2011); Aynali et al. (2013); Bilgici et al. (2013); Bodera et al. (2015); Chauhan et al. (2017); Chen et al. (2011); Deshmukh et al. (2013); Djordjevic et al. (2015); [Esmekaya,](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Esmekaya%20MA%22%5BAuthor%5D)  [Ozer](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ozer%20C%22%5BAuthor%5D), and [Seyhan](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Seyhan%20N%22%5BAuthor%5D) (2011); Esmekaya et al. (2016); Gulati et al. (2018); Güler et al. (2010, 2012); Guney et al. (2007); Hanci et al. (2013); Hernández-Morales et al. (2020); Kim et al. (2004); Koylu et al. (2006); Kumar et al. (2014); Maaroufi et al. (2011); Mailankot et al. (2009); Marjanovic Cermak et al. (2017, 2018); Masoumi et al. (2018); Moustafa et al. (2001); Nazıroğlu et al. (2012); Nirwane, Sridhar, and Majumdar (2016); Oksay et al. (2014); Oktem et al. (2005); Oral et al. (2006); Ozguner et al. (2005a,b); [Ozguner,](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Ozguner+F%22%5BAuthor%5D) [Bardak](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Bardak+Y%22%5BAuthor%5D), and [Comlekci](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Search&term=%22Comlekci+S%22%5BAuthor%5D) (2006); Ozorak et al. (2013); Özsobacı et al. (2020); Pastacı Özsobacı et al. (2018); [Saikhedkar et](http://www.ncbi.nlm.nih.gov/pubmed?term=Saikhedkar%20N%5BAuthor%5D&cauthor=true&cauthor_uid=24861496) al. (2014); [Shahin S.,](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shahin%20S%5BAuthor%5D&cauthor=true&cauthor_uid=28780396) [Singh](https://www.ncbi.nlm.nih.gov/pubmed/?term=Singh%20SP%5BAuthor%5D&cauthor=true&cauthor_uid=28780396), and [Chaturvedi](https://www.ncbi.nlm.nih.gov/pubmed/?term=Chaturvedi%20CM%5BAuthor%5D&cauthor=true&cauthor_uid=28780396). (2017); Shahin N.N. et al. (2019); [Sharma](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Sharma+A&cauthor_id=34404322), [Shrivastava](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Shrivastava+S&cauthor_id=34404322), and [Shukla](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Shukla+S&cauthor_id=34404322), (2021); Singh et al. (2012); [Tkalec,](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Tkalec%20M%22%5BAuthor%5D) [Malarić](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Malari%C4%87%20K%22%5BAuthor%5D), and [Pevalek-Kozlina](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Pevalek-Kozlina%20B%22%5BAuthor%5D) (2007); Tkalec et al. (2013); Tök et al. (2014); Türker et al. (2011); Varghese et al. (2018); [Yüksel,](http://www.ncbi.nlm.nih.gov/pubmed/?term=Y%C3%BCksel%20M%5BAuthor%5D&cauthor=true&cauthor_uid=26578367) [Nazıroğlu, and](http://www.ncbi.nlm.nih.gov/pubmed/?term=Naz%C4%B1ro%C4%9Flu%20M%5BAuthor%5D&cauthor=true&cauthor_uid=26578367) [Özkaya](http://www.ncbi.nlm.nih.gov/pubmed/?term=%C3%96zkaya%20MO%5BAuthor%5D&cauthor=true&cauthor_uid=26578367) (2016); [Zosangzuali](https://pubmed.ncbi.nlm.nih.gov/?sort=pubdate&term=Zosangzuali+M&cauthor_id=33687298)et al. (2021); [Zothansiama](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zothansiama%5BAuthor%5D&cauthor=true&cauthor_uid=28777669) et al. (2017) |

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